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Why do business with American Granby

- ☺ The Original Source of Vendor Consolidation™
- ☺ Highest Quality Products
- ☺ Extensive Product Offering
- ☺ Easily Understood Discounts
- ☺ Fast, Accurate Shipments
- ☺ Knowledgeable Customer Service Dept.

American Granby Sales Representative:

Name _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Cell _____ Email _____

For shipping information or to place orders contact:

American Granby US Customer Sales Department
Phone: 800-776-2266
315-451-1100
Fax: 800-729-3299
Email: customerservice@americangranby.com

In Canada:
Phone: 800-268-7570
Fax: 905-629-3204
Email: sales@cbsupplies.ca

Address mail orders or other correspondence to:

American Granby, Inc.
7652 Morgan Road
Liverpool, NY 13090 USA

CB Supplies
5266 Timberlea Blvd.
Mississauga, ON L4W 2S6

Contact us on the web at *www.americangranby.com*



This catalog is also available on CD. Call for your copy today.





Since 1962, American Granby has served the water systems, pool & spa, turf irrigation and plumbing & heating markets in North America and around the world.

The 2006 construction and 2016 expansion of our new state of the art distribution facility is only a small part of our continued commitment to serve our customers now and well into the future.













American Granby™

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Terms & Conditions of Sale

1. When ordering material please use American Granby Inc. (AGI) part number, size and other definitive information necessary. AGI reserves the right to correct clerical errors or omissions in quotations or other documents.

2. **ORDERS AND CONTRACTS:** Subject to acceptance at the office in Liverpool, New York. Any statement in an order of contract which modifies AGI's Terms and Conditions as set forth here, must first be accepted in writing by AGI. Any order cancelled after acceptance by AGI is subject to a 25% cancellation charge.

3. **PRICES AND QUOTATIONS:** Orders will be invoiced at the prices in effect at the time of shipment. Unless otherwise specified, prices are F.O.B. point of shipment. All prices and quotations are subject to change without notice. Items not listed in this catalog will be quoted on application.

4. **MINIMUM ORDERS:** All orders under $100.00 will be charged $25.00 to cover packing, shipping, order processing, billing and other handling expenses.

5. **TAXES:** Any tax that may be imposed by law on the sale of articles made or sold by this company shall be added to the sale price of such articles.

6. **TERMS:** 2% 15 days, Net 30 Days unless otherwise noted. CASH DISCOUNTS TAKEN BEYOND TERMS STATED ON THE INVOICE WILL BE DISALLOWED.

7. **FREIGHT & DELIVERY:** All merchandise shipped FOB point of shipment. Full freight allowed on shipments from the AGI warehouse within the continental US for orders totalling **$1300** net. Shipments to Puerto Rico are prepaid at **$4000** net. Other shipments outside the continental US are prepaid and allowed to closest inland point based on above net minimums. The individual manufacturer's freight will supersede AGI's freight policy on drop ship items. Special order items are not subject to prepaid freight allowances.

Additional Freight Charges: Additional fees for residential, remote areas, lift gate service or any special circumstance deliveries from the freight carrier will be the responsibility of the receiver of the shipment and a separate invoice will be issued upon receipt of notification of such charges. This applies to any freight prepaid, freight allowed or prepay and add invoices. The receiver of the shipment is to pay all additional fees.

8. **SPECIAL PRODUCTS/ORDERS:** Requests for cancellation of these orders will not be considered if the manufacture of the product is in process or the special product has already been shipped by the manufacturer when the customer's request for cancellation reaches the home office. Special orders for non-cataloged items, or products made to customer's specifications can not be returned for any refund. Special order items are not subject to prepaid freight allowances.

9. **WARRANTY:** All products, with the exception of chemical feed pumps are warranted to authorized distributors/wholesalers purchasing from AGI as to workmanship and material for a period of one year from date of sales by AGI, when the products are used in recommended service. AGI's liability and its customer's exclusive remedy under this warranty, expressed or implied is limited to repair, replacement or credit at AGI's option, for such parts as proven defective. If such product(s) or part(s) are returned, shipping charges must be prepaid, to AGI at its factory at 7652 Morgan Road Liverpool, NY 13090. AGI will examine such product(s) or part(s) promptly upon arrival. If a defect covered by this warranty is found, AGI will, in its sole discretion, either repair the defect or replace the defective part(s) or allow a credit for the defective part(s). If a part is replaced, it is a condition of this warranty that AGI be allowed to keep the returned part. Costs of shipping all parts or products back to the distributor/wholesaler shall be solely the responsibility of the distributor/wholesaler; repairs and replacements are furnished F.O.B. AGI's factory only.

NOTE: This warranty is extended to distributors/wholesalers who have purchased products covered from AGI. AGI extends no warranty of such products to "consumers", as that term is defined in the Magnuson-Moss Warranty-Federal Trade Commission Improvement Act (14 U.S.C. 2301 et. seq.), and the regulations promulgated thereunder. There are no warranties other than those contained in this statement, and neither any representation or affirmation made nor any drawing or sample shown, shall be deemed to create any warranty or standard of performance. In the event that any AGI product is modified at any place other than the point of original manufacture, this warranty is null and void. The warranty set forth in this paragraph is made expressly in lieu of all other warranties expressed, implied or statutory, including, but not limited to, warranties with respect to quality, merchantability, or fitness of a particular purpose.

10. **LIMITATION OF LIABILITY:** The exclusive remedy to which AGI may be subjected by reason of any breach of warranty, or in connection with any goods supplied by AGI, or by reason of any breach of agreement shall be for damages and the amount of damage for which AGI shall be liable shall be limited in accordance with the provisions hereof. AGI's liability for any and all losses and damages to purchaser or any other person resulting from any breach of any warranty by which AGI may be bound, from any damaged or defective goods supplied by AGI (regardless of whether any said defect shall be discoverable or latent), failure to deliver, breach of agreement, or any other cause whatsoever, including AGI's negligence, shall in no event exceed the purchase price of the particular goods with respect to which losses or damages are claimed, or at the election of AGI, the repair or replacement of defective or damaged goods. In no event, including a claim of negligence, shall AGI be liable for incidental or consequential damages as defined in Section 2-715 of the Uniform Commercial Code. Without limitation to the foregoing, in no event shall American Granby be liable for the loss of use of the product, process, plant, equipment or facilities of the purchaser or the end-user whether partially or wholly due to defects in material and/or workmanship and/or design of AGI's product and in no event shall AGI be liable for expenses necessary to remove or reinstall any product supplied by AGI, or for any damages to other property or equipment resulting from any such removal or reinstallation. Damages resulting from improper storage, improper product rotation, improper handling, freezing, improper installation, fire or any act of God will not be considered by AGI as its liability. AGI will not assume any expenses or liability for repairs or modifications made to its products, without its written consent.

11. **DELIVERY:** AGI's responsibility ceases upon delivery to any common carrier. AGI does not, unless under previous written agreement, insure shipments beyond the point of delivery to such carrier. AGI shall not be responsible for delays resulting from strikes, accidents, negligence of carriers, or any other causes beyond our control. AGI may, during a period of shortage due to causes beyond its control, prorate the supply of its products among all of its customers in such a manner as may be deemed equitable at the sole discretion of AGI.

12. **RETURNED GOODS:** Materials may not be returned unless authorization has first been obtained from the Liverpool, NY office. AGI reserves the right to refuse acceptance of deliveries of materials returned without this consent. All returns of saleable goods will be subject to a 25% restocking/handling charge. All authorized returned goods must be shipped prepaid by the customer. **Returns accepted within 30 days from date of authorization only.**

13. **ERRORS, SHORTAGES, ETC:** Claims for errors, shortages, etc. must be made within 30 days of receipt of goods, otherwise no allowance will be made. **WHEN PRODUCTS ARE SHIPPED ON WRAPPED PALLETS, INDIVIDUAL CARTONS MUST BE COUNTED UPON RECEIPT. ANY SHORTAGES OR OTHER DISCREPANCIES MUST BE NOTED ON THE DELIVERY RECEIPT AT THE TIME OF RECEIPT OR CLAIMS WILL BE CONSIDERED WAIVED.**

14. **PRODUCT CHANGES:** AGI reserves the right to make changes in pattern, design or materials when deemed necessary, without prior notice. Products which have become obsolete by reason of design change or discontinued as a manufactured item may not be returned for any refund.

15. **EXPORT:** Additional charges quoted upon application for export packaging and crating.

American Granby



American Granby was established in 1962 to serve the distribution needs of the wholesale market. With the birth of American Granby came the concept of "Vendor Consolidation."™ We strive to provide you with the products you need and the service you deserve. The following supplier partners have made our mission possible and we thank them.



American Granby

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SECTION P
POOL & SPA

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IF Series



HF Series



RBF Series

HARVARD Handi-Lock® Float Features:

- Made of polyethylene and treated with chlorine inhibitors and ultraviolet stabilizers for durability and long life.
- Self locking feature fixes on line without additional expense of float keepers or wedges.
- Three sealed compartments for optimum buoyancy in case of puncture.
- Three inside diameters to accommodate 3/8", 1/2" or 3/4" rope (either hollow braid or twisted).
- Patented.

HARVARD High Impact Styrene Float Features:

- Blue and white high impact styrene.
- Fits 3/8" hollow braid rope.

HARVARD Rainbow Style Float Features:

- Polyethylene
- Unsinkable
- Durable
- Chlorine inhibitors and ultraviolet stabilizers added.
- 3" x 5" for 1/2" pool rope and 5" x 9" for 3/4" pool rope available.

Part Number	Float Size	Rope Size	Color	Ctn Qty	List Price
IF3538	3" x 5"	3/8"	Blue/White/Blue	50	$ 8.47
IF3538R	3" x 5"	3/8"	Red/White/Red	50	8.47
IF3538O	3" x 5"	3/8"	Orange/White/Orange	50	8.47
IF3550	3" x 5"	1/2"	Blue/White/Blue	50	8.47
IF3550R	3" x 5"	1/2"	Red/White/Red	50	8.47
IF3550O	3" x 5"	1/2"	Orange/White/ Orange	50	8.47
IF3550RWB	3" x 5"	1/2"	Red/White/Blue	50	8.47
IF3550 ALL BLUE	3" x 5"	1/2"	Blue/Blue/Blue	50	8.47
IF3550 ALL RED	3" x 5"	1/2"	Red/Red/Red	50	8.47
IF3550 ALL WHITE	3" x 5"	1/2"	White/White/White	50	8.47
IF5950	5" x 9"	1/2"	Blue/White/Blue	24	16.32
IF5950R	5" x 9"	1/2"	Red/White/Red	24	16.32
IF5950O	5" x 9"	1/2"	Orange/White/Orange	24	16.32
IF5950W	5" x 9"	1/2"	White/White/White	24	16.32
IF5975	5" x 9"	3/4"	Blue/White/Blue	24	16.32
IF5975R	5" x 9"	3/4"	Red/White/Red	24	16.32
IF5975O	5" x 9"	3/4"	Orange/ White/Orange	24	16.32
IF5975RWB	5" x 9"	3/4"	Red/White/Blue	24	16.32
HF35	3" x 5"	3/8"	Blue/White	10	3.86
RBF35BW	3" x 5"	1/2"	Blue/White	100	3.85
RBF35RW	3" x 5"	1/2"	Red/White	100	3.85
RBF35YW	3" x 5"	1/2"	Yellow/White	100	3.85
RBF35W	3" x 5"	1/2"	Solid White	100	3.85
RBF59BW	5" x 9"	3/4"	Blue/White	24	7.55
RBF59RW	5" x 9"	3/4"	Red/White	24	7.55
RBF59YW	5" x 9"	3/4"	Yellow/White	24	7.55
RBF59WHITE	5" x 9"	3/4"	Solid White	24	7.55
RBF59RED	5" x 9"	3/4"	Solid Red	24	7.55

Pool Rope and Float Kits



IFK Series

IFK Series Float Kit Features:

- Blue and White Handi-Lock® Floats packaged for 16', 18', 20', 22' and 25' pools.
- Each partially assembled kit contains rope, Handi-Lock® Floats, 2 chrome plated brass rope hooks, splicing FID, and a full set of illustrated instructions.
- Individually packaged in shelf stackable boxes.
- 4 kits per master carton.



RFK Series

RFK Series Float Kit Features:

- Blue and White styrene float lane markers packaged for 12', 14' 16', 18' 20', 22' and 25' pools.
- Completely assembled and ready to install.
- Each individually bagged kit contains braided polypropylene rope with attractive blue/white floats, prefixed at regular intervals and two chrome plated brass hook eyes.

Part Number	Pool Size	Rope Length	Rope Size	Floats	Ctn Qty	List Price
IFK16	16'	18'	3/8"	5	4	$ 63.74
IFK18	18'	20'	3/8"	6	4	71.09
IFK20	20'	22'	3/8"	7	4	79.33
IFK22	22'	24'	3/8"	7	4	80.23
IFK25	25'	27'	3/8"	8	4	87.75
RFK12	12'	14'	3/8"	5	6	**39.94**
RFK14	14'	16'	3/8"	5	6	**40.04**
RFK16	16'	18'	3/8"	5	6	38.44
RFK18	18'	20'	3/8"	7	6	45.79
RFK20	20'	22'	3/8"	9	4	53.34
RFK22	22'	24'	3/8"	9	4	53.77
RFK25	25'	27'	3/8"	10	4	59.89

Custom Float Kits also available on a special order basis.

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Pool Rope - Twisted/Braided



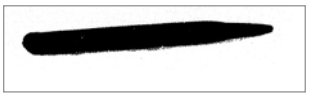


PR Series





BPR Series



FID

Pool Rope Features:

- Polypropylene.
- Floatable.
- Waterproof.
- Rot Resistant.
- Easy to Handle.
- Resists Oil and Gasoline.
- Resists Most Chemicals.
- Resistant to Abrasion.
- Resistant to Color Fading.

Part Number	Color	Diameter	Length	List Price
Twisted Pool Rope				
YR25-500	Solid Yellow	1/4”	500’	$ 52.09
PR25-6	Blue/White	1/4”	600’	62.26
PR25-6R	Red/White	1/4”	600’	71.38
YR25-1	Solid Yellow	1/4”	1000’	103.75
PR38-3R	Red/White	3/8”	300’	68.21
PR38-30	Orange/White	3/8”	300’	68.21
PR38-3W	Solid White	3/8”	300’	68.21
PR38-4	Blue/White	3/8”	400’	92.74
PR38-6	Blue/White	3/8”	600’	136.49
PR38-6R	Red/White	3/8”	600’	136.49
PR38-60	Orange/White	3/8”	600’	136.49
PR38-6W	Solid White	3/8”	600’	136.49
PR50-3	Blue/White	1/2”	300’	121.79
PR50-3R	Red/White	1/2”	300’	121.79
PR50-30	Orange/White	1/2”	300’	121.79
PR50-3W	Solid White	1/2”	300’	121.79
PR50-6	Blue/White	1/2”	600’	243.58
PR50-6R	Red/White	1/2”	600’	243.58
PR50-60	Orange/White	1/2”	600’	243.58
PR50-6W	Solid White	1/2”	600’	243.58
PR58-6	Blue/White	5/8”	600’	373.63
PR75-3	Blue/White	3/4”	300’	289.59
PR75-3R	Red/White	3/4”	300’	289.59
PR75-30	Orange/White	3/4”	300’	289.59
PR75-3W	Solid White	3/4”	300’	289.59
PR75-6	Blue/White	3/4”	600’	551.19
PR75-6R	Red/White	3/4”	600’	551.19
PR75-60	Orange/White	3/4”	600’	551.19
PR75-6W	Solid White	3/4”	600’	551.19
PR75-6Y	Solid Yellow	3/4”	600’	551.19
Braided Pool Rope				
BPR38-5	Blue/White	3/8”	500’	123.19
Splicing Fid				
FID	Splicing Fid, For 3/8” braided rope			2.42

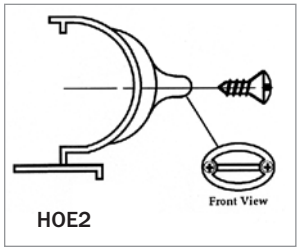
Pool Rope Anchors & Hooks

Chrome Plated Brass Rope Accessory Features:

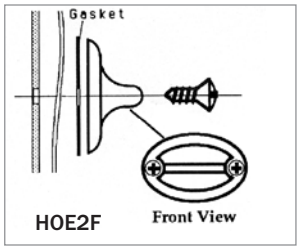
- Bright chrome finished brass rope accessories.
- Precision cast from corrosion resistant brass.
- Stainless steel fasteners.
- Black or White EPDM gaskets.
- Fully assembled.



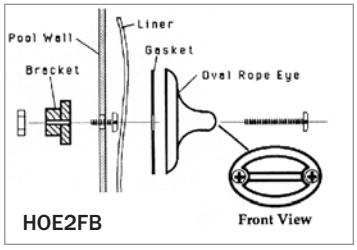
HOE2



HOE2



HOE2F



HOE2FB

Part Number	Description	Ctn Qty	List Price
HOE2	Chrome Plated Brass CURVED COPING MOUNT Oval Rope Anchor (Set of 2 w/ ss self tap screws)	72	$ 24.96
HOE2F	Chrome Plated Brass FLAT WALL MOUNT Oval Rope Anchor (Set of 2 w/ ss self tap screws, EPDM gasket)	6/72	24.96
HOE2FB	Chrome Plated Brass FLAT WALL MOUNT Oval Rope Anchor w/ brass mounting bracket and hardware (Set of 2 w/ ss screws, EPDM gasket, brass mounting brackets)	6/72	24.43
HCA	Chrome Plated Brass Cup Anchor for concrete pools.	12/120	14.89
HEBA	Chrome Plated Brass wall mount eye with washer gasket and nut for vinyl liners. 1-3/8" long bolt	20/200	12.32
HPRS	Chrome Plated Strap Type Rope Anchor used under coping for vinyl pools. 14" long	12/252	14.26
HRH	Chrome Plated Brass "S" Rope Hook for 1/4"-1/2" rope	500	**6.65**
AGHP52	CLEAT Style Chrome Plated Brass Hook for 3/8" & 1/2" rope w/ ss screws	125	19.57
AGHP53	CLEAT Style Chrome Plated Brass Hook for 3/4" rope w/ ss screws	125	27.58



HCA



HEBA



HPRS



HRH



AGHP

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PV79, PV69 Series

ISO 9002

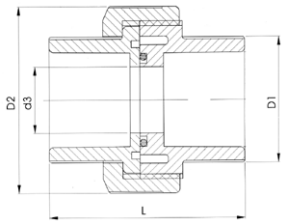
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

PVC Sch 80 Union Features:

- Ideal for swimming pool, spa and plumbing installations.
- EPDM O-Ring seal.
- Working pressure: 150 PSI at 72ºF, 100 PSI at 120ºF.
- Meets ASTM standards for Schedule 80 construction.
- Manufactured for AGI in an ISO 9002 facility.
- NSF listed.
- Available white or gray.
- **Third party certified to NSF/ANSI 372.**

MATERIAL SPECIFICATIONS	
Body	PVC
End Connector	PVC
Union Nut	PVC
O-Ring	EPDM



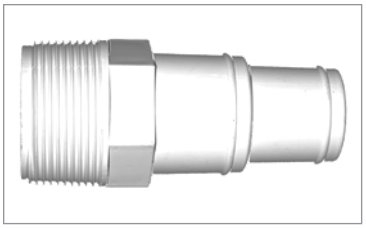
DIMENSIONS (IN.) SIZE	d3	D1	D2	L
1/2”	.51	1.21	1.80	2.11
3/4”	.71	1.45	2.15	2.42
1”	.92	1.76	2.58	2.69
1 1/4”	1.17	2.11	3.20	3.32
1 1/2”	1.52	2.54	3.83	3.40
2”	1.92	3.05	4.68	3.71
3”	2.84	3.52	6.10	4.96
4”	3.94	4.52	8.86	6.30

Part Number			IPS Size	Ctn Qty	List Price		
SCHEDULE 80 - WHITE					**PV797**	**PV798**	**PV799**
SLIP X SLIP	**FIPT X FIPT**	**SLIP X FIPT**			**SXS**	**TXT**	**SXT**
PV797-1/2	PV798-1/2		1/2”	36	$ 3.66	$ 3.83	
PV797-3/4	PV798-3/4		3/4”	24/144	4.82	5.00	
PV797-1	PV798-1		1”	12/96	6.19	6.62	
PV797-11/4	PV798-11/4		1 1/4”	12/96	11.02	11.60	
PV797-11/2	PV798-11/2	PV799-11/2	1 1/2”	8/64	13.92	14.48	$ 14.17
PV797-2	PV798-2	PV799-2	2”	4/48	19.37	20.37	20.24
SCHEDULE 80 - GRAY					**PV697**	**PV698**	
slip x slip	**FIPT x FIPT**				**SxS**	**TXT**	
PV697-1/2	PV698-1/2		1/2”	36/288	$ 3.66	$ 3.86	
PV697-3/4	PV698-3/4		3/4”	24/144	4.83	5.10	
PV697-1	PV698-1		1”	12/96	6.19	6.75	
PV697-11/4	PV698-11/4		1 1/4”	12/96	11.02	11.45	
PV697-11/2	PV698-11/2		1 1/2”	8/64	13.92	14.76	
PV697-2	PV698-2		2”	4/48	19.74	20.75	
PV697-3	PV698-3		3”	2/12	39.95	41.31	
PV697-4			4”	1/4	88.67		

Replacement O-Ring for PV797, PV798, PV799, PV697, PV698			
PV796-1/2	1/2”	1	$ 0.35
PV796-3/4	3/4”	1	0.35
PV796-1	1”	1	0.42
PV796-11/4	1 1/4”	1	0.42
PV796-11/2	1 1/2”	1	0.70
PV796-2	2”	1	0.70
Union Repair Split Nut			
SNR150	1 1/2” FBT Repair Split Nut w/ Screw	125	5.52
SNR200	2” FBT REpair Split Nut w/ Screw	100	6.08



Specialty Pool & Spa Fittings

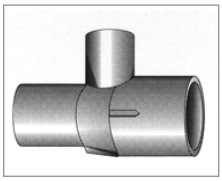


SPA1512

Pool/Spa Hose Adapter Features:

- Larger hex nut than most other styles
- Ribbed insert end to promote a tight seal and tapered thread to prevent “bottoming out” during installation
- White ABS plastic

Part Number	Description	Ctn Qty	List Price
SPA1512	1 1/2" mip x 1 1/2”, 1 1/4” combo hose adapter	100	$ 1.86



473-210



B1241

Part Number	Description	Ctn Qty	List Price
Venturi Tee			
473-825	3/4” x 1” x 3/4” Venturi Tee	50	$ **12.99**
473-210	1 1/2” x 1 1/2” x 3/4” Venturi Tee	25	**15.80**
Fittings			
B1241-00	1 1/2” 90 elbow, spigot x spigot	25	**11.55**



SW406 Series



SW409 Series

PVC Sweep Elbow Features:

- Exceeds requirements of CA Title 24, Pool Systems & Equipment Installations.
- Sweep Elbows reduce head loss.
- Socket dimensions to Sch 40 ASTM D 2464.
- Listed to NSF/ANSI Standard 50 Swimming Pools, Spas and Hot Tubs - Circulation System Component.

Part Number	Description	Ctn Qty	List Price
SW406-015	1 1/2" PVC Sweep Elbow SL x SL	25	$ **4.06**
SW406-020	2” PVC Sweep Elbow SL x SL	25	**4.84**
SW406-025	2 1/2” PVC Sweep Elbow SL x SL	25	**7.76**
SW409-015	1 1/2” PVC Sweep Elbow SL x SPG	25	**3.85**
SW409-020	2” PVC Sweep Elbow SL x SPG	25	**4.60**



Schedule 80 CPVC Nipple Features:

- Sturdy.
- Lightweight.
- Chemical Resistant.
- Gray.
- Threaded on both ends.

SCHEDULE 80 CPVC PIPE NIPPLES			
PART NO.	SIZE	CTN QTY	LIST PRICE
CPVC1XCLOSE	1 X CLOSE	25	$ 2.92
CPVC11/2xCLOSE	1 1/2 x CLOSE	25	4.26
CPVC11/2X6	1 1/2X 6	25	12.27
CPVC11/2x8	1 1/2 x 8	25	14.92
CPVC11/2X12	1 1/2 X 12	25	23.24
CPVC2XCLOSE	2 X CLOSE	25	7.10
CPVC2X6	2 X 6	25	17.50
CPVC2x8	2 x 8	25	20.73
CPVC2X12	2 X 12	BULK	31.94
CPVC2x24	2 x 24	BULK	64.26

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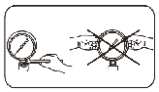
Pressure Gauge

ISO 9001

Pressure Gauge Features:

- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- **TO BE USED WITH AIR OR WATER ONLY.**
- Manufactured for AGI in an ISO 9001 facility.





CAUTION

POLYPROPYLENE CASE:

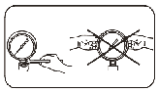
- Bourdon tube movement is totally enclosed in corrosion resistant polypropylene housing, acrylic lens.
- Resists rust, electrolytic action and chemical solvents.
- Brass sockets standard.

STEEL CASE:

- Deep drawn one piece steel housing encases a quality movement.
- Genuine mar-resistant glass lens and brass socket connections are standard.

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, PLASTIC CASE, DRY							
IPPG302-4L	Plastic	0-30#	Pressure	2"	1/4 Lower	100	$ 6.64
IPPG302-4B	Plastic	0-30#	Pressure	2"	1/4 Back	100	6.64
IPPG602-4L	Plastic	0-60#	Pressure	2"	1/4 Lower	100	6.64
IPPG602-4B	Plastic	0-60#	Pressure	2"	1/4 Back	100	6.64
IPPG1002-4L	Plastic	0-100#	Pressure	2"	1/4 Lower	100	6.64
IPVG302-4L	Plastic	0-30 Hg"	Vacuum	2"	1/4 Lower	100	7.39
2" DIAL SIZE, STEEL CASE, DRY							
IPG302-4L	Steel	0-30#	Pressure	2"	1/4 Lower	100	6.84
IPG302-4B	Steel	0-30#	Pressure	2"	1/4 Back	100	6.84
IPG302-8L	Steel	0-30#	Pressure	2"	1/8 Lower	100	6.84
IPG302-8B	Steel	0-30#	Pressure	2"	1/8 Back	100	6.84
IPG602-4L	Steel	0-60#	Pressure	2"	1/4 Lower	100	6.84
IPG602-4B	Steel	0-60#	Pressure	2"	1/4 Back	100	6.84
IPG602-8L	Steel	0-60#	Pressure	2"	1/8 Lower	100	6.84
IPG1002-4L	Steel	0-100#	Pressure	2"	1/4 Lower	100	6.84
IPG1002-8B	Steel	0-100#	Pressure	2"	1/8 Back	100	6.84

Pressure Gauges - Dry



CAUTION



↓ Reduced price - Limited quantities available.

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, STEEL CASE, DRY							
IPVG302-4B	Steel	0-30 Hg"	Vacuum	2"	1/4 Back	100	7.39
IPVG302-8L	Steel	0-30 Hg"	Vacuum	2"	1/8 Lower	100	7.39
IPCG3602-4L	Steel	30Hg"/60#	Vacuum/PRessure	2"	1/4 Lower	200	7.39
2 1/2" DIAL SIZE, DRY							
IPG3025-4L	Steel	0-30#	Pressure	2 1/2"	1/4 Lower	100	8.71
IPG6025-4L	Steel	0-60#	Pressure	2 1/2"	1/4 Lower	100	8.71
IPG10025-4L	Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50	8.71
IPG16025-4L	Steel	0-160#	Pressure	2 1/2"	1/4 Lower	100	8.71
IPG40025-4L	Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50	8.71
IPVG3025-4L	Plastic	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50	8.71
4 1/2" DIAL SIZE, STEEL CASE, DRY							
IPG3045-4L	Steel	0-30#	Pressure	4 1/2"	1/4 Lower	50	18.42
IPG6045-4L	Steel	0-60#	Pressure	4 1/2"	1/4 Lower	50	18.42
IPG10045-4L	Steel	0-100#	Pressure	4 1/2"	1/4 Lower	50	18.42
IPVG3045-4L	Steel	30 Hg"	Vacuum	4 1/2"	1/4 Lower	50	18.42
IPCG36045-4L	Steel	30 Hg"/60#	Vacuum/Pressure	4 1/2"	1/4 Lower	50	18.42
IPCG31045-4L	Steel	30 Hg"/160#	Vacuum/Pressure	4 1/2"	1/4 Lower	50	18.42

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Pressure Gauges - NO LEAD Dry



IPPG or IPG Series

ISO 9001

Pressure Gauge Features:

- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- **TO BE USED WITH AIR OR WATER ONLY.**
- Manufactured for AGI in an ISO 9001 facility.
- Bourdon tube movement is totally enclosed in corrosion resistant housing.
- Resists rust, electrolytic action and chemical solvents.
- **Third party certified to NSF/ANSI 372.** No Lead brass sockets.
- Deep drawn one piece steel or molded plastic housings encase a quality movement.
- Genuine mar-resistant glass or acrylic lens.

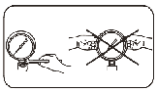
HARVARD

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, PLASTIC CASE, DRY							
IPPG302-4LNL	Plastic	0-30#	Pressure	2"	1/4 Lower	100	$ 8.05
IPPG302-4BNL	Plastic	0-30#	Pressure	2"	1/4 Back	100	8.05
IPPG602-4LNL	Plastic	0-60#	Pressure	2"	1/4 Lower	100	8.05
IPPG602-4BNL	Plastic	0-60#	Pressure	2"	1/4 Back	100	8.05
IPPG1002-4LNL	Plastic	0-100#	Pressure	2"	1/4 Lower	100	8.05
EIPPG1002-4LPNL	Plastic	0-100#	Pressure	2" No dial logo	1/4 Lower	100	7.61
IPPG1002-4BNL	Plastic	0-100#	Pressure	2"	1/4 Back	100	8.05
IPVG302-4LNL	Plastic	0-30 Hg"	Vacuum	2"	1/4 Lower	100	8.63
2" DIAL SIZE, STEEL CASE, DRY							
IPG152-4LNL	Steel	0-15#	Pressure	2"	1/4 Lower	100	7.55
IPG302-4LNL	Steel	0-30#	Pressure	2"	1/4 Lower	100	8.22
IPG302-4BNL	Steel	0-30#	Pressure	2"	1/4 Back	100	8.22
IPG302-8LNL	Steel	0-30#	Pressure	2"	1/8 Lower	100	8.22
IPG302-8BNL	Steel	0-30#	Pressure	2"	1/8 Back	100	8.22
IPG602-4LNL	Steel	0-60#	Pressure	2"	1/4 Lower	100	8.22
IPG602-4BNL	Steel	0-60#	Pressure	2"	1/4 Back	100	8.22
IPG602-8LNL	Steel	0-60#	Pressure	2"	1/8 Lower	100	8.22
IPG1002-4LNL	Steel	0-100#	Pressure	2"	1/4 Lower	100	7.50
EIPG1002-4LPNL	Steel	0-100#	Pressure	2" No dial logo	1/4 Lower	100	7.53
IPG1002-4BNL	Steel	0-100#	Pressure	2"	1/4 Back	100	8.22
IPG1002-8LNL	Steel	0-100#	Pressure	2"	1/8 Lower	100	8.22
IPG1002-8BNL	Steel	0-100#	Pressure	2"	1/8 Back	100	8.22
IPG1602-4LNL	Steel	0-160#	Pressure	2"	1/4 Lower	100	8.22

Pressure Gauges - NO LEAD Dry



CAUTION

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, STEEL CASE, DRY							
IPG2002-4LNL	Steel	0-200#	Pressure	2"	1/4 Lower	100	$ 7.50
IPG2002-4BNL	Steel	0-200#	Pressure	2"	1/4 Back	100	8.22
IPG2002-8LNL	Steel	0-200#	Pressure	2"	1/8 Lower	100	8.22
IPG3002-4LNL	Steel	0-300#	Pressure	2"	1/4 Lower	100	8.22
IPVG302-4BNL	Steel	0-30 Hg"	Vacuum	2"	1/4 Back	100	8.63
IPVG302-8LNL	Steel	0-30 Hg"	Vacuum	2"	1/8 Lower	100	8.63
IPCG3102-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	2"	1/4 Lower	100	8.63
IPCG3602-4LNL	Steel	30Hg"/60#	Vacuum/PRessure	2"	1/4 Lower	200	8.63
2" DIAL SIZE, STAINLESS STEEL CASE, 316SS INTERNALS and MOUNT, DRY							
EIPG1002-4LSS316	**Stainless Steel**	**0-100#**	**Pressure**	**2"**	**1/4 Lower**	**100**	**18.70**
EIPG1002-4BSS316	**Stainless Steel**	**0-100#**	**Pressure**	**2"**	**1/4 Back**	**100**	**22.35**
EIPG2002-4LSS316	**Stainless Steel**	**0-200#**	**Pressure**	**2"**	**1/4 Lower**	**100**	**18.70**
EIPG2002-4BSS316	**Stainless Steel**	**0-200#**	**Pressure**	**2"**	**1/4 Back**	**100**	**22.35**
2 1/2" DIAL SIZE, DRY							
IPG1525-4LNL	Plastic	0-15#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG3025-4LNL	Steel	0-30#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG6025-4LNL	Steel	0-60#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG10025-4LNL	Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50	10.54
IPG16025-4LNL	Steel	0-160#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG20025-4LNL	Steel	0-200#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG30025-4LNL	Steel	0-300#	Pressure	2 1/2"	1/4 Lower	50	10.54
IPG40025-4LNL	Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50	10.54
IPVG3025-4LNL	Plastic	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50	10.54
IPCG31025-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	2 1/2"	1/4 Lower	50	10.54
3 1/2" DIAL SIZE, STEEL CASE, DRY							
IPG3035-4LNL	Steel	0-30#	Pressure	3 1/2"	1/4 Lower	50	15.38
IPG10035-4LNL	Steel	0-100#	Pressure	3 1/2"	1/4 Lower	50	15.38
IPG20035-4LNL	Steel	0-200#	Pressure	3 1/2"	1/4 Lower	50	15.38
IPG30035-4LNL	Steel	0-300#	Pressure	3 1/2"	1/4 Lower	50	15.38
4 1/2" DIAL SIZE, STEEL CASE, DRY							
IPG3045-4LNL	Steel	0-30#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPG6045-4LNL	Steel	0-60#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPG10045-4LNL	Steel	0-100#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPG20045-4LNL	Steel	0-200#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPG30045-4LNL	Steel	0-300#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPVG3045-4LNL	Steel	30 Hg"	Vacuum	4 1/2"	1/4 Lower	50	19.98
IPCG36045-4LNL	Steel	30 Hg"/60#	Vacuum/Pressure	4 1/2"	1/4 Lower	50	19.98
IPCG31045-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	4 1/2"	1/4 Lower	50	19.98

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Pressure Gauges - Liquid Filled



EILPG Series

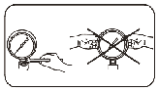


ILPG Series

Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case
- Glycerine Filled, Phosphor bronze bourdon tube
- Accuracy +/- 3-2-3%
- 2” or 2 1/2” Dial face with clear acrylic lens
- Crimped stainless steel ring
- For use in high vibration, corrosion situations
- **TO BE USED WITH AIR OR WATER ONLY.**





CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2” DIAL SIZE, LIQUID FILLED							
EILPG302-4L	Steel	0-30#	Pressure	2”	1/4” Lower	100	$ 8.62
EILPG602-4L	Steel	0-60#	Pressure	2”	1/4” Lower	100	8.62
EILPG602-4B	Steel	0-60#	Pressure	2”	1/4” Back	100	9.45
EILPG1002-4L	Steel	0-100#	Pressure	2”	1/4” Lower	100	8.62
EILPG1002-4B	Steel	0-100#	Pressure	2”	1/4” Back	100	9.45
EILPG1602-4L	Steel	0-160#	Pressure	2”	1/4” Lower	100	8.62
EILVG302-4L	Steel	0-30 Hg”	Vacuum	2"	1/4” Lower	100	10.36
EILPG302-4LSS	Stainless Steel	0-30#	Pressure	2”	1/4” Lower	100	13.69
EILPG602-4LSS	Stainless Steel	0-60#	Pressure	2”	1/4” Lower	100	13.69
EILPG602-4BSS	Stainless Steel	0-60#	Pressure	2”	1/4” Back	100	14.25
EILPG1002-4LSS	Stainless Steel	0-100#	Pressure	2”	1/4” Lower	100	13.69
EILVG302-4LSS	Stainless Steel	0-30 Hg”	Vacuum	2"	1/4” Lower	100	14.82
2 1/2” DIAL SIZE, LIQUID FILLED							
ILPG3025-4L	Stainless Steel	0-30#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG6025-4L	Stainless Steel	0-60#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG10025-4L	Stainless Steel	0-100#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG16025-4L	Stainless Steel	0-160#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG20025-4L	Stainless Steel	0-200#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG30025-4L	Stainless Steel	0-300#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG40025-4L	Stainless Steel	0-400#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILVG3025-4L	Stainless Steel	0-30 Hg”	Vacuum	2 1/2"	1/4 Lower	50	16.68
ILCG36025-4L	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4 Lower	50	17.29

Pressure Gauges - NO LEAD Liquid Filled



EILPG Series



ILPG Series

Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case.
- Glycerine filled, phosphor bronze bourdon tube.
- Accuracy +/- 3-2-3%.
- 2" or 2 1/2" Dial face with clear acrylic lens.
- Crimped stainless steel ring.
- For use in high vibration, corrosion situations.
- **Third party certified to NSF/ANSI 372.**
- No lead brass or stainless steel sockets.
- **TO BE USED WITH AIR OR WATER ONLY.**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, LIQUID FILLED							
EILPG302-4LNL	Steel	0-30#	Pressure	2"	1/4" Lower	100	$ 10.32
EILPG602-4LNL	Steel	0-60#	Pressure	2"	1/4" Lower	100	10.32
EILPG602-4BNL	Steel	0-60#	Pressure	2"	1/4" Back	100	11.48
EILPG1002-4LNL	Steel	0-100#	Pressure	2"	1/4" Lower	100	10.54
EILPG1002-4BNL	Steel	0-100#	Pressure	2"	1/4" Back	100	10.89
EILPG1002-8BNL	Steel	0-100#	Pressure	2"	1/8" Back	100	11.16
EILPG1602-4LNL	Steel	0-160#	Pressure	2"	1/4" Lower	100	10.32
EILPG2002-4LNL	Steel	0-200#	Pressure	2"	1/4" Lower	100	10.84
EILVG302-4LNL	Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100	12.25
EILVG302-4BNL	Steel	0-30 Hg"	Vacuum	2"	1/4" Back	100	13.18
EILPG302-4LSSNL	Stainless Steel	0-30#	Pressure	2"	1/4" Lower	100	15.56
EILPG602-4LSSNL	Stainless Steel	0-60#	Pressure	2"	1/4" Lower	100	15.56
EILPG602-4BSSNL	Stainless Steel	0-60#	Pressure	2"	1/4" Back	100	16.49
EILPG1002-4LSSNL	Stainless Steel	0-100#	Pressure	2"	1/4" Lower	100	15.56
EILPG1002-4LSS316*	Stainless Steel 316	0-100#	Pressure	2"	1/4" Lower	100	34.64
EILPG1002-4BSSNL	Stainless Steel	0-100#	Pressure	2"	1/4" Back	100	16.49
EILPG1002-4BSS316*	Stainless Steel 316	0-100#	Pressure	2"	1/4" Back	100	35.18
EILPG1602-4LSSNL	Stainless Steel	0-160#	Pressure	2"	1/4" Lower	100	15.56
EILPG2002-4LSSNL	Stainless Steel	0-200#	Pressure	2"	1/4" Lower	100	15.56
EILVG302-4LSSNL	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100	17.14
EILVG302-4BSSNL	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Back	100	18.07
* 316 Stainless steel internals and mount.							
2 1/2" DIAL SIZE, LIQUID FILLED							
ILPG3025-4LNL	Stainless Steel	0-30#	Pressure	2 1/2"	1/4 Lower	50	12.86
ILPG6025-4LNL	Stainless Steel	0-60#	Pressure	2 1/2"	1/4 Lower	50	12.86
ILPG10025-4LNL	Stainless Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50	**12.86**
ILPG16025-4LNL	Stainless Steel	0-160#	Pressure	2 1/2"	1/4 Lower	50	**12.86**
ILPG20025-4LNL	Stainless Steel	0-200#	Pressure	2 1/2"	1/4 Lower	50	**12.86**
ILPG30025-4LNL	Stainless Steel	0-300#	Pressure	2 1/2"	1/4 Lower	50	**12.86**
ILPG40025-4LNL	Stainless Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50	12.57
ILVG3025-4LNL	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50	18.60
ILVG3025-4BNL	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Back	50	19.53
ILCG36025-4LNL	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4 Lower	50	19.28

American Granby

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Pool Test Kit Features:

- For pressure testing pool systems
- Unassembled kits individually boxed
- Includes PVC Sch 40 Reducing Tee, PVC Sch 40 Reducing Bushing, Brass Boiler Drain, 3/4", 60# 2" plastic case pressure gauge, 1/4" lower brass mount.

Part Number	Description	Ctn Qty	List Price
TK150	1 1/2" Pool Test Kit	8	$ 37.02
TK200	2" Pool Test Kit	8	37.08



Pressure Air Test Gauge Features:

- Quick, easy means of pressurizing and monitoring plumbing systems for leakage.
- Attach to hose bibb.
- Includes brass hex manifold, air valve, 2" 200# gauge, garden hose thread fitting.

Part Number	Description	Ctn Qty	List Price
PATG200	Pressure Air Test Gauge	30	$ 29.72



PGBS



Pressure Gauge Brass Snubber Features:

- Use with any pressure gauge subjected to rapidly fluctuating pressures or sudden shock pressure.
- Brass housing with high strength sintered, porous type snubbing element.

Part Number	Size/Description	Ctn Qty	List Price
PGBS1/4	1/4" mpt x 1/4" fpt Brass Snubber	50/500	$ 8.47



PTG1002

Pressure Test Gauge Features:

- 0-100 psi, 2" plastic lens.
- Brass test fitting with pressure release button.
- Heavy rubber boot to protect gauge from damage.

Part Number	Size	Pressure Setting/Description	Ctn Qty	List Price
PTG1002	2" case	0-100# Pressure test gauge	50	$ 14.90



WTG





WTG MP

Water Test Gauge Features:

- Quick, easy method to test a wide range of pressure systems for leakage.
- 2 1/2" dial face, steel case pressure gauge w/ plastic lens.
- With standard 3/4" FGHT swivel garden hose connection with rubber washer.
- Attach to hose bibbs, boiler drains and lawn faucets for pressure testing.
- "MP" series MAX pointer arm measures maximum water surge or pressure drop.
- Individually cartoned.

Part Number	Size	Pressure Setting/Description	PSI dial increments	Ctn Qty	List Price
WTG100	2 1/2"	0-100# water test gauge, fght	1	50	$ 7.45
WTG200	2 1/2"	0-200# water test gauge, fght	2	50	10.42
WTG300	2 1/2"	0-300# water test gauge, fght	3	100	10.42
WTG100MP	2 1/2"	0-100# gauge with MAX pointer	1	50	11.14
WTG200MP	2 1/2"	0-200# gauge with MAX pointer	2	50	11.14
WTG300MP	2 1/2"	0-300# gauge with MAX pointer	3	50	11.14

Gas Test Gauges, Flowmeters


GTG

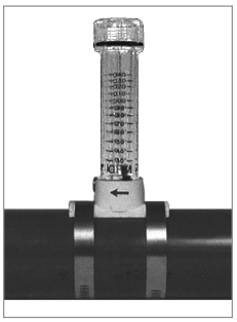

GTMAV


GTM3/4

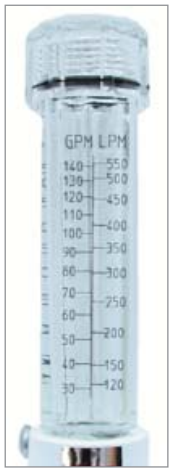
Gas Test Gauge Features:

- Quick, easy means of pressurizing & monitoring gas systems for leakage.
- Completely assembled - brass hex manifold, air valve with plastic cap and 2" dial face, steel case pressure gauge with plastic lens.
- Manifold also available separately: 3/4" fpt connection with 1/4" fpt gauge tap and 1/8" fpt air valve tap.
- Individually cartoned and available in 15, 30, 60 and 100 psi.

Part Number	Description	Gauge Increments	Ctn Qty	List Price
GTG15	Gas test gauge, 3/4" fpt, 0-15#	1/10 lb.	50	$ 18.42
GTG30	Gas test gauge, 3/4" fpt, 0-30#	1/2 lb.	50	18.42
GTG60	Gas test gauge, 3/4" fpt, 0-60#	1/10 lb.	50	18.42
GTG100	Gas test gauge, 3/4" fpt, 0-100#	1 lb.	50	18.42
GTM3/4	Brass Gas test manifold only		100	9.60


U88 Series

NO LEAD ✓ LEAD-FREE



Flow Meter Features:

Pulsafeeder

ISO 9002

- Economical, easy to install, easy to maintain.
- Calibrated in GPM/LPM with easy-to-read numbering.
- Available 1"- 4" pipe size.
- Durable acrylic construction.
- Supplied with 2 clamps and rubber gasket seal.
- Maximum temperature limit = 120°F, Maximum pressure limit = 120 psi.

Part Number	Nominal Pipe Size	Range GPM/LPM	List Price
U8800424	1"	5-35 / 20-130	$ 184.69
U8800439	1 1/2"	20-80 / 80-300	184.69
U8800440	2"	30-140 / 120-550	184.69
U8800441	2 1/2"	40-200 / 160-750	184.69
U8800442	3"	80-350 / 300-1300	184.69
U8800443	4"	150-600 / 600-2200	184.69

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PV1450 Series



PV1452, PV1453 Series

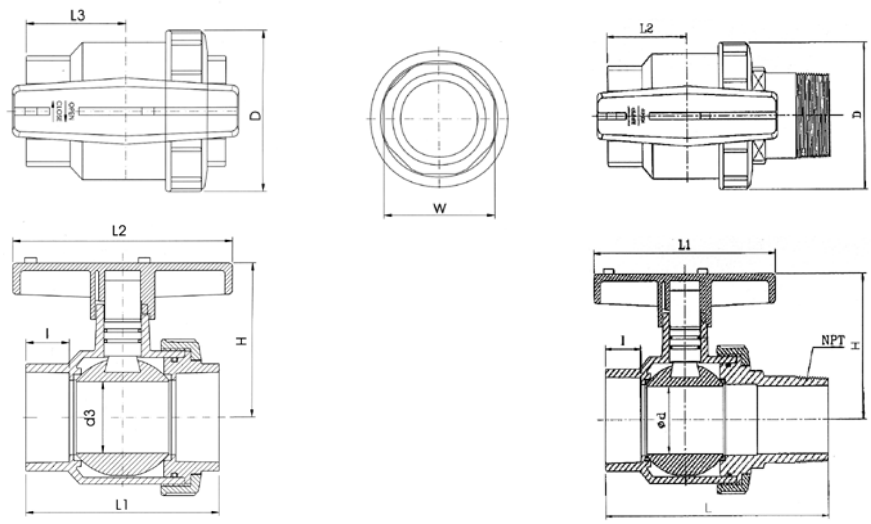
ISO 9002

NO LEAD
LEAD-FREE

PVC Single Union Ball Valve Features:

- PVC Type 1 construction for compatibility in joining rigid PVC and flex vinyl pipes.
- **PTFE seats.**
- **Double EPDM o-ring seal on stem: single EPDM o-ring seal on union end.**
- Fully round ball prevents foreign matter from scoring seats.
- Tee handle for quarter turn on/off with stops.
- Working pressure: 150 PSI at 72ºF, 100 PSI at 120ºF.
- Threaded or socket.
- Manufactured for AGI in an ISO 9002 facility.
- Imported

MATERIAL SPECIFICATIONS	
Body	PVC
End Adapter	PVC
Union Nut	PVC
Ball	PVC
Stem	PVC
Handle	ABS
Union o-rings	EPDM
Seat Seals	PTFE
Stem o-rings	EPDM



PV1450 Series DIMENSIONS (IN.)

SIZE	d3	D	L1	L2	L3	H	W	I
1 1/2"	1.50	3.42	4.49	4.72	2.21	3.32	2.34	1.09
2"	1.88	4.10	5.07	5.74	2.53	4.07	2.73	1.15

PV1452 Series DIMENSIONS (IN.)

SIZE	d	D	L	L1	L2	H	W	I
1 1/2"	1.50	3.42	6.55	4.72	2.21	3.32	2.34	1.09
2"	1.87	4.10	7.02	5.73	2.52	4.07	2.73	1.15

Part Number	Threaded/Slip	Size	Ctn Qty	List Price
PV1450-11/2	Slip	1-1/2"	48	$ **27.09**
PV1450-2	Slip	2"	24	**35.86**
PV1451-11/2	Threaded	1-1/2"	48	**27.09**
PV1451-2	Threaded	2"	24	**35.86**
PV1452-11/2	Slip x Extended MIP	1 1/2"	24	**26.84**
PV1452-2	Slip x Extended MIP	2"	24	**36.89**
PV1453-11/2	FPT x Extended MIP	1 1/2"	24	**26.84**
PV1453-2	FPT x Extended MIP	2"	12	**26.89**



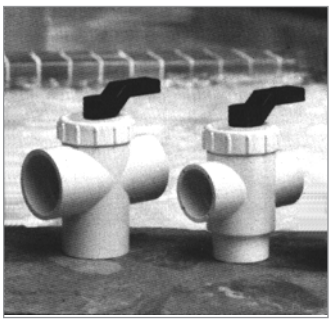
1350 Series

NO LEAD ✓ LEAD-FREE

PVC Single Union Ball Valve Features:

- PVC Type 1 construction for compatibility in joining rigid PVC and flex vinyl pipes.
- **Buna "N" O-Ring seal; HDPE seats.**
- 1-1/4 deep sockets on both ends for extra cementing surface area.
- Tee handle for quarter turn on/off with stops.
- Working pressure: 150 PSI at 72ºF.
- Threaded or socket.

Part Number	Threaded/Socket	Size	Ctn Qty	List Price
1350-15	Socket	1-1/2"	12	$ 39.97
1350-20	Socket	2"	6	64.50



1930 Series



CPVC Three-Way Valve Features:

- For pool & spa applications.
- Made of CPVC plastic
- Diverts water anywhere diversion is required.
- Positive seal diverter prevents reverse flow.
- Diverter seals are made of a special lubricated EPDM material
- Available 1 1/2" - 2" slip with 2" and 2 1/2" spigot.
- Rated at 125 PSI static pressure @ 160°F.

Part Number	Description	Body Length	Ctn Qty	List Price
1930-15	1 1/2" slip x 2" spigot	7"	12	$ 100.56

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Ball Valves - Economy PVC Molded-in-Place

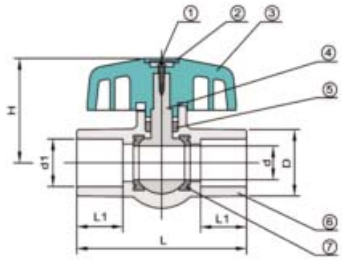


LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Economy Series PVC Molded-In-Place Ball Valve Features:

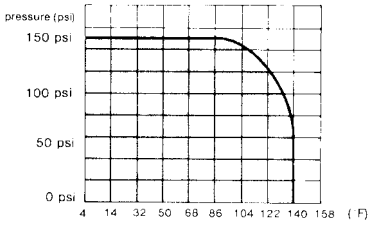
- Heavy duty thermoplastic white PVC (Type 1, Grade 1) construction.
- White body, blue handle.
- **Tee** handle on 1/2" through 2". **Lever** handle on 2 1/2", 3" and 4".
- EPDM seats provide excellent chemical resistance.
- EPDM "o" ring stem seal.
- 150 PSI working pressure at 73ºF water, non-shock.
- Maintenance free compact design.
- Severe shock loads and misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Imported.



EMIP TE/SE Series
IPS DIMENSIONS (IN.)

SIZE	d	d1	D	L1	L	H
1/2"	0.591	.0839	1.24	0.80	2.9	1.78
3/4"	0.792	1.051	1.45	0.89	3.4	2.01
1"	0.981	1.315	1.77	1.08	4.0	2.26
1 1/4"	1.262	1.661	2.07	1.06	4.3	2.66
1 1/2"	1.421	1.902	2.49	1.14	4.8	2.91
2"	1.832	2.374	3.01	1.42	5.7	3.32
2 1/2"	2.492	2.874	3.54	1.80	7.2	4.07
3"	3.153	3.5	4.25	2.4	9.3	4.47
4"	3.821	4.5	5.21	2.52	10.1	4.89

Relations Between Temperature and Pressure



MATERIAL SPECIFICATIONS

1	Screw	Zinc Plated Steel
2	Cap	ABS
3	Handle	ABS
4	Ball	PVC
5	Stem Seal o-ring	EPDM
6	Body	PVC
7	Seat Seal	EPDM

CV ($GPM/(1\ lbf/in^2)^{1/2}$) Opening Rate: 90"	
SIZE	CV
1/2"	14.5
3/4"	29.5
1"	48.0
1 1/4"	71.0
1 1/2"	135.0
2"	180.0
2 1/2"	225.0
3"	400.0
4"	865.9

Threaded Part Number	Slip Part Number	Size	Master Case Qty	List Price
EMIP50TE	EMIP50SE	1/2"	210	$ **2.12**
EMIP75TE	EMIP75SE	3/4"	137	**2.86**
EMIP100TE	EMIP100SE	1"	95	**4.54**
EMIP125TE	EMIP125SE	1 1/4"	56	**6.21**
EMIP150TE	EMIP150SE	1 1/2"	36	**8.49**
EMIP200TE	EMIP200SE	2"	24	**13.61**
EIMP250TE	EMIP250SE	2 1/2"	9	**36.83**
EMIP300TE	EMIP300SE	3"	8	**56.64**
EMIP400TE	EMIP400SE	4"	6	**104.66**

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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Ball Valves - PVC Sch 80 Molded-in-Place



ISO 9002

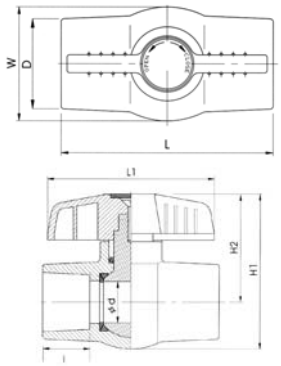
MATERIAL SPECIFICATIONS	
Body	PVC
Seat Seal	EPDM, PTFE
Ball	PVC
Stem Seal o-ring	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS

SCH 80 Series PVC Molded-In-Place Ball Valve Features:

- Heavy duty thermoplastic white PVC (Type 1, Grade 1) construction. Materials meet NSF standards.
- Meets ASTM 2467 Schedule 80.
- White body, red handle.
- Available with PTFE or EPDM seats providing excellent chemical resistance.
- EPDM “o” ring stem seal
- **150 PSI** working pressure at 73ºF water, non-shock.
- Maintenance free compact design.
- Severe shock loads and misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Manufactured for AGI in an ISO 9002 facility.
- **Third party certified to NSF/ANSI 372.**

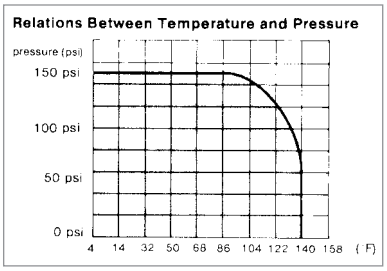
NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



HMIP TE/SE and T/S Series
IPS DIMENSIONS (IN.)

SIZE	d	D	L	L1	l	H1	H2	W
1/2”	.55	1.17	3.24	2.73	.87	2.42	1.68	1.48
3/4”	.78	1.48	3.71	3.43	1.00	3.04	2.11	1.67
1”	.98	1.76	4.13	3.90	1.12	3.63	2.54	2.22
1 1/4”	1.17	2.11	4.45	3.90	1.25	3.82	2.61	2.46
1 1/2”	1.40	2.42	5.07	4.25	1.37	4.49	3.04	2.93
2”	1.82	3.00	5.74	5.23	1.50	5.27	3.47	3.59
2 1/2”	2.34	3.59	7.96	6.94	1.75	6.24	4.10	4.29
3”	3.00	4.13	8.93	8.74	1.88	7.41	4.84	5.19
4”	3.94	5.27	11.70	10.76	2.25	9.09	5.77	6.63



CV (GPM/(1 lbf/in²)^1/2) Opening Rate: 90”	
SIZE	CV
1/2”	8.84
1”	25.24
1 1/4”	38.53
1 1/2”	51.28
2”	96.67
2 1/2”	162.37
3”	438.81
4”	865.90
CMIP-C Series excluded	

WITH EPDM SEATS NSF

Threaded Part Number	Slip Part Number	Size	Ctn Qty	List Price
HMIP50TE	HMIP50SE	1/2”	100	$ **5.21**
HMIP75TE	HMIP75SE	3/4”	100	**6.70**
HMIP100TE	HMIP100SE	1”	100	**9.22**
HMIP125TE	HMIP125SE	1 1/4”	100	**13.01**
HMIP150TE	HMIP150SE	1 1/2”	48	**21.08**
HMIP200TE	HMIP200SE	2”	24	**27.89**
HIMP250TE	HMIP250SE	2 1/2”	12	60.30
HMIP300TE	HMIP300SE	3”	12	104.49
HMIP400TE	HMIP400SE	4”	6	188.22

WITH PTFE SEATS NSF

Threaded Part Number	Slip Part Number	Size	Ctn Qty	List Price
HMIP50T	HMIP50S	1/2”	100	$ 9.39
HMIP75T	HMIP75S	3/4”	100	12.61
HMIP100T	HMIP100S	1”	100	12.76
HMIP125T	HMIP125S	1 1/4”	100	20.22
HMIP150T	HMIP150S	1 1/2”	48	25.82
HMIP200T	HMIP200S	2”	24	35.21

Ball Valves - CPVC Sch 80 Molded-in-Place



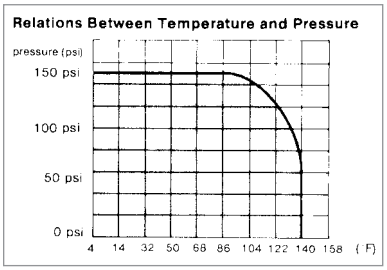
ISO 9002

MATERIAL SPECIFICATIONS	
Body	CPVC
Seat Seal	PTFE
Ball	CPVC
Stem Seal	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS

FLOWGUARD GOLD PIPE & FITTINGS

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

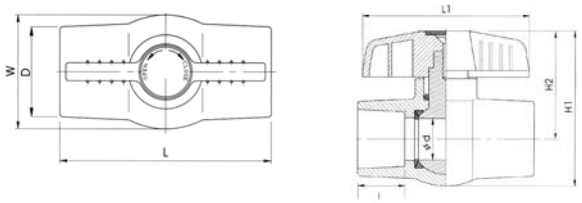
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



CV (GPM/(1 lbf/in^2)$^{1/2}$) Opening Rate: 90"	
SIZE	CV
1/2"	14.5
3/4"	29.5
1"	48.0

SCH 80 Series CPVC Molded-in-Place Ball Valve Features:

- Made with **Flo Guard Gold CPVC** material.
- Heavy duty thermoplastic CPVC construction for hot water use.
- NSF listed.
- Meets ASTM 2467 Schedule 80.
- CTS slip x slip - cream body, orange handle.
- PTFE seats providing excellent chemical resistance.
- EPDM O-Ring stem seal.
- Working pressure 75 PSI at 180°F.
- Maintenance free compact design.
- Severe shock loads & misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Manufactured for AGI in an ISO 9002 facility.
- **Third party certified to NSF/ANSI 372.**



CMIP "C" Series CTS DIMENSIONS (IN.)

SIZE	d	D	L	L1	I	H1	H2	W
1/2"	.47	.94	2.65	2.34	.50	1.91	1.33	1.21
3/4"	.55	1.17	3.24	2.73	.87	2.42	1.68	1.48
1"	.78	1.48	3.71	3.43	.90	3.04	2.11	1.91

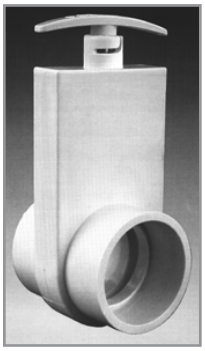
Part Number	Description	Ctn Qty	List Price
CPVC Ball Valve, Copper Tube Size, SLIP X SLIP			
CMIP50C	1/2" SLIP X SLIP	100	$ 8.47
CMIP75C	3/4" slip x slip	100	9.53
CMIP100C	1" slip x slip	100	14.83

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VSGV Uni-Body



VSGV 3 piece body



VSGV 3 piece body with union

PVC Slice Gate Valve Features:

- Designed for pool & spa, irrigation, plumbing, waste water and agricultural applications.
- Stainless steel shaft prevent rust and corrosion.
- Ozone & chemical resistant Santoprene™ materials.
- Santoprene™ seals are integrated to the paddle to eliminate any chance of torn or punctured gaskets.
- Maximun working pressure 50 psi (through 2").
- Solvent cement traps to catch excess glue.
- Every valve tested at double recommended working pressure.
- Valterra's patent pending triple o-ring neck seal to ensure against any chance of shaft leakage.

Unibody Design

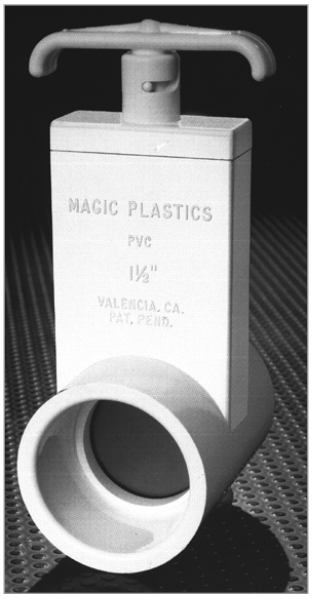
- One piece uni-body design.
- Combination socket ID x spigot OD for installation flexibility.
- Locking handle provides positive shutt-off and easy gate opening.

3 Piece body

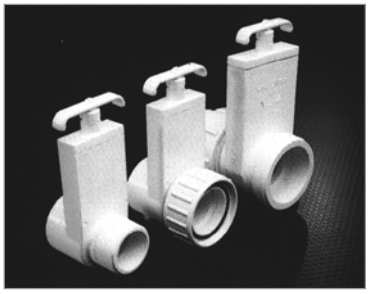
- Three piece configuration allows for repair or can be used as a union.
- Three piece configuration easily disassembles for inline service.

Part Number	Description	Max PSI	Ctn Qty	List Price
Uni-Body				
VSGV2101	1 1/2" slip x slip	45	30	$ 18.70
VSGV2201	2" slip x slip	40	20	26.64
*** Unibody 2" slip hubs are 2" slip or 2 1/2" spig**				
Three Piece Body				
VSGV150SL	1 1/2" slip x slip	45	30	19.57
VSGV150FIPTXMIPT	1 1/2" fipt x mipt	45	40	25.32
VSGV150SLU	1 1/2" slip x union slip	45	38	31.93
VSGV150MTU	1 1/2" mipt x union slip	45	38	33.09
VSGV150SP	1 1/2" slip x spigot	45	30	23.98
VSGV150SD	1 1/2" step down pool hose x mipt ABS		40	23.36
VSGV200SL	2" slip x slip	40	20	28.29
VSGV200SP	2" slip x spigot	40	34	28.29
VSGV300SL	3" slip x slip	30	15	39.32
VSGV400SL	4" slip x slip w/ metal handle	20	6	167.22
VSGV600SL	6" slip x slip w/ stainless handle	10	1	696.67
VSGV800SL	8" slip x slip w/ stainless handle	10	1	975.45
VSGV1000SL	10" slip x slip w/ stainless handle	10	1	1778.33
VSGV1200SL	12" slip x slip w/ stainless handle	10	1	1868.19

Slice Gate Valves - PVC



SGV - SL Series



SGV-Sp and SGV-SLU Series

PVC Slice Gate Valve

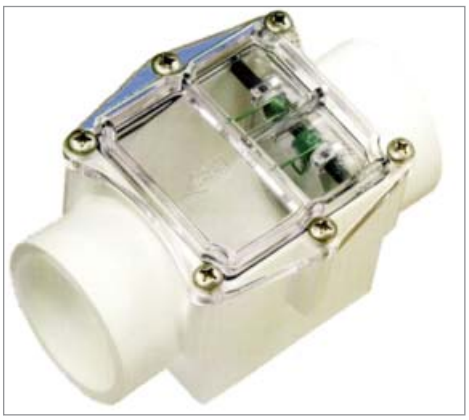
- One piece "Uni-Body" PVC Construction. Guaranteed NO HUB LEAKS or loose bolts.
- 1/4 turn "Cam-Lock" for 100% shut-off..
- Internal "snap-lock" feature ensures valve will remain totally open, providing 100% flow with no restriction.
- Stainless steel shaft prevents rust and corrosion.
- Glass filled poly-pro tapered gate design for 100% sealing.
- Integrally molded seal on gate. - No pinched or torn gaskets.
- Seals are "Santoprene" that have been impregnated with a permanent lubricant. Never needs lube yet will provide continuous smooth operation. Ozone and chemical resistant for much longer life.
- Santoprene buttons on gate provides smooth operation without sticking.
- Every valve water tested at 100PSI and random quick burst tested at 400 PSI. Virtually no chance of leaky valves in the field at standard operating pressures.
- Maximum recommended operating pressure is 50 PSI.
- Glue wells on all slip-socket configuration catches excess glue during plumbing.
- Constructed and tested for use in pool & spa applications.
- Made in USA

Part Number	Size	Description	Ctn/Case Qty	List Price
SGV150SL	1 1/2"	Slip x Slip	14/56	$ 22.87
SGV200SL	2"	Slip x Slip	12/48	24.18
SGV250SL	2 1/2"	Slip x Slip	5/20	51.29
SGV150SP	1 1/2"	Slip x Spigot	14/56	21.50
SGV200SP	2"	Slip x Spigot	12/48	24.18
SGV150SLU	1 1/2"	Slip x Slip with Union	10/40	37.01
SGV200SLU	2"	Slip x Slip with Union	10/40	44.86

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

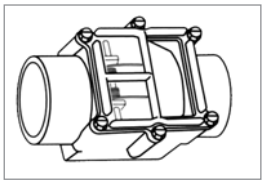
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



MCRV Series

"CR" Full Flow Corrosion Resistant Check Valve Features:

- Protects heat exchangers from potential damage by inline chlorinators.
- Maintains full flow circulation system.
- Propriatary designed Hastelloy spring.
- Glass filled Noryl injection molded shaft.
- 100% silicone gasket never requires lubrication.
- Clear sight glass. Removable, servicable.
- 3 IPS sizes in one valve. 1 1/2" slip with bushing, 2" slip and 2 1/2" spigot. (1 1/2" bushing sold separately.)
- Spring loaded flapper/gate mechanism assures full flow and minimum cavatation.
- Positive water seal when in the closed position.
- "CR" valve can be installed in virtually any position.
- Use in highly corrosive conditions and conditions needing backflow prevention.

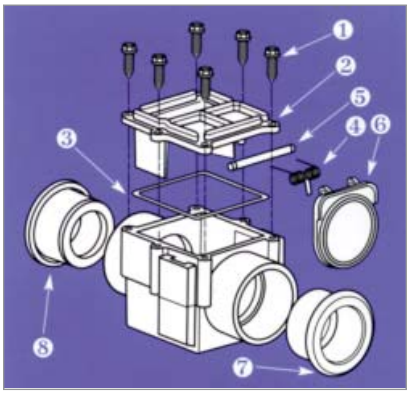


MCRV Series

Part Number	Description	Size	Ctn Qty	List Price
MCRV801-20H	PVC CR Swing Check Valve	2" Slip x Slip	12	$ **98.37**
60104028	CR Swing Check Bushing	2" Sp x 1 1/2" Slip	1	**4.24**



Bushing



CR VALVE REPLACEMENT PARTS

ID	Part Number	Description	Ctn Qty	List Price
1	M04030066	#14 x 1" Phillips Pan Head SS Screw	6	$ 14.27
2	M0191401020	Lid	1	**19.25**
3	0301-154	O-Ring	1	**6.37**
4	M0405001	Spring	1	6.75
4	0405-001-H	Hastelloy Spring	1	**31.06**
5	M0401005P	Shaft	1	7.45
6	M0081201020	Gate Assembly	1	26.60
7	M0060504028	Adapter 2" sp x 1 1/2" Slip, Black	1	4.37
8	M0060104028	Adapter, 2" sp x 1 1/2" Slip, White	1	4.20

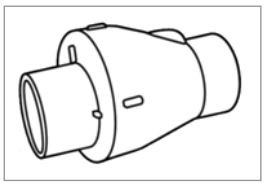
Check Valves - PVC Swing



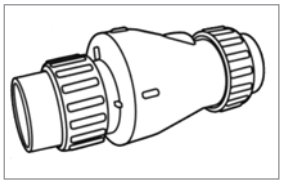
MCV Series

"Smart" Swing Check Valve Features:

- Patented innovation in swing check valve technology eliminates in-line flow restriction of conventional check valves.
- Spring loaded swing check flapper/gate allows full flow and reliable back flow prevention.
- Standard "smart" check valve remains closed to 1/2 psi, then open for full flow.
- Magnetic "smart" check valves remain closed to 2 psi, then open for full flow.



MCV821 Series



MCV823 Series



MCV850 Series

Part Number	Size	Description	Spring Tension	Ctn Qty	List Price
MCV821-10	1"	Slip x Slip	1/2 lb.	12	$ 24.54
MCV821-10C	1"	Slip x Slip CLEAR	1/2 lb.	12	27.97
MCV821-15	1 1/2"	Slip x Slip	1/2 lb.	12	37.00
MCV821-15C	1 1/2"	Slip x Slip CLEAR	1/2 lb.	12	40.79
MCV821-20	2"	Slip x Slip	1/2 lb.	12	43.50
MCV821-20C	2"	Slip x Slip CLEAR	1/2 lb.	12	46.91
MCV821-20M	2"	Slip x Slip w/magnet	2 lb.	12	47.49
MCV821-20MC	2"	Slip x Slip w/magnet CLEAR	2 lb.	12	50.67
MCV823-10	1"	Union x Union	1/2 lb.	12	37.00
MCV823-10C	1"	Union x Union CLEAR	1/2 lb.	12	40.79
MCV823-15	1 1/2"	Union x Union	1/2 lb.	12	42.13
MCV823-15C	1 1/2"	Union x Union CLEAR	1/2 lb.	12	62.36
MCV823-20	2"	Union x Union	1/2 lb.	12	56.10
MCV823-20C	2"	Union x Union CLEAR	1/2 lb.	12	66.42
MCV823-20M	2"	Union x Union w/magnet	2 lb.	12	66.42
MCV823-20MC	2"	Union x Union w/magnet CLEAR	2 lb.	12	70.80
MCV850-15	1 1/2"	Check/Slice Combo Union x Slip		12	64.48
MCV850-20	2"	Check/Slice Combo Union x Slip		12	93.63

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

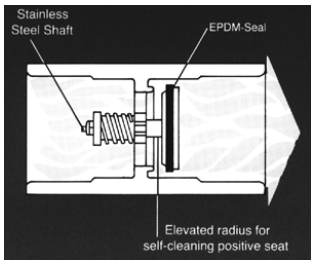
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



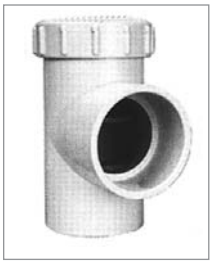
1095 Series

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

PVC In-Line By-Pass Check Valve Features:



- In-line shape takes less space.
- Raised valve seat prevents excess cement of solvent from affecting the seal area.
- Poppet is equipped with non-adjustable EPDM seal.
- Body is made of Type 1 PVC.
- All metal parts are stainless steel.
- Valve stem is reinforced w/ full length stainless steel shaft.
- Static pressure tested: 200 psi @ 72°F. Back pressure tested at 150 psi.
- Quick burst test proves in excess of 500 psi
- 2" iron pipe size
- Valve can be used on 1-1 1/2" pipe by use of a PVC Sch 40 bushing.
- Begins to open 5 lbs - Fully open 17 lbs.
- NSF/ANSI 61+372.



1901/1903 Series

CPVC 90° Spring Check Valve Features:

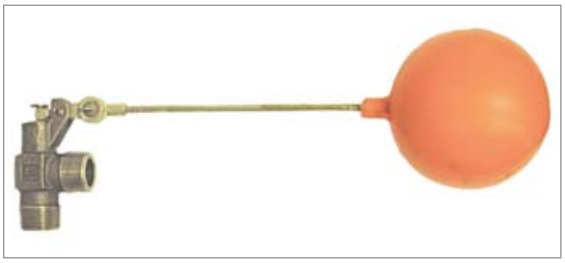


- Use in pool, spa applications.
- CPVC body with corrosion proof poppet.
- Spring made of 302 stainless.
- Available with 1 lb. or 3 lb. spring tension.
- Rated at 125 PSI static pressure @ 160°F

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC In Line By-Pass Check Valve				
1095-20	2" w/ 5# spring	5"	12	**43.85**
CPVC 90° Spring Check Valve, w/ stainless steel poppet				
1901-15	1 1/2" check valve, 1 lb. tension		12	**112.05**
1903-15	1 1/2" check valve, 3 lb. tension		12	**112.05**
1901-20	2" socket x 2 1/2" spigot valve, 1 lb. tension		12	**112.05**
1903-20	1" socket x 2 1/2" spigot valve, 3 lb. tension		12	**112.05**

See "FLO/NDS" tab for a complete line of Flo Control PVC check valves.

Float Valves - Bronze, NO LEAD Bronze



Bronze, NO LEAD Bronze Float Valve Features:

- Cast bronze or NO LEAD bronze body
- Buna-N Disc
- Heavy Duty
- Tapped for 1/4-20SAE rod
- Threaded outlet
- Rated at 125 psi
- **Third party certified to NSF/ANSI 372.**



BFV Series

Part Number	Size	Inlet	Outlet	Tapped	Ctn Qty	List Price
BFVNL1/2	1/2"	1/2" mpt	1/2" mpt	1/4"-20SAE	10/100	$ 42.69
BFVNL3/4	3/4"	3/4" mpt	3/4" mpt	1/4"-20SAE	10/80	**45.92**
BFVNL1	1"	1" mpt	1" mpt	1/4"-20SAE	10/40	**72.29**



BFVR Series

Stainless Steel Rods Features:

- Stainless Steel SAE
- Male thread both ends
- **Third party certified to NSF/ANSI 372.**

Part Number	Length	Thread	Fits Valve Size	Ctn Qty	List Price
BFVR8	8"	1/4"-20SAE	1/2" - 1"	50/400	$ 6.62
BFVR10	10"	1/4"-20SAE	1/2" - 1"	50/300	7.67
BFVR12	12"	1/4"-20SAE	1/2" - 1"	50/300	8.59



BFVFP Series

Plastic Float Features:

- PVC, Corrosion resistant.
- Lightweight
- Up to 175°F
- For open tank service only
- Bronze or NO LEAD bronze threaded connection.
- **Third party certified to NSF/ANSI 372.**

Part Number	Float Diam.	Buoyancy	Female Connection	Ctn Qty	List Price
BFVFPNL5	5"	2.17 lbs.	1/4"-20SAE	100	$ 21.23
BFVFPNL6	6"	3.8 lbs.	1/4"-20SAE	100	25.00
BFVFPNL8	8"	9.87 lbs.	1/4"-20SAE	20	31.08



HBFV Series



HFBV GEAR Series

* NO LEAD ✓ LEAD-FREE

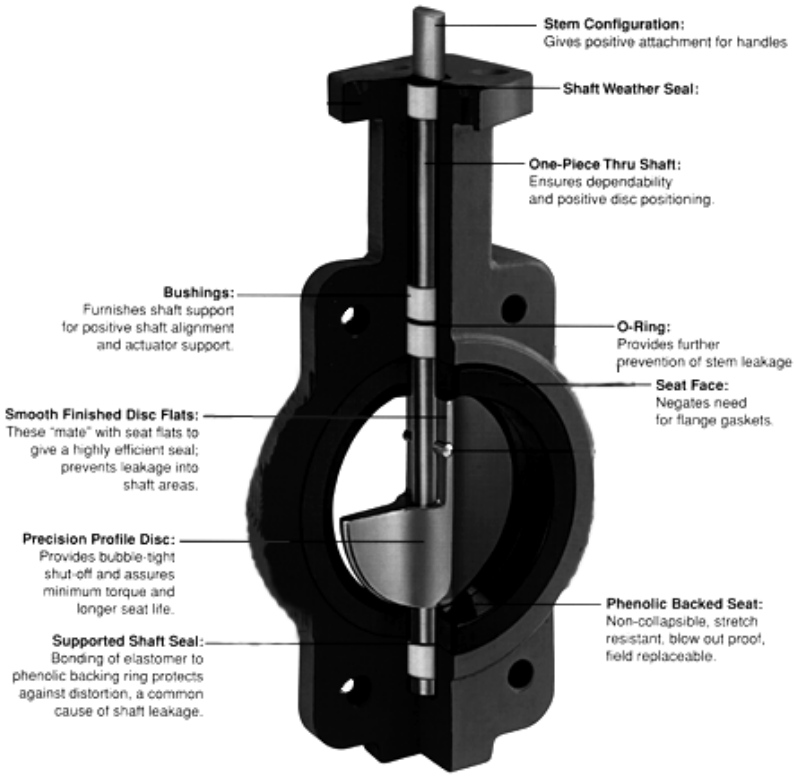
Ductile Iron Butterfly Valve Features:

- Designed for swimming pool, irrigation and water systems.
- Wafer body features 4 alignment holes.
- Lever lock handle (spring loaded) provides excellent manual control for balancing or shut off services.
- Notched throttling plate allows balancing in 10° increments in any position desired within 90° arc rotation of the disc.
- Positive bubble-tight shutoff with minimum torque.
- Seat face eliminates need for flange gaskets.
- Phenolic backed seats prevent collapse, are stretch resistant, blowout proof and field replacable.
- **EPDM seats** temperature rated at -30°F to 275°F.
- 420 stainless steel shaft
- Bidirectional dead-end capability for 250 psi (2" - 12").
- Compatible with ANSI 125/150 flanges.
- Designed to comply with MSS SP-67 and API 609.
- **Ductile iron, ENP plated** disc.
- Imported

Part No.	Size	Weight(lbs)	Ctn Qty	List Price
Ductile Iron ENP Plated Disc*				
HBFV2	2"	7	1	$ 101.94
HBFV21/2	2-1/2"	8	1	119.68
HBFV3	3"	10	1	128.54
HBFV4	4"	12	1	190.60
HBFV5	5"	15.5	1	234.91
HBFV6	6"	17.5	1	283.67
HBFV8	8"	33	1	452.11
HBFV10	10"	50	1	485.53
HBFV12	12"	74	1	732.14
Ductile Iron ENP Plated Disc - GEAR DRIVE *				
HBFV6-GEAR	6"	28.5	1	393.01
HBFV8 GEAR	8"	54	1	632.95

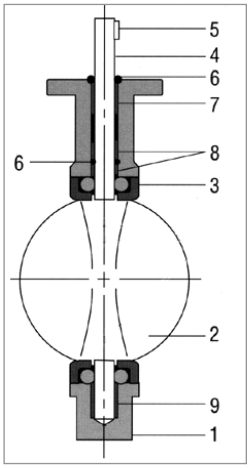
Flanges & Bolt kits available,
see page P.28

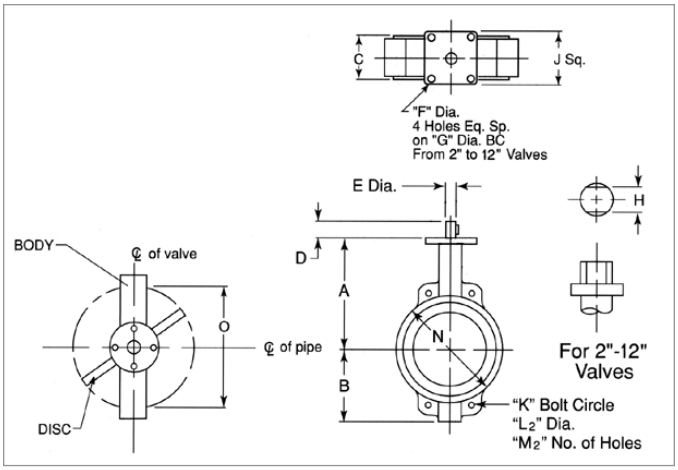
Butterfly Valves - Cast Iron



MATERIAL SPECIFICATIONS

No.	Part	Material
1	Body	dUCTILE Iron
2	Disc	Ductile Iron
3	Seat	EPDM
4	Shaft	420 Stainless Steel
5	Key	Carbon Steel
6	O-ring	EPDM
7-9	Bushing	Nylon





SIZE \ DIMENSION (in) for HBFV Series

	A	B	C	D	E	F	G	H	J	K	L2	M2	N	O
2"	5.51	2.44	1.64	1.26	.50	.375	2.76	.39	2.75	4.75	.75	4	4.75	2.12
2 1/2"	6.02	2.76	1.75	1.26	.50	.375	2.76	.39	2.75	5.5	.75	4	5.50	2.57
3"	6.26	2.89	1.75	1.26	.50	.375	2.76	.39	2.75	6.0	.75	4	6.00	3.14
4"	7.01	4.49	2.00	1.26	.625	.375	2.76	.47	2.75	7.50	.75	4	7.50	4.13
5"	7.50	4.79	2.13	1.26	.75	.375	2.76	.55	2.75	8.50	.87	4	8.50	5.12
6"	8.01	5.55	2.12	1.26	.75	.375	2.76	.55	2.75	9.50	.87	4	9.50	6.13
8"	9.50	6.85	2.50	1.26	.875	.438	4.02	.67	3.75	11.75	.87	4	11.75	8.15
10"	10.75	8.19	2.50	1.58	1.125	.438	4.02	.87	3.75	14.25	1.00	4	14.29	9.98
12"	12.25	9.53	2.99	1.58	1.125	.438	4.02	.95	3.75	17.00	1.00	4	17.00	11.89

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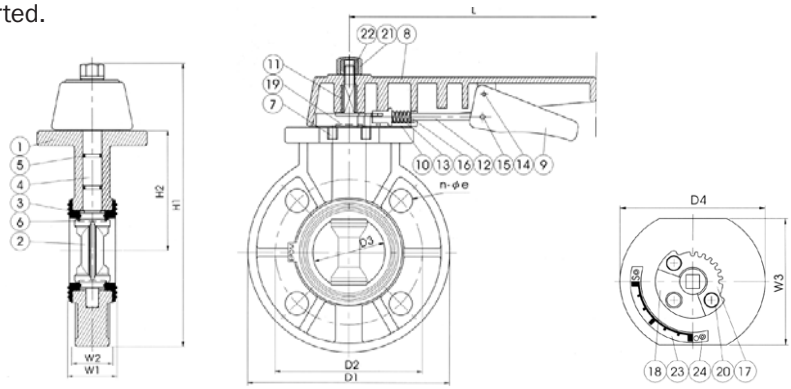
PBFV Series

ISO 9002

NO LEAD LEAD-FREE

PVC Sch 80 Butterfly Valves Features:

- 150 PSI working pressure.
- PVC body, polypropylene disc, and EPDM seat and o-ring.
- Flanged end design.
- Corrosion resistant.
- Excellent flow characteristics.
- Ideally suited for flow control in a minimum piping space.
- Clear indication of disc opening degree.
- Built in seat requires no additional gaskets between flanges.
- Manufactured for AGI in an ISO 9002 facility.
- Imported.



MATERIAL SPECIFICATIONS

No.	Part	Material	Qty
1	Body	PVC	1
2	Disc	PP	1
3	Seat Seal	EPDM	1
4	Stem	SS 410	1
5	O-ring	EPDM	2
6	O-ring	EPDM	2
7	Inserted Nut	SS 41	3
8	Large Handle	ABS	1
9	Small Handle	ABS	1
10	Spring Lock	ABS	1
11	Handle Insert	SS	1
12	Handle Lever	SS 304	1
13	Spring	SS 304	1
14	Spring Pin	SS 304	1
15	Spring Pin	SS 304	1
16	Washer	SS 304	1
17	Locking Plate	SS 304	1
18	Gear Seat	PP + GF	1
19	Washer	SS 304	1
20	Bolt	SS 304	3
21	Nut	PVC	1
22	Insert Nut	C3604	1
23	Level	SS 304	1
24	Rivet	SS	2

CV ($GPM/(1\ lbf/in^2)^{1/2}$) Opening Rate: 90”	
SIZE	CV
2”	100.87
2 1/2”	137.82
3”	224.08
4”	409.51
5”	523.92
6”	1243.00

DIMENSIONS \ SIZE (in)

	2”	2 1/2”	3”	4”	5”	6”	8”
D1	6.44	7.22	7.80	8.93	9.98	11.12	13.38
D2	4.70	5.44	5.94	7.43	8.42	9.42	11.64
D3	2.20	2.71	3.10	4.01	5.11	6.02	7.91
D4	4.13	4.66	4.84	5.26	6.40	6.64	7.84
L	7.92	7.92	7.92	9.91	11.86	11.86	11.86
H1	9.59	10.37	10.76	12.40	15.21	15.80	18.17
H2	4.02	4.41	4.49	5.27	5.85	6.90	8.19
W1	1.67	1.85	1.85	2.23	2.57	2.88	3.41
W2	1.35	1.45	1.45	1.83	2.22	2.53	3.06
W3	3.67	3.67	3.66	3.89	4.31	3.93	4.76
n-oe	.741	.741	.741	.741	.858	.858	.858

Part Number	Description	Ctn Qty	List Price
PBFV2	2” PVC Butterfly valve	4	$ 246.11
PBFV21/2	2 1/2” PVC Butterfly valve	4	252.11
PBFV3	3” PVC Butterfly valve	4	248.47
PBFV4	4” PVC Butterfly valve	4	283.14
PBFV5	5” PVC Butterfly valve	4	404.37
PBFV6	6” PVC Butterfly valve	4	464.61
PBFV8	8” PVC Butterfly valve	1	684.31
Replacement handles			
PBFV2 HANDLE	2” PVC valve handle	1	27.87
PBFV21/2 HANDLE	2 1/2” PVC valve handle	1	27.87
PBFV3 HANDLE	3” PVC valve handle	1	27.87
PBFV4 HANDLE	4” PVC valve handle	1	34.47
PBFV5 HANDLE	5” PVC valve handle	1	46.29
PBFV6 HANDLE	6” PVC valve handle	1	46.78
PBFV8 HANDLE	8” PVC valve handle	1	46.78

Flanges, Bolt Kits, Gaskets



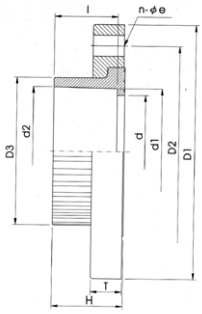
PF Series

ISO 9002

NO LEAD LEAD-FREE

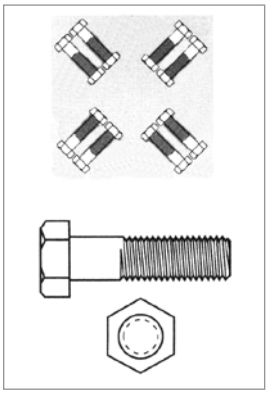
PVC Sch 80 Van Stone Flange Features:

- Two-piece van stone socket style.
- Class 150, Schedule 80
- Improve the security and safety of connections between pipes, valves & fittings.
- Imported - Manufactured for AGI in an ISO 9002 facility.



DIMENSIONS \ SIZE (in)	2"	3"	4"	6"	8"	10"	12"
D1	5.93	7.49	8.93	11.08	13.38	15.83	18.76
D2	4.72	5.93	7.45	9.40	11.62	14.12	16.85
D3	2.96	4.21	5.19	7.45	9.28	12.09	14.20
d	1.99	3.00	3.98	6.08	7.96	9.98	11.97
d1	2.35	3.46	4.45	6.55	8.53	10.64	12.62
d2	2.37	3.48	4.48	6.59	8.57	10.68	12.67
H	1.68	2.11	2.50	3.32	4.60	5.85	7.45
T	.78	1.01	1.09	1.25	1.40	1.64	1.64
l	1.49	1.86	2.23	2.97	3.98	4.80	6.44
n-oe	.741	.741	.741	.858	.858	.936	.975

Part Number	Description	Ctn Qty	List Price
PF2	2" Flange	60	$ 13.23
PF21/2	2 1/2" Flange	36	21.73
PF3	3" Flange	30	21.86
PF4	4" Flange	20	29.25
PF6	6" Flange	10	47.16
PF8	8" Flange	4	76.27
PF10	10" Flange	2	101.93
PF12	12" Flange	2	120.92



BBK Series

Bolt Kit Features:

- For use with cast iron & PVC butterfly valves. BF8200, HBFV and PBFV Series
- ASTM-A307 grade black steel bolts and A563 finished nuts.
- Washers and Gaskets NOT included- Available upon request.

Part Number	Valve Size	Bolt Size	Bolts/Kit	Ctn Qty	List Price
BBK2	2"	5/8" x 5"	4	16	$ 22.28
BBK2.5/3	2 1/2" and 3"	5/8" x 5 1/2"	4	16	22.56
BBK4	4"	5/8" x 6"	8	8	41.49
BBK5/6	5" and 6"	3/4" x 6 1/2"	8	8	54.68
BBK8	8"	3/4" x 7"	8	8	60.96
BBK10	10"	7/8" x 7 1/2"	12	3	144.87
BBK12	12"	7/8" x 8 1/2"	12	3	164.87



GSK Series

Red Rubber Gasket Features:

- For use with butterfly valves, Sch 80 flanges
- Red rubber, 150 lbs., 1/8" full face.

Part Number	Valve Size	List Price
GSK11/2R	1 1/2"	$ **8.24**
GSK2R	2"	**10.93**
GSK21/2R	2 1/2"	**14.28**
GSK3R	3"	**16.19**
GSK4R	4"	**17.51**

Part Number	Valve Size	List Price
GSK5R	5"	$ **20.30**
GSK6R	6"	**23.83**
GSK8R	8"	**32.76**
GSK10R	10"	**43.63**
GSK12R	12"	**70.87**

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PBVIK Series

NO LEAD ✓ LEAD-FREE

Butterfly Valve Installation Kit Features:

- Everything needed for a quick, easy butterfly valve installation.
- Available with PVC Sch 80 or Ductile Iron butterfly valves.
- Custom kits available upon request.

PVC Butterfly Valve Installation Kit Includes:

- One PBFV Series PVC Sch 80 Butterfly valve.
- Two PF Series PVC Sch 80 Van Stone flanges.
- Two red rubber GSK gaskets.
- Bolt kit with steel nuts and bolts.
- Steel washers.

Part Number	Size	Number of Nuts/Bolts	Number of Washers	Ctn Qty	List Price
PBVIK2	2" Kit	4	8	1	$ 311.99
PBVIK21/2	2 1/2" Kit	4	8	1	346.27
PBVIK3	3" Kit	4	8	1	348.68
PBVIK4	4" Kit	8	16	1	420.54
PBVIK6	6" Kit	8	16	1	672.64
PBVIK8	8" Kit	8	16	1	950.09



PHBFV Series

Ductile Iron Butterfly Valve Installation Kit Includes:

- One HBFV Series Ductile Iron Butterfly valve.
- Two PF Series PVC Sch 80 Van Stone flanges.
- Bolt kit with steel nuts and bolts.
- Steel washers.
- Rubber gaskets NOT included. (Extended EPDM seat on the HBFV valve acts as gasket seal with flange.)

Part Number	Size	Number of Nuts/Bolts	Number of Washers	Ctn Qty	List Price
PHBFV2NG	2" Kit	4	8	1	$ **139.48**
PHBFV3NG	3" Kit	4	8	1	178.87
PHBFV4NG	4" Kit	4	8	1	235.75
PHBFV6NG	6" Kit	4	8	1	**375.99**
PHBFV8NG	8" Kit	4	8	1 *	**586.10**
PHBFV10NG	10" Kit	4	8	1 *	799.51
PHBFV12NG	12" Kit	4	8	1 *	990.63

* Shipped in two cartons

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Clear Braided PVC Hose



Clear Braided PVC Hose
Standard Wall, Class 125 Features:

- Flexible, see through clear hose with braid pattern reinforcement of two polyester spirals.
- Flexible clear PVC NSF 51 certified to 100ºF (38ºC), USP CLASS V1 rated.
- All hose compound ingredients used are listed in US FDA CFR, Title 21.
- Temperature range + 25º to 150º F / -5º to +65ºC.
- Silicone free.
- Food and beverage grade, standard wall.
- Use for air, water lines.

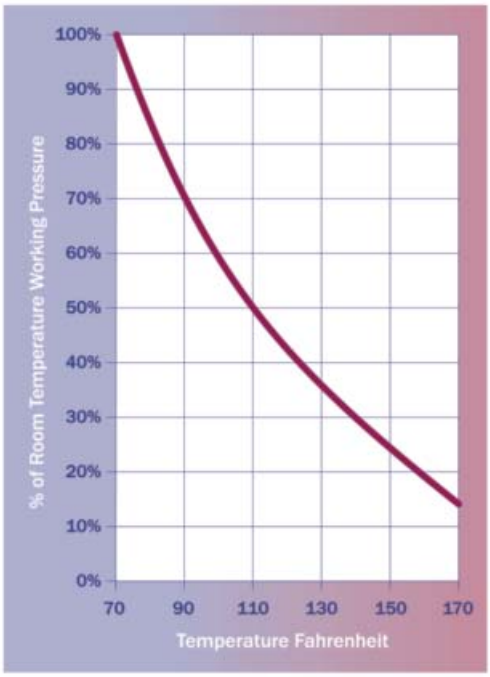
Part Number	Nominal (inches) ID	OD	Max Working Pressure PSI@68°F	PSI@122°F	Reel Length	Approx Wt per CFT.	List Price Per Reel
CBH25-1	1/4	0.438	250	105	100’	5.7 lbs	$ 127.68
CBH38-1	3/8	0.594	225	97	100’	9.0 lbs	177.94
CBH50-1	1/2	0.750	200	86	100’	13.8 lbs	244.32
CBH58-1	5/8	0.875	200	86	100’	16.5 lbs	290.94
CBH75-1	3/4	1.030	150	65	100’	21.9 lbs	366.43
CBH100-1	1	1.300	125	54	100’	31.5 lbs	454.88
CBH100-2	1	1.300	125	54	200’	31.5 lbs	850.25
CBH125-50	1 1/4	1.625	100	43	50’	45.0 lbs	447.99
CBH125-1	1 1/4	1.625	100	43	100’	45.0 lbs	896.01
CBH150-50	1 1/2	1.937	100	43	50’	64.0 lbs	570.01
CBH150-1	1 1/2	1.937	100	43	100’	64.0 lbs	1139.98
CBH200-1	2	2.490	75	33	100’	95.0 lbs	1829.08

** Temperatures higher than 68° F reduce available working pressure. See next page for temperature, working pressure calculation chart and cautionary note.

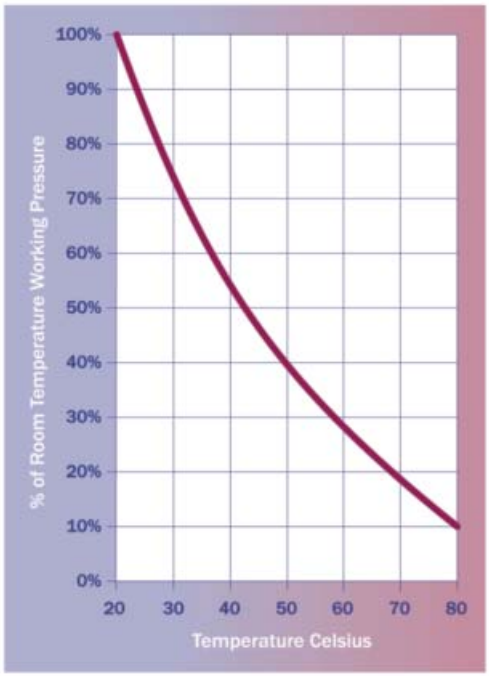
Effects of Elevated Temperatures on Thermoplastic Hose.

The compounds used in clear braided PVC hose are generally referred to as thermoplastics. These materials achieve their optimum physical properties at room temperature, 68ºF (20ºC). As these materials are exposed to increased ambient temperatures, they will soften and their physical properties will change. This will have the effect of sharply reducing the available working pressure. Coupling retention will also be reduced. The charts below illustrate this effect. In all cases, the product should be tested in a controlled, secure and safe environment, and all operating conditions should be considered prior to use.

All published working pressures of AGI Series CBH hose are based on a room temperature of 68ºF (20ºC).



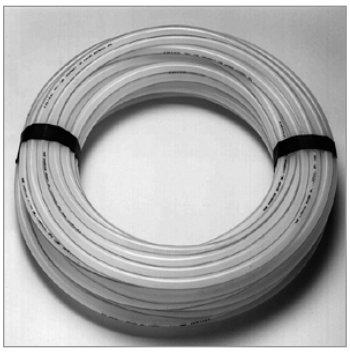
Example from the Fahrenheit Chart
If working pressure at 68ºF is 200 psi, then the WP at 110ºF is 200 x 50%, or 100 psi



Example from the Celsius Chart
If working pressure at 20º is 14 bar, then the WP at 50ºC is 14 x 50%, or 5.6 bar

CAUTIONARY NOTE

The charts are to used as a guideline only. The information and recommendations contained here are, to the best of our manufacturer's knowledge, accurate and reliable, but no guarantee of their accuracy is made. All products are sold upon the condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses, and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Variability in length of exposure, temperature, pressure, velocity of fluid, and chemical concentration all contribute to reduced working pressure and hose reliability.



Polyethylene Tubing Features:

- Conforms to FDA, NSF and USDA Standards.
- Temperature Range -100° F to +140° F
- Economical.
- Extremely Flexible.
- Translucent.
- Resists Corrosion.
- **NOT FOR USE WITH HOT WATER**

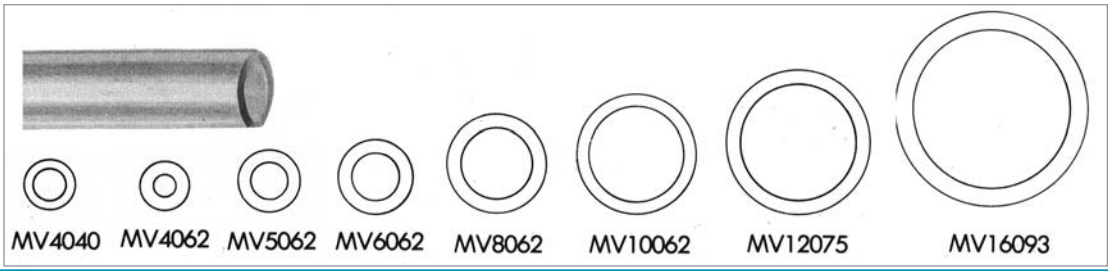
LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

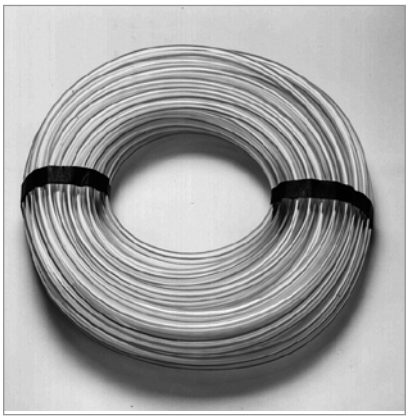
- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
  Ex: For 500' of MV4040-5 order Qty 1 MV4040-5

Part Number Bulk Boxed	Part Number Dispenser Box	OD	ID	Wall Thickness	Max PSI @ 70°F	Coil Length	List Price Per Coil
MV4040-1BLACK		1/4"	.17"	0.04"	135	100'	$ 25.62
MV4040-1		1/4"	.17"	0.04"	135	100'	28.18
MV4040-5		1/4"	.17"	0.04"	135	500'	140.95
MV4040M		1/4"	.17"	0.04"	135	1000'	281.92
MV4062-1		1/4"	1/8"(.125)	1/16"(.062)	180	100'	32.02
MV4062-5		1/4"	1/8"(.125)	1/16"(.062)	180	500'	160.14
MV4062M		1/4"	1/8"(.125)	1/16"(.062)	180	1000'	320.28
MV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	140	100'	44.62
MV5062-5		5/16"	3/16"(.1875)	1/16"(.062)	140	500'	223.06
MV5062M		5/16"	3/16"(.1875)	1/16"(.062)	140	1000'	446.15
MV6062-1		3/8"	1/4"(.250)	1/16"(.062)	120	100'	53.38
MV6062-5		3/8"	1/4"(.250)	1/16"(.062)	120	500'	274.03
MV6062-5BLACK		3/8"	1/4" (.250	1/16"(.062)	120	500'	274.03
MV6062M		3/8"	1/4"(.250)	1/16"(.062)	120	1000'	544.63
MV8062-1		1/2"	3/8"(.375)	1/16"(.062)	90	100'	76.51
MV8062-5		1/2"	3/8"(.375)	1/16"(.062)	90	500'	382.56
MV10062-1		5/8"	1/2"(.500)	1/16"(.062)	70	100'	96.58
MV10062-5		5/8"	1/2"(.500)	1/16"(.062)	70	500'	483.01
MV12075-1		3/4"	.6	.075	60	100'	133.22
MV16093-1		1"	.814	3/32" (.094)	55	100'	**221.09**
	TP308	1/4"	.17"	0.04"		100'	$ 40.64
	TP309	5/16"	3/16"(.1875)	1/16"(.062)		100'	37.26
	TP310	3/8"	1/4"(.250)	1/16"(.062)		100'	64.82
	TP311	1/2"	3/8"(.375)	1/16"(.062)		100'	90.60

POLYETHYLENE TUBING SIZING GUIDE



Tubing - Clear Vinyl



LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Vinyl Tubing Features:

- Temperature Range -20° F to +150° F
- Flexible.
- Transparent.
- Tasteless.
- Non-Toxic.
- **NOT FOR USE WITH HOT WATER**

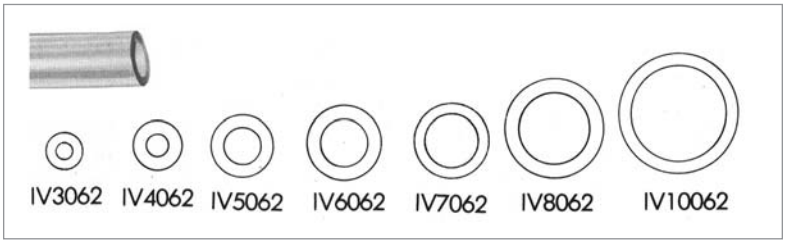
Applications:

- Pool slides
- RV use cold water
- Water softeners
- Ice maker
- Livestock
- Food & Beverage

- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
  Ex: For 500' of IV7062-5 order Qty 1 IV7062-5

Part Number Bulk Box	Dispenser Box	OD	ID	Wall Thickness	Length	List Price Per Coil
IV4062-1		1/4”	1/8”(.125)	1/16”(.062)	100'	$ 55.43
IV5062-1		5/16”	3/16”(.1875)	1/16”(.062)	100'	70.02
IV6062-1		3/8”	1/4”(.250)	1/16”(.062)	100'	87.47
IV7062-1		7/16”	5/16”(.3125)	1/16”(.062)	100'	88.61
IV8062-1		1/2”	3/8”(.375)	1/16”(.062)	100'	112.24
IV10062-1		5/8”	1/2”(.500)	1/16”(.062)	100'	152.00
	TV308	1/4”	1/8”(.125)	1/16”(.062)	100'	49.60
	TV309	5/16”	3/16”(.1875)	1/16”(.062)	100'	54.88
	TV310	3/8”	1/4”(.250)	1/16”(.062)	100'	69.95
	TV311	1/2”	3/8”(.375)	1/16”(.062)	100'	92.14
	TV3125	5/8”	1/2”(.500)	1/16”(.062)	100'	118.86
	TV313-1	7/8”	5/8”	1/8”	100’	282.96
	TV314	1”	3/4”	1/8”	50’	176.21
	TV315	1 1/4”	1”	1/8”	50’	219.15

VINYL TUBING SIZING GUIDE



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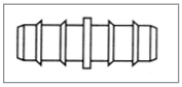
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Barb Fitting Features:

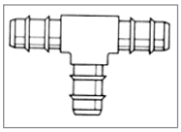
- Superior NO LEAD brass fittings for soft plastic tubing for oil, water, air, vacuum, gas and liquid low pressure lines.
- Exclusive self-clinching double barbs actually tighten under strain.

Compression Fitting Features:

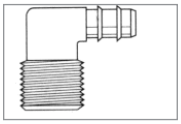
- NO LEAD Brass compression fittings designed for plastic tubing.
- Built-in tube support prevents tube collapse and allows easy assembly.



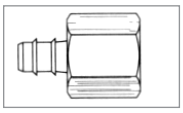
VT22



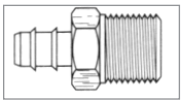
VT224



VT229



VT26

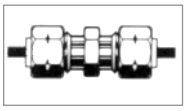


VT28

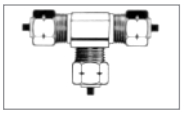
Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty	List Price
Coupling (Ins x Ins)					
VT22-4-4NL	3/8”	1/4”		Bulk	$ 4.13
VT22-6-6NL	1/2”	3/8”		Bulk	5.15
Tee (Ins x Ins x Ins)					
VT224-6NL	1/2"	3/8”		Bulk	13.06
Elbow (Ins x MIP)					
VT229-4-4NL	3/8”	1/4”	1/4" mip	Bulk	11.58
VT229-6-4NL	1/2”	3/8”	1/4" mip	Bulk	10.20
Female Adapter (Ins x FIP)					
VT26-6-4NL	1/2”	3/8”	1/4" fip	Bulk	6.68
Male Adapter (Ins x MIP)					
VT28-4-2NL	3/8”	1/4"	1/8" mip	Bulk	3.88
VT28-4-4NL	3/8”	1/4”	1/4" mip	Bulk	5.51
VT28-6-4NL	1/2”	3/8”	1/4" mip	Bulk	6.28

Fittings for Plastic Tubing - NL Brass

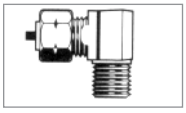
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



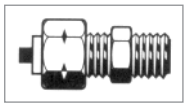
VT62



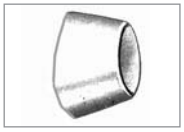
VT64



VT69



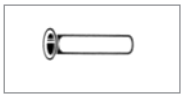
VT68



VT60



VT61



VT63

Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty	List Price
Union w/ inserts (Comp x Comp)					
VT62-4NL	1/4" x 1/4"	.17"		Bulk	$ 10.19
Tee w/ inserts (Comp x Comp x Comp)					
VT64-4NL	1/4" x 1/4" x 1/4"	.17"		Bulk	15.29
Male Elbow w/ inserts (Com x MIP)					
VT69-4-4NL	1/4"	.17"	1/4" mip	Bulk	17.43
VT69-6-4NL	3/8"	1/4"	3/8" mip	Bulk	20.33
Male Connector w/ inserts (Comp x MIP)					
VT68-4-4NL	1/4"	.17"	1/4" mip	Bulk	9.48
Delrin Sleeve					
VT60-4	1/4"			Bulk	0.49
VT60-6	3/8"			Bulk	0.82
Nut					
VT61-4NL	1/4"			Bulk	1.43
VT61-5NL	5/16"			Bulk	1.79
VT61-6NL	3/8"			Bulk	1.99
Tube Support					
VT63-4NL	1/4"	.17"		Bulk	0.51
VT63-6NL	3/8"	1/4"		Bulk	0.97

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T Series

HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter Features:

- Heavy duty, glass reinforced nylon handles.
- Handles designed with matted surface and finger indentation for firm gripping in any weather conditions.
- Handle "bridge" support structure designed to eliminate deflection, bending or breaking while cutting for straighter, truer cut every time.
- "100" and "135" available in black or yellow. "200" available in black.
- Available with either PTFE coated hardened tool steel or polished high-carbon stainless steel blades specially honed to maintain their edge longer than competitive blades.
- Cutter blades individually laser etched with "100", "135" or "200" for easy identification. Replacement blades are blister packed with knock out pin.
- All Harvard Plastic Pipe and Hose cutters are blister packed with an attractive hang-up card.

The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing (except when cutting 2" or larger hose with the SS200).







Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
T100	Black	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	$ 22.61
YT100	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	22.61
T100SS	Black	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	23.60
YT100SS	Yellow	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	23.60
T135	Black	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	25.36
YT135	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	25.36
T135SS	Black	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	26.36
YT135SS	Yellow	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	26.36
SS200	Black	Stainless Steel	Rubber hose through 2" PE through 1 1/2" & Class PVC through 1 1/4"	50	27.94

HARVARD CONTRACTOR Replacement Blades (includes one knock out pin)				**DP is DOUBLE PACK**
BT100	PTFE Coated Hardened Steel Blade	T100, YT100	100	8.61
BT100SS	Stainless Steel Blade	T100SS, YT100SS	100	9.62
BT135	PTFE Coated Hardened Steel Blade	T135, YT135	100	9.42
BT135DP	PTFE Coated Hardened Steel Blades (2)	T135, YT135	100	18.29
BT135SS	Stainless Steel Blade	T135SS, YT135SS	100	10.41
BT135DPSS	Stainless Steel Blades (2)	T135SS, YT135SS	100	20.25
SSB200	Stainless Steel Blade	SS200	50	10.71

Pipe & Hose, PVC - Ratchet Pipe Cutters





APC100SS

HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter with Spring Action Features:

- Heavy duty, cast metal handles.
- Handles designed with matted surface and finger ndentation for firm gripping in any weather conditions.
- Spring action for easy use.
- Latch handle for carrying in closed position.
- **Reversible**, replaceable polished high carbon stainless steel blades honed to maintain thin edge longer than competitive blades.
- Cuts PE, Rubber hose & PVC (Class & Sch 40) through 1" ID (max diameter 1 3/8")
- Blister packed with an attractive hang-up card.

The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing.

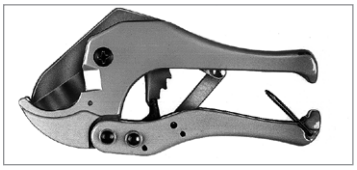




Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
APC100SS	Red	Stainless Steel	PE, Rubber hose & PVC through 1" ID	50	$ **22.27**
HARVARD CONTRACTOR Replacement, Reversible Blade					
APC100SSB	Stainless Steel reversible blade			1	**11.16**



HS25



HM42



HL48



HL50

HARVARD® PVC Ratchet Pipe Cutter Features:

- For use on plastic pipes up to 1", 1 1/4", 1 3/8", 1 1/2" or 2" diameter.
- **Blade and ratchet teeth made of molybdenum vanadium stainless steel. Stays sharp longer than plated steel blades.**
- All metal construction insures long life; locking clip provides safe storage.
- Holds pipe as it cuts, creating smooth, even ends.
- One hand operation (except on HL50).

Part Number	Description	Ctn Qty	List Price
Cutters - With molybdenum vanadium stainless steel blades			
HS25	PVC Pipe Cutter, 1"	60	$ 53.39
HM42	PVC Pipe Cutter, 1-1/4"	60	60.39
HL42A	PVC Pipe Cutter, 1 3/8"	60	74.18
HL48	PVC Pipe Cutter, 1 1/2"	40	119.36
HL50	PVC Pipe Cutter, 2"	20	228.12
Replacement Blades - Molybdenum vanadium stainless steel			
HS25B	Blade for HS25	1	32.70
HM42B	Blade for HM42	1	36.65
HL42AB	Blade for HL42A	1	38.06
HL48B	Blade for HL48	1	59.59
HL50B	Blade for HL50	1	111.96
Replacement Spring Sets			
HS25SP	Spring Set for HS25	1	4.91
HM42SP	Spring Set for HM42	1	6.69
HL42ASP	Spring Set for HL42A	1	6.88
HL48SP	Spring Set for HL48	1	11.08
HL50SP	Spring Set for HL50	1	7.43

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HRPC42





HRPC50

HARVARD CONTRACTOR'S PVC Ratchet Pipe Cutter Features:

- For use up to 1 1/4" or 2" diameter pipe.
- All stainless steel cutting blade and ratchet teeth.
- All metal body construction with latching handle for safe storage.
- 1 1/4" cutter has quick release thumb lever for easy blade opening.
- 1 1/4" cutter packaged in blister card for easy display.
- 2" two hand cutter has rubber handle grips.
- 2" two hand cutter packaged with wrap around card for easy display.
- Replacement stainless steel blades and spring sets are available.

Part Number	Description	Ctn Qty	List Price
Cutters - with stainless steel blade			
HRPC42	PVC Pipe Cutter, 1 1/4"	50	$ 37.25
HRPC50	PVC Pipe Cutter, 2"	10	178.30
Replacement Blades - stainless steel			
HRPC42B	Blade for HRPC42	1	11.84
HRPC50B	Blade for HRPC50	1	89.04
Replacement Spring Sets			
HRPC42SP	Spring Set for HRPC42	1	1.94
HRPC50SP	Spring Set for HRPC50	1	1.94







HARVARD CONTRACTOR'S <u>One Hand</u> 2" PVC Ratchet Pipe Cutter Features:

- Cuts PVC, POLY, ABS, CPVC and PEX pipe.
- **One hand** ratchet operation.
- Latch handle with rubber handle grip.
- All stainless steel blade.
- Teal colored die cast aluminum body.
- Max pipe O.D. 2.48" (63mm)
- HRPC63B Replacement blade available.

NEW

Part Number	Description	Ctn Qty	List Price
Cutters - with stainless steel blade			
HRPC63	PVC One Hand Pipe Cutter, 2"	20	$ 164.90
Replacement Blades - stainless steel			
HRPC63B	Blade for HRPC63	30	66.72
Replacement Pin and screw			
HRPC63PS	Center Pin and Screw replacement set	1	2.82

Cable Saws, PVC & ABS Saws & Hacksaws



CS24L



CS36T

HARVARD CONTRACTOR'S PVC Cable Saw Features:

- Multi-purpose cable saw cuts PVC pipe.
- Available in two lengths and two handle styles

Part Number	Description	Ctn Qty	List Price
Cable Saws			
CS24L	Cable saw, 24" length, Loop handle	50/500	6.31
CS36L	Cable saw, 36" length, Loop handle	5/200	8.72
CS36T	Cable saw, 36" length, T handle	50	11.43



TBS300



PVCSW

14" PVC/ABS Tool Box Saw Features:

- 14" saw for use with PVC or ABS. Cuts wood, aluminum and drain pipe.
- Durable ABS handle.
- Tempered steel blade with 15 teeth, 16 points.
- Cuts in both directions.

PVC/ABS Saw Features:

- 12" or 18" saw blade lengths.
- Aluminum die cast handle for sure grip.
- Cuts large diameter PVC or ABS pipe.
- Cuts drywall, paneling, plywood or plaster board.
- Precision milled teeth for faster, cleaner cuts.
- Induction hardened teeth for longer life.
- Cuts in both directions.
- Quick change design allows for changing blades without tools.

Part Number	Description	Ctn Qty	List Price
TBS300	Tool Box Saw, 14" length, 15 teeth, 16 pt.	4/48	$ 24.82
PVCSW12	PVC Saw, 12" aluminum handle	12	26.80
PVCSW18	PVC Saw, 18" aluminum handle	12	29.35
PVCSW12B	PVC Saw 12" BLADE ONLY	12	13.04
PVCSW18B	PVC Saw 18" BLADE ONLY	12	15.89



T22466

TASK HIGH TENSION HACKSAWS

Task Contractor's High Tension Hacksaw Features:

- Aluminum handle and end piece.
- Square tube frame prevents frame twisting.
- Multiple tension adjustment setting.
- 3 blade positions for 90°, 45° and use as a minisaw.
- Extra blade storage in frame.
- Unconditional warranty.

Part Number	Description	Ctn Qty	List Price
T22466	Contractors Hacksaw	6	$ 31.88

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BOSS® Pool & Spa Adhesives, Lubricants & Sealants

BOSS® line of adhesives, grouts and lubricants are specifically formulated for use with pools and whirlpool baths.











BOSS® 801 Neutral Cure Silicone Adhesive Features:

- A one part, low odor, non-corrosive, oxime cure adhesive and sealant.
- Provides excellant adhesion to ceramic tile, spa jets, skimmers, lighting fixtures, plumbing and fiber optic lighting.
- Adheres well to fiberglass, ABS, acrylic, PVC, wood and masonry.

BOSS® 802 Acetoxy Cure Silicone General Purpose Adhesive Features:

- A one part, acetoxy cure, adhesive/sealant.
- Performs well in jet sealing applications.
- Designed for many other pool and spa maintenance and repair needs.

BOSS® 804 Neutral Cure Silicone Ceramic Tile Grout Features:

- A one part, low odor, non-corrosive, oxime cure silicone grout.
- Spreads easily and provides ample tooling time.
- Excellent ahdesion to all ceramic tiles.

BOSS® 820 Pool & Spa Silicone Lubricant Features:

- Water washout resistant and non-solidifying compound.
- Provides superb lubricant for rubber o-rings.
- Non-corrosive, silicone lubricant compound.

BOSS® 315 RTV 100% Silicone Sealant Features:

- 100% Silicone rubber clear adhesive/sealant.
- Paste-like one component material cures to a tough, rubbery solid when exposed to moisture in the air. Can be applied overhead or on walls without sagging.
- Adheres to clean metal, glass, wood, ceramic and painted or plastic surfaces.

BOSS® 370 HVAC/R Silicone SealantFeatures:

- For sealing heating, ventilation or air conditioning duct work.
- A one part acetoxy cure adhesive/sealant.
- Adheres well clean metal, glass, wood, silicone resins, rubber, ceramics & plastics.

Part Number	Description	Ctn Qty	List Price
80100B	Silicone Adhesive Clear, 10.3 oz cart	12	$ 21.65
80101B	Silicone Adhesive White, 10.3 oz cart	12	21.65
80200B	Silicone Adhesive Gen Purpose, Clear 10.3 oz. cart	12	**15.29**
80201B	Silicone Adhesive Gen Purpose, White 10.3 oz cart	12	**15.29**
80131B	Silicone Adhesive Grout, Clear 3 oz. tube	12	10.82
80401B	Silicone Ceramic Tile Grout, White 10.3 oz cart	12	21.44
82001B	Pool & Spa Lubricant Clear, 1 oz tube bulk	288	6.88
82002B	Pool & Spa Lubricant Clear, 1 oz tube 36 pc tub	36	330.89
82030B	Pool & Spa Lubricant Clear, 3 oz tube	12	10.44
82000B	Pool & Spa Lubricant Clear, 5.3 oz tube	12	17.49
31500B	RTV Silicone Seal CLR 10.0 oz tube	12	**20.81**
31580B	RTV Silicone Seal CLR 8 oz pressurized can	12	**37.67**
37000B	HVAC/R Silicone Sealant Clear cartridge	12	**19.13**
37001B	HVAC/R Silicone Sealant White cartridge	12	**19.13**
37003B	HVAC/R Silicone Sealant Aluminum cartridge	12	**19.13**

NEW

BOSS® Expanding Foam Sealant



BOSS® 333 Expanding Foam Sealant Features:

- Easy to use, multi-purpose urethane foam.
- Unlike ordinary sealants, it expands **three** times it's original volume.
- Adheres to all building materials except PTFE, silicone and polyethelene.
- Seals by expanding into gaps, cracks and crevices.
- Uses including insulating, sealing and filling gaps around pipes, plumbing fixtures,ductwork and foundations.
- UL classified.

DIRECTIONS FOR USE:

1. Shake can before and during use.
2. Surface must be clean and free of grease and oil.
3. Can must be held UPSIDE DOWN during application.
4. Insert straw into void and depress the trigger. The use of protective gloves is highly recommended.
5. Fill void 50% full to allow for expansion.
6. Uncured foam can be cleaned with acetone or paint thinner.
7. Cured foam can be trimmed, sanded, painted r stained. Foam MUST be painted or coverred if application is exposed to UV light.

R19028
CAULKING AND SEALANTS
SURFACE BURNING CHARACTERISTICS
APPLIED TO INORGANIC REINFORCED
CEMENT BOARD*
FLAME SPREAD: 5 SMOKE DEVELOPED: 20
38FN

* Tested as applied in three 3/4" beads 5" on center covering 12.5% of the exposed test sample area.

Part Number	Description	Ctn Qty	List Price
33316B *	Expanding Foam Sealant, 12 oz can w/ application tip	12	$ 16.62
33324B *	Expanding Foam Sealant, 24 oz can w/ application tip	12	32.51

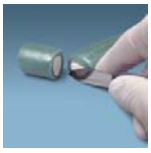
* SHIPPING NOTE: Ground shipping only. Can NOT be shipped via air.

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AquaMend®
Underwater Repair Epoxy

- Ideal for pool & spa repairs.
- Resin and hardener in same stick
- Hand kneadable.
- Unaffected by chlorinated or salt water.
- Sets in 25 minutes, cures in 1 hour.
- Dries off-white.
- Can be sanded and drilled.



1. Cut



2. Mix



3. Apply

Part Number	Size	Display Ctn Qty	List Price
82093	7" stick	12	$ 13.27



HDT Series

ISO 9002

POLYKEN®
Contractor/Industrial Grade Cloth Reinforced Duct Tape

- Multi-purpose duct tape.
- Polyethylene coated cloth backing.
- Natural rubber based adhesive.
- Temperature range: 40°F to 200°F.
- Superior tensile strength, adhesion & tack.
- Recommended for pool liner installations.
- Conformable and will not curl or twist during application.
- 10 mil thickness
- Silver
- Manufactured for AGI in an ISO 9002 facility.

Part Number	Width x Length	Ctn Qty	List Price
HDT260	2" x 60 yards	24	$ 25.91



ISO 9001

3M Spray Adhesives

BLUE 72

- Repositionable BLUE pressure sensitive spray adhesive.
- One side bonds in 8 hours, aggressive tack, low soak in.
- Covers 100 sq ft.
- Ideal for pool liner installation.

ORANGE FOAM FAST 74

- Permanent, light orange, fast tack.
- Two sides bond in 15 minutes.
- Covers 260 sq. ft.

Both manufactured for AGI in an ISO 900 facility.

Pallet pricing available. Call your sales rep.

Part Number	Size	Ctn/Pallet Qty	List Price
BLUE 72	Blue Spray Adhesive 24 fl oz can, 17.3 oz net wt.	12/768	$ 45.17
ORANGE 74	Orange spray adhesive 24 fl oz can, 17.3 oz net wt	12/768	54.80



FAL32

FIX A LEAK The Only One

MARLIG INDUSTRIES, INC.

Fix A Leak Features:

Fix A Leak is a blended material, designed to seal leaks in just about anything. It works in any kind of pool, spa or hot tub, regardless of constructed material, concrete, fiberglass, acrylic, wood, etc. It works equally well in all plumbing materials including PVC, ABS, poly plastics, vulcathen, copper, steel, etc.

- Seals leaks up to 1/8" in diameter.
- Forms a permanent seal.
- One quart is designed to seal leaks in up to 20,000 gallons. Do not use in excess of 1 quart per 5,000 gallons of water.
- Cures in 24-48 hours.
- Patented by Marlig Industries, Inc.

Part Number	Description	Ctn Qty	List Price
FAL32	Fix A Leak Sealant, 32 oz.	12	$ 52.39
FAL8	Fix A Leak Sealant, 8 oz.	20	23.68

See the "Tapes, Sealants, Cements" and "Permatex Industrial" tabs for more installation & repair materials.



PTC163-6ST



PTC163-6RA



PTC143-6RA220

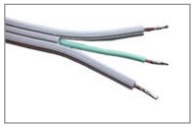
HARVARD CONTRACTOR'S
Power Cord Features:

- Three prong straight (115V) or right angle (115V, 220V) molded plugs.
- 16 gauge, 3 conductor, 13 amp, 125 Volt rating.
- 14 gauge, 3 conductor, 15 amp, 250 Volt rating.
- Six foot cord length.
- Free end is split, stripped 3/8".
- SJTW Indoor/Outdoor rated.
- UL and CSA listed in US and Canada.









Part Number	Description	Wire Gauge	Volt Rating	Ctn Qty	List Price
PTC163-6ST	Straight plug cord	16	125 V	50	$ 13.61
PTC163-6RA	Right angle plug cord	16	125 V	50	13.61
PTC143-6RA220	Right angle plug cord	14	250 V	50	19.46





Combo Head

Tri Combo Head



HARVARD CONTRACTOR'S
Anchor Kit Features:

- Anchor kits complete with 100 plastic anchors, 100 screws and 1/4" masonry drill bit in a plastic case.
- Plastic gray ribbed anchors with lip design for electronic timer, pump start relay installations. Use with concrete block, brick and wallboard.
- Anchors have internal ribs for better centering of screws, locking lugs against pull and twist. Exterior design prevents fall out in overhead holes.
- Kit available with combination slotted/phillips head or tri-combination, slotted/phillips/hex head #10 x 1" screws.
- Kits complete with 1/4" x 4" masonry drill bit.
- Clear, unbreakable plastic case with molded-in hanging tab.

Part Number	Description	Ctn Qty	List Price
AK10CSPR	Ribbed Combo Head	36	$17.04
AK10TCR	Ribbed Tri Combo Head	36	17.50

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2136

LISTED

Swimming Pool, Fountain and Spa Equipment Conductor Splice Potting Compound 2L02

Scotchcast™ 2136 Wet-Niche Potting Kit Features:

- Provides protection against corrosion and deteriorating effects of pool water by encapsulating the 8 AWG ground connection in a wet niche shell.
- The wet-niche shell is a corrosion-resistant metal housing for underwater fixtures in permanently installed pools.
- Product meets NEC requirements to allow the use of rigid nonmetallic conduit in the installation of wet-niche underwater lighting fixtures.
- Packaged in easy-mix, single use, 1.5 oz. container with cleaning pad, application stick and gloves.
- Will not sag or drip. Gels in minutes and can be submerged within 4 hrs.

Part Number	Description	Ctn Qty	List Price
2136	Wet-Niche Potting Kit	10	$ **101.17**



10-417-15

Hot Water Swimming Pool Heater Safety Relief Valve Features:

- Bronze safety relief valve protects ASME Section IV hot water heating boilers and hydronic heating systems.
- High capacity design features corrosion resistant construction.
- Ideal for use in swimming pool heater applications, hot water boilers and hydronic heating systems.
- ASME Section IV.
- Set pressure 75 psi. 20-80 psig certified pressure range.
- Maximum temperature service 250ºF
- Stainless steel springs.
- Registered in all Canadian provinces and territories, CRN #0G8547.5C
- Made in USA.

Part Number	Description	Height	Ctn Qty	List Price
10-417-15	3/4” M/F Safety relief valve	3”	100	$ 47.41

Repair Fittings for Sch 40 Pipe



PEX Series

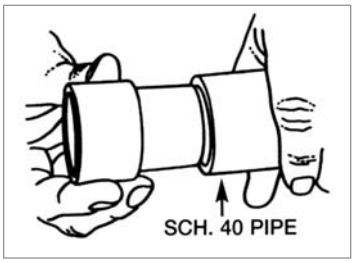


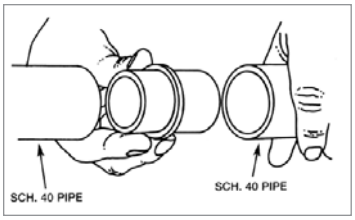
PIC Series

Pipe Extender and Inside Connector Repair Fitting Features:

- For Sch 40 pipe.
- Saves labor.
- Invisible after installation.
- Permanent repair.
- Insignificant flow restriction.
- PVC Construction.
- PIC Series connects two pieces of Sch 40 pipe with flush joint.

NO LEAD ✓ LEAD-FREE





Part Number	Description	IPS Size	Ctn Qty	List Price
Pipe Extender Repair Fitting				
PEX50	Pipe Extender	1/2”	48	$ 2.41
PEX75	Pipe Extender	3/4”	48	3.14
PEX100	Pipe Extender	1”	48	3.99
PEX125	Pipe Extender	1 1/4”	48	4.63
PEX150	Pipe Extender	1 1/2”	48	5.54
PEX200	Pipe Extender	2”	48	6.22
PEX250	Pipe Extender	2 1/2”	96	8.45
PEX300	Pipe Extender	3"	96	12.21
PEX400	Pipe Extender	4"	48	14.27
Inside Connector Repair Fitting				
PIC100	Inside Connector	1”	48	3.99
PIC150	Inside Connector	1 1/2”	48	5.54
PIC200	Inside Connector	2”	48	6.22

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DP600

Horizontal Concrete Repair Features:

Hardens in as little at 5 minutes,

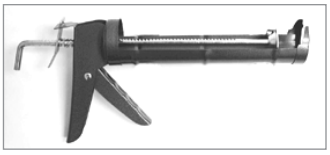
Cracks and spalls in concrete floors are an eyesore as well as a potential safety risk. Fixing them has meant either hiring and waiting for an outside contractor or doing it youself with a repair method that takes the floor out of service for up to 24 hours. Now with 3M Concrete Repair, you save money and time.

- Self-leveling urethane flows smoothly into cleaned cracks and gaps and hardens in as little as 5 minutes. A fork lift can pass over a repair in as few as 15 minutes.
- Hardens to any depth without cracking or shrinking.
- Flexible urethane expands and contracts for durability that outlasts repairs made with concrete.
- Do it yourself with a common caulking gun and eliminate the cost and wait for an outside contractor.
- *Easy to use - Just clean damaged area and fill. With every squeeze of the caulking gun trigger, cartridge nozzle meters and mixes precise proportions for optimum performance.*





Part Number	Description	Ctn Qty	List Price
DP600	Concrete Repair, 8.4 fl oz cartridge supplied with 2 nozzles	6	$ 161.46



9” Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty	List Price
CG9	9” Ratchet	Blue	20	6.36

Concrete Repair



Horizontal Concrete Repair Specifications:

- Gray, self-leveling urethane concrete repair.
- 8.4 fl oz. cartridge of concrete repair and 2 nozzles.
- Work life of 70 sec.
- Handling time of 5 minutes
- Cure time of 60 minutes

Applications:

- Repairing cracks and spalls on concrete floors or horizontal surfaces.
- Setting anchors in concrete floors or horizontal surfaces.
- Light-duty custom threading and anchoring.
- Use outdoors or in highly ventilated area.

Approximate coverage:

Crack Width	Crack Depth	Lineat Feet per 8.4 fl. oz.
1/4”	1/4”	19.3
1/2”	1/4”	9.9
3/4”	1/4”	6.4
1”	1/4”	4.9
1/4”	1/2”	9.9
1/2”	1/2”	4.9
3/4”	1/2”	3.0
1”	1/2”	2.0

Bead Size dimension	Linear Feet per 8.4 fl oz.
1/16”	815.0
1/8”	205.0
1/4”	51.9
3/8”	22.2
1/2”	12.4

Quick and Easy Spall Repair



Clean
Remove all loose material from area to be filled. Concrete should be dry and grease-free.



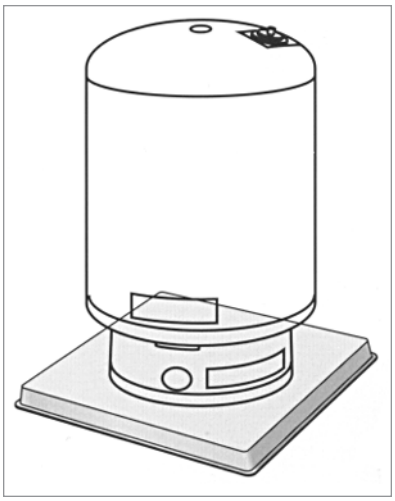
Fill
Dispense product into deepest part of repair areas, slightly overfilling. Product self-levels and is tack-free in as little as one minute.



Finish
In as little as 15 minutes, product can be sanded to remove rough edges. It can be painted within one hour.

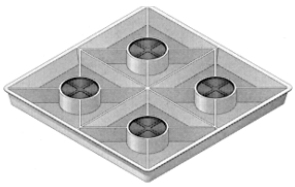
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DIVERSITECH

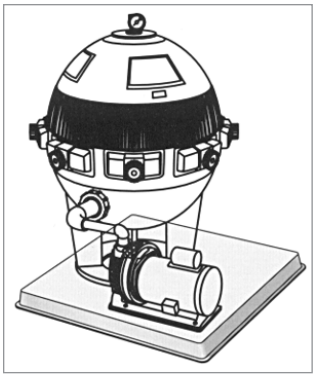


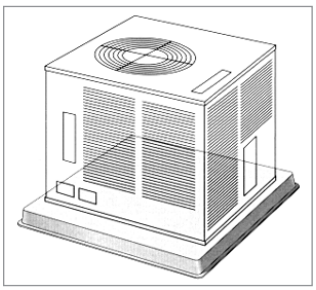
HEF-T-PAD™ Features:

- Injection molded from high impact polyolefin for strength and durability.
- Resistant to impact, UV degradation and weathering.
- Will not crack, flake or warp.
- Virtually impervious to climate changes.
- Drillable, permits installation of refrigerant and electrical lines under and through pad. Also permits equipment to be easily secured to pad.
- Unique, non-creep surface absorbs vibration and noise and keeps equipment in it's original position.
- Gray



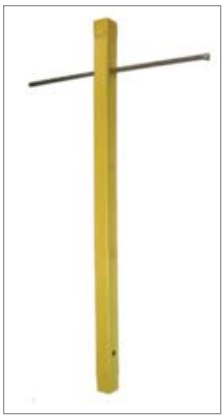
Underside of Hef-T-Pad showing support ribs, stabilization pads and stabilization flange.





Part Number	Size	Pallet Qty	List Price
2" HEF-T-PADS			
X2424211	24" x 24" x 2" one piece	24	$ 73.67
X2436211	24" x 36" x 2" one piece	24	117.49
X3232211	32" x 32" x 2" one piece	24	116.10
X3244211	32" x 44" x 2" one piece	24	151.80
X3636211	36" x 36" x 2" one piece	24	147.91
X3836211	38" x 36" x 2" one piece	24	133.56
X3842211	38" x 42" x 2" one piece	24	172.20
3" HEF-T-PADS			
X2424311	24" x 24" x 3" one piece	16	94.46
X2436311	24" x 36" x 3" one piece	16	149.18
X3030311	30" x 30" x 3" one piece	16	114.40
X3232311	32" x 32" x 3" one piece	16	125.61
X3636311	36" x 36" x 3" one piece	16	182.17

Pool Service Accessories

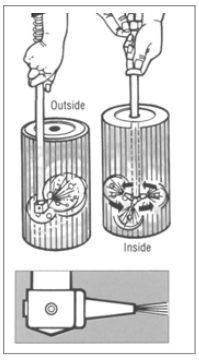


SPPW405

2 in 1 Swimming Pool Plug Wrench Features:

- Fits 1 1/2” or 2” cleanout plugs.
- 31” long.
- Removable 18” plated steel handle.
- Heavy duty, powder coated steel to resist rust and corrosion.
- No welds to corrode.

Part Number	Description	Ctn Qty	List Price
SPPW405	1 1/2” / 2” pool plug wrench with handle	24	$ 46.25
SPPW405H	Replacement handle only for SPPW405	250	6.97

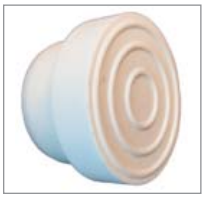


MBC75

Master Blaster Cleaner Features:

- 3/4" FGHT connection.
- Handy on/off lever.
- For general pool/spa cleanup of filters, under copings.

Part Number	Description	Size	Ctn Qty	List Price
MBC75	Master Blaster Cleaner	3/4"	12	$ 20.81

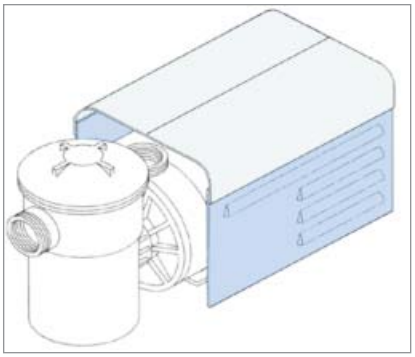


AGLFB19

Ladder Bumper Features:

- White, molded EPDM.

Part Number	Description	Fits Tubes	Ctn Qty	List Price
AGLFB19	Male Ladder bumper	1.9” OD	200	$ 4.40



B8200C

Universal Motor Cover Features:

- Fits all motors from 1/3 hp to 2 hp.
- Shields and protects outdoor motors from sun, rain and dust.
- Made of heavy duty plastic for long life and durability.
- Heat resistant white top and attractive blue sides.
- Sturdy, will not fade from sun or ultraviolet rays.
- Assembles in minutes. No tools needed.

Part Number	Description	Ctn Qty	List Price
B8200C	Universal Motor Cover	12	$ 44.89

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MW, CWMP, RPNH

Wingmaster® Plus Tool Features:

- The all in one **patented** tool for pool technicians.
- **Original** Wingmaster® Plus includes 7" cylinder, hex bar and hand knob.
- 5" Mini tool fits in tight spots such as main drains and skimmers.
- Nylon holster available separately.
- **US Patent #6,374,708**

Typical Applications



Tighten/loosen winterizing and pressure testing plugs



Remove plugs from pipe using threaded end tool or adapter



Install/remove slotted plugs



Install/remove flush plugs



Raise/lower safety cover anchors (1/4" and 3/16" hex)



Hold plugs in place for vacuuming

Part Number	Description	Ctn Qty	List Price
CWMP	Wingmaster Plus Tool 7"	1	$ 167.04
MW	Mini Wingmaster Plus Tool 5"	1	132.14
RPNH	Nylon Holster for CWMP/MW	1	45.71

Wingmaster® is an American Granby Inc. registered trademark.

Pool Service Tools - Anchor, Shell Extractor Kits



Wingmaster® Anchor Extractor Features:

- Removes old cover anchors including anchors with escutcheons with the special design feature of the anchor extractor.
- **Anchor Extractor available only in NANSK or NANSK2 kit.**

To remove safety cover anchors:



1. Thread anchor with tap



2. Turn stud in anchor

3. Place extractor over stud

4. Thread castle nut onto extractor.



5. Attach tool. Turn clockwise to remove anchor.



6. Place square tip of stud into tool to remove old anchor from extractor.



Part Number	Description	Ctn Qty	List Price
JS	Hardened Stud (For 10-15 pulls)	1	$ 35.79
CN	Castle Nut	1	44.53



KEMB

KEMB - Wingmaster® Castle Nut Driver Features:

- Tightens and loosens Castle Nut (CN) with the use of a cordless screw gun.
- Used in the removal of safety cover anchors with the NANSK Kit.
- Works with 5/16 Tap for the tapping (threading) of cover anchors.

Part Number	Description	Ctn Qty	List Price
KEMB	Castle Nut Driver	1	$ 128.49



NANSE

Wingmaster® Shell Extractor Kit Features:

- Removes brass anchor shells - pop-up or threaded style.
- Includes SEW wrench, 11/16 tap and shell adapter.
- Wrench and tap available separately.
- **Shell Adapter available only with NANSE kit.**



1. Insert tap in pop-up shell to create threads (For threaded shell proceed to 2)



2. Thread adapter into shell



3. Thread stud in adapter 1/4"



4. Place tool on castle nut and turn clockwise to remove anchor

Part Number	Description	Ctn Qty	List Price
NANSE	Shell Extractor Kit	1	$ **189.25**
SEW	Shell Extractor Wrench	1	**19.15**
TAP1116	Tap 11/16	1	54.99

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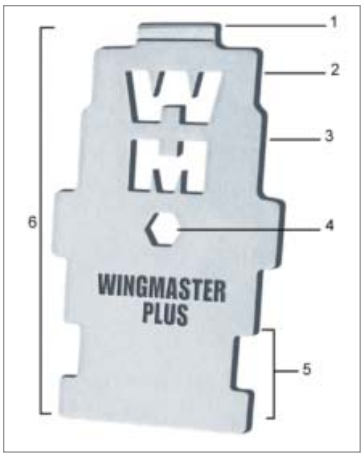
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Pool Service Tools - Multipurpose Keys



WK

Wingmaster® Key Features:

- Multipurpose, stainless steel service tool.

1. Screwdriver.
2. Install/remove 3-way Hayward valve unions.
3. Install/remove directional fittings.
4. Use hex bar through center hole for more turning and torque.
5. Install/remove universal wall fittings.
6. Install/remove Waterway Poly Jet series face ring.



1. Screwdriver to raise/lower slotted anchors.



2. Install/remove 3-way Hayward valve unions



3. Install/remove directional wall fittings

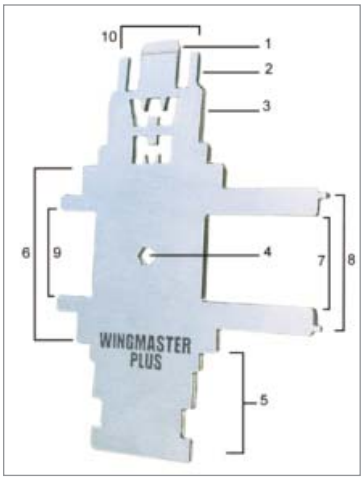


4-5. Install/remove universal wall fittings. Place hex bar in hole for more turning and torque.



6. install/remove Waterway Poly Jet series face ring.

Part Number	Description	Ctn Qty	List Price
WK	Wing Key	1	$ 46.35



WKJ

Wingmaster® Jet Key Features:

- Multipurpose, stainless steel service tool.

1. Screwdriver.
2. Install/remove 3-way Hayward valve unions.
3. Install/remove directional fittings.
4. Use hex bar through center hole for more turning and torque.
5. Install/remove Polaris/Letro universal wall fittings.
6. Install/remove Waterway Poly Jet face rings.
7-8. Install/remove Hayward jet nozzle retaining rings or broken ring tips.
9. Insall/remove Hydro-Air spa jet face ring.
10. Install/remove Hydro-Air (Slim-line) face ring.



7. Install/remove Hayward jet nozzle retaining ring.



8. Install/remove broken Hayward retaining ring tips.



9. Install/remove Hydro-Air spa jet face ring



10. Install/remove Hydro-Air Slimline face ring.

Part Number	Description	Ctn Qty	List Price
WKJ	Jet Key	1	$ 74.15

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Pool Service Tools - Service Kits



NANSK



*

Wingmaster® Plus Service Kit Features:

7” Multipurpose Wingmaster Plus tool, Anchor Extractor, Wing Key and carrying case.

Includes:

- Hand knob, cylinder, hex bar
- Anchor extractor, castle nut, hardened stud
- Anchor extractor for anchors with escutcheons (NANSK2 only).
- Wing key
- 12/24 tap
- 5/16 tap
- Molded Carrying case
- Wingmaster® Plus Tool. **US Patent # 6,374,708**

Part Number	Description	Ctn Qty	List Price
NANSK	Wingmaster Plus Service Kit	1	$ **431.96**
NANSK2*	Wingmaster Plus Service Kit	1	**504.05**
MHK	Hand Knob	1	36.39
MHB	Hex Bar	1	35.29
JS	Hardened Stud (For 10-15 pulls)	1	35.79
CN	Castle Nut	1	44.53
TAP1224	Tap 12-24	1	22.29
TAP516	Tap 5-16	1	23.88
BMC	Blow Molded Case	1	64.26

* Includes anchor extractor for removal of anchors with escutcheons.



KAAK



CTW RSW XPLUG MW



SQW SPW SM

Wingmaster® Plus Multipurpose Accessory Kit Features:

- Wrenches for multiple applications, packed in molded and padded case.

Includes:

- Caretaker Wrench
- Recessed Square Plug Wrench
- “X” Plug Wrench (JoSam)
- Square Plug Wrench
- Stretch Master
- Slotted Wrench for 1022 raised bar plug
- Mini Wingmaster® Plus Tool. **US Patent # 6,374,708**

Part Number	Description	Ctn Qty	List Price
KAAK	Multipurpose Accessory Kit	1	$ **809.71**
CTW	Caretaker Wrench	1	124.23
XPLUG	X Plug (JoSam)	1	107.13
SQW	Square Plug Wrench	1	100.05
SM	Stretch Master	1	39.99
SPW	Slotted Plug Wrench	1	114.36
MW	Mini Wingmaster Tool 5”	1	132.14

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WB

Wingmaster® Bar Features:

- Raise or lower cover anchors from a standing position.
- Fits 1/4” and 3/16” anchors.
- Overall bar length is 32”.

Part Number	Description	Ctn Qty	List Price
WB	Bar	1	$ 47.06



OTWAB

Wingmaster® Wing Bit Features:

- Countersinks wood anchor flush to deck.
- Simple, fast and flush every time.
- Comes with 1 1/2” blade.
- 2” blade (Meyco) available.
- **US Patent # 7,264,427**







Part Number	Description	Ctn Qty	List Price
OTWAB	Wing Bit w/ 1 1/2” blade	1	$ **388.75**
OTRB1.5	Replacement Blade 1 1/2”	1	**132.19**
OTRB2	Replacement Blade 2”	1	**142.40**



HRVS

Wingmaster® Hydrostatic Tool Features:

- Install or remove hydrostatic relief valves in main drain or Sylvan “X” plug (JoSam) and floor return cap.



Remove/install Hayward hyrdostatic relief valve in main drain





Install/remove Sylvan floor return cap and “X” plug (JoSam)

Part Number	Description	Ctn Qty	List Price
HRVS	Hydrostatic Tool	1	$ 287.09

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Pool Service Tools - Accessories



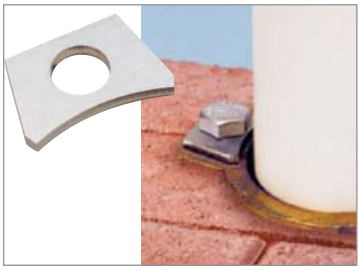
SCRT

Wingmaster® Easy Lift™ Spring Cover Removal Tool Features:

- Quick and easy installation and removal of cover springs with T-handle and quick spring grip.
- Stainless Steel T handle allows for greater leverage. Includes 1/4” and 3/16” stainless steel Allen wrenches to raise/lower anchors.
- 33” long steel bar.

NEW LOWER PRICE

Part Number	Description	Ctn Qty	List Price
SCRT	Spring Cover Removal Tool	1	$ 60.54



LAW

Wingmaster® Anchor Socket Washer Features:

- Contoured washer to fit handrail and ladder anchor sockets.
- Fits up to 3/8” bolt.
- Insures a tight fit for safety.
- Allows bolt to have flush fit and wider coverage around anchor socket.
- Completes pool bonding.

Part Number	Description	Ctn Qty	List Price
LAW25	Anchor Socket Washers, 25 pack	1	$ 176.70

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WMSK

Wingmaster® Stencil Kit Includes:

- High quality stencils made of stainless steel.
- Numbers: 0,1,2,3,4,5,6,7,8,9, 1/2
- Letters for FEET, INCH, DEEP.
- NO DIVING symbol and words
- 2” high letters for FEET DEEP, INCHES DEEP.
- 3 top over spray panels.
- Molded storage case included.

Part Number	Description	Ctn Qty	List Price
WMSK4	Wing Stencil Kit, 4” high	1	$ 510.06
WMSK5	Wing Stencil Kit, 5” high	1	1014.64



SLH

Wingmaster® Snap-In Level Holder Features:

- Use with a torpedo level.
- Spring loaded to fit and ensure level installation of 1 1/2” and 2” fittings.
- Clamps to torpedo level.
- Snaps into fitting.



Part Number	Description	Ctn Qty	List Price
SLH	Snap In Level Holder	1	$ 94.82



PDT

Wingmaster® Pipe Deburr Features:

- Removes PVC burrs from inside and outside of all size pipe.
- Cleans out pump impellers.
- Replacement blades available.



Part Number	Description	Ctn Qty	List Price
PDT	Pipe Deburr Tool	1	$ 45.92
PDRB	Pipe Deburr Replacement Blade	1	11.91

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Pool Service Tools - Accessories



MH

Wingmaster® Multi-Handle Features:

- Attaches to many pool maintenance tools to shorten poles for easier use in spas and tight spaces.
- Two holes to accept delcron spring clips.
- Plastic handle cover for sure grip.
- Use with skimmer nets, wall brushes and pumice stones.
- Use with 4” and 8” algae brushes for cleaning heat exchangers.

Part Number	Description	Ctn Qty	List Price
MH	Multi Handle	1	$ 97.39



BC

Wingmaster® Burner Cleaner Features:

- Blow-through tube for hookup to compressed air.
- Textured (knurled) and curved end to grab spider webs.
- Easy access to accumulated debris in heater orifices.
- Works on Pentair, Zodiac and Hayward heaters.

Part Number	Description	Ctn Qty	List Price
BC	Burner Cleaner	1	$ 53.36



DSSB

Wingmaster® Drain Screw Security Bit Features:

- Tighten and loosen uni-screw for drain safe lids.

Part Number	Description	Ctn Qty	List Price
DSSB	Drain Screw Security Bit	1	$ 45.26

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HWP Flush Plug



HWP Raised Plug



HWP Rubber Plug



Winterizing Plug Applications:

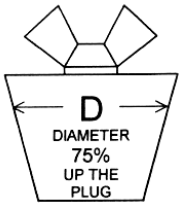
- Safely seals swimming pool inlets and outlets against freezing.
- Temporary pluggings of any water system application for either pipe or fitting sizes.

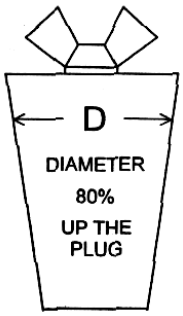
Plastic 1-1/2" Threaded Plug Features:

- Heavy duty, white ABS construction.
- EPDM o-ring is resistant to extreme weather & chemical corrosion.
- Gives a positive seal–no leaking.
- Available in raised or flush style.

Rubber Expansion Plug Features:

- Stainless steel screw and washers.
- Nylon wing nut provides easier turning in cold temperatures, providing greater tightness than conventional plugs.
- Tapered.





Part Number	D (in)	Plug Size	Used For	Case/Ctn Qty	List Price
Plastic					
HWP1022B(Flush)	1-1/2"	White	1 1/2" fip	1000/50	$ 1.79
HWP1022C(Raised)	1-1/2"	White	1 1/2" fip	1000/50	1.79
Rubber					
HWP2000	0.46	000	3/8" pipe	500/50	$ **2.32**
HWP200	0.63	0	1/2" pipe	500/50	**2.44**
HWP201	0.70	1	1/2" pipe	500/50	**2.75**
HWP202	0.75	2	3/4" tube	500/50	**2.79**
HWP203	0.89	3	3/4" pipe	500/50	**2.87**
HWP204	0.96	4	3/4" & 1" pipe	500/50	**2.95**
HWP205	1.02	5	1" tube	500/50	**3.03**
HWP2055	1.06	5 1/2	1" pipe	500/50	**3.06**
HWP206	1.20	6	1" fitting	500/50	**3.30**
HWP2065	1.27	6 1/2	1 1/4" pipe	200/20	**3.42**
HWP207	1.39	7	1 1/4" pipe	200/20	**3.69**
HWP2075	1.46	7 1/2	1 1/2" pipe	200/20	**3.81**
HWP208	1.54	8	1 1/2" pipe	200/20	**3.93**
HWP2085	1.62	8 1/2	1 1/2" pipe	200/20	**4.01**
HWP209	1.69	9	1 1/2" pipe & 1 1/4" ftg	200/20	**4.36**
HWP2095	1.73	9 1/2	1 1/2" fitting	200/20	**4.95**
HWP20975	1.81	9 3/4	1 1/2" fitting (for SP1023G)	200/20	**4.95**
HWP210	1.89	10	1 1/2" fitting	60/10	**4.60**
HWP211	2.13	11	2" pipe	60/10	**6.05**
HWP212	2.42	12	2" fitting	60/10	**6.52**
HWP213	2.58	13	2 1/2" pipe	30/5	**11.16**
HWP2135	2.82	13 1/2	3" pipe	40/5	**12.89**
HWP214	3.40	14	3" pipe	30/5	**19.14**
HWP215	3.86	15	4" pipe	30/5	**25.72**
HWP216	4.64	16	4" pipe	20/4	**28.55**
HWP1-5	1.02	01-05	Universal tapered 01-05	250/50	**2.87**
HWP5-7	1.36	05-07	Universal tapered 05-07	100/20	**4.60**
HWP7-10	1.78	07-10	Universal tapered 07-10	100/20	**6.52**

Winterizing Plugs

Extended Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts, stainless steel washers, spacers and high quality rubber.

Double Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts, stainless steel washers, spacers and high quality rubber with brass stem.

Blow Through Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts and caps, stainless steel washers, high quality rubber, extended brass air valve w/ spring loaded core.



HWP Extended Shaft



HWP Double Plug



HWP Blow Through



HWP Blow Through Universal Tapered

Part Number	Plug Size	Case/Ctn Qty	List Price
Rubber Extended Shaft Plugs			
HWP202X	2	250/50	$ 5.61
HWP203X	3	250/50	5.82
HWP204X	4	250/50	6.04
HWP205X	5	250/50	6.25
HWP206X	6	250/50	6.32
HWP207X	7	200/20	6.43
HWP208X	8	200/20	6.57
HWP209X	9	200/20	6.93
HWP210X	10	60/10	7.11
Double Plugs	**top x bottom x spacing length x top spacer**		
HWP858DP10	Anthony “H” 085 x 08 x 1.05” x 3.05”	40/10	$ 15.57
HWP858DP39	Anthony “U” 085 x 08 x 3.93” x 1.68”	40/10	15.57
HWP98DP35	Anthony “L3” 09 x 08 x 3.5” x 2.3”	40/10	15.57
HWP98DP47A	Anthony “J3” 09 x 08 x 3.5” x 2.3”	40/10	15.57
HWP88DP39	Sylvan “88” 08 x 08 x 3.93” x .6”	80/20	15.57
HWP98DP39	Sylvan “98” 09 x 08 x 3.93” x .6”	80/20	15.57
HWP98DP47S	Sylvan “98L” 09 x 08 x4.7” x .6”	40/10	15.57
HWP107DP47	Sylvan “107L” 10 x 07 x 4.7” x .6”	40/10	15.57
Blow-through Plugs			
HWP202BT	2	500/50	$ 8.89
HWP203BT	3	500/50	10.39
HWP204BT	4	500/50	11.93
HWP205BT	5	500/50	13.46
HWP206BT	6	200/50	15.07
HWP207BT	7	200/20	16.07
HWP208BT	8	200/20	16.25
HWP209BT	9	200/20	16.61
HWP2095BT	9 1/2	60/10	17.71
HWP210BT	10	60/10	18.71
HWP211BT	11	60/10	19.07
HWP212BT	12	60/10	19.43
HWP1-5BT	Universal Tapered 01 - 05	250/50	14.21
HWP5-7BT	Universal Tapered 05 - 07	100/20	15.07
HWP7-10BT	Universal Tapered 07 - 10	100/20	**19.15**

American Granby™

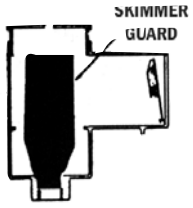
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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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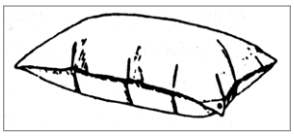


SKG Series





DCWT Series



AP44

Winterizing accessories for pool closings

SKG Skimmer Guard Features:

- Installs in skimmer to prevent freezing and breakage.
- Ends are threaded for 1 1/2" and 2" applications.
- SKG-H with blowout hole, o-ring seals to allow skimmer lines to be blown out without dropping water level.
- SKG9H fits SP1090 series skimmers.
- SKG16H fits SP1070 and SP1080 series skimmers.

Water Tube and Air Pillow Features:

- Single and double tubes available.
- Double chambers extend life of water tubes.
- 12 and 20 mil thickness on tubes. 12 mil on pillows.
- Used for weighing down winter covers on inground pools.

Part Number	Description	Color	Ctn Qty	List Price
Skimmer Guards				
SKG9	9" Skimmer guard	Teal-Green	36	$ 6.36
SKG9H	9" Skimmer guard w/ blowout hole	Teal-Green	36	10.32
SKG16	16" Skimmer guard	Teal-Green	24	8.21
SKG16H	16" Skimmer guard w/ blowout hole	Teal-Green	24	12.93
Water Tubes				
SCWT8	8' Single chamber, 12 mil	Blue	36	8.47
SCWT8-20	8' Single chamber, 20 mil	Blue	24	12.11
SCWT10	10' Single chamber, 12 mil	Blue	30	10.39
DCWT8	8' Double chamber, 12 mil	Blue	36	9.07
DCWT10	10' Double chamber, 12 mil	Blue	30	10.89
DCWT8-20	8' Double chamber, 20 mil	Blue	24	12.61
DCWT10-20	10' Double chamber, 20 mil	Blue	24	14.82
Air Pillows				
AP44	4' x 4' Air pillow, 12 mil	Blue	24	13.47
AP48	4' x 8' Air pillow, 12 mil	Blue	12	22.89

Pool Cover & Utility Pumps



CCP300



CCP350 / CCP500

Pool Cover Pump Features:

- Magnetic drive motor - Only one moving part.
- Completely submersible.
- Easily hooks up to any standard 3/4" garden hose.
- Extra-long 25' power cord with grounded plug.
- Sturdy ceramic shaft impeller.
- Includes easy clean clog resistant foam filter.
- 1 year warranty.
- Listed to UL and cUL standards.

Part Number	Description	Max Output	Max Pump Height	Ctn Qty	List Price
CCP300	Pool Cover Pump	300 gph	6'	18	$ 109.30
CCP350	Pool Cover Pump	350 gph	7'	6	168.48
CCP500	Pool Cover Pump	500 gph	10.5'	6	183.54



91025 & 91330

Submersible Utility Pump Features:

- 1/5 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 10' waterproof power cord.
- Clog resistant open type impeller.
- Fits in 6" opening.
- Capacities of 26 & 40 gpm.
- 1 year limited warranty.

Specifications:

Discharge: 1 1/4" MNPT or 3/4" GHT
Housing & Base: Thermoplastic
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



92250 & 92330

Submersible Sump Pump Features:

- 1/4 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 10' waterproof power cord.
- Clog resistant open type impeller.
- Switch turns on at 9", off at 4".
- Handles 1/8" solids.
- 1 year limited warranty.

Specifications:

Discharge: 1 1/4" MNPT
Housing & Base: Thermoplastic
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected

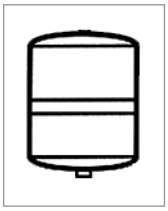
Model No.	HP	Gallons per minute at discharge height in feet 0'	5'	10'	15'	20'	25'	Min. Lift	Min. Amps	List Price
SP91025	1/5	26	21	14	10	7	1	25'	3.6	$ **225.90**
SP91330	1/3	40	34	28	22	12	2	25'	4.1	**283.84**
SP92250	1/4	30	22	20	16	9	2	25'	3.8	**299.46**
SP92330	1/3	40	34	28	22	12	2	25'	4.1	**322.51**

NOTE: Use of smaller diameter pipe, or long runs of pipe, will result in lower flow rates than those shown.

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PUMP & WELL

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INLINE MODELS

- Appliance Gray finish
- Maximum working temperture: 200°F.
- Maximum working pressure: 100 PSIG
- **Third party certified to NSF/ANSI 372.**

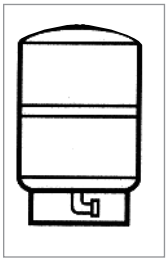
ANSI/NSF 61

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Sourceline PRE-PRESSURIZED WATER SYSTEM TANK BY AMERICAN GRANBY™

Part Number	Dimensions (ins) Dia	Height	Total Volume (gal)	Max Accept Factor	Drawdown (gal) 20/40	30/50	40/60	Shipping Wt (Vol) lbs (cu ft)	Pallet Qty	System Conn. NPTM	Precharge Pressure (psig)	List Price
SL2I	8	12 5/8	2.0	0.45	0.8	0.7	0.6	5 (0.6)	75	3/4"	18	$ **209.58**
SL4I	11	15	4.4	0.55	1.8	1.5	1.3	9 (1.2)	48	3/4"	18	**295.35**
SL8I	11	22 1/4	7.4	0.43	3.1	2.6	2.2	15 (2.0)	32	3/4"	28	**411.22**
SL10I	15 3/8	17 3/4	10.3	1.00	4.1	3.5	3.0	20 (3.0)	18	1"*	38	**533.13**
SL14I	15 3/8	22	14.0	0.81	5.6	4.8	4.1	22 (4.1)	18	1"*	38	**549.33**

* NPTF connection.



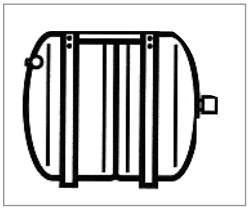
VERTICAL STAND MODELS

- Appliance Gray finish
- Malleable elbow system connection.
- Maximum working temperture: 200°F.
- Maximum working pressure: 100 psig
- **Third party certified to NSF/ANSI 372.**

ANSI/NSF 61

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Part Number	Dimensions (ins) Dia	Height	Total Volume (gal)	Max Accept Factor	Drawdown (gal) 20/40	30/50	40/60	Shipping Wt (Vol) lbs (cu ft)	Pallet Qty	System Conn. NPTF	Precharge Pressure (PSIG)	List Price
SL14V	15 3/8	25 1/8	14.0	0.81	5.6	4.8	4.1	25 (3.8)	18	1"	38	$ **472.38**
SL20V	15 3/8	32 1/8	20.0	0.57	8.0	6.8	5.9	33 (4.9)	18	1"	38	**586.95**
SL32V	15 3/8	46 1/2	32.0	0.35	-	10.9	9.4	43 (7.0)	9	1"	38	**877.23**
SL34V	22	29 5/8	34.0	1.00	13.7	11.6	10.0	61 (9.5)	4	1 1/4"	38	**984.36**
SL44V	22	36	44.0	0.77	17.7	15.0	12.9	69 (11.0)	4	1 1/4"	38	**1340.40**
SL62V	22	46 3/4	62.0	0.55	24.9	21.1	18.2	92 (13.9)	4	1 1/4"	38	**1598.84**
SL86VT	22	62 1/4	86.0	0.39	-	29.2	25.3	114 (18.1)	4	1 1/4"	38	**1697.55**
SL86VS	26	47 1/4	86.0	0.54	34.6	29.2	25.3	123 (18.9)	4	1 1/4"	38	**1592.97**
SL119V	26	61 7/8	119.0	0.39	-	40.5	35.0	166 (24.5)	4	1 1/4"	38	**2006.11**



HORIZONTAL PUMP STAND MODELS

- Appliance Gray finish
- Maximum working temperture: 200°F.
- Maximum working pressure: 100 PSIG
- **Third party certified to NSF/ANSI 372.**

ANSI/NSF 61

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Part Number	Dimensions (ins) H	W	L	Total Volume (gal)	Max Accept Factor	Drawdown (gal) 20/40	30/50	40/60	Shipping Wt (Vol) lbs (cu ft)	Pallet Qty	System Conn. NPTM	Precharge Pressure (psig)	List Price
SL5H	11	10 9/16	18 1/4	5.3	0.80	2.1	1.8	1.6	13 (1.5)	72	3/4"	20	$ **531.91**
SL14H	16	15 3/8	20 7/8	14.0	0.81	5.6	4.8	4.1	29 (4.0)	18	1"	38	**710.88**

Pump Tanks - Sourceline™



Pre-Pressurized Water System Tanks Cross Reference

( ) represents total volume (gals.)

SOURCELINE™ Characteristics

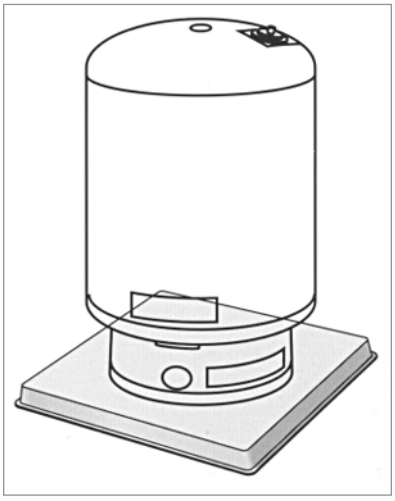
- Projection welded airtight valve
- Durable steel tank with appliance-like finish
- Pre-pressurized, sealed-in air chamber
- Butyl/EPDM diaphragm isolates water from air
- Separate polypropylene liner
- 100% non-metallic reservoir
- Water-tight, welded system connection
- 100 PSIG maximum working pressure
- NSF Standard 61 listed

SOURCELINE™ Facts

- Seamless liner
- Diaphragm never creases like bladder tank designs
- No bubbles or corners to trap sediment
- Does not promote bacteria growth
- 5 year limited warranty

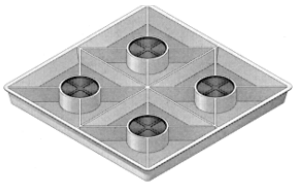
AGI Sourcline	Flexcon Challenger	Flexcon Well-Rite	AO Smith Goulds	Sta-Rite Pro-Source	State PermaAir	Elbi Top Pro	Wessels	Str. Fibers Well Mate	Amtrol Well-X-Trol	Amtrol Wel-Flo	Amtrol Champion	Amtrol ProLine
SL2I (2)	JR6(2.1)	JR6(2.1)	V6P(2)		PIL-2(2)	D-8(2.1)	FX8(2.1)		WX101(2)			
SL4I(4.4)	JR15(4.5)	JR15(4.5)	V15P(4.5)		PIL-5(4.6)	D-18(5)	FX19(5)	WM-2(3.6)	WX102(4.4)			
SL5H(5.3)	JR44HS(5.2)	JR44HS(5.2)		PS15H-S05(6)			FX20H(5.3)		WX105PS(5.3)			
	JR20(6.0)	JR20(6.0)		PS15-S02(6)		D-25(6.5)						
SL8I(7.4)	JR25(8.5)	JR25(8.5)	V25P(8.2)		PIL-7(7.3)				WX103(7.4)			
SL10I(10.3)						D-35(9)			WX104(10.3)			
SL14I(14)					PIL-14(14)				WX200(14)			
SL14V(14)	PC44(14)	WR45(14)	V45P(13.9)	PS30-T01(14)	PAD-14(14)	DV-50(13.5)	FX60V(16)	WM-4(14.5)	WX201(14)	WF45(14)	CH3001(14)	CA3001(14)
SL20V(20)	PC66(20)	WR60(20)	V60(19.9)	PS42T-T02(19)	PAD-20(20)	DV-80(21)	FX80V(21)	WM-6(19.8)	WX202(20)	WF60(20)	CH4202(20)	CA4202(20)
	PC88(26)	WR80(26)				DV-100(27)	FX100V(26)					
SL32V(32)	PC111(32)	WR100(32)	V100(31.8)	PS75T-T03(32)				WM-9(29.5)	WX203(32)	WF100(32)	CH8003(32)	CA8003(32)
SL34V(34)	PC122(33.4)	WR120(33.4)		PS82T-T05(35)	PAD-36S(36)				WX205(34)	WF110(34)	CH8205(34)	CA8205(34)
SL44V(44)	PC144(44)	WR140(44)	V140(45.2)			DV-150(40)		WM-12(40.3)	WX250(44)	WF140(44)	CH10050(44)	CA10050(44)
				PS120-T50(50)	PAD-52(52)		FX200V(52)					
SL62V(62)	PC211(62)	WR200(62)	V200(65.1)	PS200-T51(62)		DV-200(53)		WM-20WB(60)	WX251(62)	WF200(62)	CH12051(62)	CA12051(62)
SL86VT(86)	PC244(81)	WR240(81)	V260(84.9)		PAD-86(86)				WX252(86)	WF252(86)	CH252(86)	CA17252(86)
SL86VS(86)	PC266(85)	WR260(85)	V250(83.5)	PS220-T52(85)		DV-300(80)	FX300V(80)	WM-25WB(86.7)	WX302(86)	WF260(86)	CH17002(86)	CA17002(86)
					PAD-96(96)							
SL119V(119)	PC366(119)	WR360(119)	V350(115.9)		PAD-119(119.5)	DV-450(119)		WM-35WB(119.7)	WX350(119)	WF360(119)	CH22050(119)	CA22050(119)
						DV-500(132)	FX500V(132)					

DIVERSITECH

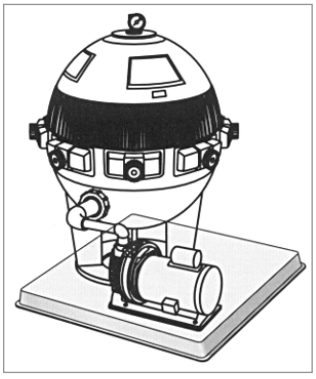


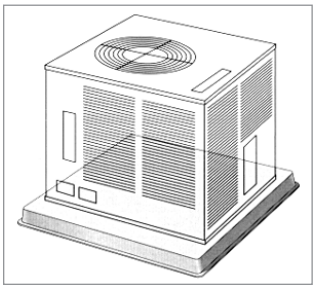
HEF-T-PAD™ Features:

- Injection molded from high impact polyolefin for strength and durability.
- Resistant to impact, UV degradation and weathering.
- Will not crack, flake or warp.
- Virtually impervious to climate changes.
- Drillable, permits installation of refrigerant and electrical lines under and through pad. Also permits equipment to be easily secured to pad.
- Unique, non-creep surface absorbs vibration and noise and keeps equipment in it's original position.
- Gray



Underside of Hef-T-Pad showing support ribs, stabilization pads and stabilization flange.





Part Number	Size	Pallet Qty	List Price
2" HEF-T-PADS			
X2424211	24" x 24" x 2" one piece	24	$ 73.67
X2436211	24" x 36" x 2" one piece	24	117.49
X3232211	32" x 32" x 2" one piece	24	116.10
X3244211	32" x 44" x 2" one piece	24	151.80
X3636211	36" x 36" x 2" one piece	24	147.91
X3836211	38" x 36" x 2" one piece	24	133.56
X3842211	38" x 42" x 2" one piece	24	172.20
3" HEF-T-PADS			
X2424311	24" x 24" x 3" one piece	16	94.46
X2436311	24" x 36" x 3" one piece	16	149.18
X3030311	30" x 30" x 3" one piece	16	114.40
X3232311	32" x 32" x 3" one piece	16	125.61
X3636311	36" x 36" x 3" one piece	16	182.17

Constant Pressure System Manifolds - No Lead Brass, Brackets



CPSM-NL Series

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

* NSF/ANSI 372

Constant Pressure System Manifold Features:

- No lead brass or 304 stainless steel manifold eliminates the need for extra tees, fittings & nipples required to install constant pressure pump systems.
- "NL" and "SS" Series are **third party certified to NSF/ANSI 372.**
- Easy to install, **13 1/2**" length provides plenty of room for tank and accessories. (Tank diameters up to 11" on 2" manifold.)
- Five ports allow installation for all needed plumbing accessories.
- 1" top port manifold allows for direct installation of FLEXCON, FLOW-THRU FT18 tank.
- Manifolds available with or without NL Bronze, PVC or SS bushings.

NO LEAD BRASS Part Number	Overall Length	Line Conn.	Tank Conn.	Transducer Port	Drain Ports	Gauge Port	Bushing	Ctn Qty	List Price
* CPSM125BNL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	None	16	$ 88.39
CPSM125PBNL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" Plastic	16	88.11
CPSM125BBNL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" NL Bronze	16	95.66
CPSM125PB3/4x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" Plastic	16	88.11
CPSM125BB3/4x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" NL Bronze	16	95.66
* CPSM125-100BNL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None	16	93.04
CPSM125-100PBNL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" Plastic	20	120.41
CPSM125-100BBNL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" NL Bronze	20	114.19
CPSM125-100PB1x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" Plastic	20	113.72
CPSM125-100BB1x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" NL Bronze	20	114.19

Please see Stainless Steel manifolds on next page.



Constant Pressure System Manifold Mounting Brackets:

- Dual mounting brackets allow secure manifold placement with tank.
- Zinc-plated, heavy gauge steel tubing, all stainless steel mounting screws, locknuts, U-bolts, plastic end plugs.
- Brackets can be mounted two ways to allow for mounting flexibility.
- Brackets measure 8" x 12 1/2".
- 1 set includes 2 brackets & hardware.





Part Number	Size	Manifold Size	Ctn Qty	List Price
CPSMMB	8" x 12 1/2"	1 1/4"	8	$ **43.75**
CPSMMB200	8" x 12 1/2"	2"	8	**54.52**

American Granby™

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



CPSM-SS Series

HARVARD

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

LOW-LEAD
IAPMO R&T

304 STAINLESS Part Number	Overall Length	Line Conn.	Tank Conn.	Transducer Port	Drain Ports	Gauge Port	Bushing	Ctn Qty	List Price
CPSM125SS	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	None	16	$ 104.96
CPSM125SSPB	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" PVC	16	121.31
CPSM125SSPB3/4x1/2	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" PVC	16	121.31
CPSM125SSB	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" 304 SS	16	127.48
CPSM125SSB3/4x1/2	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" 304 SS	16	127.48
CPSM125-100SS	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None		$ 104.96
CPSM125-100SSPB1x1/2	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" PVC		121.31
CPSM125-100SSB	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/4" 304 SS		128.21
CPSM125-100SSB1X1/2	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/2" 304 SS		128.21
CPSM200-100SS	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None		163.39
CPSM200-100SSPB	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" PVC		197.06
CPSM200-100SSPB1x1/2	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" PVC		197.06
CPSM200-100SSB	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/4" 304 SS		200.82
CPSM200-100SSB1X1/2	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/2" 304 SS		200.82

Installation Packages - Constant Pressure, NO LEAD



HARVARD NO LEAD Brass Constant Pressure System Manifold Installation Packages

- All kits contain:
  - EIPG1002-4BNL 0-100# NL pressure gauge
  - IRV75-100NL 3/4" x 100# NL brass relief valve
  - IHBB75NL NL brass 1/4 turn hose bibb
  - 13 1/2" long manifold as listed below for each kit
  - PVC or NL bronze bushing as listed below for each kit
  - optional CPSMMB mounting bracket
- All **components are certified to NSF/ANSI 371** except the CPSMMB.

Part Number	Additional Components		List Price w/ PVC Bush	List Price w/ NLBB	List Price w/ Bracket
IPCPSM125PBNL	• CPSM125BNL • 439-098	11/4" No Lead brass Manifold 3/4"x1/4" PVC Sch 40 bushing	$ 142.04		
IPCPSM125PBNLMB	Components above plus • CPSMMB	 1 1/4" Mounting bracket			**191.29**
IPCPSM125BBNL	• CPSM125BNL • NLBB3/4x1/4	11/4" No Lead brass Manifold 3/4"x1/4" No Lead bronze bushing		**149.74**	
IPCPSM125BBNLMB	Components above plus • CPSMMB	 1 1/4" Mounting bracket			**197.35**
IPCPSM125PB3/4X1/2NL	• CPSM125BNL • 439-101	11/4" No Lead brass Manifold 3/4"x1/2" PVC Sch 40 bushing	142.04		
IPCPSM125PB3/4x1/2NLMB	Components above plus • CPSMMB	 1 1/4" Mounting bracket			**191.29**
IPCPSM125BB3/4X1/2NL	• CPSM125BNL • NLBB3/4x1/2	11/4" No Lead brass Manifold 3/4"x1/2" No Lead bronze bushing		**149.74**	
IPCPSM125-100PBNL	• CPSM125-100BNL • 839-128	11/4" No Lead brass Manifold 1"x1/4" PVC Sch 80 bushing	142.10		
IPCPSM125-100PBNLMB	Components above plus • CPSMMB	 1 1/4" Mounting bracket			186.67
IPCPSM125-100BBNL	• CPSM125-100BNL • NLBB1x1/4	11/4" No Lead brass Manifold 1"x1/4" No Lead bronze bushing		**149.48**	
IPCPSM125-100BBNLMB	Components above plus • CPSMMB	 1 1/4" Mounting bracket			**197.72**
IPCPSM125-100PB1X1/2NL	• CPSM125-100BNL • 439-130	11/4" No Lead brass Manifold 1"x1/2" PVCSch 40 bushing	136.19		
IPCPSM125-100PB1x1/2NLMB	Components above plus • CPSMMB	 1 1/4" Mounting bracket			**185.25**
IPCPSM125-100BB1X1/2NL	• CPSM125-100BNL • NLBB1x1/2	11/4" No Lead brass Manifold 1"x1/2" No Lead bronze bushing		**149.48**	
IPCPSM125-100BB1x1/2NLMB	Components above plus • CPSMMB	 1 1/4" Mounting bracket			**197.72**

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



HARVARD STAINLESS STEEL Constant Pressure System Manifold Installation Packages

- Available with or without a mounting bracket.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Part Number	Components	Length	List Price	List Price w/ Bracket
IPCPSM125SSPB		13 1/2"	216.63	
• CPSM125SS	1 1/4" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• 439-101	3/4"x 1/2" PVC bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM125SSPBMB				268.14
Components above plus				
• CPSMMB	1 1/4" Mounting bracket			
IPCPSM125SSB		13 1/2"	235.56	
• CPSM125SS	1 1/4" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• SSHB3/4x1/2	3/4"x 1/2" SS bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM125SSBMB				287.07
Components above plus				
• CPSMMB	1 1/4"" Mounting bracket			
IPCPSM125-100SSPB		13 1/2"	$ 208.48	
• CPSM125-100SS	11/4" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• 439-130	1"x 1/2" PVC bushing			
• 439-131	1" x 3/4" PVC bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM125-100SSPBMB				268.46
Components above plus				
• CPSMMB	1 1/4" Mounting bracket			
IPCPSM125-100SSB		13 1/2"	232.43	
• CPSM125-100SS	11/4" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• SSHB1x1/2	1"x 1/2" SS bushing			
• SSHB1x3/4	1" x 3/4" SS bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM125-100SSBMB				284.12
Components above plus				
• CPSMMB	1 1/4" Mounting bracket			



HARVARD STAINLESS STEEL Constant Pressure System Manifold Installation Packages

- Available with or without a mounting bracket.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Part Number	Components	Length	List Price	List Price w/ Bracket
IPCPSM200-100SSPB		13 1/2"	301.88	
• CPSM200-100SS	2" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• 439-130	1"x 1/2" PVC bushing			
• 439-131	1" x 3/4" PVC bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM200-100SSPBMB				351.78
Components above plus				
• CPSMMB200	2" Mounting bracket			
IPCPSM200-100SSB		13 1/2"	320.71	
• CPSM200-100SS	2" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• SSHB1x1/2	1"x 1/2" SS bushing			
• SSHB1x3/4	1" x 3/4" SS bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM200-100SSBMB				366.83
Components above plus				
• CPSMMB200	2" Mounting bracket			

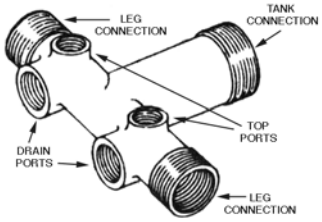
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Tank Crosses - Short Cast NO LEAD Brass



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass tank crosses are **third party certified to NSF/ANSI 372.**





CHT100FBSNL



CHT125BSNL

NO LEAD BRASS Short Cast Crosses w/ 1 drain & 2 or 3 top ports.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHT100FBSNL	2 1/2”	1” fpt	1” X 3/4”	3/4” (1)	1/4” (2)	NL Brass	Import	5/40	$ 35.05
CCAT100BSNL	4 1/4”	1” x 3/4”	1” x 3/4”	1/2” (1)	1/4” (2), 1/2” (1)	NL Brass	Import	4/40	54.12
CHC125BNL	4 1/4”	1 1/4” x 1”	1” x 3/4”	1/2” (1)	1/4” (3)	NL Bronze	USA	12	**82.77**
CHC12550BSNL	4 1/2"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2)	NL Brass	Import	5/40	35.54
CHT125BSNL	3 3/4”	1 1/4” x 1”	1 1/4” x 1”	3/4” (1)	1/4” (2)	NL Brass	Import	5/30	66.03
CIC125BSNL	4 1/4”	1 1/4” x 1”	1” x 3/4”	3/4” (1)	1/4” (2), 1/2” (1)	NL Brass	Import	4/40	57.40



NO LEAD BRASS Short Cast Crosses with 2 drain & 2 top ports.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100BNL	4 3/4”	1”	1” x 3/4”	1/2” (2)	1/4” (2)	NL Bronze	USA	12	$ **83.70**
CICS100BSENL	4 1/2”	1” x 3/4”	1” x 3/4”	1/2” (2)	1/4” (2)	NL Brass	Import	4/24	**31.07**
CIC3125BNL	5”	1 1/4” x 1”	1 1/4” x 1”	3/4” (2)	1/4” (2)	NL Bronze	USA	12	**99.89**
CIC3125BSENL	4 1/2”	1 1/4” x 1”	1 1/4” x 1”	3/4” (2)	1/4” (2)	NL Brass	Import	4/24	43.75
CIC71250BSNL	4 1/2"	1 1/4" x 1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40	42.68
CIC712BNL	4”	1 1/4” x 1”	1” x 3/4”	3/4” (2)	1/4” (2)	NL Bronze	USA	12	**99.77**

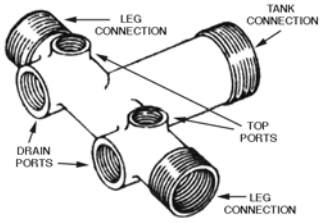


NO LEAD BRASS Short Cast Crosses with Union Disconnect

- Metal to metal ball joint leak proof seal.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100BSUENL	5 1/2”	1”	1”x3/4”	1/2” (2)	1/4” (2)	NL Brass	Import	4/24	$ 49.49
CICS125BSUENL	5 1/2”	1 1/4”x 1”	1 1/4” x 1”	3/4” (2)	1/4” (2)	NL Brass	Import	4/24	67.60

Tank Crosses - Short Cast NO LEAD Brass



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass tank crosses are **Third party certified to NSF/ANSI 372.**





NO LEAD BRASS Short cast crosses
Use with Flexcon Flex-Lite Series, WellMate Tanks

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CWM100BSNL	4 1/2"	1" (FIP)	1"x3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40	$ **36.61**
CWM125BSNL	4 3/4"	1 1/4" (FIP)	1 1/4"x1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/32	48.93
CICS736BSNL	2 1/2"	1 1/4" MIP x 1" FIP	1"x3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40	**39.29**



NO LEAD BRASS Short cast female union tank crosses
Use with Flexcon "Flex-Lite" Series, WellMate Tanks.
FPT brass union w/ American Standard Buna-N o-ring.

- 1" uses AS 568-212 o-ring
- 1 1/4" uses AS 568-320 o-ring.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100BSFTUNL	4"	1" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/32	$ 45.89
CICS1251BSFTUNL	4"	1 1/4" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/32	49.11
CICS125BSFTUNL	4"	11/4" fpt union	11/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/24	66.25



NO LEAD Short Cast Quick Connect (w/ Buna-N o-ring)
Crosses With alignment tabs for use with Well Mate "Quick Connect" Series Tanks.

- 1" and 1 1/4" uses AS568-220 o-ring.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CWM100BSQCNL	5"	Quick Connect	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/24	$ 44.11
CWM125BSQCNL	5"	Quick Connect	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/24	58.75

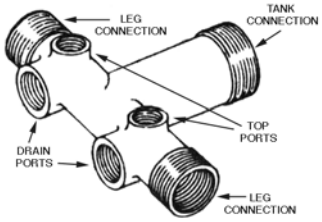
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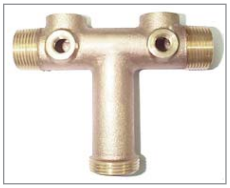
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Tank Crosses - Short Cast NO LEAD Brass



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass tank crosses are **Third party certified to NSF/ANSI 372.**



NO LEAD BRASS Short cast crosses for use with Flexcon Well-Rite, Online Series

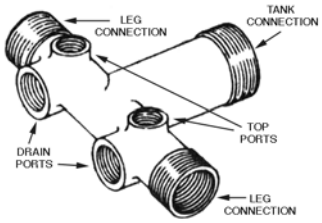
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CFC100BSNL	4 1/2"	1" Union Th.	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40	$ 41.20
CFC125BSNL	4 1/2"	1 1/4" Union Th.	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	5/30	57.53



NO LEAD BRASS Compact cast crosses with 1 drain & 2 top ports

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
TM100BSNL	2 1/2"	1" (FIP)	1" (FIP)	1/2" (1)	1/4" (2)	NL Brass	Import	5/50	$ 21.61
TM125BSNL	3"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	NL Brass	Import	5/50	27.68

Tank Crosses - Short Cast Stainless Steel



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- 304 Cast Stainless Steel.
- Stainless Steel tank crosses are **third party certified to NSF/ANSI 372.**



304 Stainless Steel Short Cast Crosses with 2 drain & 2 top ports.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100SS	4 1/2"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	5/40	$ 69.84
CICS125SS	4 1/2"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24	96.17



304 Stainless Steel Short Cast Crosses with Union Disconnect

- PTFE captive gasket seal ring on 304 SS crosses.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100SSU	5 1/2"	1"	1"x3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/24	85.92
CICS125SSU	5 3/4"	1 1/4"x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24	**90.89**



304 Stainless Steel Short cast crosses
Use with Flexcon Flex-Lite Series, WellMate Tanks

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CWM100SS	4 3/4"	1" (FIP)	1"x3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	5/40	$ 81.00
CWM125SS	4 3/4"	1 1/4" (FIP)	1 1/4"x1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/32	117.16



304 Stainless Steel Short cast female union tank crosses

Use with Flexcon "Flex-Lite" Series, WellMate Tanks. FPT 304 Stainless Steel union w/ American Standard Buna-N o-ring.

- 1" uses AS 568-212 o-ring
- 1 1/4" uses AS 568-320 o-ring.

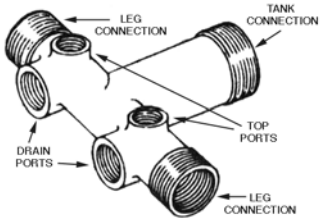
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100SSFTU	4"	1" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/32	$ 92.47
CICS1251SSFTU	4"	1 1/4" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/32	99.50
CICS125SSFTU	4"	11/4" fpt union	11/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24	127.86

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General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Injected molded PVC, galvanized ductile iron.
- Crosses are **third party certified to NSF/ANSI 372.**



Short Cast Crosses with 1 drain and 3 top ports.
*** DO NOT USE PTFE THREAD SEAL TAPE WITH PVC TANK CROSS APPLICATIONS. USE THREAD SEAL PASTE WITH OUT PTFE FOR PLASTIC THREADS ONLY.**

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC125	4 1/4"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2), 1/2" (1)	PVC*	USA	100	$ 15.20



Short cast galvanized crosses with one drain, two top ports

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
HC100G	3 3/4"	1" (FIP)	1" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	30	$ 23.18
HC10075G	4"	1" (FIP)	1" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	40	21.69
HC125G	3 3/4"	1 1/4" (FIP)	1 1/4" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	24	27.43
HC12575G	4"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	25	26.06



Short cast galvanized crosses with one drain, two top ports

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
IC100G	3"	1" (FIP)	1" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	28	$ 21.98
IC125G	3 1/2"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	24	24.58



Short cast galvanized crosses with two drain, two top ports

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
IC200G	3"	1" (FIP)	1" (FIP)	1/2" (2)	1/4" (2)	Ductile Iron	Import	48	$ 27.71

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Tank Installation Packages - 1" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**



TP100BRNL	CCAT100BSNL	NO LEAD Brass	4 1/4"	$ 132.13
• CCAT100BSNL	1" Short NO LEAD Brass Safety Tank Cross.			
• 9013FSG2 30/50	Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• IRV50NL	1/2" NO LEAD Brass Relief Valve			
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain			



IPS100BSENL	CICS100BSENL	NO LEAD Brass	4 1/2"	$ 105.78
IPS100BSENL 40/60	CICS100BSENL	NO LEAD Brass	4 1/2"	$ 105.78
• see above	1" Short NO LEAD Brass Tank Cross.			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• IRV50NL	1/2" NO LEAD Brass Relief Valve			
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain			



IPS100SSNL	CICS100SS	Stainless Steel	4 1/2"	$ 146.18
• see above	1" Short Stainless Steel Cast Tank Cross.			
• 9013FSG2 30/50	Pressure Switch.			
• SS80-1/4 x 3	Stainless Steel Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• IRV50SS	1/2" Stainless Steel Relief Valve			
• IHBB50SS	1/2" Stainless Steel Hose Bibb			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			



IPWM100BSNL	CWM100BSNL	NO LEAD brass	4 1/2"	$ 124.58
IPWM100BSNL 40/60	CWM100BSNL	NO LEAD brass	4 1/2"	$ 124.58
• CWM100BSNL	1" NO LEAD Brass Cross for **FLEXCON "Flex-Lite" WELLMATE** tanks			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• IRV50NL	1/2" NO LEAD Brass Relief Valve			
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain			



IPWM100SSNL	CWM100SS	Stainless Steel	4 1/2"	$ 156.32
• CWM100SS	1" Short Cast SS Tank Cross for **FLEXCON "Flex-Lite" WELLMATE** tanks			
• 9013FSG2 30/50	Pressure Switch.			
• SS80-1/4 x 3	Stainless Steel Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• IRV50SS	1/2" Stainless Steel Relief Valve			
• IHBB50SS	1/2" Stainless Steel Hose Bibb			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			

Tank Installation Packages - 1" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**



IPS100BSFTUNL	CICS100BSFTUNL	NO LEAD brass	4 1/2"	$ 142.13
IPS100BSFTUNL 40/60	CICS100BSFTUNL	NO LEAD brass	4 1/2"	$ 142.13

- CICS100BSFTUNL — 1" NO LEAD Brass Cross for **FLEXCON "Flex-Lite"**, **WELLMATE** tanks
- 9013FSG2 — 30/50 or 40/60 Pressure Switch.
- B80-1/4 x 3 — Brass Nipple.
- EIPG1002-4LNL — 100lb NO LEAD Pressure Gauge
- IRV50NL — 1/2" NO LEAD Brass Relief Valve
- HNKD50NL — 1/2" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



IPS100SSFTUNL	CICS100SSFTU	Stainless Steel	4"	$ 179.41

- CICS100SSFTU — 1" Short Cast SS Tank Cross for **FLEXCON "Flex-Lite"**, **WELLMATE** tanks
- 9013FSG2 30/50 — Pressure Switch.
- SS80-1/4 x 3 — Stainless Steel Nipple.
- EIPG1002-4LNL — 100lb NO LEAD Pressure Gauge
- IRV50SS — 1/2" Stainless Steel Relief Valve
- IHBB50SS — 1/2" Stainless Steel Hose Bibb
- HTST60-1/2SS — 1/2" x 60" Stainless Steel PTFE Tape

NO LEAD < 0.25% Pb by weighted average



IPS100BSUENL	CICS100BSUENL	NO LEAD Brass	5 1/2"	$ 132.10
IPS100BSUENL 40/60	CICS100BSUENL	NO LEAD Brass	5 1/2"	132.10

- CICS100BSUENL — 1" Short LEAD Brass Union Tank Cross
- 9013FSG2 — 30/50 or 40/60 Pressure Switch.
- B80-1/4 x 3 — Brass Nipple.
- EIPG1002-4LNL — 100lb NO LEAD Pressure Gauge
- IRV50NL — 1/2" NO LEAD Brass Relief Valve
- HNKD50NL — 1/2" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



IPS100SSUNL	CICS100SSU	Stainless Steel	5 1/2"	$ 187.97
IPS100SSUNL 40/60	CICS100SSU	Stainless Steel	5 1/2"	187.97

- see above — 1" Short Cast Stainless Steel Tank Cross.
- 9013FSG2 — 30/50 or 40/60 Pressure Switch.
- SS80-1/4x3 — Stainless Steel Nipple.
- EIPG1002-4LNL — 100lb No Lead Pressure Gauge.
- IRV50SS — 1/2" Stainless Steel Relief Valve.
- IHBB50SS — 1/2" Stainless Steel Hose Bibb.
- HTST60-1/2SS — 1/2" x 60" Stainless Steel PTFE Tape

NO LEAD < 0.25% Pb by weighted average

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Tank Installation Packages - 1 1/4" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**



IP125BSNL	CIC125BSNL	NO LEAD Brass	4 1/4"	$ 142.38
IP125BSNL 40/60	CIC125BSNL	NO LEAD Brass	4 1/4"	142.38

- CIC125BSNL — 1 1/4" Short Cast NO LEAD Brass Cross.
- 9013FSG2 — 30/50 or 40/60 Pressure Switch.
- B80-1/4 x 3 — Brass Nipple.
- EIPG1002-4LNL — 100lb NO LEAD Pressure Gauge
- IRV50NL — 1/2" NO LEAD Brass Relief Valve
- HNKD75NL — 3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IP3125BSENL	CIC3125BSENL	NO LEAD Brass	4 1/2"	$ 120.62

- CIC3125BSENL — 1 1/4" Short Cast NO LEAD Brass Tank Cross
- 9013FSG2 — 30/50 Pressure Switch.
- B80-1/4 x 3 — Brass Nipple.
- EIPG1002-4LNL — 100lb. NO LEAD Brass Pressure Gauge.
- IRV75NL — 3/4" NO LEAD Brass Relief Valve.
- HNKD75NL — 3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IPWM125BSNL	CWM125BSNL	No Lead brass	4 3/4"	$ 132.21
IPWM125BSNL 40/60	CWM125BSNL	No Lead brass	4 3/4"	$ 132.21

- CWM125BSNL — 11/4" NO LEAD Brass Cross for **FLEXCON "Flex-Lite"**, **WELLMATE** tanks
- 9013FSG2 — 30/50 or 40/60 Pressure Switch.
- B80-1/4 x 3 — Brass Nipple.
- EIPG1002-4LNL — 100lb. NO LEAD Brass Pressure Gauge.
- IRV75NL — 3/4" NO LEAD Brass Relief Valve.
- HNKD75NL — 3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average

Tank Installation Packages - 1 1/4" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**
- **Do not use PTFE thread seal tape with PVC tank cross applications.**
- **Use thread paste without PTFE approved for plastic threads only.**



IPS125BSFTUNL	CICS125BSFTUNL	NO LEAD brass	4"	$ 153.73
IPS125BSFTUNL 40/60	CICS125BSFTUNL	NO LEAD brass	4"	$ 153.73

- CICS125BSFTUNL 1 1/4" NO LEAD Brass Cross for **FLEXCON "Flex-Lite"**, **WELLMATE** tanks
- 9013FSG2 30/50 or 40/60 Pressure Switch.
- B80-1/4 x 3 Brass Nipple.
- EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge.
- IRV75NL 3/4" NO LEAD Brass Relief Valve.
- HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IPS125SSFTUNL	CICS125SSFTU	Stainless Steel	4"	$ 191.96

- CICS125SSFTU 1 1/4" Stainless Steel Cross for **FLEXCON "Flex-Lite"**, **WELLMATE** tanks
- 9013FSG2 30/50 Pressure Switch.
- SS80-1/4 x 3 Stainless Steel Nipple.
- EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge.
- IRV75SS 3/4" Stainless Steel Relief Valve.
- IHBB75SS 3/4" Stainless Steel Hose bibb
- HTST60-1/2SS 1/2" x 60" Stainless Steel PTFE Tape

NO LEAD < 0.25% Pb by weighted average



IPS125BSUENL	CICS125BSUENL	NO LEAD Brass	5 1/2"	$ 155.99
IPS125BSUENL 40/60	CICS125BSUENL	NO LEAD Brass	5 1/2"	155.99

- CICS125BSUENL 1 1/4" Short Cast NO LEAD Brass Cross **w/ union**
- 9013FSG2 30/50 or 40/60 Pressure Switch.
- B80-1/4 x 3 Brass Nipple.
- EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge.
- IRV75NL 3/4" NO LEAD Brass Relief Valve.
- HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IPS125SSUNL	CICS125SSU	Stainless Steel	5 1/2"	$ **211.54**

- CICS125SSU 11/4" Short Cast Stainless Steel Tank Cross **w/ union**
- 9013FSG2 30/50 Pressure Switch.
- SS80-1/4x3 Stainless Steel Nipple.
- EIPG1002-4LNL 100lb No Lead Pressure Gauge.
- IRV75SS 3/4" Stainless Steel Relief Valve.
- IHBB75SS 3/4" Stainless Steel Hose Bibb.
- HTST60-1/2SS 1/2" x 60" Stainless Steel PTFE Tape

NO LEAD < 0.25% Pb by weighted average



IP125PRNL	CIC125	PVC	4 1/4"	$ 109.50

- CIC125 1-1/4" Short PVC Safety Cross.
- 9013FSG2 30/50 Pressure Switch.
- 1/4 x 3 Schedule 80 PVC Nipple.
- EIPG1002-4LNL 100lb NO LEAD Pressure Gauge.
- IRV50NL 1/2" NO LEAD Brass Relief Valve.
- HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average

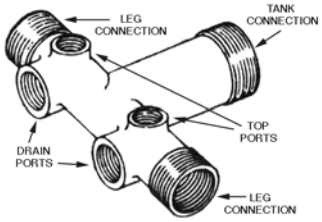
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Tank Crosses - Long Cast NO LEAD Brass, Stainless Steel



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- NO LEAD brass, bronze and stainless steel tank crosses are third party certified to NSF/ANSI 372.



NO LEAD BRASS and BRONZE Long Cast Tank Crosses with 1 drain & 2 top ports.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BSENL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Brass	Import	2/24	$ 45.89
CHC100BNL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze	USA	12	108.84



NO LEAD BRASS and BRONZE Long Cast Tank Crosses with 2 drain & 2 top ports.

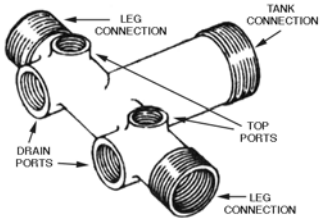
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100BSENL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/24	$ 45.89
CIC100BNL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze	USA	12	108.70
CIC100BS14ENL	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/12	61.07
CIC125BS14ENL	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/12	81.25



304 STAINLESS STEEL Long Cast Tank Crosses with 2 drain & 2 top ports.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100SS	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	2/24	$ 93.49
CIC125SS14	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	2/16	150.34

Tank Crosses - Long Cast NO LEAD Brass, Stainless Steel



General Tank Cross Features:

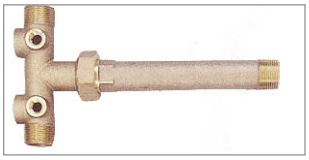
- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- NO LEAD brass and stainless steel tank crosses are third party certified to NSF/ANSI 372.



NO LEAD BRASS Long Cast Tank Crosses with union disconnect, with 1 drain & 2 top ports.

- Metal to metal ball joint leak proof seal.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BSUENL	11”	1”	1” x 3/4”	1/2” (1)	1/4” (2)	NL Brass	Import	2/20	$ 66.25
CHC125BSU14ENL	14”	1 1/4”	1 1/4” x 1”	3/4” (1)	1/4’ (2)	NL Brass	Import	2/12	97.86



NO LEAD BRASS Long Cast Tank Crosses with union disconnect, with 2 drain & 2 top ports.

- Metal to metal ball joint leak proof seal.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
NO LEAD Brass									
CIC100BSUENL	11”	1”	1” x 3/4”	1/2” (2)	1/4 “(2)	NL Brass	Import	2/20	$ 55.89
CIC100BSU14ENL	14”	1”	1” x 3/4”	1/2” (2)	1/4 “(2)	NL Brass	Import	2/12	79.29
CIC125BSU14ENL	14”	1 1/4”	1 1/4” x 1”	3/4” (2)	1/4 “(2)	NL Brass	Import	2/12	104.82



304 STAINLESS STEEL Long Cast Tank Crosses with union disconnect, with 2 drain & 2 top ports.

- PTFE captive gasket seal ring on 304 SS crosses.

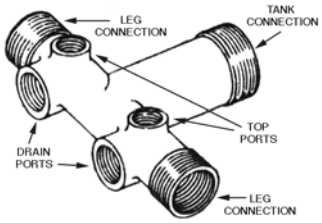
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
304 Stainless Steel									
CIC100SSU	11”	1”	1” x 3/4”	1/2” (2)	1/4 “(2)	304 Stainless	Import	2/20	106.89
CIC100SSU14	14”	1”	1” x 3/4”	1/2” (2)	1/4 “(2)	304 Stainless	Import	2/20	118.25
CIC125SSU14	14”	1 1/4”	1 1/4” x 1”	3/4” (2)	1/4 “(2)	304 Stainless	Import	2/12	158.65

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Tank Crosses - Long Fabricated, NO LEAD Bronze



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** bronze, fabricated tank crosses are **third party certified to NSF/ANSI 372.**



No Lead Long Fabricated Tank Crosses with 1 drain and 2 top taps.

NSF/ANSI 372 — NO LEAD < 0.25% Pb by weighted average

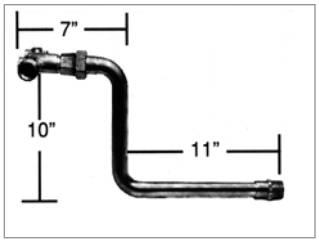
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BFNL	11”	1”	1” x 3/4”	1/2” (1)	1/4” (2)	NL Bronze/Copper	USA	12	$ 94.19
CHC100BF13NL	13”	1”	1” x 3/4”	1/2” (1)	1/4” (2)	NL Bronze/Copper	USA	12	100.93
CHC125BFNL	14”	1 1/4”	1 1/4” x 1”	3/4” (1)	1/4” (2)	NL Bronze/Copper	USA	12	123.71
CHC125BF16NL	16”	1 1/4”	1 1/4” x 1”	3/4” (1)	1/4” (2)	NL Bronze/Copper	USA	6	126.78



NO LEAD Long Fabricated Tank Crosses with 2 drain and 2 top taps.

NSF/ANSI 372 — NO LEAD < 0.25% Pb by weighted average

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100BFNL	11”	1”	1” x 3/4”	1/2” (2)	1/4” (2)	NL Bronze/Copper	USA	12	$ 96.81
CIC100BF13NL	13”	1”	1” x 3/4”	1/2” (2)	1/4” (2)	NL Bronze/Copper	USA	12	100.71
CIC125BFNL	14”	1 1/4”	1 1/4” x 1”	3/4” (2)	1/4” (2)	NL Bronze/Copper	USA	12	122.95
CIC125BF16NL	16”	1 1/4”	1 1/4” x 1”	3/4” (2)	1/4” (2)	NL Bronze/Copper	USA	6	127.96

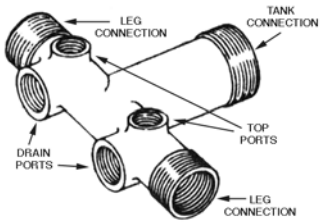


NO LEAD Long Fabricated Elevated Tank Crosses with union disconnect.

NSF/ANSI 372 — NO LEAD < 0.25% Pb by weighted average

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC740BFNL	18”	1”	1” x 3/4”	1/2” (2)	1/4” (2)	NL Bronze/Copper	USA	9	$ 221.32
CIC741BFNL	18”	1 1/4”	1 1/4” x 1”	3/4” (2)	1/4“(2)	NL Bronze/Copper	USA	6	347.13

Tank Crosses - Long Fabricated, PVC, Galvanized



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Galvanized ductile iron crosses contain no lead.
- Third party certified to NSF/ANSI 372.

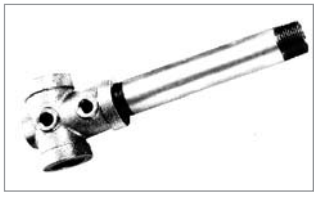


Long Fabricated PVC Tank Cross

- Shipped unassembled with 1 x 10 Sch 80 PVC nipple.
- Third party certified to NSF/ANSI 372.

* Do not use PTFE thread seal tape with PVC tank cross applications. Use thread seal paste without PTFE for plastic threads only.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
IC100F	14”	1”	1” x 3/4”	3/4” (1)	1/4” (2), 1/2” (1)	PVC*	USA	12	$ 20.47



Long Fabricated Galvanized Ductile Iron Tank Cross

- Shipped unassembled.
- HC100GF supplied with 1x8 and 1/4x3 galvanized nipples.
- HC125GF &125/100GF supplied with 1 1/4”x11” & 1/4”x3” galvanized nipples.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
HC100GF	11 1/2”	1” (MIP)	1” (FIP)	1/2” (1)	1/4” (2)	Ductile Iron	Import	12	$ 34.49
HC125GF	14 1/2”	1 1/4” (MIP)	1 1/4” (FIP)	1/2” (1)	1/4” (2)	Ductile Iron	Import	4	41.44



Long Fabricated Galvanized Ductile Iron Tank Cross

- Shipped unassembled.
- IC100GF supplied with 1x8 and 1/4x3 galvanized nipples.
- IC125GF supplied with 1 1/4”x11” & 1/4”x3” galvanized nipples.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
IC100GF	10 3/4”	1” (MIP)	1” (FIP)	3/4” (1)	1/4” (2)	Ductile Iron	Import	12	$ 34.72
IC125GF	14 1/4”	1 1/4” (MIP)	1 1/4” (FIP)	3/4” (1)	1/4” (2)	Ductile Iron	Import	12	41.52

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Tank Installation Packages - 1" Bottom Discharge

- **ALL NO LEAD brass tank installation package components are third party certified to NSF/ANSI 372.**
- **ALL tank installation package components contain NO LEAD.**



TP100BSNL	CHC100BSENL	NO LEAD Brass	11"	$ 124.78
TP100BNL	CHC100BNL	NO LEAD Bronze	11"	200.82

- see above
- 9013FSG2 30/50
- B80-1/4x3
- EIPG1002-4LNL

1"x11" Long NO LEAD Brass or Bronze Tank cross Pressure Switch. Brass Nipple. 100lb NO LEAD Pressure Gauge.

NO LEAD < 0.25% Pb by weighted average



IP100BSENL	CIC100BSENL	NO LEAD Brass	11"	$ 127.73
IP100BSENL 40/60	CIC100BSENL	NO LEAD Brass	11"	127.73
IP100BS14ENL	CIC100BS14ENL	NO LEAD Brass	14"	144.16
IP100BS14ENL 40/60	CIC100BS14ENL	NO LEAD Brass	14"	144.16
IP100BRNL	CIC100BNL	NO LEAD Bronze	11"	249.43
IP100BRNL 40/60	CIC100BNL	NO LEAD Bronze	11"	249.43
IP100BFRNL	CIC100BFNL	NO LEAD Bronze	11"	231.94
IP100BFRNL 40/60	CIC100BFNL	NO LEAD Bronze	11"	231.94
IP100BF13RNL	CIC100BF13NL	NO LEAD Bronze	13"	236.04
IP100BF13RNL 40/60	CIC100BF13NL	NO LEAD Bronze	13"	236.04

- see above
- 9013FSG2
- B80-1/4x3
- EIPG1002-4LNL
- IRV50NL
- HNKD50NL

1" Long NO LEAD Brass or Bronze Tank Cross. 30/50 or 40/60 Pressure Switch. Brass Nipple. 100lb NO LEAD Pressure Gauge 1/2" NO LEAD Brass Relief Valve 1/2" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IP100BSUENL	CIC100BSUENL	NO LEAD Brass	11"	$ 147.25
IP100BSUENL 40/60	CIC100BSUENL	NO LEAD Brass	11"	147.25
IP100BSU14ENL	CIC100BSU14ENL	NO LEAD Brass	14"	165.80
IP100BSU14ENL 40/60	CIC100BSU14ENL	NO LEAD Brass	14"	165.80

- see above
- 9013FSG2
- B80-1/4x3
- EIPG1002-4LNL
- IRV50NL
- HNKD50NL

1" Long NO LEAD Union Tank Cross 30/50 or 40/60 Pressure Switch. Brass Nipple. 100lb NO LEAD Pressure Gauge 1/2" NO LEAD Brass Relief Valve 1/2" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IP100SSNL	CIC100SS	Stainless Steel	11"	$ 191.15
IP100SSNL 40/60	CIC100SS	Stainless Steel	11"	$ 191.15

- see above
- 9013FSG2
- SS80-1/4x3
- EIPG1002-4LNL
- IRV50SS
- IHBB50SS
- HTST60-1/2SS

1" Long Stainless Steel Cast Tank Cross. 30/50 or 40/60 Pressure Switch. Stainless Steel Nipple. 100lb NO LEAD Pressure Gauge 1/2" Stainless Steel Relief Valve 1/2" Stainless Steel Hose Bibb 1/2" x 60" Stainless Steel PTFE Tape

NO LEAD < 0.25% Pb by weighted average

Tank Installation Packages - 1" Bottom Discharge

- **Do not use PTFE thread seal tape with PVC tank cross applications.**
- **Use thread paste without PTFE approved for plastic threads only.**
- **ALL tank installation package components contain NO LEAD.**



IP100SSUNL	CIC100SSU	Stainless Steel	11"	$ 228.92
IP100SSUNL 40/60	CIC100SSU	Stainless Steel	11"	228.92
IP100SSU14NL	CIC100SSU14	Stainless Steel	14"	221.18
IP100SSU14NL 40/60	CIC100SSU14	Stainless Steel	14"	221.18
• see above	1" Long Stainless Steel Union Tank Cross.			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• SS80-1/4x3	Stainless Steel Nipple.			
• EIPG1002-4LNL	100lb No Lead Pressure Gauge.			
• IRV50SS	1/2" Stainless Steel Relief Valve.			
• IHBB50SS	1/2" Stainless Steel Hose Bibb.			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			

NO LEAD < 0.25% Pb by weighted average



TP100GFNL	HC100GF	Fab Galvanized	11 1/2"	$ 91.37
• HC100G	1" Galvanized Tank Cross.			
• GS80-1/4x3	Galvanized Steel Nipple.			
• GS80-1x8	Galvanized Steel Nipple.			
• 9013FSG2 30/50	Pressure Switch.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain			

NO LEAD < 0.25% Pb by weighted average



TP100PFNL	IC100F	Fab. PVC	14"	$ 72.79
TP100PFNL 40/60	IC100F	Fab. PVC	14"	$ 72.79
• IC100F	1" x 14" Long PVC Fabricated Safety Tank Cross.			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• 1/4x3	PVC Schedule 80 Nipple.			
• 450-005	PVC Schedule 40 Threaded Plug.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			

NO LEAD < 0.25% Pb by weighted average



IP100PFRNL	IC100F	Fab. PVC	14"	$ 99.20
IP100PFRNL 40/60	IC100F	Fab. PVC	14"	$ 99.20
• IC100F	1"x14" Long PVC Fabricated Safety Tank Cross.			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• 1/4 x 3	PVC Schedule 80 Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• IRV50NL	1/2" NO LEAD Brass Relief Valve			
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain			

NO LEAD < 0.25% Pb by weighted average

Tank Installation Packages - 1 1/4” Bottom Discharge

- **ALL tank installation package components are contain NO LEAD.**



TP125BFNL	CHC125BFNL	NO LEAD Bronze	14”	$ 222.15
• CHC125BFNL	1 1/4” Long NO LEAD Fabricated Bronze Tank Cross			
• 9013FSG2	30/50 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.			

NO LEAD < 0.25% Pb by weighted average



IP125BFR7NL	CIC125BFNL	NO LEAD Bronze	14”	$ 281.12
IP125BFR7NL 40/60	CIC125BFNL	NO LEAD Bronze	14”	281.12
IP125BF16R7NL	CIC125BF16NL	NO LEAD Bronze	16”	287.92
IP125BF16R7NL 40/60	CIC125BF16NL	NO LEAD Bronze	16”	287.92
• see above	1 1/4” Long NO LEAD Fabricated Bronze Tank Cross			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.			
• RV75NL	3/4” NO LEAD Brass Relief Valve.			
• HNKD75NL	3/4” NO LEAD Brass No Kink Boiler Drain.			

NO LEAD < 0.25% Pb by weighted average



IP125BS14ENL	CIC125BS14ENL	NO LEAD Brass	14”	$ 169.85
IP125BS14ENL 40/60	CIC125BS14ENL	NO LEAD Brass	14”	169.85
• CIC125BS14ENL	1 1/4” Long NO LEAD Cast Brass Tank Cross			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.			
• IRV75NL	3/4” NO LEAD Brass Relief Valve.			
• HNKD75NL	3/4” NO LEAD Brass No Kink Boiler Drain.			

NO LEAD < 0.25% Pb by weighted average



IP125BSU14ENL	CIC125BSU14ENL	NO LEAD Brass	14”	$ 205.56
IP125BSU14ENL 40/60	CIC125BSU14ENL	NO LEAD Brass	14”	205.56
• See above	1 1/4” Long NO LEAD Union Brass Tank Cross			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.			
• IRV75NL	3/4” NO LEAD Brass Relief Valve.			
• HNKD75NL	3/4” NO LEAD Brass No Kink Boiler Drain.			

NO LEAD < 0.25% Pb by weighted average

Tank Installation Packages - 1 1/4” Bottom Discharge

- **ALL tank installation package components contain NO LEAD.**



IP125SS14NL 40/60	CIC125SS14	Stainless Steel	14”	$ 227.64
• see above	11/4” Long Stainless Steel Cast Tank Cross.			
• 9013FSG2 40/60	Pressure Switch.			
• SS80-1/4x3	Stainless Steel Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge.			
• IRV75SS	3/4” Stainless Steel Relief Valve.			
• IHBB75SS	3/4” Stainless Steel Hose Bibb.			
• HTST260-1/2SS	1/2” x 260” Stainless Steel PTFE Tape			

NO LEAD < 0.25% Pb by weighted average



IP125SSU14NL	CIC125SSU14	Stainless Steel	14”	$ 250.47
IP125SSU14NL 40/60	CIC125SSU14	Stainless Steel	14”	250.47
• see above	11/4” Long Stainless Steel Union Tank Cross.			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• SS80-1/4x3	Stainless Steel Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge.			
• IRV75SS	3/4” Stainless Steel Relief Valve.			
• IHBB75SS	3/4” Stainless Steel Hose Bibb.			
• HTST60-1/2SS	1/2” x 60” Stainless Steel PTFE Tape			

NO LEAD < 0.25% Pb by weighted average

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Underground Tank Installation Package Features:

- Includes components needed to complete the installation of underground (buried) well tanks.

NO LEAD Parts inlcude:

- 9013FSG2 40/60 Square D pressure switch
- PT800TNL 1" NO LEAD bronze pitless adapter
- EIPG1002-4LNL NO LEAD 0-100 psi, steel case, pressure gauge
- 1/4x3 PVC Sch 80 nipple
- 6204 (2) Ideal SS hose clamps
- NLBT1/4 1/4" NO LEAD brass tee
- VT129HB-4-2N Nylon Ell 1/4" hose barb x 1/8" mip
- SW019 4 feet 1/4" x 1/2" OD red rubber hose
- 146-1899N 1/4" Nylon male insert adapter (mpt x hose barb)

Part Number	List Price
IP100UGNL 40/60	$ **225.99**

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (866) 503-5523 Fax (888) 562-2095

RV and IRV Series Relief Valve Features:

- Heavy duty no lead bronze, **no lead** brass or 304 stainless steel.
- For shallow, deep well and submersible pumps.
- **Third party certified to NSF/ANSI 372.**
- Spring loaded and pre-set under pressure, **NOT ADJUSTABLE.**
- 1/2" or 3/4" (IRV7575) discharge.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

Hamilton Adjustable Safety Relief Valve Features:

- Preset at 75 P.S.I. with concealed adjusting screw to prevent tampering.
- No-lead brass heavy duty, full-flow design with Buna-N seats.

NO LEAD < 0.25% Pb by weighted average



RV-NL Series

ISO 9001



IRV-NL



IRV SS Series



HRV Series

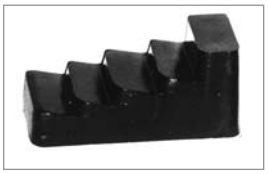
Part Number	Size	Pressure Setting	Ctn/Case	List Price
NO LEAD Bronze Relief Valves - Made in USA				
RV50NL	1/2"x 1/2"	Set at 75 psi	50/150	$ 30.77
RV75NL	3/4"x 1/2"	Set at 75 psi	50/150	31.22
RV50-100NL	1/2" x 1/2"	Set at 100 psi	50/150	30.77
RV75-100NL	3/4" x 1/2"	Set at 100 psi	50/150	31.22
NO LEAD Brass Relief Valves - Imported				
IRV50NL	1/2"x 1/2"	Set at 75 psi	10/100	12.04
IRV75NL	3/4"x 1/2"	Set at 75 psi	10/100	13.00
IRV50-100NL	1/2"x 1/2"	Set at 100 psi	10/100	12.04
IRV75-100NL	3/4"x 1/2"	Set at 100 psi	10/100	13.00
IRV7575NL	3/4"x 3/4"	Set at 75 psi	10/100	**14.64**
IRV7575-100NL	3/4"x 3/4"	Set at 100 psi	10/100	**14.64**
304 Stainless Steel Relief Valves - Imported				
IRV50SS	1/2"x 1/2"	Set at 75 psi	10/100	19.66
IRV75SS	3/4" x 1/2"	Set at 75 psi	10/100	20.76
IRV7575SS	3/4" x 3/4"	Set at 75 psi	10/100	21.50
IRV50-100SS	1/2" x 1/2"	Set at 100 psi	10/100	19.66
IRV75-100SS	3/4" x 1/2"	Set at 100 psi	10/100	20.76
IRV7575-100SS	3/4" x 3/4"	Set at 100 psi	10/100	21.50
Hamilton NO LEAD Brass Adjustable Safety Relief Valves				
		Set at Adjustable to	**Sold at Preset Only**	
HRV50NL	1/2" mipt x 1/2" fipt	75 psi 150 psi	25	98.33
HRV75NL	3/4" mipt x 3/4" fipt	75 psi 100 psi	25	111.24
HRV125NL	1 1/4" mipt x 1 1/4" fipt	75 psi 200 psi	10	315.00
HRV175NL	1" mipt x 3/4" fipt	75 psi 200 psi	25	185.76

NOTE: Relief valves on this page are not for use with hot water heaters. Recommended for cold water system installations only.

Preset relief valves are NOT intended to be adjusted. Any adjustment to preset relief valves voids warranty.

FLOW RATES							
PSI	**85**	**90**	**95**	**100**	**105**	**110**	**115**
RV Series gpm	.30	7.3	7.7	9.8	17.9	18.9	20.6
IRV Series gpm	2.0	2.7	3.8	4.7	7.0	12.0	12.7
PSI	**10**	**20**	**30**	**40**	**60**	**80**	**100**
HRV50	.6	1.5	2.5	3.6	6.1	8.8	11.8
HRV75			2.8	5.5	11.0	13.8	17.9
HRV175	6.0	12.6	19.0	24.6	35.6	44.8	52.3
HRV125	12.0	35.0	48.4	69.2	106.5	132.5	150.0

Installation Accessories - Tank



TL3



PMB1



SN18NL, SN18LNL, SN25NL, SN25LNL



PTG1002

Tank Legs Features:

- Elevates tank above floor and out of condensation pools.
- Leveled on uneven floors without the use of tools.
- Custom molded from high strength ABS.

Pump Mounting Bracket Features:

- Elevates pump out of corrosive atmosphere.
- Heavy duty 12 gauge cold rolled steel with gray enamel coating. Heaviest steel gauge bracket available in the market.
- Plastic protectors on the pump stand legs prevent scratching of the tank.
- Supplied with 1", 1 1/4" zinc plated steel screws and steel adapter for larger tanks.
- Fits all pumps and comes individually cartoned.

Air Valve Features:

NO LEAD < 0.25% Pb by weighted average

- Used for reciprocating and submersible pumps to admit air to system.
- Used for charging applications and many other uses.
- Available in long and short patterns.
- Made in USA

Pressure Test Gauge Features:

- 0-100 psi, 2" plastic lens.
- Brass test fitting with pressure release button.
- Heavy rubber boot to protect gauge from damage.

Part Number	Size	Pressure Setting/Description	Ctn Qty	List Price
Tank Legs				
TL3		(3/Package), ABS	48	$ 3.45
Pump Mounting Brackets				
PMB1		12 gauge steel plate, Gray	20	30.05
Air Valves - Made in USA				
LVC18		Replacement Core for light spring models		0.94
SN18NL	1/8"	Short Pattern Light Spring (Snifter) NO LEAD	25/250	3.15
SN18LNL	1/8"	Long, Light Spring (Snifter) NO LEAD	25/250	3.89
SN18LNLNCS	1/8"	Long, No Core Spring NO LEAD	25/250	4.07
SN25NL	1/4"	Short Pattern Heavy Spring NO LEAD	25/250	4.27
SN25LNL	1/4"	Long, Light Spring (Snifter) NO LEAD	25/250	4.67
Pressure Test Gauge				
PTG1002		Pressure test gauge	50	14.90

Clear Braided PVC Hose



Clear Braided PVC Hose
Standard Wall, Class 125 Features:

- Flexible, see through clear hose with braid pattern reinforcement of two polyester spirals.
- Flexible clear PVC NSF 51 certified to 100ºF (38ºC), USP CLASS V1 rated.
- All hose compound ingredients used are listed in US FDA CFR, Title 21.
- Temperature range + 25º to 150º F / -5º to +65ºC.
- Silicone free.
- Food and beverage grade, standard wall.
- Use for air, water lines.

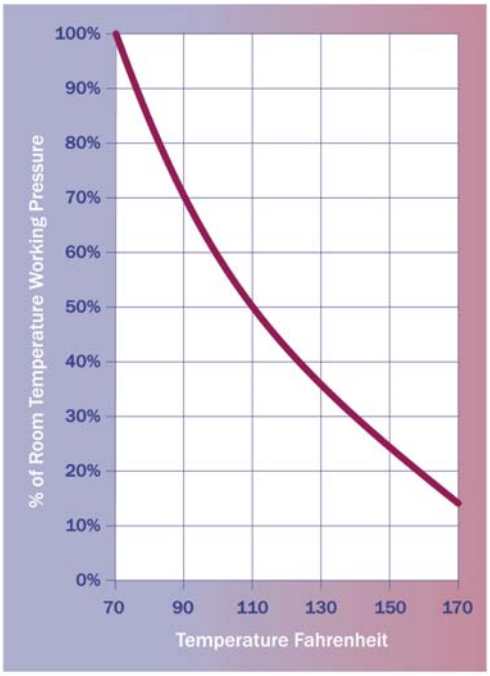
Part Number	Nominal (inches) ID	OD	Max Working Pressure PSI@68°F	PSI@122°F	Reel Length	Approx Wt per CFT.	List Price Per Reel
CBH25-1	1/4	0.438	250	105	100’	5.7 lbs	$ 127.68
CBH38-1	3/8	0.594	225	97	100’	9.0 lbs	177.94
CBH50-1	1/2	0.750	200	86	100’	13.8 lbs	244.32
CBH58-1	5/8	0.875	200	86	100’	16.5 lbs	290.94
CBH75-1	3/4	1.030	150	65	100’	21.9 lbs	366.43
CBH100-1	1	1.300	125	54	100’	31.5 lbs	454.88
CBH100-2	1	1.300	125	54	200’	31.5 lbs	850.25
CBH125-50	1 1/4	1.625	100	43	50’	45.0 lbs	447.99
CBH125-1	1 1/4	1.625	100	43	100’	45.0 lbs	896.01
CBH150-50	1 1/2	1.937	100	43	50’	64.0 lbs	570.01
CBH150-1	1 1/2	1.937	100	43	100’	64.0 lbs	1139.98
CBH200-1	2	2.490	75	33	100’	95.0 lbs	1829.08

** Temperatures higher than 68° F reduce available working pressure. See next page for temperature, working pressure calculation chart and cautionary note.

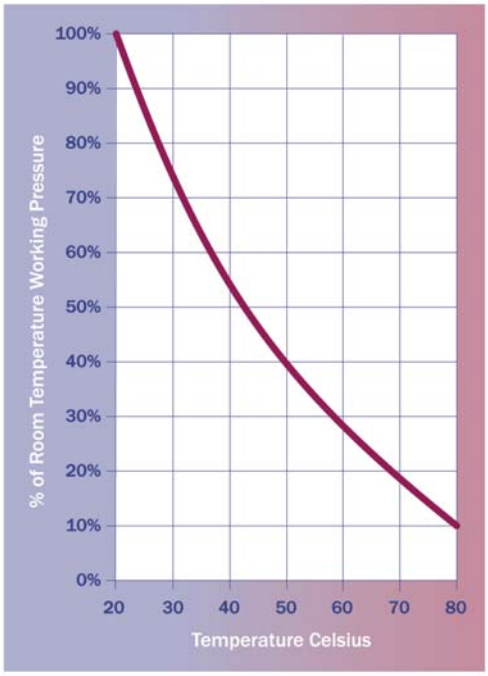
Effects of Elevated Temperatures on Thermoplastic Hose.

The compounds used in clear braided PVC hose are generally referred to as thermoplastics. These materials achieve their optimum physical properties at room temperature, 68ºF (20ºC). As these materials are exposed to increased ambient temperatures, they will soften and their physical properties will change. This will have the effect of sharply reducing the available working pressure. Coupling retention will also be reduced. The charts below illustrate this effect. In all cases, the product should be tested in a controlled, secure and safe environment, and all operating conditions should be considered prior to use.

All published working pressures of AGI Series CBH hose are based on a room temperature of 68ºF (20ºC).



Example from the Fahrenheit Chart
If working pressure at 68ºF is 200 psi, then the WP at 110ºF is 200 x 50%, or 100 psi



Example from the Celsius Chart
If working pressure at 20º is 14 bar, then the WP at 50ºC is 14 x 50%, or 5.6 bar

CAUTIONARY NOTE

The charts are to used as a guideline only. The information and recommendations contained here are, to the best of our manufacturer's knowledge, accurate and reliable, but no guarantee of their accuracy is made. All products are sold upon the condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses, and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Variability in length of exposure, temperature, pressure, velocity of fluid, and chemical concentration all contribute to reduced working pressure and hose reliability.

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AV
Non-Repairable



AV Repairable



AC100



AVCTF1/4x3/8NL

Brady Air Volume Control Features:

- Maintains water flow-stretches pump life.
- Repairable and non-repairable offering.
- Diaphragm-type air volume control maintains correct proportions of air & water in jet systems.
- Die Cast, 96% Zinc. Individually cartoned.
- Available with or without Tapped Gauge Port.
- "E" Series compares to Boshart "AVC" and Merrill "AV" series non-repairable controls.

Air Charger Features:

- For jet systems.
- Positive action control. No flexing diaphragm or metal springs to malfunction.
- Will not corrode in a moist environment.
- Fits all tanks up to and including 82 gallon.
- Available with tube & fittings as an optional extra, specify **AC100TF**. Includes 60" tubing & assortment of special NL brass fittings & adapters, eliminates duplication of inventories with a single kit for all applications.

Universal Air Charger Installation Kit Features:

- Fits all air volume controls.
- Includes 60" polyethylene tubing and assortment of special NL brass fittings and adapters, eliminating duplication of inventories with a single kit for all applications.

Air Volume Control Tank Fitting Features:

- No Lead Brass. Certified Lead Free

Part Number (Tapped)		Tank Capacity	Tank Port	Suction Port	Ctn Qty	Tapped List Price	Standard List Price
Non-repairable *							
AV45E		80	1/4" pipe	7/16"-24 pipe	50		$19.46
AV45		80	1/4" pipe	7/16"-24 pipe	50		57.79
AV45F		80	1/4" pipe	1/8" pipe tap	50		58.68
AV100E		120	3/8" pipe	7/16"-24 pipe	50		18.75
AV100		120	3/8" pipe	7/16"-24 pipe	50		66.92
AV100F		120	3/8" pipe	1/8" pipe tap	50		68.74
Repairable *							
AV30		42	1/4" pipe	7/16"-24 pipe	100		72.80
AV42	AV42T	80	1/4" pipe tap	1/4" pipe tap	50	92.33	92.67
AV80	AV80T	120	1/4" pipe tap	1/4" pipe tap	50	102.32	96.91
AV120	AV120T	220	3/8" pipe tap	1/4" pipe tap	25	135.49	137.32
Repair Kits • Fits all makes of repairable diaphragm type controls							
AV30-3A		For Brady AV30 controls			42		57.63
AV42-3A		For Brady AV42 controls			42		43.38
AV80-3A		For Brady AV80 controls			42		50.72
AV120-3A		For Brady AV120 controls			42		66.44
Plastic Air Charger *							
AC100					30		23.03
CAC100					Bulk Packed		19.67
Air Charger with Tubing and Fittings **							
AC100TFNL		No lead kit			20		38.02
AC100TFBTNL		No lead kit with Black Tubing			20		38.02
Air Charger Installation Kit with Tubing and Fittings **							
UTF1NL		No lead kit			24		22.51
UTF1BTNL		No lead kit with Black Tubing			24		22.51
Air Volume Control Tank Fitting - No Lead Brass							
AVCTF1/4x3/8NL		Air Volume Control Tank Fitting 1/4" MPT x 3/8" FPT			500		6.96

** See page 6.7 for additional lengths of MV4040 1/2" OD x 0.17" ID translucent and black tubing.



HAE1

HARVARD

All Plastic Deep Well Air Release Features:

- Formerly Robert Shaw* AE10
  (*used with permission of Invensys Controls)
- Maintains proper ratio of air to water in submersible water systems.
- All polyethylene construction eliminates corrosion.
- Includes gauge port and 0-40 psi limited bleed adjustment.
- **NO LEAD - Third party certified to NSF/ANSI 372.**
- **Made in USA.**

Formerly Robert Shaw/Invensys

LOW-LEAD IAPMO R&T



BAR125N

Brady Plastic Deep Well Air Release Features:

- Maintains the proper ratio of air to water.
- Constructed of ABS resin grade plastic.
- Non-corrosive, non-conductive and completely serviceable.
- Release mechanism consists of a Buna-N procession ball & 316 stainless steel spring.
- Factory set at 20 P.S.I., adjustable from 0 to 40 P.S.I.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



WJ1NL



HF93B1

Deep Well Air Release Features:

- Maintains proper ratio of air to water in submersible water systems.
- Deluxe deep well air release features ABS float and molded or cast body which prevents galvanic action at pump tank tapping.
- **WJ1NL NO LEAD**
- WJ1NL Imported.

AMETEK U.S. GAUGE DIVISION

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

JOHNSON CONTROLS



SWCL

Shallow Well Control Features:

- Preserves correct proportion of water and air in shallow well reciprocating pump systems.
- **SWCLNL NO LEAD**
- Imported.

AMETEK U.S. GAUGE DIVISION

NO LEAD < 0.25% Pb by weighted average

Part Number	Tapping	Manufacturer	Ctn Qty	List Price
All Plastic Deep Well Air Release				
HAE1	1 1/4"	Harvard (formerly Robert Shaw)	49	$ 45.71
BAR125N	1 1/4"	Brady	50	45.72
Deep Well Air Release				
WJ1NL	1 1/4"	Ametek	20	72.40
HF93B-1	1 1/4"	Johnson	50	47.91
Shallow Well Control				
SWCLNL	1 1/4"	NO LEAD Ametek	20	82.61

American Granby

www.americangranby.com

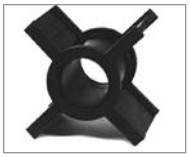
In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (866) 503-5523 Fax (888) 562-2095

Installation Accessories - Submersible



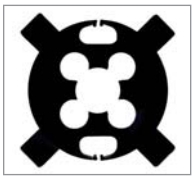
TA48



TA6100



SG Series



MG6



WG Series

All torque arrestors, pump guides, cable guards are third party certified to NSF/ANSI 372.

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

Deluxe Torque Arrestor Features:

- Two piece design, molded from PVC or natural rubber.
- PVC torque arrestor is **40% heavier** than competitors to resist long-term casing abrasion.
- Field adjustable to hold pump centered in well.
- Fits all well casings from 4" to 8" I.D.
- Torque Arrestor is securely fastened to 1" or 1 1/4" drop pipe w/ **2 Ideal all stainless steel** clamps included.
- Available bagged or bulk without clamps.

Spider Style Torque Arrestor Features:

- Spider style molded from natural rubber.
- Installs just above discharge of submersible pump.
- Tabs are easily cut for field alteration.
- 4"-6" casing, 1" center hole.

Natural Rubber Pump Guide Features:

- Installed at the top of the submersible pump discharge.
- Permits the pump to be lowered without damage from abrading against the well casing & ledge while centering the pump in the well.

Cable Guard Features:

- Snap-in and self clamping styles.
- Keeps power cable from abrading against well casing.
- A minimum of three to five should be used; one at the pump, one no further than 15' above the pump, and one between 25' and 30' above the pump.
- Adjustable - use in 4", 5" and 6" wells. Available for 1" or 1 1/4" drop pipe.
- Made of polyethylene and will float.

Part Number	Description		Color	Ctn Qty	List Price
Deluxe PVC Torque Arrestor					
TA48	Bagged, with 2 Ideal all stainless steel clamps		Black	16	$ 14.61
TA48G	Bagged, with 2 Ideal all stainless steel clamps		Green	16	16.32
CTA48	Bulk, no clamps		Black	Bulk	11.92
CTA48G	Bulk, no clamps		Green	Bulk	13.13
Deluxe Rubber Torque Arrestor					
TA48R	Bagged with 2 Ideal all stainless steel clamps		Black	16	16.10
CTA48R	Bulk, No clamps		Black	Bulk	13.93
Spider Style Rubber Torque Arrestor					
TA6100	6x1		Black	50	27.47
Natural Rubber Pump Guides	**Fits Casing ID**	**Guide OD**	**Drop Pipe**		
SG558-5X1	5-5/8"	5"	1"	Bulk	8.99
SG600-55/8X1	6"	5 5/8"	1"	Bulk	10.31
SG600-55/8X11/4	6"	5 5/8"	1 1/4"	Bulk	10.31
SG625-6X1	6 1/4"	6"	1"	Bulk	11.41
SG625-6X2	6 1/4"	6"	2"	Bulk	11.41
Cable Guard					
MG6	With two cable holes, fits 4"-6" casing			100	0.96
WG100	1" Self-clamping style, fits 4"-6" casing			48	2.93
WG125	1 1/4" Self-clamping style, fits 4"-6" casing			48	4.86

Installation Accessories - Submersible



MR Series



P0100



ES1S



CT Series

HARVARD® Submersible Safety Rope Features:

- Custom extruded from tough polypropylene fiber.
- Highly resistant to chafing, abrasion &corrosion.
- Recommended wherever minimum stretch and maximum strength are required.
- Twisted SR25 Series tested in excess of 1,200 lbs.. Braided MR25 Series tested in excess of 1,000 lbs.
- Plastic or wood reels.

Bleeder Orifices Features:

- Provides a fast bleed through its large opening.
- Complete closure prevents loss of pumping volume.
- Full 1" size molded of virgin rubber increases bleed capacity & reduces cost of pipe fitting.
- 3/4" available in brass, NO LEAD brass.
- Bleeder orifice tee available. Includes yellow brass insert tee w/ 1" rubber bleeder orifice.
- **All bleeder orifies are third party certified to NSF/ANSI 372.**

Ejector Screen Features:

- Protects heat pumps against plugged nozzles and clogged venturis.
- Non-corrosive stainless steel screen.
- Installs easily in discharge side of ejector.

Cable Tie Features:

- UL approved, self-clinching nylon fastener.
- Ideal for holding cable to drop pipe, positioning cable guards, etc.
- Withstands -65° to 225°F.
- Packaged in bags of 100.
- Manufactured for AGI in an ISO 9002 facility.

ISO 9002

Part Number	Description	Ctn Qty	List Price
HARVARD® Braided Safety Rope			
MR25-500	Blue/White, 1/4" x 500' Plastic Reel, 1000#	1	$ **40.00**
MR25-1	Blue/White, 1/4" x 1000' Plastic Reel, 1000#	1	**78.04**
MR25-3	Blue/White, 1/4" x 3000' Plastic Reel, 1000#	1	**218.57**
HARVARD® Twisted Safety Rope			
SR25-500	Black, 1/4" x 500' Plastic Reel, 1200#	1	**54.46**
SR25-1	Black, 1/4" x 1000' Plastic Reel, 1200#	1	**93.71**
SR25-3	Black, 1/4" x 3000' Plastic Reel, 1200#	1	305.54
Bleeder Orifices			
P075BNL	3/4" Brass, NO LEAD	25/250	12.97
P0100	1", Rubber	25/100	2.04
BOT100NL	No Lead Brass Insert Tee 1" w/ rubber bleeder orifice	6	39.55
Ejector Screen			
ES1S	Stainless Steel Screen	1	**10.60**
Cable Ties			
CT150	Bag of 100 Nylon, 1" to 1 1/4" diameter pipe, 8" long	1	**7.45** /100
CT300	Bag of 100 Nylon, 1 1/2" to 4" diameter pipe, 15 " long	1	**18.17** /100

American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Pump Installation Fittings - Economy NO LEAD Bronze

Features:

- **Light pattern, NO LEAD** cast bronze insert fittings for use with flexible plastic pipe.
- "E" Series **light pattern, NO LEAD** fittings compete with Merrill.
- **Third party certified to NSF/ANSI 372.**

NSF/ANSI 372

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



ERBMANL



EXLRBMANL



ERBCNL



ERBTNL



ERBENL

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
NO LEAD Cast Bronze Male Insert Adapters (INS x MIP) (Merrill CRBMANL Series)					
ERBMA1/2NL	1/2" x 1/2"	Hex	6	10/200	$ 6.39
ERBMA3/4NL	3/4" x 3/4"	Hex	6	10/100	7.11
ERBMA1NL	1" x 1"	Hex	7	10/100	13.79
ERBMA1X3/4NL	1" x 3/4"	Hex	5	10/100	10.00
ERBMA11/4NL	1 1/4" x 1 1/4"	Hex	6	10/100	16.96
ERBMA11/4X1NL	1 1/4" x 1"	Hex	7	10/100	16.43
ERBMA1X11/4NL	1" x 11/4"	Hex	6	10/100	16.61
ERBMA11/2NL	1 1/2" x 1 1/2"	Hex	6	5/50	22.30
ERBMA2NL	2" x 2"	Hex	7	5/50	28.61
NO LEAD Cast Bronze Extra Long Male Adapters (INS x MIP) (Merrill RBMANLXL Series)					
EXLRBMA1NL	1" x 1"	Hex	13	10/100	22.00
EXLRBMA11/4NL	1 1/4" x 1 1/4"	Hex	13	10/100	27.73
NO LEAD Cast Bronze Couplings (INS x INS) (Merrill RBCPNL Series)					
ERBC1/2NL	1/2" x 1/2"	Hex	4	10/200	7.54
ERBC3/4NL	3/4" x 3/4"	Hex	4	10/200	9.75
ERBC1NL	1" x 1"	Hex	5	12/120	15.54
ERBC11/4NL	1 1/4" x 1 1/4"	Hex	6	12/72	23.07
ERBC11/2NL	1 1/2" x 1 1/2"	Hex	4	5/50	21.86
ERBC2NL	2" x 2"	Hex	4	5050	31.93
NO LEAD Cast Bronze Tees (INS x INS) (Merrill RBHTNL Series)					
ERBT3/4NL	3/4" x 3/4"		5	10/100	17.71
ERBT1NL	1" x 1"		5	10/100	19.61
ERBT11/4NL	1 1/4" x 1 1/4"		6	5/50	43.21
NO LEAD Cast Bronze Elbows (INS x INS) (Merrill RBHENL Series)					
ERBE3/4NL	3/4" x 3/4"		5	10/100	14.11
ERBE1NL	1" x 1"		5	10/100	17.57
ERBE11/4NL	1 1/4" x 1 1/4"		6	10/50	32.75

Pump Installation Adapters - NO LEAD Bronze

Features:

- **Heavy pattern,** contractor grade, NO LEAD cast bronze material.
- 20% to 30% heavier fittings than some competitors.
- **No Lead bronze are third party certified to NSF/ANSI 372.**

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

SEE PAGE 12.4c and 12.4d for a complete line of imported NO LEAD cast bronze insert fittings.

☺ Limited Quantities Available


NLRBMA


NLRRBMA


NLXLRBMA


NLLRBMA


NLRBRA


NLRBMUA


NLRBFA

Part Number	Size	Style	Number of Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Male Insert Adapters (INS x MIP)					
NLRBMA1/2	1/2" x 1/2"	Hex	5	10/200	$ 8.04
NLRBMA3/4	3/4" x 3/4"	Hex	5	10/200	**9.79**
NLRBMA3/4X1	3/4" x 1"	Hex	6	10/100	12.93
NLRBMA1	1" x 1"	Hex	7	10/100	15.64
NLRRBMA1	1" X 1"	Round	6	10/100	16.92
NLRBMA1X3/4	1" x 3/4"	Hex	5	10/100	**12.11**
NLRBMA1X11/4	1" x 11/4"	Hex	6	10/100	**19.57**
NLRBMA11/4	1 1/4" x 1 1/4"	Hex	6	10/100	**21.05**
NLRBMA11/4X1	1 1/4" x 1"	Hex	7	10/100	20.64
NLRBMA11/2	1 1/2" x 1 1/2"	Hex	6	5/50	25.18
NLRBMA11/2X11/4	11/2" x 1 1/4"	Hex	6	10/100	25.20
NLRBMA2	2" x 2"	Hex	7	5/50	**45.86**
No Lead Cast Bronze Long Male Adapters (INS x MIP)					
NLLRBMA1 ☺	1" x 1"	Hex	9	10/100	**18.70**
NLLRBMA1x11/4 ☺	1" x 1 1/4"	Hex	9	10/100	**20.70**
No Lead Cast Bronze Extra Long Male Adapters (INS x MIP)					
NLXLRBMA1	1" x 1"	Hex	12	10/100	22.57
NLXLRBMA1x11/4	1" x 1 1/4"	Hex	12	10/100	23.86
NLXLRBMA11/4	1 1/4" x 1 1/4"	Hex	12	10/100	**30.32**
NLXLRBMA2	2" x 2"	Hex	12	5/50	**53.39**
No Lead Cast Bronze Male Union Adapters (INS x MIP)					
NLRBMUA1	1" x 1"	Hex	6	10/80	28.50
NLRBMUA11/4	1 1/4" x 1 1/4"	Hex	6	10/40	53.75
No Lead Cast Bronze Rope Adapter (INS x MIP)					
NLRBRA1	1" x 1"	Round w/ rope eye	7	10/100	17.93
NLRBRA1X11/4	1" x 1 1/4"	Round w/ rope eye	6	10/100	**22.74**
NLRBRA11/4	1 1/4" x 1 1/4"	Round w/ rope eye	6	10/100	23.39
No Lead Cast Bronze Female Adapters (INS x FIP)					
NLRBFA1/2	1/2" x 1/2"	Round	5	10/200	**11.41**
NLRBFA3/4	3/4" x 3/4"	Round	5	10/100	**13.23**
NLRBFA1	1" x 1"	Round	5	10/100	20.18
NLRBFA11/4	1 1/4" x 1 1/4"	Round	7	10/100	24.39
NLRBFA11/2	1 1/2" x 1 1/2"	Round	6	5/50	**30.18**
NLRBFA2	2" x 2"	Round	7	5/50	**44.82**

American Granby™

www.americangranby.com

In the United States: **Phone (800) 776-2266** **Fax (800) 729-3299**

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Pump Installation Fittings - Cast Stainless Steel

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



SSMA



XLSSMA



SSC Series



SST



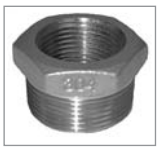
SSE Series



SSHE Series



SSHT Series



SSHB

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
Cast 304 Stainless Steel Male Insert Adapters (MIP xINS)					
SSMA1/2	1/2"	Hex	7	10/100	$ 12.51
SSMA3/4	3/4"	Hex	7	10/200	13.70
SSMA3/4X1	3/4" X 1"	Hex	6	10/200	16.87
SSMA1	1"	Hex	7	10/100	21.73
SSMA11/4	1 1/4"	Hex	7	10/100	24.76
SSMA11/4X1	1 1/4" x 1"	Hex	7	10/100	23.21
SSMA11/2	1 1/2"	Hex	7	5/80	36.64
SSMA2	2"	Hex	7	5/40	54.89
Cast 304 Stainless Steel Heavy Pattern Extra Long Male Adapters (MIPxINS)					
XLSSMA1	1" x 1"	Hex	13	10/100	28.34
XLSSMA11/4X1	1 1/4" x 1"	Hex	13	5/50	33.25
XLSSMA11/4	1 1/4" x 11/4"	Hex	13	5/50	33.91
Cast 304 Stainless Steel Coupling (INS x INS)					
SSC1/2	1/2" x 1/2"	Hex	6	10/200	11.59
SSC3/4	3/4" x 3/4"	Hex	6	10/200	14.10
SSC1	1" x 1"	Hex	5	10/100	18.61
SSC11/4	11/4" x 11/4"	Hex	5	10/100	29.64
SSC11/2	11/2" x 11/2"	Hex	8	10/50	36.40
SSC2	2" x 2"	Hex	8	5/50	49.03
Cast 304 Stainless Steel Tee (INS x INS x INS)					
SST3/4	3/4" x 3/4"		5	5/50	21.41
SST1	1" x 1"		5	10/100	35.22
SST1x3/4	**1" x 3/4"**			**10/100**	**26.75**
SST11/4	1 1/4" x 1 1/4"		5	10/100	46.86
Cast 304 Stainless Steel Elbow (INSxINS)					
SSE3/4	**3/4" X 3/4"**			**10/100**	**14.89**
SSE1	1" x 1"		5	10/100	31.01
SSE1X3/4	**1" X 3/4"**			**10/50**	**32.07**
SSE11/4	1 1/4" x 1 1/4"		7	5/50	41.28
Cast 304 Stainless Steel Hydrant Elbow (INSxMIP)					
SSHE3/4	3/4"x 3/4"		5	10/100	20.94
SSHE1X3/4	1" x 3/4"		5	10/100	23.21
SSHE1	1" x 1"		5	10/100	31.01
SSHE11/4	1 1/4" x 1 1/4"		6	10/50	40.38
Cast 304 Stainless Steel Hydrant Tee (INS x MIP)					
SSHT3/4	3/4" x 3/4"		4	10/100	24.32
SSHT1x3/4	1" x 3/4"		6	10/100	30.41
SSHT1	1" x 1"		4	10/100	33.25
Cast 304 Stainless Steel Hex Bushing (MIPxFIP)					
SSHB3/4X1/4	3/4" x 1/4"	Hex	-	25/500	4.49
SSHB3/4X1/2	3/4" x 1/2"	Hex	-	25/500	3.78
SSHB1X1/4	1" x 1/4"	Hex	-	10/200	7.11
SSHB1X1/2	1" x 1/2"	Hex	-	10/200	7.11
SSHB1X3/4	1" x 3/4"	Hex	-	10/200	6.61
SSHB11/4x1	1 1/4" x 1"	Hex	-	10/160	9.82

Pump Installation Fittings - Swaged Stainless Steel

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

☺ Limited Quantities Available



IMASS Series



SS12 Series

* NO wrench-grip shoulder



SS38 Series

Part Number	Size	Style	# Barbs	Ctn/Case Qty	List Price
Swaged 304 Stainless Steel Male Adapter (MIP x INS)					
IMASS50	1/2"	Round	6	25/200	$ 8.44
IMASS75	3/4"	Round	6	25/150	8.70
IMASS100	1"	Round	7	20/120	14.13
IMASS125	1 1/4"	Round	7	20/80	17.51
IMASS125100	1 1/4 X 1"	Round	7	20/80	19.41
IMASS150	1 1/2"	Round	9	10/60	23.88
IMASS200	2"	Round	9	10/40	33.91
Swaged 316 Stainless Steel Male Insert Adapters (MIPxINS) Made in USA					
SS12-1/2*	1/2"	Round	6	25/300	$ 9.44
SS12-3/4	3/4"	Hex	7	25/200	11.15
SS12-1	1"	Hex	7	20/160	22.95
SS12-11/4	1-1/4"	Hex	6	20/120	28.50
SS12-11/2	1-1/2"	Hex	6	10/60	34.68
Swaged 316 Stainless Steel Male Reducing Adapter (MIP x INS) Made in USA					
SS38-11/4x1	1-1/4 x 1"	Round	7	25/100	26.77
Swaged 316 Stainless Steel Extra Long Male Adapter (MIP x INS) Made in USA					
XSS12-1	1"	Round	14	25	25.11
XSS12-11/4	1 1/4"	Round	14	25	35.89



ICSS Series



SS10 Series

Part Number	Size	Style	# Barbs	Ctn/Case Qty	List Price
Swaged 304 Stainless Steel Coupling (INS x INS)					
ICSS50	1/2"	Round	6	25/200	$ 6.83
ICSS75	3/4"	Round	6	25/150	7.67
ICSS100	1"	Round	7	20/120	14.95
ICSS125	1 1/4"	Round	7	20/80	17.19
ICSS150	1 1/2"	Round	9	10/60	26.56
ICSS200	2"	Round	9	10/40	38.16
Swaged 316 Stainless Steel Coupling (INS x INS) Made in USA					
SS10-1	1"	Round	7	20	19.48
Swaged 316 Stainless Steel Extra Long Coupling (INS x INS) Made in USA					
XSS10-1	1"	Round	14	25	58.90

American Granby™

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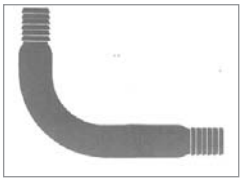
In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

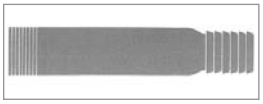
- Well Seal Ells and Venturis are third party certified to NSF/ANSI 372.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

☺ Limited Quantities Available



ISWSE



S86, ISVMA, B86

Part Number	Size	Ctn/CaseQty	List Price
Zinc Plated Steel Well Seal Elbows (INS x INS)			
ISWSE100	1”	25	$ 19.86
ISWSE125	1 1/4”	15	26.91
Zinc Plated Steel Venturi Adapter (MIP x INS)			
ISVMA1X6	1" x 6"	60	7.10
ISVMA1X8	1" x 8"	50	8.33
ISVMA1X10	1" x 10"	40	12.51
ISVMA11/4X6	1-1/4" x 6"	50	9.01
ISVMA11/4X8	1-1/4" x 8"	40	10.97
ISVMA11/4X10	1-1/4" x 10"	30	15.64
Zinc Plated Steel Venturi Adapter (MIP x INS) Made in USA			
S86-3/4X12	3/4 x 12”	25	28.65
S86-1X6	1" x 6"	25	17.58
S86-1X8	1" x 8"	25	21.76
Red Brass Venturi Adapter (MIP x INS) Made in USA			
B86-1X6	1" x 6"	25/100	47.65

Geothermal Installation Accessories



GLLS8

GEOLOOP Leak Seal:

- Preventative maintenance for residential and commercial geothermal systems.
- A blended concentrated material designed to coat all surfaces it comes into contact with and reduce the formation of rust and corrosion.
- Field tested and proven effective in sealing system leaks (holes up to 1/8" in diameter.)
- Do not use if strainer is installed in system.
- Can plug or seal off strainers and gauges. Use with care.

Part Number	Description	Ctn Qty	List Price
GLLS8	GEOLOOP Leak Seal 8 oz. bottle	20	$ 23.68

GEOLOOP Leak Seal Directions:

- Shake well before using.
- Use one 8 oz. bottle per 5 ton (up to 1200 gallons) system for minor leaks. A second bottle can be added for larger leaks.
- Premix with no less than 8-16 oz. of water.
- With circulating pump(s) running in continuous mode or using flushcart, pour or insert mixture into loop and circulate for several hours at low pressure. After introduced to the system, build pressure to 60 psi or higher (not to exceed 160 psi). Circulate for 24 hours. Return system to normal operating pressure thereafter. Check system in one week for pressure drop. Treatment can be repeated if needed.



RBGSE Series

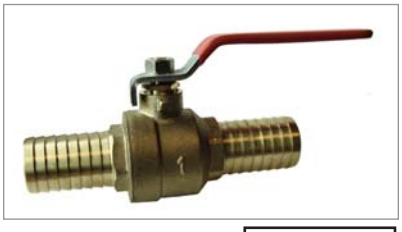
Cast Bronze Ground Source Elbow Features:

- Elbow with 1/4" tapping used to check pressures and temperatures at the geothermal unit.



☺ Limited Quantities Available

Part Number	Size	Ctn/Case Qty	List Price
Cast Bronze Ground Source Elbows (INS x MIP w/ 1/4" tap)			
RBGSE1X3/4 ☺	1" x 3/4"	10/100	11.36
RBGSE1	1" x 1"	10/80	**17.69**
RBGSE11/4	1 1/4" x 1 1/4"	5/50	**27.30**



HFBV6-I Series **ISO 9001**

MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated Brass
Seats	PTFE
Body	Forged Brass
End Adapter	Forged Brass

Forged Brass FULL Port Ball Valve with Hose Barbs Features:



- Heavy pattern, full port, forged brass constuction.
- PTFE seats, chrome plated brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 psi W.O.G.** non-shock; **150 psi S.W.P.**
- Insert hose barb ends for use with polyethylene pipe connections.
- Imported. Manufacturered for American Granby in an ISO 9001 facility.

Part Number	Size	Ctn/Case Qty	List Price
HFBV6-50I	1/2"	50/100	$ 13.90
HFBV6-75I	3/4"	30/60	21.65
HFBV6-100I	1"	20/40	47.19
HFBV6-125I	1-1/4"	12/24	68.07

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Couplings for connecting pipe in submersible pump applications. Ideal for all other threaded applications.



DPC Series



SSDPC Series

DPC Series Features:

NO LEAD ✓ LEAD-FREE

- Available in Schedule 80 or 120
- Machined from custom extruded PVC stock which eliminates weak points that occur in molded couplings.
- Reamed and drifted for easy starting of threads.
- Tapered pipe threads for positive watertight connections.
- Made in U.S.A.

SSDPC Series Features:

LOW-LEAD IAPMO R&T

- Heavy duty, extra heavy wall cast 304 STAINLESS STEEL construction.
- Up to 60% heavier wall than other SS drop pipe couplings available.
- Reamed and drifted for easy starting of threads.
- Tapered pipe threads for positive watertight connections.
- Wrench flats for easy installation.
- **Third party certified to NSF/ANSI 372.**

Part Number	Pipe Size	Overall Length	Ctn Qty	List Price
PVC Schedule 80 - Standard Wall				
80DPC100	1”	2 3/4”	25	$ 2.05
80DPC125	1 1/4”	2 3/4”	25	2.05
PVC Schedule 120 - Extra Heavy Wall				
DPC100	1”	2-3/4”	100	**2.35**
DPC125	1-1/4”	2-3/4”	100	**3.10**
DPC150	1-1/2”	3-3/8”	100	3.83
DPC200	2”	3-3/8”	100	4.78
Cast Stainless Steel 304 - Heavy Duty - Extra Heavy Wall				
SSDPC100	1”	2 1/2”	10 / 60	16.10
SSDPC125	1 1/4”	2 1/2”	8 / 48	18.69
SSDPC150	1 1/2”	2 1/2”	10 / 60	20.79
SSDPC200	2”	2 1/2”	6 / 36	27.89

Couplings - Turned, Tool



Turned Coupling Features:

- Used for suspending flush well points or strainers from drive shoes or tubular cylinders.
- Galvanized with standard pipe thread.
- Furnished with right hand pipe threads.
- Thin wall 434J.
- **Third party certified to NSF/ANSI 372.**

Part Number	Rt. Hand Thread Pipe Size	Well Size	Strainer Size	Coupling O.D.	Coupling Length	Ctn Qty	List Price
434J11/4X11/4	1 1/4 x 1 1/4"	2	1"	1 13/16"	2 1/4"	48	$ 6.48
434-11/4X11/4	1 1/4 X 1 1/4"	2	1 1/4	1 15/16"	2 1/4	48	7.12



Tool Coupling Features:

- Heavy, extra-long black steel coupling recessed for use with well tools and drill rods.
- **Third party certified to NSF/ANSI 372.**

Part Number	Pipe Size	Thread	OD	Length	Ctn Qty	List Price
8049C	1"	1" Tapered	1 5/8"	3 1/2"	24	$ 27.21
8049D	1 1/4"	1 1/4" Straight	2 1/8"	3 3/4"	40	38.45

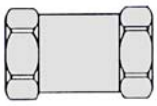
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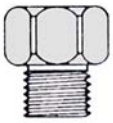
Dole Flow Control Valve Features:

- Prevents over-pumping of low yield wells.
- Installs in the discharge line between check valve and pressure tank.
- Do not use to suspend pipe.
- Self cleaning, designed to deliver constant volume of water over wide pressure drop range.
- Flow rated maintained within +/- 15% up to a pressure drop of 125 psi.
- Maximum system pressure 200 psi.
- Lead Free.

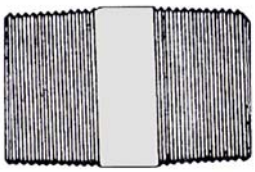
* NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372



GA, GB, GC, GX Series *
3/8" - 1"fipt
Brass Housing/
Nickle Plated

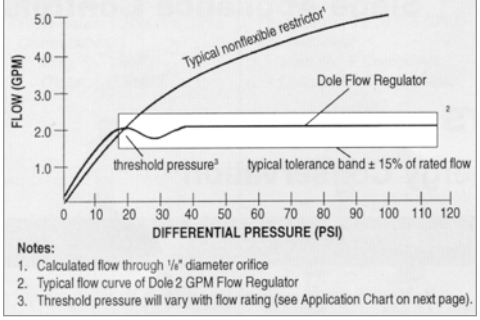


GY Series
3/4 mipt" x 3/4"fipt
Brass Housing/
Nickle Plated



GP GT, GF, GH, GK
Series
1 1/4" - 3" mipt
Steel Housing/
Zinc Plated

Flow Characteristics



Notes:
1. Calculated flow through 1/4" diameter orifice
2. Typical flow curve of Dole 2 GPM Flow Regulator
3. Threshold pressure will vary with flow rating (see Application Chart on next page).

Operating Principle



	NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet	List Price
	Brass Housing/Nickel Plated				
*	GA.06		0.06	3/8" FIPT	$ 33.61
	GA.13	DV.13	0.13	3/8" fipt	33.61
	GA.19	DV.19	0.19	3/8" fipt	33.61
	GA.25	DV2.5	0.25	3/8" fipt	33.61
	GA.35		0.35	3/8" fipt	33.61
	GA.50	DV5	0.50	3/8" fipt	33.61
	GA.75	DV75	0.75	3/8" fipt	33.61
	GA1.0	DV10	1.0	3/8" fipt	33.61
*	GB1.0	DV10-1/2	1.0	1/2" fipt	39.57
	GB1.5	DV15	1.5	1/2" fipt	39.57
	GB2.0	DV20	2.0	1/2" fipt	39.57
	GB2.5	DV25	2.5	1/2" fipt	39.57
	GB3.0	DV30	3.0	1/2" fipt	39.57
	GB3.5	DV35	3.5	1/2" fipt	39.57
	GB4.0	DV40	4.0	1/2" fipt	39.57
	GB5.0	DV50-1/2	5.0	1/2" fipt	39.57
	GB6.0	DV60-1/2	6.0	1/2" fipt	39.57
*	GC1	DV1.0	1.0	3/4" fipt	54.51
	GC1.5		1.5	3/4" fipt	54.51
	GC2.0	DV2.0	2.0	3/4" fipt	54.51
	GC2.5	DV2.5-3/4	2.5	3/4" fipt	54.51
	GC3.0	DV30-3/4	3.0	3/4" fipt	54.51
	GC3.5	DV3.5-3/4	3.5	3/4" fipt	54.51
	GC4.0	DV40-3/4	4.0	3/4" fipt	54.51
	GC5.0	DV50	5.0	3/4" fipt	54.51
	GC6.0	DV60	6.0	3/4" fipt	54.51
	GC7.0	DV70	7.0	3/4" fipt	54.51
	GC8.0	DV80	8.0	3/4" fipt	54.51
	GC9.0	DV90	9.0	3/4" fipt	54.51
	GC10	DV100	10.0	3/4" fipt	54.51
	GC11.5	DV115	11.5	3/4" fipt	54.51
*	GY1.0	DV1-3/4MXF	1.0	3/4"mipt x fipt	69.99
	GY1.5	DV1.5-3/4MXF	1.5	3/4"mipt x fipt	69.99
	GY2.0	DV2-3/4MXF	2.0	3/4"mipt x fipt	69.99
	GY2.5	DV2.5-3/4MXF	2.5	3/4"mipt x fipt	69.99
	GY3.0	DV3-3/4MXF	3.0	3/4"mipt x fipt	69.99
	GY3.5	DV3.5-3/4MXF	3.5	3/4"mipt x fipt	69.99
	GY4.0	DV4-3/4MXF	4.0	3/4"mipt x fipt	69.99
	GY5.0	DV5-3/4MXF	5.0	3/4"mipt x fipt	69.99
	GY6.0	DV6-3/4MXF	6.0	3/4"mipt x fipt	69.99
	GY7.0	DV7-3/4MXF	7.0	3/4"mipt x fipt	69.99

Flow Control Valves - Dole

	NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet	List Price
	GY8.0	DV8-3/4MXF	8.0	3/4"mipt x fipt	$ 69.99
	GY9.0	DV9-3/4MXF	9.0	3/4"mipt x fipt	69.99
	GY10	DV10-3/4MXF	10.0	3/4"mipt x fipt	69.99
	GY11.5		11.5	3/4"mipt x fipt	69.99
*	GX1.0	DV10-1	1.0	1" fipt	82.16
	GX1.5	DV15-1	1.5	1" fipt	82.16
	GX2.0	DV20-1	2.0	1" fipt	82.16
	GX2.5	DV25-1	2.5	1" fipt	82.16
	GX3.0	DV30-1	3.0	1" fipt	82.16
	GX3.5	DV35-1	3.5	1" fipt	82.16
	GX4.0	DV40-1	4.0	1" fipt	82.16
	GX5.0	DV50-1	5.0	1" fipt	82.16
	GX6.0	DV60-1	6.0	1" fipt	82.16
	GX7.0	DV70-1	7.0	1" fpt	82.16
	GX8.0	DV80-1	8.0	1" fpt	82.16
	GX9.0	DV90-1	9.0	1" fpt	82.16
	GX10	DV100-1	10.0	1" fipt	82.16
	GX12	DV120	12.0	1" fipt	82.16
	GX13.5	DV135-1	13.5	1" fipt	82.16
	GX15	DV150	15.0	1" fipt	82.16
	GX20	DV200	20.0	1" fipt	82.16
	GX25	DV250	25.0	1" fipt	82.16
	GX30	DV300	30.0	1" fipt	82.16
	Steel Housing/Zinc Plated				
*	GP1.0	DV1.0-11/4	1.0	1 1/4" mipt	185.59
	GP2.0		2.0	1 1/4" mipt	185.59
	GP2.5		2.5	1 1/4" mipt	185.59
	GP3.0		3.0	1 1/4" mipt	185.59
	GP3.5		3.5	1 1/4" mipt	185.59
	GP4.0		4.0	1 1/4" mipt	185.59
	GP5.0		5.0	1 1/4" mipt	185.59
	GP6.0		6.0	1 1/4" mipt	185.59
	GP7.0	DV75-11/4	7.0	1 1/4" mipt	185.59
	GP8.0		8.0	1 1/4" mipt	185.59
	GP9.0		9.0	1 1/4" mipt	185.59
	GP10	DV10-11/4	10.0	1 1/4" mipt	185.59
	GP12	DV12-11/4	12.0	1 1/4" mipt	185.59
	GP15	DV15-11/4	15.0	1 1/4" mipt	185.59
	GP20	DV20-11/4	20.0	1 1/4" mipt	185.59
	GP25	DV25-11/4	25.0	1 1/4" mipt	185.59
	GP30	DV30-11/4	30.0	1 1/4" mipt	185.59
	GT1.0		1.0	1 1/2" mipt	249.08
*	GT1.5		1.5	1 1/2" mipt	249.08
	GT2.0	DV2-11/2	2.0	1 1/2" mipt	249.08
	GT2.5		2.5	1 1/2" mipt	249.08
	GT3.0		3.0	1 1/2" mipt	249.08
	GT3.5		3.5	1 1/2" mipt	249.08
	GT4.0		4.0	1 1/2" mipt	249.08
	GT5.0	DV5-11/2	5.0	1 1/2" mipt	249.08

	NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet	List Price
	Steel Housing/Zinc Plated				
	GT6.0		6.0	1 1/2" mipt	$ 249.08
	GT7.0	DV7-11/2	7.0	1 1/2" mipt	249.08
	GT8.0		8.0	1 1/2" mipt	249.08
	GT9.0	DV9-11/2	9.0	1 1/2" mipt	249.08
	GT10	DV10-11/2	10.0	1 1/2" mipt	249.08
	GT12		12.0	1 1/2" mipt	249.08
	GT13.5		13.5	1 1/2" mipt	249.08
	GT15	DV15-11/2	15.0	1 1/2" mipt	249.08
	GT20	DV20-11/2	20.0	1 1/2" mipt	249.08
	GT25	DV25-11/2	25.0	1 1/2" mipt	249.08
	GT30	DV30-11/2	30.0	1 1/2" mipt	249.08
*	GF10	DV10-2	10.0	2" mipt	309.58
	GF12	DV12-2	12.0	2" mipt	309.58
	GF15		15.0	2" mipt	309.58
	GF20	DV20-2	20.0	2" mipt	309.58
	GF25		25.0	2" mipt	309.58
	GF30	DV30-2	30.0	2" mipt	309.58
*	GH30		30.0	2-1/2" mipt	606.68
	GH35	DV350	35.0	2-1/2" mipt	606.68
	GH40	DV400	40.0	2-1/2" mipt	606.68
	GH45	DV450	45.0	2-1/2" mipt	606.68
	GH50	DV500	50.0	2-1/2" mipt	606.68
	GH55	DV550	55.0	2 1/2" mipt	606.68
	GH60	DV600	60.0	2-1/2" mipt	606.68
	GH65	DV650	65.0	2-1/2" mipt	606.68
	GH70	DV700	70.0	2-1/2" mipt	606.68
	GH75	DV750	75.0	2-1/2" mipt	606.68
	GH80	DV800	80.0	2-1/2" mipt	606.68
	GH85		85.0	2-1/2" mipt	606.68
	GH90	DV900	90.0	2 1/2" mipt	606.68
	GK30		30.0	3" mipt	636.65
	GK35	DV3500	35.0	3" mipt	636.65
	GK40	DV4000	40.0	3" mipt	636.65
	GK45	DV4500	45.0	3" mipt	636.65
	GK50		50.0	3" mipt	636.65
	GK55	DV5500	55.0	3" mipt	636.65
	GK60		60.0	3" mipt	636.65
	GK65	DV6500	65.0	3" mipt	636.65
	GK70		70.0	3" mipt	636.65
	GK75		75.0	3" mipt	636.65
	GK80		80.0	3" mipt	636.65
	GK85	DV8500	85.0	3" mipt	636.65
	GK90		90.0	3" mipt	636.65
	GK95		95.0	3" mipt	636.65
	GK100	DV1000	100.0	3" mipt	636.65
	GK105		105.0	3" mipt	636.65
	GK110		110.0	3" mipt	636.65
	GK115		115.0	3" mipt	636.65
	GK120	DV1200	120.0	3" mipt	636.65

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HS Series



EC Series

Heat Shrink Splicing Kit Features:

- Excellent dielectric strength and can be shrunk over a large diameter connector and still effectively seals watertight down to a small diameter cable.
- Available in two, three and four wire kits. Designed to fit the new, smaller O.D. pump leads.
- No grease tape or epoxy is needed.
- Highly resistant to moisture, fungus and weathering.
- Supplied w/ EC1410 wire connectors for #14-#10 gauge wire. (EC6/8 for LHS Series.)
- Private labeling available for minimum orders of 200 kits.
- Bulk tubing available.
- **Third party certified to NSF/ANSI 372.**

Wire Connector Features:

- Provides quick, safe and sure electrical connection.
- Seamless.
- 13/16" in length.

Part Number	Tubes Fits Wire Size	# Tubes	# Butt Connectors (included in kit)	Ctn Qty	List Price
Black Heavy Wall Heat Shrink Kits					
HS2	#14, #12, #10	2	2	50	$ 2.86
HS3	#14, #12, #10	3	3	50	4.07
HS3-4	#14, #12, #10	3	4	50	4.21
HS4	#14, #12, #10	4	4	50	**4.60**
LHS3	#8, #6, #4, #2	3	3 (#8) 3 (#6)	20	11.70
LHS4	#8, #6, #4, #2	4	4 (#8) 4 (#6)	20	15.42
CHST	#14, #12, #10	BULK	0	500	0.99
Black Standard Wall Heat Shrink Kits					
HSSW2	#14, #12, #10	2	2	50	2.17
HSSW2-3	#14, #12, #10	2	3	50	2.31
HSSW3	#14, #12, #10	3	3	50	3.09
HSSW3-4	#14, #12, #10	3	4	50	3.24
HSSW4	#14, #12, #10	4	4	50	3.98
CHSSWT	#14, #12, #10	BULK	0	500	0.73
Clear Heavy Wall Heat Shrink Kits					
HSHWC2	#14, #12, #10	2	2	50	2.79
HSHWC2-3	#14, #12, #10	2	3	50	3.38
HSHWC3	#14, #12, #10	3	3	50	3.96
HSHWC3-4	#14, #12, #10	3	4	50	4.04
HSHWC4	#14, #12, #10	4	4	50	5.04
LHSHWC3	#8, #6, #4, #2	3	3 (#8) 3 (#6)	20	11.70
LHSHWC4	#8, #6, #4, #2	4	4 (#8) 4 (#6)	20	16.56
CHSHWCT	#14, #12, #10	BULK	0	500	0.89
Clear Standard Wall Heat Shrink Kits					
HSCL2	#14, #12, #10	2	2	50	2.43
HSCL3	#14, #12, #10	3	3	50	3.54
HSCL3-4	#14, #12, #10	3	4	50	3.75
HSCL4	#14, #12, #10	4	4	50	4.71
CHSCLT	#14, #12, #10	BULK	0	500	0.77
Wire Connectors					
EC1410	For #14-10 gauge wire			100	**30.00/100**
EC8	For #8 gauge wire			250	**0.68** each
EC6	For #6 gauge wire			250	**1.07** each
EC4	For #4 gauge wire			100	**1.75** each
EC2	For #2 gauge wire			100	**2.36** each

Installation Accessories - Electrical



SK Series

Compression Splicing Kit Features:

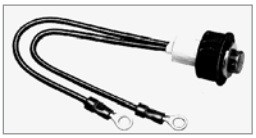
- Molded from high impact resistant polycarbonate.
- No water absorption characteristics.
- Excellent dielectric properties.
- Available in two, three and four wire kits.
- Supplied with EC1410 wire connectors for #14-#10 gauge wire.
- Third party certified to NSF/ANSI 372.



LA302R

LA300 Series Lightning Arrestor Features:

- LA302 Rated 125-250V, single phase, 3 wire Light Duty service.
- Maximum Current: 60,000 amps on LA302.
- Maximum Energy per pole: 2000 joules on LA302.
- Unlimited number of surges.
- N-4 Weatherproof enclosure.
- Use with 1/2" or 3/4" locknut for knock-out installation.
- ETL Listed



HPL

Pump Light Features:

- Can be used with two or three wire motors in either 115 volt or 230 volt applications.
- It is easy to install at the pressure switch, where it is used to indicate that the pump is running or at the control box, where it is used to indicate that current is available to the submersible pump.

Part Number	Description	# Tubes	# Connectors	Ctn Qty	List Price
Compression Splice Kits					
SK2	#14, #12, #10	2	2	50	$ 4.90
SK3	#14, #12, #10	3	3	50	7.23
SK4	#14, #12, #10	4	4	50	9.41
Lightning Arrestors					
LA302R	125/250 V, Single phase, 3 wire, 2 1/4" x 2 1/4"			18	105.68
Pump Light					
HPL75	Pump Light			12	19.80

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



PTC163-6ST



PTC163-6RA



PTC143-6RA220

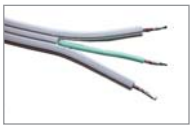
HARVARD CONTRACTOR'S
Power Cord Features:

- Three prong straight (115V) or right angle (115V, 220V) molded plugs.
- 16 gauge, 3 conductor, 13 amp, 125 Volt rating.
- 14 gauge, 3 conductor, 15 amp, 250 Volt rating.
- Six foot cord length.
- Free end is split, stripped 3/8".
- UL and CSA listed in US and Canada.









Part Number	Description	Wire Gauge	Volt Rating	Ctn Qty	List Price
PTC163-6ST	Straight plug cord	16	125 V	50	$ **13.61**
PTC163-6RA	Right angle plug cord	16	125 V	50	**13.61**
PTC143-6RA220	Right angle plug cord	14	250 V	50	**19.46**



HARVARD CONTRACTOR'S
Anchor Kit Features:

- Anchor kits complete with 100 plastic anchors, 100 screws and 1/4" masonry drill bit in a plastic case.
- Plastic gray ribbed anchors with lip design for electronic timer, pump start relay installations. Use with concrete block, brick and wallboard.
- Anchors have internal ribs for better centering of screws, locking lugs against pull and twist. Exterior design prevents fall out in overhead holes.
- Kit available with combination slotted/phillips head or tri-combination, slotted/phillips/hex head #10 x 1" screws.
- Kits complete with 1/4" x 4" masonry drill bit.
- Clear, unbreakable plastic case with molded-in hanging tab.



Combo Head

Tri Combo Head



Part Number	Description	Ctn Qty	List Price
AK10CSPR	Ribbed Combo Head	36	$17.04
AK10TCR	Ribbed Tri Combo Head	36	17.50



WCS1022

HARVARD CONTRACTOR'S Wire Cutter/Strippers

Features:

- Combination wire cutter and stripper.
- Strips wire sizes 22-10 AWG.
- Heavy duty scissor opening spring.
- Cushioned plastic grips.
- Easy locking thumb lock.

Part Number	Description	Ctn Qty	List Price
WCS1022	Wire Cutter/Stripper	100	$ 19.53

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Imported Pressure Switch Features:

- Designed for the control of electrically driven water pumps.
- Suitable for all types of pumps: jet, submersible, reciprocating, etc.
- Diaphragm actuated.
- 1/4" FPT connection.
- Standard, manual and low pressure cut-off available.
- Terminal and ground screws are combination slotted, phillips heads.
- Captive cover thumb screw.
- Black plastic NEMA 1 general purpose enclosure.
- UL, CSA listed US and Canada, CE certifited.
- **Individually boxed.** Bulk packaging available on standard switch only.
- **Third party certified to NSF/ANSI 372.**

c UL us LISTED

C SA US

CE

Pb NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



Part Number	Description	Cut-In/Cut-off	Package	Case Qty	List Price
PS2040	Standard Switch	20/40	Individual Ctn	50	$ 19.70
PS3050	Standard Switch	30/50	Individual Ctn	50	19.70
PS4060	Standard Switch	40/60	Individual Ctn	50	19.70
CPS2040	Standard Switch	20/40	Bulk Packed	50	19.45
CPS3050	Standard Switch	30/50	Bulk Packed	50	19.45
CPS4060	Standard Switch	40/60	Bulk Packed	50	19.45
PS3050M1	**Manual Cut-off**	**30/50**	**Individual Ctn**	**50**	**23.18**
PS4060M1	**Manual Cut-off**	**40/60**	**Individual Ctn**	**50**	**23.18**
PS2040M4	Low Pressure Cut-off	20/40	Individual Ctn	50	21.61
PS3050M4	Low Pressure Cut-off	30/50	Individual Ctn	50	21.61
PS4060M4	Low Pressure Cut-off	40/60	Individual Ctn	50	21.61

NEW

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ISO 9001

Square D Pressure Switch Features:

- Designed for the control of electrically driven water pumps.
- Diaphragm actuated.
- Differential increases with range.
- Contacts open on increased pressure.
- General purpose enclosure NEMA Type 1
- **Individually boxed.** Bulk packaging available upon request.
- Manufactured for AGI in an ISO 9001 facility.
- **Third party certified to NSF/ANSI 372.**

SQUARE D

Certified to NSF/ANSI 61

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

Part Number	Description/Special Features	Ctn Qty	List Price	Drop Ship Price (200 pc)
9013FSG2 20/40	Standard Pump Switch	50	$ 40.21	
9013FSG2 30/50	Standard Pump Switch	50	40.21	
9013FSG2 40/60	Standard Pump Switch	50	40.21	
9013FSG2M4 20/40	Low Pressure Cutoff	40	53.30	
9013FSG2M4 30/50	Low Pressure Cutoff	40	53.30	
9013FSG2M4 40/60	Low Pressure Cutoff	40	53.30	
9013FSG2M1 20/40	Manual Cutoff Lever	1	47.79	
9013FSG2M1 30/50	Manual Cutoff Lever	1	47.79	
9013FSG2M1 40/60	Manual Cutoff Lever	1	47.79	
9013FSG2P 20/40	with Pulsation Plug	1	41.44	Contact
9013FSG2P 30/50	with Pulsation Plug	1	41.44	your
9013FSG2P 40/60	with Pulsation Plug	1	41.44	Salesperson
				or
9013FSG9 20/40	1/4 mpt Connection	1	40.21	Cust. Service
9013FSG9 30/50	1/4 mpt Connection	1	40.21	For
9013FSG9 40/60	1/4 mpt Connection	1	40.21	Pricing
9013FYG2 30/50	Medium Duty Pump Switch	1	59.29	
9013FYG2 40/60	Medium Duty Pump Switch	1	59.29	
9013FYG2 60/80	Medium Duty Pump Switch	1	59.29	
9013GHG2 60/80	Heavy Duty Pump Switch	1	140.89	
9013GHG2 80/100	Heavy Duty Pump Switch	1	140.89	
9013GHG2 120/150	Heavy Duty Pump Switch	1	140.89	
9013GHG2 145/175	Heavy Duty Pump Switch	1	140.89	
9013GSG2 20/40	Heavy Duty Pump Switch	1	140.89	
9013GSG2 30/50	Heavy Duty Pump Switch	1	140.89	
9013GSG2 40/60	Heavy Duty Pump Switch	1	140.89	
9013GSG2 60/80	Heavy Duty Pump Switch	1	140.89	
Pulsation Plug	Pulsation Plug (Packaged in bags of 50)	1	2.38 each	

SEE CATALOG PAGE 5.8 for FLOAT SWITCHES.

- Other 9013 class Square D switches available on a special order basis. Allow 3 weeks for delivery.
- Drop ship pricing available, contact your salesperson or Customer Service.
- Net 30 day terms apply on all drop ship orders.

Pressure Switches - Square D

SPECIFICATIONS

General Purpose Enclosure NEMA Type 1		Application		Pipe Connection
Product No.	Special Feature			
9013FSG9	1/4" MPT Conection	Domestic Water Pumps	Domestic Water Pumps	1/4"– 18 NPT
9013FYG2	High H.P. 80 PSI range			
9013FSG2	Standard Pump Switch			
9013FSG2P	Pulsation Plug			
9013FSG2M1	Manual Cutout Lever			
9013FSG2M4	Low Pressure Cutoff			
9013GSG2	Heavy Duty Pump Switch	Air Compressors Lg.Water Pumps	Water or Air	1/4"– 18 NPT Internal Thread
9013GHG2	Heavy Duty Pump Switch			

Horsepower Chart
General Purpose Enclosure

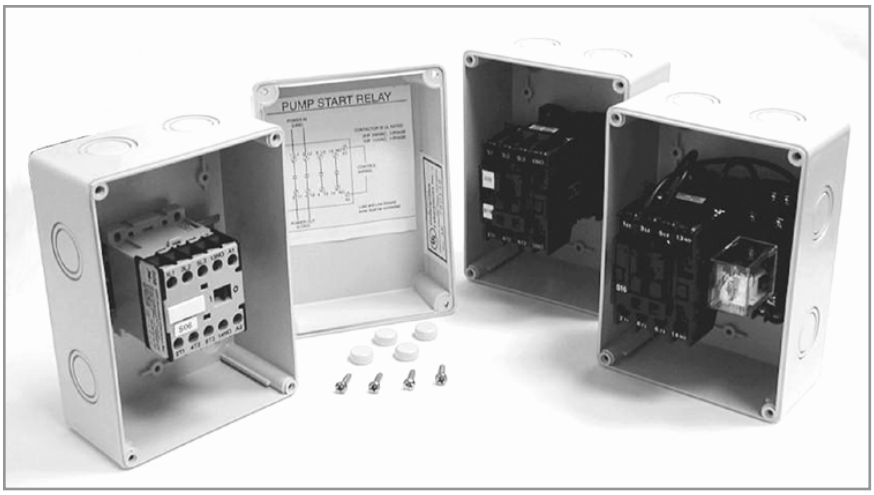
		Cut-out	Diff	Single Phase		Polyphase AC			Direct Current		
Product No.	Poles	PSI	PSIG	110V	220V	220V	440V	550V	32V	115V	230V
9013FSG9	2	20-65	15-30	1	11/2	2			1/4		
9013FYG2	2	25-80	20-30	11/2	2	3			1/4	1/2	1/2
9013FSG2	2	20-65	15-30	11/2	2	2			1/4		
9013FSG2P	2	20-65	15-30	11/2	2	2			1/4		
9013FSG2M1	2	20-65	15-30	11/2	2	2			1/4		
9013FSG2M4	2	20-65	15-30	11/2	2	2			1/4		
9013GSG2	2	20-80	12-36	2	3	5	5	5	1/2	1	1
9013GHG2	2	65-200	25-60	2	3	5	5	5	1/2	1	1

Pressure Code Table

Code	Setting PSI (Close-Open)
J15	5-21
J16	8-20
J18	20-50
J20	20-40
J21	30-50
J23	40-20
J24	40-60
J25	60-80
J26	70-90
J28	70-100
J29	75-100
J31	90-120
J33	50-70
J34	55-85
J51	100-80
J57	120-150
J63	145-175

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Pump Start Relays / Magnetic Contactors



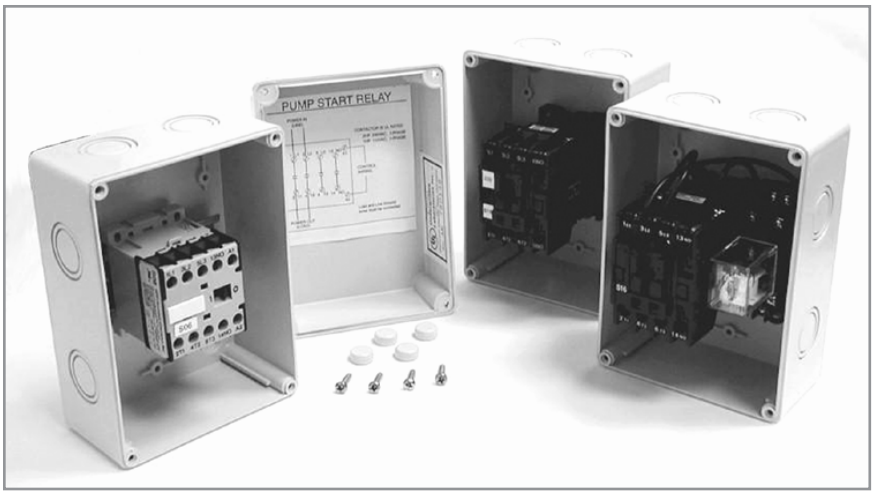
Pump Start Relay / Magnetic Contactor Features:

- Contactors are UL and UL Canada rated.
- Wide coil operating range, +10% to -30% of rated 60 hz coil voltage.
  Contactors will start on low voltage as follows:
  Single phase: 24 VAC coil will pull in at 17 volts.
  120 VAC coil will pull in at 84 volts.
  230 VAC coil will pull in at 161 volts.
- Finger safe design.
- One normally open auxilliary contact for powering a pilot light or alarm.
- Pressure screw terminals accept 18 through 10 AWG wire.
- Interposing relay units accept 24 through 10 AWG wire.
- Mechanical life up to 10 million operations.
- Long electrical life.
- PSR567 Series with interposing relay designed for low voltage and low controller output.

Industrial Non-metallic Enclosure Features:

- Gray enclosures are UL, CSA listed.
- Rated NEMA 4X for indoor or outdoor use.
- To maintain 4X enclosure rating use required 4X connectors.
- Watertight, dust tight, oil tight and rain tight.
- High impact, durable insulated Noryl thermoplastic.
- Neoprene gasketed cover.
- Resistant to shock, corrosion, chemicals and atmospheric agents.
- 8 conduit knockouts (1/2”, 3/4” NPT combination.)
- Service temperature -40° to 260°F.
- Stainless steel cover screws (max tightening torque: 7 in-lbs.)
- Sealing plugs provided to waterproof mounting screws.
- 5.9” H x 4.3” W x 3.9” D

Pump Start Relays / Magnetic Contactors



Part Number	INPUT- PUMP START RELAY Volts VAC	Req'd Coil Power Close	Hold	CONTACTOR Coil Voltage	PUMP MOTOR HP (MAX) Single Phase* 120 v	230 v	Three Phase ** 200/230v	460 v	LIST PRICE
Direct Control Style Contactor									
PSR123-24	24	26 VA	4.2 VA	24	1 HP	2 HP	3 HP	5 HP	$ 132.03
PSR123-120	120	26 VA	4.2 VA	120	1 HP	2 HP	3 HP	5 HP	132.03
PSR123-230	230	26 VA	4.2 VA	230	1 HP	2 HP	3 HP	5 HP	132.03
Direct Control Style Contactor									
PSR575-24	24	70 VA	12 VA	24	2 HP	5 HP	7.5 HP	15 HP	183.26
PSR575-120	120	70 VA	12 VA	120	2 HP	5 HP	7.5 HP	15 HP	183.26
PSR575-230	230	70 VA	12 VA	230	2 HP	5 HP	7.5 HP	15 HP	183.26
Interposing Relay Style Contactor for low voltage/controller output applications.									
PSR576-230-24	24	1.2 VA	1.2 VA	260	-	5 HP	7.5 HP	-	334.26

Notes:

1. Direct Control Style: The **input volts** must match the controller output voltage.
   The **contactor coil voltage** must match the controller voltage.
2. Interposing Relay Style: The **input volts** must match the controller output voltage.
   The **contactor coil voltage** must match the controller voltage.
3. VA=Volt Amps. To determine the operating amperage needed by the coil, divide the VA by the controller output voltage.

* Single Phase systems require **motor overload protection** within the motor.

** Three phase systems: May require **motor overload protection** within the motor. For proper **overload protection** consult the NEC (National Electrical Code) and local building codes before installation.

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Liquid Level Control

Liquid Level Control Features:

- Provides automatic low level cutoff protection for submersible pumps & deep well turbines.
- Liquid level submersible pump control system consists of a standard enclosed type induction relay which operates from two insulated electrodes suspended at desired levels.
- Permits efficient operation at full capacity and eliminates danger of pumping air or sand.
- Wiring diagrams and complete installation instruction are included with each control.

1500G SERIES INDUCTION RELAY:

- Two way control system for pump up or pump down.
- Rated at 1 hp single phase, 115 or 230 volts A.C.
- For use in controlling hydropneumatic tanks and motorized valve installations.

1500C and 1500D SERIES INDUCTIONRELAY:

- Rated at 1 h.p. single phase, 110 or 220 volts and furnished in a NEMA 1 metal enclosure.
- For control of a larger motor, it can also be supplied in a common enclosure with an auxiliary relay without overload protection or with a magnetic starter that has overload protection.
- 1500C Series for sewage & sump pump, low level cutoff for submersible pump application.
- 1500D Series for supply pumps on elevated tanks &towers, high level cutoff for pumps & valves.



Electrode

6013 SERIES ELECTRODES:

* NO LEAD ✓ LEAD-FREE

- Made of brass or 303 stainless steel.
- 2" long.
- Assembled in molded plastic insulating shield 9/16" in diameter.
- Use in submersible pump installations by suspending to desired length w/ suspension wire.

NEW Part Number	OLD Part Number	Description	Volts	Ctn Qty	List Price
1500G-L1-S7-N1X	DH110-220	Pump-up/Pump-down	110/220 volts	1	$ 777.96
1500G-L1-S8-N1X	DH110-360	Pump-up/Pump-down	110/360 volts	1	777.96
1500G-L2-S7-N1X	DH220-220	Pump-up/Pump-down	220/220 volts	1	777.96
1500G-L2-S8-N1X	DH220-360	Pump-up/Pump-down	220/360 volts	1	777.96
1500G-L3-S8-N1X	DH440-360	Pump-up/Pump-down	440/360 volts	1	777.96
1500C-L1-S4-N1X	LH110-110	Pump-down	110/120 volts	1	709.71
1500C-L1-S7-N1X	LH110-220	Pump-down	110/220 volts	1	709.71
1500C-L1-S8-N1X	LH110-360	Pump-down	110/360 volts	1	709.71
1500C-L2-S7-N1X	LH220-220	Pump-down	220/220 volts	1	709.71
1500C-L2-S8-N1X	LH230-360	Pump-down	230/360 volts	1	709.71
1500D-L1-S7-N1X	RH110-220	Pump-up	110/220 volts	1	709.71
1500D-L1-S8-N1X	RH110-360	Pump-up	110/360 volts	1	709.71
1500D-L2-S7-N1X	RH220-220	Pump-up	220/220 volts	1	709.71
Electrodes					
6013-W6	E1S	Stainless Steel *		1	92.31
6013-W5	E1SB	Brass		1	83.87

Induction Relay Coil Selection Data

B/W Controls

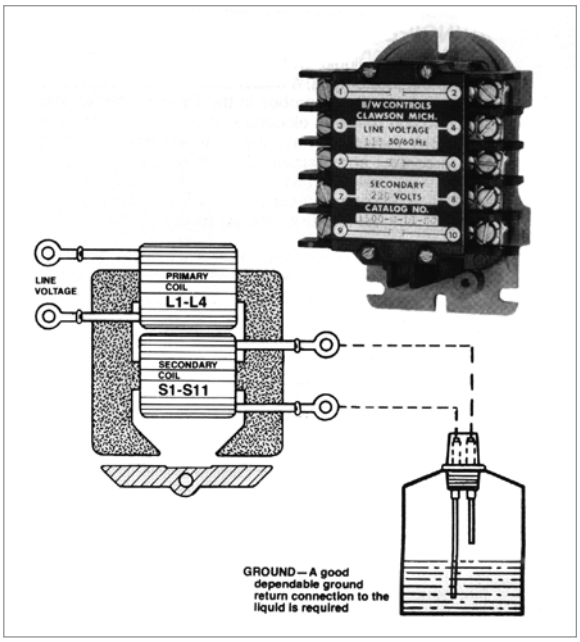
Primary Coil:

The primary coil voltage should be chosen to match the line voltage of the control system. The 1500 Series Induction Relay can be supplied with any of the following line voltages.

Line Voltage	Frequency (Hertz)	Max Amps (Secondary Shorted)
110-120	50-60	.075
208-240	50-60	.038
440-480	50-60	.019

Secondary Coil:

Since B/W level control systems use liquid as an electrical conductor to complete the relay's secondary circuit - and since the resistance of liquid varies, it is necessary that each induction relay be equipped with a secondary coil that will operate over the resistance of the liquid it controls. The table below lists the operating characteristics of various coils available. All values are based on line voltage of 115, 230, 460 volts at 60 hertz.



Typical Liquids:

The following recommendations are satisfactory for general use, but because the conductivity of liquids varies greatly with concentration, purity, temperature and other factors, some applications may require a different selection. A number of the products listed are produced as solids such as crystals or powders, and the relay selection is based on the normally used commercial solutions of these materials.

Liquid Description	Secondary Coil
Acetic Acid - up to 75%	90 volt
- 75 - 90%	220 volt
Acids - General	40 or 90 volt
Alkalies - General	40 or 90 volt
Alum Solutions	220 volt
Aluminum Sulphate	90 volt
Aluminum Hydroxide	90 volt
Amino Acids	90 volt
Ammonium Chloride	40 volt
Ammonium Hydroxide (Ammonia)	220 volt
Ammonium Sulphate	220 volt
Baby foods	90 volt
Barium Chloride	40 volt
Barium Nitrate	40 volt
Beer	90 volt
Black liquor	40 volt
Blood	220 volt
Borax - up to 10%	220 volt
- Greater than 10%	90 volt
Bread dough	90 volt
Buttermilk	24 or 40 volt
Cadmium Chloride	40 volt
Cake batter	220 volt
Calcium Chloride	40 volt
Calcium Hydroxide	220 volt

Liquid Description	Secondary Coil
Carbolic Acid - up to 90%	220 volt
Catsup	90 volt
Caustic Soda (Sodium Hydroxide)	40 volt
Cement slurry	220 volt
Chromic acid	40 volt
Citric acid	40 or 90 volt
Coffee	90 volt
Condensate - ordinary water	480 volt
Corn syrup	480 volt
Corn - cream style	90 volt
Ferrous Sulphate	220 volt
Formic acid - up to 75%	90 volt
- 75 to 90%	220 volt
Hydrofluoric acid - up to 20%	220 volt
- above 20%	40 volt
Hydrofluorsilicic acid	90 volt
Jams & jellies	360 volt
Juices - fruit & vegetable	40 or 90 volt
Lithium Chloride	40 volt
Magnesium Hydroxide	90 volt
Mayonnaise	220 volt
Milk	40 volt
Molasses	220 volt
Muriatic acid	40 volt
Mustard	40 volt

Liquid Description	Secondary Coil
Nitric acid	40 or 90 volt
Orange juice	90 volt
Paper stock	220 volt
Penicillin	220 volt
Phosphoric acid	40 volt
Plating solutions	40 or 90 volt
Salts - chemical	40 or 90 volt
Sodium Carbonate (soda ash)	90 volt
Sodium Chloride (table salt)	40 volt
Sodium Hydroxide (caustic soda)	40 volt
Sodium Hypochlorate	40 volt
Sodium Silicate (water glass)	90 volt
Soups	40 volt
Starch solutions	220 volt
Sugar - low concentrations	220 volt
- high concentrations	360 volt
Vinegar	90 volt
Water - Sea	40 volt
- Ordinary potable	220 volt
- ordinary soft	360 volt
- Ordinary condensate	480 volt
Zinc Chloride	40 volt

NOTE: Maximum distance limitations for typical induction relay secondary circuits are: 220 secondary - 900 feet, 360 secondary - 350 ft, 480 secondary - 250 ft.

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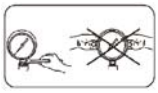


Pressure Gauge

ISO 9001

Pressure Gauge Features:

- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- **TO BE USED WITH AIR OR WATER ONLY.**
- Manufactured for AGI in an ISO 9001 facility.



CAUTION

POLYPROPYLENE CASE:

- Bourdon tube movement is totally enclosed in corrosion resistant polypropylene housing, acrylic lens.
- Resists rust, electrolytic action and chemical solvents.
- Brass sockets standard.

STEEL CASE:

- Deep drawn one piece steel housing encases a quality movement.
- Genuine mar-resistant glass lens and brass socket connections are standard.

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov



This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, PLASTIC CASE, DRY							
IPPG302-4L	Plastic	0-30#	Pressure	2"	1/4 Lower	100	$ 6.64
IPPG302-4B	Plastic	0-30#	Pressure	2"	1/4 Back	100	6.64
IPPG602-4L	Plastic	0-60#	Pressure	2"	1/4 Lower	100	6.64
IPPG602-4B	Plastic	0-60#	Pressure	2"	1/4 Back	100	6.64
IPPG1002-4L	Plastic	0-100#	Pressure	2"	1/4 Lower	100	6.64
IPVG302-4L	Plastic	0-30 Hg"	Vacuum	2"	1/4 Lower	100	7.39
2" DIAL SIZE, STEEL CASE, DRY							
IPG302-4L	Steel	0-30#	Pressure	2"	1/4 Lower	100	6.84
IPG302-4B	Steel	0-30#	Pressure	2"	1/4 Back	100	6.84
IPG302-8L	Steel	0-30#	Pressure	2"	1/8 Lower	100	6.84
IPG302-8B	Steel	0-30#	Pressure	2"	1/8 Back	100	6.84
IPG602-4L	Steel	0-60#	Pressure	2"	1/4 Lower	100	6.84
IPG602-4B	Steel	0-60#	Pressure	2"	1/4 Back	100	6.84
IPG602-8L	Steel	0-60#	Pressure	2"	1/8 Lower	100	6.84
IPG1002-4L	Steel	0-100#	Pressure	2"	1/4 Lower	100	6.84
IPG1002-8B	Steel	0-100#	Pressure	2"	1/8 Back	100	6.84

Pressure Gauges - Dry

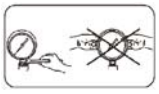
WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

CAUTION
DO NOT USE WITH POTABLE WATER

This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.



CAUTION

↓ Reduced price - Limited quantities available.

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, STEEL CASE, DRY							
IPVG302-4B	Steel	0-30 Hg"	Vacuum	2"	1/4 Back	100	7.39
IPVG302-8L	Steel	0-30 Hg"	Vacuum	2"	1/8 Lower	100	7.39
IPCG3602-4L	Steel	30Hg"/60#	Vacuum/PRessure	2"	1/4 Lower	200	7.39
2 1/2" DIAL SIZE, DRY							
IPG3025-4L	Steel	0-30#	Pressure	2 1/2"	1/4 Lower	100	8.71
IPG6025-4L	Steel	0-60#	Pressure	2 1/2"	1/4 Lower	100	8.71
IPG10025-4L	Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50	8.71
IPG16025-4L	Steel	0-160#	Pressure	2 1/2"	1/4 Lower	100	8.71
IPG40025-4L	Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50	8.71
IPVG3025-4L	Plastic	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50	8.71
4 1/2" DIAL SIZE, STEEL CASE, DRY							
IPG3045-4L	Steel	0-30#	Pressure	4 1/2"	1/4 Lower	50	18.42
IPG6045-4L	Steel	0-60#	Pressure	4 1/2"	1/4 Lower	50	18.42
IPG10045-4L	Steel	0-100#	Pressure	4 1/2"	1/4 Lower	50	18.42
IPVG3045-4L	Steel	30 Hg"	Vacuum	4 1/2"	1/4 Lower	50	18.42
IPCG36045-4L	Steel	30 Hg"/60#	Vacuum/Pressure	4 1/2"	1/4 Lower	50	18.42
IPCG31045-4L	Steel	30 Hg"/160#	Vacuum/Pressure	4 1/2"	1/4 Lower	50	18.42

Pressure Gauges - NO LEAD Dry



IPPG or IPG Series

ISO 9001

Pressure Gauge Features:

- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- **TO BE USED WITH AIR OR WATER ONLY.**
- Manufactured for AGI in an ISO 9001 facility.
- Bourdon tube movement is totally enclosed in corrosion resistant housing.
- Resists rust, electrolytic action and chemical solvents.
- **Third party certified to NSF/ANSI 372.** No Lead brass sockets.
- Deep drawn one piece steel or molded plastic housings encase a quality movement.
- Genuine mar-resistant glass or acrylic lens.

HARVARD

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, PLASTIC CASE, DRY							
IPPG302-4LNL	Plastic	0-30#	Pressure	2"	1/4 Lower	100	$ 8.05
IPPG302-4BNL	Plastic	0-30#	Pressure	2"	1/4 Back	100	8.05
IPPG602-4LNL	Plastic	0-60#	Pressure	2"	1/4 Lower	100	8.05
IPPG602-4BNL	Plastic	0-60#	Pressure	2"	1/4 Back	100	8.05
IPPG1002-4LNL	Plastic	0-100#	Pressure	2"	1/4 Lower	100	8.05
EIPPG1002-4LPNL	Plastic	0-100#	Pressure	2" No dial logo	1/4 Lower	100	7.61
IPPG1002-4BNL	Plastic	0-100#	Pressure	2"	1/4 Back	100	8.05
IPVG302-4LNL	Plastic	0-30 Hg"	Vacuum	2"	1/4 Lower	100	8.63
2" DIAL SIZE, STEEL CASE, DRY							
IPG152-4LNL	Steel	0-15#	Pressure	2"	1/4 Lower	100	7.55
IPG302-4LNL	Steel	0-30#	Pressure	2"	1/4 Lower	100	8.22
IPG302-4BNL	Steel	0-30#	Pressure	2"	1/4 Back	100	8.22
IPG302-8LNL	Steel	0-30#	Pressure	2"	1/8 Lower	100	8.22
IPG302-8BNL	Steel	0-30#	Pressure	2"	1/8 Back	100	8.22
IPG602-4LNL	Steel	0-60#	Pressure	2"	1/4 Lower	100	8.22
IPG602-4BNL	Steel	0-60#	Pressure	2"	1/4 Back	100	8.22
IPG602-8LNL	Steel	0-60#	Pressure	2"	1/8 Lower	100	8.22
IPG1002-4LNL	Steel	0-100#	Pressure	2"	1/4 Lower	100	7.50
EIPG1002-4LPNL	Steel	0-100#	Pressure	2" No dial logo	1/4 Lower	100	7.53
IPG1002-4BNL	Steel	0-100#	Pressure	2"	1/4 Back	100	8.22
IPG1002-8LNL	Steel	0-100#	Pressure	2"	1/8 Lower	100	8.22
IPG1002-8BNL	Steel	0-100#	Pressure	2"	1/8 Back	100	8.22
IPG1602-4LNL	Steel	0-160#	Pressure	2"	1/4 Lower	100	8.22

Pressure Gauges - NO LEAD Dry



CAUTION

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, STEEL CASE, DRY							
IPG2002-4LNL	Steel	0-200#	Pressure	2"	1/4 Lower	100	$ 7.50
IPG2002-4BNL	Steel	0-200#	Pressure	2"	1/4 Back	100	8.22
IPG2002-8LNL	Steel	0-200#	Pressure	2"	1/8 Lower	100	8.22
IPG3002-4LNL	Steel	0-300#	Pressure	2"	1/4 Lower	100	8.22
IPVG302-4BNL	Steel	0-30 Hg"	Vacuum	2"	1/4 Back	100	8.63
IPVG302-8LNL	Steel	0-30 Hg"	Vacuum	2"	1/8 Lower	100	8.63
IPCG3102-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	2"	1/4 Lower	100	8.63
IPCG3602-4LNL	Steel	30Hg"/60#	Vacuum/PRessure	2"	1/4 Lower	200	8.63
2" DIAL SIZE, STAINLESS STEEL CASE, 316SS INTERNALS and MOUNT, DRY							
EIPG1002-4LSS316	**Stainless Steel**	**0-100#**	**Pressure**	**2"**	**1/4 Lower**	**100**	**18.70**
EIPG1002-4BSS316	**Stainless Steel**	**0-100#**	**Pressure**	**2"**	**1/4 Back**	**100**	**22.35**
EIPG2002-4LSS316	**Stainless Steel**	**0-200#**	**Pressure**	**2"**	**1/4 Lower**	**100**	**18.70**
EIPG2002-4BSS316	**Stainless Steel**	**0-200#**	**Pressure**	**2"**	**1/4 Back**	**100**	**22.35**
2 1/2" DIAL SIZE, DRY							
IPG1525-4LNL	Plastic	0-15#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG3025-4LNL	Steel	0-30#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG6025-4LNL	Steel	0-60#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG10025-4LNL	Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50	10.54
IPG16025-4LNL	Steel	0-160#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG20025-4LNL	Steel	0-200#	Pressure	2 1/2"	1/4 Lower	100	10.54
IPG30025-4LNL	Steel	0-300#	Pressure	2 1/2"	1/4 Lower	50	10.54
IPG40025-4LNL	Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50	10.54
IPVG3025-4LNL	Plastic	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50	10.54
IPCG31025-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	2 1/2"	1/4 Lower	50	10.54
3 1/2" DIAL SIZE, STEEL CASE, DRY							
IPG3035-4LNL	Steel	0-30#	Pressure	3 1/2"	1/4 Lower	50	15.38
IPG10035-4LNL	Steel	0-100#	Pressure	3 1/2"	1/4 Lower	50	15.38
IPG20035-4LNL	Steel	0-200#	Pressure	3 1/2"	1/4 Lower	50	15.38
IPG30035-4LNL	Steel	0-300#	Pressure	3 1/2"	1/4 Lower	50	15.38
4 1/2" DIAL SIZE, STEEL CASE, DRY							
IPG3045-4LNL	Steel	0-30#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPG6045-4LNL	Steel	0-60#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPG10045-4LNL	Steel	0-100#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPG20045-4LNL	Steel	0-200#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPG30045-4LNL	Steel	0-300#	Pressure	4 1/2"	1/4 Lower	50	19.98
IPVG3045-4LNL	Steel	30 Hg"	Vacuum	4 1/2"	1/4 Lower	50	19.98
IPCG36045-4LNL	Steel	30 Hg"/60#	Vacuum/Pressure	4 1/2"	1/4 Lower	50	19.98
IPCG31045-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	4 1/2"	1/4 Lower	50	19.98

American Granby™

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Pressure Gauges - Liquid Filled



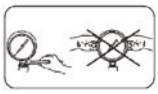
EILPG Series



ILPG Series

Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case
- Glycerine Filled, Phosphor bronze bourdon tube
- Accuracy +/- 3-2-3%
- 2” or 2 1/2” Dial face with clear acrylic lens
- Crimped stainless steel ring
- For use in high vibration, corrosion situations
- **TO BE USED WITH AIR OR WATER ONLY.**



CAUTION

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov



CAUTION
DO NOT USE WITH POTABLE WATER

This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2” DIAL SIZE, LIQUID FILLED							
EILPG302-4L	Steel	0-30#	Pressure	2”	1/4” Lower	100	$ 8.62
EILPG602-4L	Steel	0-60#	Pressure	2”	1/4” Lower	100	8.62
EILPG602-4B	Steel	0-60#	Pressure	2”	1/4” Back	100	9.45
EILPG1002-4L	Steel	0-100#	Pressure	2”	1/4” Lower	100	8.62
EILPG1002-4B	Steel	0-100#	Pressure	2”	1/4” Back	100	9.45
EILPG1602-4L	Steel	0-160#	Pressure	2”	1/4” Lower	100	8.62
EILVG302-4L	Steel	0-30 Hg”	Vacuum	2"	1/4” Lower	100	10.36
EILPG302-4LSS	Stainless Steel	0-30#	Pressure	2”	1/4” Lower	100	13.69
EILPG602-4LSS	Stainless Steel	0-60#	Pressure	2”	1/4” Lower	100	13.69
EILPG602-4BSS	Stainless Steel	0-60#	Pressure	2”	1/4” Back	100	14.25
EILPG1002-4LSS	Stainless Steel	0-100#	Pressure	2”	1/4” Lower	100	13.69
EILVG302-4LSS	Stainless Steel	0-30 Hg”	Vacuum	2"	1/4” Lower	100	14.82
2 1/2” DIAL SIZE, LIQUID FILLED							
ILPG3025-4L	Stainless Steel	0-30#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG6025-4L	Stainless Steel	0-60#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG10025-4L	Stainless Steel	0-100#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG16025-4L	Stainless Steel	0-160#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILPG20025-4L	Stainless Steel	0-200#	Pressure	2 1/2”	1/4 Lower	50	14.63
ILVG3025-4L	Stainless Steel	0-30 Hg”	Vacuum	2 1/2"	1/4 Lower	50	16.68
ILCG36025-4L	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4 Lower	50	17.29

Pressure Gauges - NO LEAD Liquid Filled



EILPG Series



ILPG Series

Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case.
- Glycerine filled, phosphor bronze bourdon tube.
- Accuracy +/- 3-2-3%.
- 2" or 2 1/2" Dial face with clear acrylic lens.
- Crimped stainless steel ring.
- For use in high vibration, corrosion situations.
- **Third party certified to NSF/ANSI 372.**
- No lead brass or stainless steel sockets.
- **TO BE USED WITH AIR OR WATER ONLY.**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, LIQUID FILLED							
EILPG302-4LNL	Steel	0-30#	Pressure	2"	1/4" Lower	100	$ 10.32
EILPG602-4LNL	Steel	0-60#	Pressure	2"	1/4" Lower	100	10.32
EILPG602-4BNL	Steel	0-60#	Pressure	2"	1/4" Back	100	11.48
EILPG1002-4LNL	Steel	0-100#	Pressure	2"	1/4" Lower	100	10.54
EILPG1002-4BNL	Steel	0-100#	Pressure	2"	1/4" Back	100	10.89
EILPG1002-8BNL	Steel	0-100#	Pressure	2"	1/8" Back	100	11.16
EILPG1602-4LNL	Steel	0-160#	Pressure	2"	1/4" Lower	100	10.32
EILPG2002-4LNL	Steel	0-200#	Pressure	2"	1/4" Lower	100	10.84
EILVG302-4LNL	Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100	12.25
EILVG302-4BNL	Steel	0-30 Hg"	Vacuum	2"	1/4" Back	100	13.18
EILPG302-4LSSNL	Stainless Steel	0-30#	Pressure	2"	1/4" Lower	100	15.56
EILPG602-4LSSNL	Stainless Steel	0-60#	Pressure	2"	1/4" Lower	100	15.56
EILPG602-4BSSNL	Stainless Steel	0-60#	Pressure	2"	1/4" Back	100	16.49
EILPG1002-4LSSNL	Stainless Steel	0-100#	Pressure	2"	1/4" Lower	100	15.56
EILPG1002-4LSS316*	Stainless Steel 316	0-100#	Pressure	2"	1/4" Lower	100	34.64
EILPG1002-4BSSNL	Stainless Steel	0-100#	Pressure	2"	1/4" Back	100	16.49
EILPG1002-4BSS316*	Stainless Steel 316	0-100#	Pressure	2"	1/4" Back	100	35.18
EILPG1602-4LSSNL	Stainless Steel	0-160#	Pressure	2"	1/4" Lower	100	15.56
EILPG2002-4LSSNL	Stainless Steel	0-200#	Pressure	2"	1/4" Lower	100	15.56
EILVG302-4LSSNL	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100	17.14
EILVG302-4BSSNL	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Back	100	18.07
* 316 Stainless steel internals and mount.							
2 1/2" DIAL SIZE, LIQUID FILLED							
ILPG3025-4LNL	Stainless Steel	0-30#	Pressure	2 1/2"	1/4 Lower	50	12.86
ILPG6025-4LNL	Stainless Steel	0-60#	Pressure	2 1/2"	1/4 Lower	50	12.86
ILPG10025-4LNL	Stainless Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50	**12.86**
ILPG16025-4LNL	Stainless Steel	0-160#	Pressure	2 1/2"	1/4 Lower	50	**12.86**
ILPG20025-4LNL	Stainless Steel	0-200#	Pressure	2 1/2"	1/4 Lower	50	**12.86**
ILPG30025-4LNL	Stainless Steel	0-300#	Pressure	2 1/2"	1/4 Lower	50	**12.86**
ILPG40025-4LNL	Stainless Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50	12.57
ILVG3025-4LNL	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50	18.60
ILVG3025-4BNL	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Back	50	19.53
ILCG36025-4LNL	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4 Lower	50	19.28

American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



IPG45-WLSS

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

IPG45-WL Water Level Gauge Features:

- 4 1/2" face #304 stainless steel case and clear acrylic lens.
- #304 stainless steel bezel with side screws.
- Brass pointer with black finish.
- NL brass movement.
- Range 0-390' H20.
- Bourdon tube-phosphor bronze, soft soldered.
- Connection: 1/4" NPT, lower mount, NL brass.
- Accuracy: +/- 3-2-3%

Part Number	Size	Description	MIP Conn.	Ctn Qty	List Price
		NO LEAD BRASS			
IPG45-WLSSNL	4 1/2"	0 - 390' Water Level	1/4" lower	20	$ 35.33



PTG1002

Pressure Test Gauge Features:

- 0-100 psi, 2" plastic lens.
- Brass test fitting with pressure release button.
- Heavy rubber boot to protect gauge from damage.

Part Number	Size	Pressure Setting/Description	Ctn Qty	List Price
PTG1002	2" case	0-100# Pressure test gauge	50	$ 14.90



CAUTION
DO NOT USE WITH POTABLE WATER

PGBS

Pressure Gauge Brass Snubber Features:

- Use with any pressure gauge subjected to rapidly fluctuating pressures or sudden shock pressure.
- Brass housing with high strength sintered, porous type snubbing element.

Part Number	Size/Description	Ctn Qty	List Price
PGBS1/4	1/4" mpt x 1/4" fpt Brass Snubber	50/500	$ 8.47



WTG



CAUTION
DO NOT USE WITH POTABLE WATER

WTG MP

Water Test Gauge Features:

- Quick, easy method to test a wide range of pressure systems for leakage.
- 2 1/2" dial face, steel case pressure gauge w/ plastic lens.
- With standard 3/4" FGHT swivel garden hose connection with rubber washer.
- Attach to hose bibbs, boiler drains and lawn faucets for pressure testing.
- "MP" series MAX pointer arm measures maximum water surge or pressure drop.
- Individually cartoned.

Part Number	Size	Pressure Setting/Description	PSI dial increments	Ctn Qty	List Price
WTG100	2 1/2"	0-100# water test gauge, fght	1	50	$ 7.45
WTG200	2 1/2"	0-200# water test gauge, fght	2	50	10.42
WTG300	2 1/2"	0-300# water test gauge, fght	3	100	10.42
WTG100MP	2 1/2"	0-100# gauge with MAX pointer	1	50	11.14
WTG200MP	2 1/2"	0-200# gauge with MAX pointer	2	50	11.14
WTG300MP	2 1/2"	0-300# gauge with MAX pointer	3	50	11.14

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

CAUTION
DO NOT USE WITH POTABLE WATER

This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.

Air/Gas Test Gauges



GTG



GTM3/4

Gas Test Gauge Features:

- Quick, easy means of pressurizing & monitoring gas systems for leakage.
- Completely assembled - brass hex manifold, air valve with plastic cap and 2" dial face, steel case pressure gauge with plastic lens.
- Manifold also available separately: 3/4" fpt connection with 1/4" fpt gauge tap and 1/8" fpt air valve tap.
- Individually cartoned and available in 15, 30, 60 and 100 psi.

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Description	Gauge Increments	Ctn Qty	List Price
GTG15	Gas test gauge, 3/4" fpt, 0-15#	1/10 lb.	50	$ 18.42
GTG30	Gas test gauge, 3/4" fpt, 0-30#	1/2 lb.	50	18.42
GTG60	Gas test gauge, 3/4" fpt, 0-60#	1/10 lb.	50	18.42
GTG100	Gas test gauge, 3/4" fpt, 0-100#	1 lb.	50	18.42
GTM3/4	Brass Gas test manifold only		100	9.60



PATG200

Pressure Air Test Gauge Features:

- Quick, easy means of pressurizing and monitoring plumbing systems for leakage
- Attach to hose bibb.
- Includes brass hex manifold, air valve, 2" 200# gauge, garden hose thread fitting.

Part Number	Description	Ctn Qty	List Price
PATG200	Pressure Air Test Gauge	30	$ **29.72**

American Granby™

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Pitless Adapters - NO LEAD Bronze



PT300NL



PT800NL



PT800TNL



PT825NL



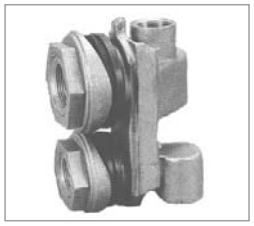
PT100NL



PT125NL



PT3000NL



PT900NL



PT700NL & PT725NL

Pitless Adapter Features:

- Cast from **81% COPPER** content alloy **NO LEAD** bronze to insure long life and durability in the most aggressive well conditions.
- **Extended casing nipple** makes installation easy.
- Rubber inner and outer casing gaskets for certified & approved water tight seal from ground water contamination.
- Built-in lowering eyelet for easier installation.
- All PT Series pitless adapters are individually boxed.
- All PT Series pitless adapters are 100% pressure tested.
- **All PT Series pitless adapters are certified and approved watertight to PAS-97(2012) standards.**
- **NO LEAD** cast bronze pitless adapters are **third party certified to NSF/ANSI 372.**

WATER SYSTEMS COUNCIL
LISTED PAS-97 (2017)
PITLESS ADAPTER STANDARD

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

LOW-LEAD
IAPMO R&T

Part Number	Slide Stop Style	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty	List Price
NO LEAD Cast Bronze							
PT300NL	Top Bar	1”	5” through 12”	1 3/4”	800	10	$ 88.04
PT800NL	Top Bar	1”	5” through 12”	1 3/4”	900	10	89.11
PT100NL	U cup	1”	5” through 12”	1 3/4”	5,000	10	96.25
PT700NL	U cup	1”	5” through 12”	1 3/4”	5,000	10	**174.71**
PT825NL	Top Bar	1-1/4”	5” through 12”	2 1/4”	2,000	10	163.04
PT125NL	U cup	1 1/4”	5” through 12”	2 1/4”	5,000	10	174.64
PT725NL	U cup	1-1/4”	5” through 12”	2 1/8”	5,000	10	**351.52**
PT3000NL	U cup	2”	5 5/8” through 12”	3 1/8”	5,000	4	560.71
PT900NL	U cup	1” & 11/4” (2 Hole)	4” through 12”	1 3/4” & 2 1/4”	2,000	6	526.07
TAPPED NO LEAD Cast Bronze for Underground tanks							
PT800TNL	Top Bar	1”	5” through 12”	1 3/4”	900	10	101.78

Pitless Adapters - Stainless Steel



PT300SS



PT800SS



PT825SS



PT3000SS

HARVARD Pitless Adapter Features:

- Cast from 304 cast stainless steel to insure long life and durability in the most aggressive well conditions.
- **Extended casing nipple** makes installation easy.
- Rubber inner and outer casing gaskets for certified & approved water tight seal from ground water contamination.
- Built-in lowering eyelet for easier installation.
- All PT Series pitless adapters are individually boxed.
- All PT Series pitless adapters are 100% pressure tested.
- **All PT Series pitless adapters are certified and approved watertight to PAS-97(2012) standards.**
- 304 Stainless Steel pitless adapters are Lead Free.
- **Third party certified to NSF/ANSI 372.**

Part Number	Slide Stop Style	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty	List Price
Cast 304 STAINLESS STEEL							
PT300SS	Top Bar	1"	5" through 12"	1 3/4"	6,000	10	$ 88.04
PT800SS	Top Bar	1"	5" through 12"	1 3/4"	6,000	10	106.96
PT825SS	U cup	1-1/4"	5" through 12"	2 1/4"	6,000	10	159.11
PT3000SS	U cup	2"	5" through 12"	3 1/8"	6,000	4	531.97

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Pitless Adapters - Clear hole, Snap-on



BA and BA-NL Series

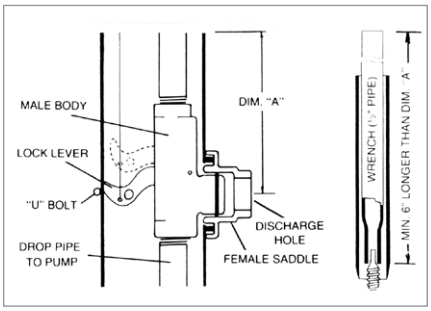
Features:

- CLEAR CASING DESIGN - no internal obstructions.
- Self -supporting (750 lbs / 300' of 1" iron pipe).
- 300 series stainless steel spring, pivot pin, pull cable, U-bolt, washers, nuts and extra wide backing strap.
- Built-in safety features should spring or cable fall.
- Available in combination with conduit or watertight caps.
- Quality American made bronze or No Lead Brass (NL).
- Easy to install.
- **All BA Series pitless adapters and BA-SC combination units are certified and approved watertight to PAS-97 Standards.**

WATER SYSTEMS COUNCIL LISTED PAS-97 (2017) PITLESS ADAPTER STANDARD

NO LEAD < 0.25% Pb by weighted average

Part Number	Description	Nominal Well Size"	Casing O.D."	Drop Pipe"	Ctn Qty	List Price
BA4-100NL	Pitless Adapter Only - NO LEAD	4	4 1/2	1	1	$ 367.22
BA4-100PSCNL	With PSC4 Plastic Cap - NO LEAD	4	4 1/2	1	1	404.85
BA4-125NL	Pitless Adapter Only - NO LEAD	4	4 1/2	1 1/4	1	378.64
BA4-125CNL	With C4 Alum Conduit Cap - NO LEAD	4	4 1/2	1 1/4	1	417.96
BA4-125PSCNL	With PSC4 Plastic Cap - NO LEAD	4	4 1/2	1 1/4	1	418.43
BA4-125SCNL	With SC4 ABS/Alum Cap - NO LEAD	4	4 1/2	1 1/4	1	440.63
BA45-100NL	Pitless Adapter Only - NO LEAD	4 1/2 SDR17	4.95	1	1	379.18
BA45-125NL	Pitless Adapter Only - NO LEAD	4 1/2 SDR17	4.95	1 1/4	1	390.42
BA5-100NL	Pitless Adapter Only - NO LEAD	5	5 9/16	1	1	380.64
BA5-125NL	Pitless Adapter Only - NO LEAD	5	5 9/16	1 1/4	1	392.91



Installation Instructions

Note: Apply lubricant to o-ring on male member of body & female portion of saddle.

1. Cut 2 1/4" diameter discharge hole in casing with a 2 1/4" hole saw. Attach saddle and U-bolt.
2. File notch in top of casing above discharge hole for alignment and for easy reinstallation if pump must be pulled later.
3. Assemble pump and drop pipe to body and lower into casing with 1" support pipe longer than dim A. Note: Make sure male member snaps completely into female portion of saddle.
4. Remove 1" support pipe and attach cap.

Drain & Wire Fitting - Bronze



BWS75-100

Bronze Drain and Wire Fitting Features:

- Cast from bronze to insure long life and durability in the most aggressive well conditions.
- Fastens to well casing to provide tapping for well drain, electrical conduit, bulkhead fittings & other related uses.
- Rubber gasket seals out ground water contamination.

Part Number	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty	List Price
BWS75-100	3/4” FPT x 1” MPT	5” through 8”	1 3/8”	_	10/60	27.50

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Well Caps - Cast Iron, Plastic



WC Series

HARVARD WC SERIES Cast Iron Watertight Well Cap Features:

- WC6 fits 6"and 6-1/4" I.D. 6 5/8" OD well casing.
- WC625 fits SDR27.6 6 1/4" ID PVC well casing, with 6.9" OD.
- 1"or 1 1/4" IPS conduit tap and factory installed screen vents.
- Heavy cast iron body. 20% heavier than any other comparable watertight well caps available.
- Wide rubber gasket provides positive watertight seal.
- Blue powder coat paint finish.
- Individually packaged. Includes all hardware.
- **All WC Series well caps are certified and approved watertight to PAS-97 (04) standards.**



WTC6

WTC6 Plastic Watertight Well Cap Features:

- Fits 6" ID, 6 1/4" ID, 6 5/8" OD well casing
- 1 1/4" IPS conduit tap.
- Hi-impact blue ABS plastic with UV inhibitors.
- Especially formulated for outdoor weatherability.
- Stainless steel bolts, washers and nuts are included.
- Factory installed screen vents.
- Made in USA. Patented



PWTC6 PSC Series

HARVARD Plastic Watertight Well Cap Features:

- PWTC6 Fits 6" and 6 1/4" ID, 6 5/8" OD well casing.
- PSC614 fits SDR27.6 6 1/4" ID PVC well casing with 6.9" OD.
- Gray, glass-filled thermoplastic with UV stabilizers.
- White ABS bottom casing seal for PSC Series.
- Especially formulated for outdoor weatherability.
- Stainless steel bolts, nuts included.
- Factory installed stainless steel vents. 1" conduit tap.
- Made in USA.



C56V

HARVARD C56V Cast Iron Multi-Size Well Cap Features :

- Heavy cast iron construction. 30% heavier than any other comparable cap available.
- Quick installation.
- Fits 5-5/8" and 6" well casing, Maximum 6 5/8" OD.
- 1" conduit opening.
- Blue finish for easy site location.
- Individually packaged. Includes bolts.

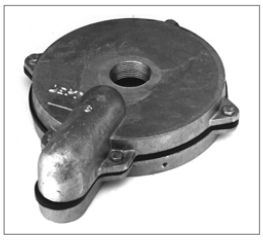
Part Number	Material	Nominal Well Casing	Maximum Casing OD	Conduit Tap	Master Ctn Qty	List Price
WC6	Cast Iron	6" and 6 1/4"	6 5/8"	1"	6	$ **78.04**
WC6-11/4	Cast Iron	6" and 6 1/4"	6 5/8"	1 1/4"	6	**91.25**
WC625	Cast Iron	6 1/4" SDR27.6 PVC	6.9"	1"	6	**85.18**
WC625-11/4	Cast Iron	6 1/4" SDR27.6 PVC	6.9"	1 1/4"	6	**95.73**
WTC6	ABS Plastic	6" and 6 1/4"	6 5/8"	1 1/4"	1	73.90
PWTC6	Thermoplastic	6" and 6 1/4"	6 5/8"	1"	8	**62.85**
PSC4	Thermoplastic	4"	4 1/2"	1"	12	**35.71**
PSC5	Thermoplastic	5"	5 9/16"	1"	12	**51.43**
PSC614	Thermoplastic	6 1/4" SDR27.6 PVC	6.9"	1"	12	**50.58**
C56V	Cast Iron	5-5/8" , 6", 6 1/4"	6 5/8"	1"	6	30.00

Custom personalization of the caps above is available. Self adhering, engraved brushed aluminum. Minimum of 24 of one size. One time set-up charge of $10.00. Allow 2-3 weeks for delivery.

Well Caps - Cast Aluminum



AWTC Series



AWTC–T Series



SC Series



C Series

AWTC-Series Watertight Vermin- Proof Cap Features:

- Cast aluminim for strength and weather resistance.
- All stainless bolts and ground screws.
- Molded 3/16" gasket.

SC-Series Watertight Cap Features:

- For use on plastic casing only.
- Injection molded ABS & grade 319 aluminum, can be solvent welded directly to PVC well casing.
- Stainless steel nuts, bolts & screened vents.
- **All SC Series well caps are certified and approved watertight to PAS-97 Standards.**

C-Series Standard Conduit Cap Features:

- For use on steel or plastic casing.
- Stainless steel set screws.

Custom personalization available - minimum of 48 of one size. Add "P" suffix. fo part number. One time set-up charge of $20.00. Allow 2-3 weeks for delivery.

NO LEAD LEAD-FREE

Part Number	Nominal Well Casing Size	Casing O.D.	Conduit Conn.	Vent Size	Weight	Ctn Qty	List Price
Aluminum Watertight Vermin–Proof Well Cap							
AWTC4	4"	4 1/2"	1"	1"	2.2	25	$ 96.64
AWTC45 ☺	4 1/2"	5"	1"	1"	2.7	20	131.28
AWTC5	5"	5 9/16"	1"	1"	2.4	20	116.70
AWTC55 ☺	5 1/2"	6"	1"	1"	3.1	15	144.31
AWTC6	6"	6 5/8"	1 1/4"	1"	2.8	15	122.37
AWTC7 ☺	6 1/2"	7"	1 1/4"	1"	3.1	13	170.11
AWTC8	8"	8 5/8"	1 1/4"	1"	4.3	1	254.00
AWTC10	10"	10 3/4"	2"	1" (2)	9.0	1	748.85
AWTC12	12"	12 3/4"	2"	1" (2)	11.0	1	1405.10
☺ Fits Whitewater pitless units							
Aluminum Watertight Vermin–Proof Well Cap w/ 1-1/4" Top Tap for use w/ pellet chlorinators							
AWTC45T ☺	4 1/2"	5"	1"	1"	2.7	20	151.53
AWTC55T ☺	5 1/2"	6"	1"	1"	3.1	15	164.32
AWTC6T	6"	6 5/8"	1 1/4"	1"	2.8	15	142.78
☺ Fits Whitewater pitless units							
Aluminum/ABS Combination Watertight Well Cap							
SC4	4"	4 1/2"	1 "		1.5	12	**57.39**
SC45	4 1/2"	4.95"	1 "		1.7	15	**66.85**
SC5	5"	5 9/16"	1 "		2.3	10	**71.76**
SC6	6"	6 5/8"	1"		2.5	8	**77.53**
SC614	6 1/4"(SDR27.6)	6.9"	1"		2.5	12	**82.40**
Standard Ventilated Cap with Conduit Opening							
C4	4"	4 1/2"	3/4"		1.6	25	48.32
C5	5"	5 9/16"	3/4"		2.0	15	69.29
C6	6"	6 5/8"	3/4"		2.3	15	74.28
C7	7"	7 5/8"	1"		2.9	15	109.39
C8	8"	8 5/8"	1"		3.4	1	116.34

WATER SYSTEMS COUNCIL LISTED PAS-97 (2017) PITLESS ADAPTER STANDARD

American Granby™

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PSWS

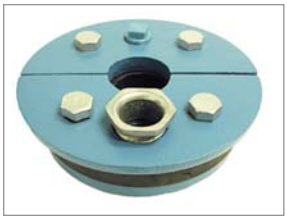
PSWS and PJWS Series Features:

- Well seals are molded from high impact ABS for extra strength.
- Exclusive design of **extra thick (1-1/4") PVC gland** enables the sanitary sealing of a wide range of casing sizes.
- Zinc plated steel bolts.

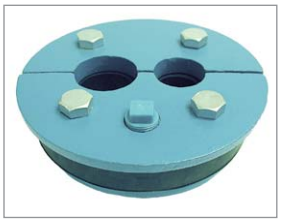
NO LEAD ✓ LEAD-FREE

Part Number	Fits Well Casing ID	Well Casing ID Size Range	Drop Pipe Size	Conduit Tap IPS	Vent Tap IPS	Weight	Ctn Qty	List Price
Single Hole								
PSWS2x1	2"	2"	1"	--	--	.25 lbs	50	$ 20.66
PSWS4xBLANK	4"	4 - 4 1/4"	blank	3/4"	3/8"	1.5 lbs.	10	31.21
PSWS4x1	4"	4 - 4 1/4"	1"	3/4"	1/2"	1.5 lbs.	10	31.21
PSWS4x11/4	4"	4 - 4 1/4"	1 1/4"	3/4"	1/2"	1.5 lbs.	10	31.21
PSWS4x11/2	4"	4 - 4 1/4"	1 1/2"	3/4"	1/2"	1.5 lbs.	10	31.21
PSWS4x2	4"	4 - 4 1/4"	2"	3/8"	1/4"	1.5 lbs.	10	31.21
PSWS41/2x1	4 1/2"	4 3/8 - 4 7/8"	1"	3/4"	1/2"	1.75 lbs.	10	34.67
PSWS41/2x11/4	4 1/2"	4 3/8- 4 7/8"	1 1/4"	3/4"	1/2"	1.75 lbs.	10	34.67
PSWS5xBLANK	5"	4 7/8 - 5 1/4"	blank	3/4"	1/2"	2.0 lbs.	10	47.22
PSWS5x1	5"	4 7/8 - 5 1/4"	1"	3/4"	1/2"	2.0 lbs.	10	47.22
PSWS5x11/4	5"	4 7/8 - 5 1/4"	1 1/4"	3/4"	1/2"	2.0 lbs.	10	47.22
PSWS5x11/2	5"	4 7/8 - 5 1/4"	1 1/2"	3/4"	1/2"	2.0 lbs.	10	47.22
PSWS5x2	5"	4 7/8 - 5 1/4"	2	3/4"	1/2"	2.0 lbs.	10	47.22
PSWS51/2xBLANK	5 1/2"	5 3/8 - 5 7/8"	blank	3/4"	1/2"	2.25 lbs.	10	49.41
PSWS51/2x1	5 1/2"	5 3/8 - 5 7/8"	1"	3/4"	1/2"	2.25 lbs.	10	49.41
PSWS51/2x11/4	5 1/2"	5 3/8 - 5 7/8"	1 1/4"	3/4"	1/2"	2.25 lbs.	10	49.41
PSWS51/2x11/2	5 1/2"	5 3/8 - 5 7/8"	1 1/2"	3/4"	1/2"	2.25 lbs.	10	49.41
PSWS6xBLANK	6"	5 7/8 - 6 1/4"	blank	3/4"	1/2"	3.0 lbs.	10	45.98
PSWS6x1	6"	5 7/8 - 6 1/4"	1"	3/4"	1/2"	3.0 lbs.	10	45.98
PSWS6x11/4	6"	5 7/8 - 6 1/4"	1 1/4"	3/4"	1/2"	3.0 lbs.	10	45.98
PSWS6x11/2	6"	5 7/8 - 6 1/4"	1 1/2"	3/4"	1/2"	3.0 lbs.	10	45.98
PSWS6x2	6"	5 7/8 - 6 1/4"	2"	3/4"	1/2"	3.0 lbs.	10	45.98
PSWS61/4xBLANK	6 1/4"	6 1/4 - 6 1/2"	blank	3/4"	1/2"	3.25 lbs.	10	47.22
PSWS61/4x1	6 1/4"	6 1/4 - 6 1/2"	1"	3/4"	1/2"	3.25 lbs.	10	47.22
PSWS61/4x11/4	6 1/4"	6 1/4 - 6 1/2"	1 1/4"	3/4"	1/2"	3.25 lbs.	10	47.22
PSWS61/4x11/2	6 1/4"	6 1/4 - 6 1/2"	1 1/2"	3/4"	1/2"	3.25 lbs.	10	47.22
PSWS61/4x2	6 1/4"	6 1/4 - 6 1/2"	2"	3/4"	1/2"	3.25 lbs.	10	47.22
PSWS8x1	8"	8 - 8 1/4"	1"	1"	1/2"	5.0 lbs.	3	60.41
PSWS8x11/4	8"	8 - 8 1/4"	1 1/4"	1"	1/2"	5.0 lbs.	3	60.41
PSWS8x2	8"	8 - 8 1/4"	2"	1"	1/2"	5.0 lbs.	3	60.41
PSWS8x3	8"	8 - 8 1/4"	3"	1"	1/2"	5.0 lbs	3	60.41
Double Hole								
PJWS4x1x11/4	4"	4 - 4 1/4"	1x1 1/4"	n/a	1/2"	1.5 lbs.	10	31.21
PJWS5x1x11/4	5"	4 7/8 - 5 1/4"	1x1 1/4"	n/a	1/2"	2.0 lbs.	10	45.77
PJWS51/2x1x11/4	5 5/8"	5 3/8 - 5 7/8"	1x1 1/4"	n/a	1/2"	2.5 lbs	10	46.94
PJWS6x1x11/4	6"	5 7/8 - 6 1/4"	1x1 1/4"	n/a	1/2"	3.0 lbs.	10	48.47
PJWS61/4x1x11/4	6 1/4"	6 1/4 - 6 3/8"	1x1 1/4"	n/a	1/2"	3.25 lbs.	10	47.22

Cast Iron Well Seals - Import, Submersible & Jet



SWS Series



JWS Series

Cast Iron Well Seal for Submersible & Jet Pumps Features:

- Highest quality smooth grey-iron castings accurately machined to narrowest tolerances.
- Finest heavy duty 3/4" molded rubber packing gland assures seal regardless of minor imperfections in well casing.
- Corrosion resistant, zinc plated steel bolts, rugged construction provides for maximum torque.
- Long lasting painted finish.
- Complete with electrical conduit kit and plug for SWS and plastic plugs for JWS series.
- Individually cartoned.
- Imported.

NO LEAD ✓ LEAD-FREE

Part Number	Well Casing ID	Drop Pipe	Cable Hole Tapping	Vent Tapping	Ctn Qty	List Price
Single Drop Pipe, SPLIT TOP, for submersible pumps (* Fits outside of well casing)						
SWS2X1	2"	1"	-	1/8"	50	$ 25.31
SWS2X11/4 *	2"	1 1/4"	-	1/8"	12	34.08
SWS3X1	3"	1"	3/8"	1/8"	16	26.85
SWS3X11/4	3"	1 1/4"	(2) 5/16" drilled	1/8"	16	26.85
SWS4X1	4"	1"	3/4"	1/2"	12	35.34
SWS4X11/4	4"	1 1/4"	3/4"	1/2"	12	35.34
SWS4X11/4S	4"	1 1/4" center	3/4"	1/4"	12	35.34
SWS4X11/2	4"	1 1/2"	3/4"	1/4"	12	35.34
SWS4X2	4"	2"	1/2"	1/4"	12	35.34
SWS4X2 SOLID	4"	2"	3/4"	1/2"	12	35.34
SWS41/4X1	4 1/4"	1"	3/4"	1/2"	12	35.34
SWS41/4X11/4	4 1/4"	1 1/4"	3/4"	1/2"	12	35.34
SWS5X1	5"	1"	1"	1/2"	6	50.35
SWS5X11/4	5"	1 1/4"	1"	1/2"	6	50.35
SWS5X2	5"	2"	3/4"	1/2"	6	50.35
SWS55/8X1	5 5/8"	1"	3/4"	1/2"	6	62.65
SWS6X1	6"	1"	1"	1/2"	6	65.67
SWS6X11/4	6"	1 1/4"	1"	1/2"	6	65.67
SWS6X11/2	6"	1 1/2"	1"	1/2"	6	65.67
SWS6X2	6"	2"	1"	1/2"	6	65.67
SWS6X3 SOLID	6"	3"	1"	1/2"	6	65.67
SWS6BLANK	6"	-	-	-	6	74.31
SWS61/4X1	6 1/4"	1"	1"	1/2"	6	69.18
SWS61/4X11/4	6 1/4"	1 1/4"	1"	1/2"	6	69.18
Two Hole Drop Pipe, SPLIT TOP, for jet pumps						
JWS3X1X3/4	3"	1" X 3/4"		1/8"	16	26.85
JWS4x11/4x1	4"	1 1/4" x 1"		1/2"	12	35.34
JWS5X11/4X1	5"	1 1/4" X 1"		1/2"	6	50.35
JWS55/8X11/4X1	5 5/8"	1 1/4" X 1"		1/2"	6	62.65
JWS6x11/4x1	6"	1 1/4" x 1"		1/2"	6	65.67
JWS61/4x11/4x1	6 1/4"	1 1/4" x 1"		1/2"	6	69.18

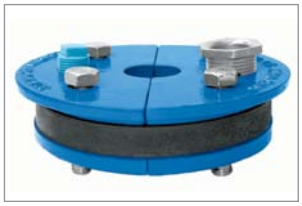
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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Cast Iron Well Seals - Submersible



Cast Iron Well Seal for Submersible Pump Features:

- Highest quality smooth grey-iron castings accurately machined to narrowest tolerances.
- Finest heavy duty 3/4" molded rubber packing gland assures seal regardless of minor imperfections in well casing.
- Corrosion resistant, zinc plated steel bolts, rugged construction provides for maximum torque.
- Long lasting painted finish.
- Individually cartoned.

Simmons

NO LEAD ✓ LEAD-FREE

Part Number	Simmons Part No.	Well Casing ID	Drop Pipe	Cable Hole Tapping	Vent Tapping	Ctn Qty	List Price
Single Drop Pipe, Split Top, for submersible pump (* Fits outside of well casing)							
2x3/4SCH	106	2"	3/4"	--	--	1	$ 46.30
2x1SCH	107	2"	1"	1/8"	1/8"	1	46.30
2x11/4SCH *	045	2"	1 1/4"	1/8"	1/8"	1	55.13
3x1SCH	108	3"	1"	3/8"	1/8"	6	55.08
3x11/4SCH	109	3"	1 1/4"	5/16" (2) drilled	1/8"	6	55.08
4BLANK (SOLID)		4"	--	--	--	6	57.32
4x1SCH	111	4"	1"	3/4"	1/2"	6	51.34
4x11/4SCH	112	4"	1 1/4"	3/4"	1/2"	6	51.34
4x11/2SCH	113	4"	1 1/2"	3/4"	1/2"	6	52.62
4x2SCH	114	4"	2"	1/2"	1/2"	6	52.62
41/4x1SCH	116	4 1/4"	1"	3/4"	1/2"	6	51.34
41/4x11/4SCH	117	4 1/4"	1 1/4"	3/4"	1/2"	6	51.34
41/2X1SCH	165	4 1/2"	1"	3/4"	1/2"	6	74.94
41/2x11/4SCH	166	4 1/2"	1 1/4"	3/4"	1/2"	6	74.94
5x1SCH	121	5"	1"	1"	1/2"	6	77.90
5x11/4SCH	122	5"	1 1/4"	1"	1/2"	6	78.64
5x11/2SCH	123	5"	1 1/2"	1"	1/2"	6	78.64
5x2SCH	124	5"	2"	3/4"	1/2"	6	77.21
55/8x1SCH	131	5 5/8"	1"	3/4"	1/2"	6	89.40
55/8x11/4SCH	132	5 5/8"	1 1/4"	3/4"	1/2"	6	89.40
55/8x11/2SCH	133	5 5/8"	1 1/2"	3/4"	1/2"	6	89.40
55/8x2SCH	134	5 5/8"	2"	3/4"	1/2"	6	89.40
6BLANK (SOLID)	313B	6"	--	--	--	6	86.17
6x1SCH	136	6"	1"	1"	1/2"	6	89.46
6x11/4SCH	137	6"	1 1/4"	1"	1/2"	6	89.46
6x11/2SCH	138	6"	1 1/2"	1"	1/2"	6	90.35
6x2SCH	139	6"	2"	1"	1/2"	6	90.35

Cast Iron Well Seals - Submersible

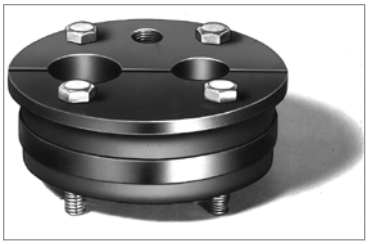
Part Number	Simmons Part No.	Well Casing ID	Drop Pipe	Cable Hole Tapping	Vent Tapping	Ctn Qty	List Price
Single Drop Pipe, Split Top, for submersible pumps, continued							
61/4x1SCH	141	6 1/4"	1"	1"	1/2"	6	$ 89.46
61/4x11/4SCH	142	6 1/4"	1 1/4"	1"	1/2"	6	89.46
61/4x11/2SCH	143	6 1/4"	1 1/2"	1"	1/2"	6	90.35
61/4x2SCH	144	6 1/4"	2"	1"	1/2"	6	90.35
8x1SCH	196	8"	1"	1"	1/2"	1	267.76
8x11/4SCH	197	8"	1 1/4"	1"	1/2"	1	267.76
8x11/2SCH	198	8"	1 1/2"	1"	1/2"	1	267.76
8x2SCH	199	8"	2"	1"	1/2"	1	267.76
8x3SCH	041	8"	3"	1"	1/2"	1	267.76
8x4SCH	042	8"	4"	1"	1/2"	1	267.76
6 5/8", 10" and 12" well seals are available in steel only by special order.							
Single drop pipe, SOLID TOP PLATE, for submersible pump							
440B	301	4"	1"	3/4"	1/2"	6	56.36
440C	049	4"	1-1/4"	3/4"	1/2"	6	57.38
450B	323	5"	1"	3/4"	1/2"	6	81.73
460B	313	6"	1"	1"	1/2"	6	92.88
460C	314	6"	1-1/4"	1"	1/2"	6	92.88
460D	315	6"	1-1/2"	1"	1/2"	6	93.93
460E	316	6"	2"	1"	1/2"	6	93.93
6x3SCH	021	6"	3" offset	1"	1/2"	6	93.93
460X	313A	6"	Blank	1"	1/2"	6	92.88
462B	318	6-1/4"	1"	1"	1/2"	6	92.88
462C	319	6-1/4"	1-1/4"	1"	1/2"	6	92.88
462D	320	6-1/4"	1-1/2"	1"	1/2"	6	93.93
462E	321	6-1/4"	2"	1"	1/2"	6	93.93

- Additional drop pipe sizes and well casing ID's of well seals are available by special order. Allow 3 weeks for delivery.

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Cast Iron Well Seal for Jet Pump Features:

- Highest quality smooth grey-iron castings accurately machined to narrowest tolerances.
- Finest heavy duty 3/4" molded rubber packing gland assures seal regardless of minor imperfections in well casing.
- Corrosion resistant, zinc plated steel bolts, rugged construction provides for maximum torque.
- Long lasting painted finish.
- Individually cartoned.

Simmons

NO LEAD ✓ LEAD-FREE

Part Number	Simmons Part No.	Well Casing ID	Drop Pipe	Vent Tapping	Ctn Qty	List Price
Two Hole Drop Pipe, SPLIT TOP, for jet pumps						
3x1x3/4DH	149	3"	1x 3/4"	1/8"	6	$ 54.05
4x11/4x1DH	152	4"	1 1/4 x 1"	1/2"	6	50.58
4x11/4x11/4DH	153	4"	1 1/4 x 1 1/4"	1/2"	6	50.90
41/4x11/4x1DH	156	4 1/4"	1 1/4 x 1"	1/2"	6	50.58
5X11/4x1DH	161	5"	1 1/4 x 1"	1/2"	6	78.22
55/8x11/4x1DH	171	5 5/8"	1 1/4 x 1"	1/2"	6	84.56
55/8x11/4x11/4DH	172	5 5/8"	1 1/4 x 1 1/4"	1/2"	6	84.56
6x11/4x1DH	177	6"	1 1/4 x 1"	1/2"	6	86.33
6x11/4x11/4DH	178	6"	1 1/4 x 1 1/4"	1/2"	6	86.33
61/4x11/4x1DH	183	6 1/4"	1 1/4 x 1"	1/2"	6	86.33
61/4x11/4x11/4DH	184	6 1/4"	1 1/4 x 1 1/4"	1/2"	6	86.33

- Additional drop pipe sizes for jet well seals are available by special order. Allow 3 weeks for delivery.

Well Seals & Accessories



Vent Pipe



Vent Seal

NO LEAD
LEAD-FREE

Vent Pipe Features:

- Fabricated from 1/2” heavy duty zinc plated steel pipe.
- Includes stainless steel bug screen.
- Use for ventilating wells directly to atmosphere.

Vent Seal Features:

- Fabricated from rugged ABS for sanitary protection.
- 1/2” OD x 4-1/2” long, and is easily installed.

Part Number	Description	Ctn Qty	List Price
Vent Pipe			
VP50	1/2” Zinc Plated Steel	30	$ 15.85
Vent Seal			
VS50	1/2” Plastic	50	**4.51**

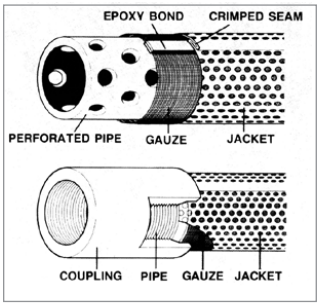
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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Drive Well Point

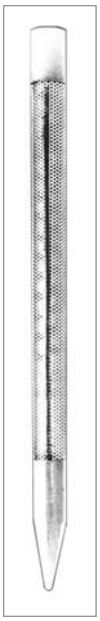


Drive Well Point Features:

- Heavy duty ductile iron point to drive into all types of soil.
- Stainless steel jacket and gauze.
- Crimped seam eliminates peeling.
- Epoxy bonding at critical points.
- Locked at both ends.
- Lead free seam.
- Pipe coupling provided.
- Threaded, octaganol shoulder prevents turning while driving.
- Forms large enough hole to allow clearance for pipe couplings.
- **Third party certified to NSF/ANSI 372.**

Part Number	Gauze	Pipe Length	Pipe Size	Ctn Qty	List Price
Drive Points					
SBD2460	60	24	1-1/4"	3	$ 68.96
SBD3060	60	30	1-1/4"	3	78.55
SBD3660	60	36	1-1/4	3	93.75
SBD4260	60	42	1-1/4"	3	107.75
SBD4860	60	48	1-1/4"	3	118.75
SBD6060	60	60	1-1/4"	3	142.32
SBD2480	80	24	1-1/4"	3	68.96
SBD3080	80	30	1-1/4"	3	78.55
SBD3680	80	36	1-1/4"	3	93.75
SBD4280	80	42	1-1/4"	3	107.75
SBD4880	80	48	1-1/4"	3	118.75
SBD6080	80	60	1-1/4"	3	142.32
SBD30100	100	30	1-1/4"	3	78.55
SBD36100	100	36	1-1/4"	3	93.75
SBD48100	100	48	1-1/4"	3	118.75
SCD&F3060	60	30	1-1/2"	3	90.17
SCD&F3660	60	36	1-1/2"	3	111.15
SCD&F4860	60	48	1-1/2"	3	155.69
SCD&F6060	60	60	1-1/2"	3	194.79
SCD&F3680	80	36	1-1/2"	3	111.15
SCD&F4880	80	48	1-1/2"	3	155.69
SDD&F3060	60	30	2"	3	110.89
SDD&F3660	60	36	2"	3	138.21
SDD&F4860	60	48	2"	3	165.36
SDD&F6060	60	60	2"	3	215.43
SDD&F3080	80	30	2"	3	110.89
SDD&F3680	80	36	2"	3	138.21
SDD&F4880	80	48	2"	3	165.36
SDD&F6080	80	60	2"	3	215.43

Drive Well Points



Flush Well Point



Combination Well Point

Flush Well Point Features:

- Same as drive well points plus:
- Designed to pass through well casing &drive shoe into water bearing sand & gravel.
- Pipe coupling is designed to catch in a closed-pattern drive shoe.
- Beveled edges on point forms a positive grip on jacket, similar to single piece construction.
- Stainless steel jacket & gauze

Combination Well Point Features:

- Can be used as a regular well point or as an open end screen.
- Stainless steel jacket & gauze

Part Number	Gauze	Pipe Length	Pipe Size	Ctn Qty	List Price
Flush Well Points					
SBF3660	60	36	1-1/4”	3	$ 108.53
SBF4860	60	48	1-1/4”	3	141.11
SBF4280	80	42	1-1/4”	3	117.10
SBF48100	100	48	1 1/4”	3	141.11
Combination Well Points					
SBC2460	60	24	1-1/4”	3	80.37



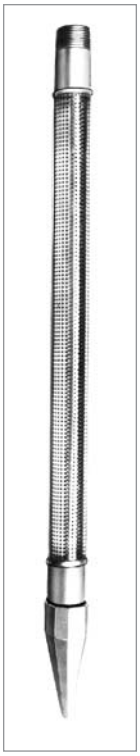
Drive & Flush Well Point Head

Part Number	Type	Pipe Size	List Price
Well Point Heads			
A1120041	Drive	1-1/4”	$ 17.88
A1120005	Drive	1-1/2”	25.61
A1120006	Drive	2”	28.50
A1120007	Flush	1-1/4”	18.23

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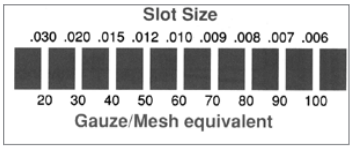


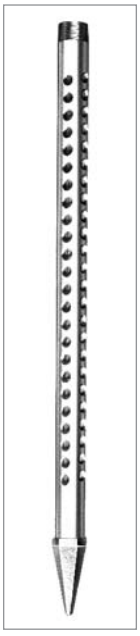
I-Series

Imperial Series Features:

- Designed to be driven into all types of soil.
- Imperial series are wrapped outside with a stainless steel screen
- Stainless steel jacket over gauze construction is permanently fixed to perforated steel pipe.
- Design allows the passage of all the sand free water the pipe can carry.
- Cast iron drive point head can be removed for easy field extension by coupling together with the second well point for added capacity.

Part No.	Simmons	Pipe Size	Length	Gauze	Ctn Qty	List Price
Imperial with Outer Stainless Steel Gauze						
I90-60	1720-1	1 1/4	24”	60	1	$ 149.02
I94-60	1721-1	1 1/4	30”	60	1	161.35
I98-60	1722-1	1 1/4	36”	60	1	173.85
I100-60	1723-1	1 1/4	42”	60	1	187.71
I102-60	1724-1	1 1/4	48”	60	1	212.56
I168-60	1752-1	2	36”	60	1	264.78
I172-60	1753-1	2	48”	60	1	342.15
I176-60	1754-1	2	60”	60	1	419.40
I90-80	1726-1	1 1/4	24”	80	1	149.02
I94-80	1727-1	1 1/4	30”	80	1	161.35
I98-80	1728-1	1 1/4	36”	80	1	173.85
I102-80	1730-1	1 1/4	48”	80	1	212.56
I144-80	1747-1	1 1/2	36”	80	1	219.38





S-Series

Standard Series Features:

- For use in rocky or sandy soil.
- Standard series are wrapped inside with a stainless steel screen.
- Unique corrosion resistant construction features protect stainless steel gauze held in place between galvanized pipe and a stainless steel liner.
- Self flushing chamfered holes in galvanized pipe eliminate clay or sand build-up, giving maximum water yield with minimum development time.

Part No.	Simmons	Pipe Size	Length	Gauze	Ctn Qty	List Price
Standard Series with Inner Stainless Steel Gauze						
S94-60	1721	1 1/4	30”	60	1	$ 161.49
S98-60	1722	1 1/4	36”	60	1	174.00
S102-60	1724	1 1/4	48”	60	1	212.56
S168-60	1752	2	36”	60	1	264.86
S172-60	1753	2	48”	60	1	342.15
S176-60	1754	2	60”	60	1	419.40
S94-80	1727	1 1/4	30”	80	1	161.49
S98-80	1728	1 1/4	36”	80	1	174.00

Drive Well Point Supplies



80002C
Sand Shark
Valve

"Sand Shark", Backwash Valves Features:

- Used in soft soil to jet open-end screen to desired depth.
- Thickwalled, cast iron construction with saw teeth to rip through roots and debris.
- Solid ABS ball check keeps sand from entering well when jetting operations are complete.
- Not spring loaded.

Part Number	Valve Size	Pressure Pipe Tap	Ctn Qty	List Price
80002C	2" NPT Male	1" NPS Left Hand Female	Bulk	$ 75.29



8660B
Backwash
Valve

Part Number	Pipe Size	Description	Ctn Qty	List Price
8660B	2"	No. 19B S/Steel Ball	12	$ **81.77**



434 Series

Turned Coupling Features:

- Used for suspending flush well points or strainers from drive shoes or tubular cylinders.
- Galvanized with standard pipe thread.
- Furnished with right hand pipe threads.
- Thin wall 434J.
- **Third party certified to NSF/ANSI 372.**

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Part Number	Rt. Hand Thread Pipe Size	Well Size	Strainer Size	Coupling O.D.	Coupling Length	Ctn Qty	List Price
Turned Couplings							
434J11/4X11/4	1-1/4 x 1-1/4"	2	1"	1 13/16"	2-1/4"	48	$ 6.48
434-11/4X11/4	1 1/4 X 1 1/4"	2	1 1/4	1 15/16"	2 1/4	48	7.12



DC

Galvanized Drive Coupling Features:

- Heavy pattern with deep recess for shouldering on imperfect threads of well points.
- Assures proper driving of well points and standard pipe.
- Taper tapped, reamed and drifted.
- **Third party certified to NSF/ANSI 372.**

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



C125

Drive Cap Features:

- Heavy duty forged steel.
- Standard pipe threads.
- Vented on top.

Part Number	Description	Pipe Size	Length (in.)	Ctn Qty	List Price
Galvanized Drive Couplings					
DC125C	1-1/4"	1-1/4"	2.75	40	$ 8.29
DC150	1-1/2"	1-1/2"	2.75	40	11.49
DC200	2"	2"	2.90	30	14.06
DC200L	2" Long Pattern	2"	3.40	30	17.68
Drive Caps					
C125	Heavy Duty Forged Steel	1-1/4"		32	15.18
C200	Heavy Duty Forged Steel	2"		16	**25.93**

American Granby

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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Drive Shoes

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

Drive Shoe Features:

- Alloy grade seamless stock.
- Special process to strengthen the material before heat treating.
- All drive shoes are heat treated.
- All drive tips are flame hardened for superior driving strength.
- All drive shoes are tested for dimensional accuracy and tip hardness.
- Baked on phosphate coating to protect from corrosion.
- Cable and Rotary style.
- Weld-on and threaded.
- Third party certified NO LEAD to NSF/ANSI 372.



7000 Series



7055 Series



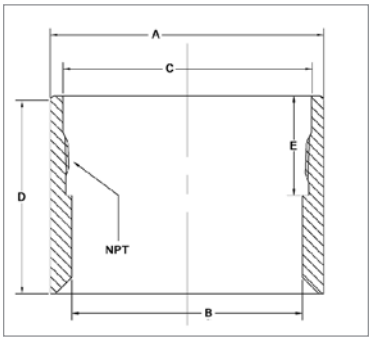
7005 Series



7007 Series

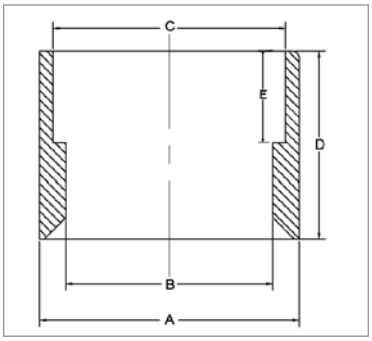
Part Number	Nominal Casing Size "	ID x Bore "	Description	Ctn Qty	List Price
Threaded Cable Tool Style					
7000A	2	2 x 2	Open Pattern	25	$ 27.86
7000D	2	2 x 2	**Closed** Pattern, extd threads (P&R)	28	**53.61**
7000E	3	3 x 3	Open Pattern	12	84.00
7000GL	4	4 1/2 x 4	Open Pattern	9	46.72
7000J	5	5 1/2 x 5	Open Pattern	5	76.71
7000K	6	6 5/8 x 6	Open Pattern (6.125" Bore)	4	107.14
7000N	6	6 5/8 x 6	**Short** Pattern (6.125" Bore)	4	88.71
7000KLD	6	6 5/8 x 6 1/4	Open Pattern (6.25" Bore)	4	107.14
7059X	8	8 5/8 x 8	Open Pattern	1	248.57
Weld-On Cable Tool Style					
7055E	3	3 x 3	Open Pattern	12	**90.00**
7055GL	4	4 1/2 x 4	Open Pattern	9	**46.72**
7055J	5	5 1/2 x 5 3/16	Open Pattern	5	76.71
7055K	6	6 5/8 x 6	Open Pattern (6.125" Bore)	4	107.14
7055R	6	6 5/8 x 6	**Short** Pattern (6.125" Bore)	4	88.71
7055KLD	6	6 5/8 x 6 1/4	Open Pattern (6.25" Bore)	4	107.14
7055M	8	8 5/8 x 8	Open Pattern	1	248.57
7055N	10	10 3/4 x 10	Open Pattern	1	762.86
Threaded Rotary Style					
7005A	4	4 1/2 x 4	Open Pattern	9	**46.72**
7005B	5	5 1/2 x 5 3/16	Open Pattern	4	76.71
7005C	6	6 5/8 x 6	Open Pattern (6.125" Bore)	4	107.14
7005H	6	6 5/8 x 6	**Short** Pattern (6.125" Bore)	4	88.71
7005CLD	6	6 5/8 x 6 1/4	Open Pattern (6.25" Bore)	4	107.14
7005CLDS	6	6 5/8 x 6 1/4	Short Pattern (6.25" Bore)	4	88.71
Weld-on Rotary Style					
7007A	4	4 1/2 x 4	Open Pattern	9	**46.72**
7007C	6	6 5/8 x 6	Open Pattern (6.125" Bore)	4	107.14
7007CLD	6	6 5/8 x 6 1/4	Open Pattern (6.25" Bore)	4	107.14
7007M	8	8 5/8 x 8	Open Pattern	1	248.57

Drive Shoes



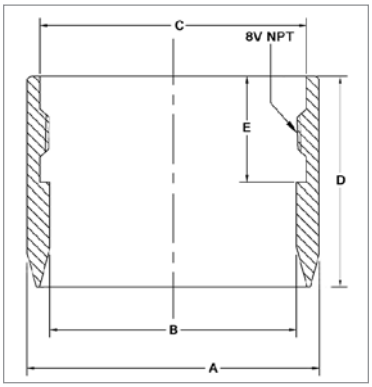
Threaded Cable Tool Style

PART NO.	Nominal Pipe Size	Thread	A	B	C	D	E	Wellmaster Cross Ref
7000A	2"	11 1/2V	2.88	2.06	2.45	2.88	1.86	M5000200TUFF
7000E	3"	8V	4.00	3.10	3.50	3.50	1.75	M5001500TUFF
7000GL	4"	8V	5.00	4.125	4.575	4.00	2.43	M5001800TUFF
7000J	5"	8V	6.00	5.125	5.59	4.50	2.62	M5005500TUFF
7000K	6"	8V	7.39	6.125	6.69	5.40	2.70	M5009590TUFF
7000N	6"	8V	7.39	6.125	6.69	4.00	2.70	M5009655TUFF
7000KLD	6"	8V	7.39	6.25	6.69	5.40	2.70	M5010450TUFF
7059X	8"	8V	9.55	8.13	8.73	7.50	3.60	M5013800TUFF



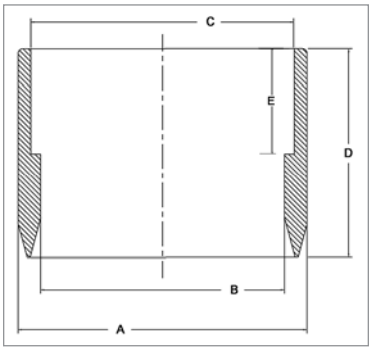
Weld On Cable Tool Style

PART NO.	Nominal Pipe Size	A	B	C	D	E	Wellmaster Cross Ref
7055E	3"	4.00	3.10	3.54	3.50	1.75	M5001501TUFF
7055GL	4"	5.00	4.125	4.575	4.00	2.00	M5001600TUFF
7055J	5"	6.00	5.125	5.59	4.50	2.03	M5007200TUFF
7055K	6"	7.39	6.125	6.69	5.40	2.70	M5009220TUFF
7055R	6"	7.39	6.125	6.69	4.00	2.12	M5009195TUFF
7055KLD	6"	7.39	6.25	6.69	5.40	2.70	M5010200TUFF
7055M	8"	9.63	8.125	8.70	7.50	3.60	M5013500TUFF
7055N	10"	11.75	10.25	10.875	8.00	3.60	M5015500TUFF



Threaded Rotary Style

PART NO.	Nominal Pipe Size	Thread	A	B	C	D	E	Wellmaster Cross Ref
7005A	4"	8V	5.00	4.125	4.56	4.00	2.43	M5002500TUFF
7005B	5"	8V	6.00	5.125	5.59	4.50	2.62	M5007900TUFF
7005C	6"	8V	7.39	6.125	6.69	5.40	2.70	M5009990TUFF
7005H	6"	8V	7.39	6.125	6.69	4.12	2.70	M5009960TUFF
7005CLD	6"	8V	7.39	6.25	6.69	5.40	2.70	M5010900TUFF
7005CLDS	**6"**	**8V**	**7.39**	**6.25**	**6.69**	**4.00**	**2.70**	**M5011660TUFF**



Weld-On Rotary Style

PART NO.	Nominal Pipe Size	A	B	C	D	E	Wellmaster Cross Ref
7007A	4"	5.00	4.125	4.575	4.00	2.13	M5002310TUFF
7007C	6"	7.39	6.125	6.69	5.40	2.70	M5009700TUFF
7007CLD	6"	7.39	6.25	6.69	5.40	2.70	M5010700TUFF
7007M	8"	9.63	8.125	8.70	7.50	3.60	M5013550TUFF

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Pitcher Pump



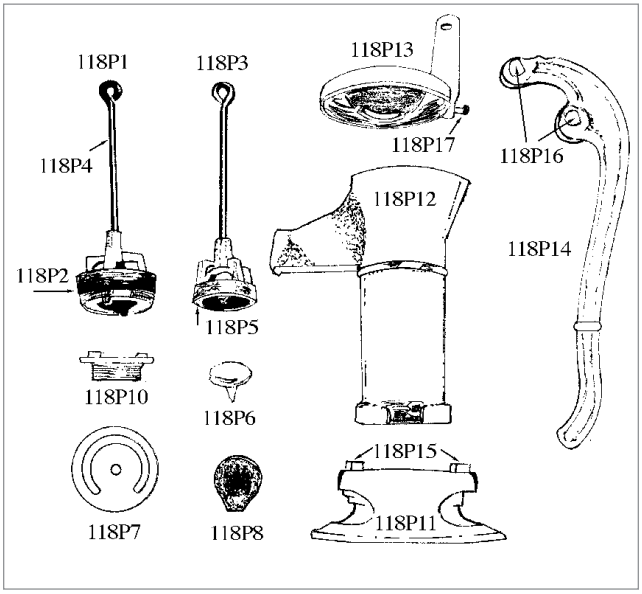
HPP10

HARVARD® Pitcher Pump Features:

- Recommended for shallow pump applications – depth rating up to 20'.
- Easily installed.
- Made of heavy cast iron.
- Dark green hard enamel rugged powder coated paint finish.
- Open spout.
- 15-3/4" high.
- Tapped for 1-1/4" drop pipe.
- 15 lbs.
- Pumps are individually packaged 4 per master carton.
- Parts are carton qty 1.
- Third party certified NO LEAD to NSF/ANSI 372.

Part Number	Description	Master Ctn Qty	List Price
HPP10	Pitcher Pump, Cast Iron, Size #2	4	$ 140.58

PITCHER PUMP REPLACEMENT PARTS



Part Number	Description	List Price
118P1	Complete Plunger Assembly (includes *)	46.21
118P2 *	Cup Leather for Plunger only	17.46
118P3	Plunger Rod and Cage (no cup leather)	17.82
118P4 *	Plunger Rod	9.17
118P5 *	Plunger Cage	14.37
118P6 *	Plunger Weight	6.28
118P7	Flat Leather for Base Valve	12.69
118P8	Weight and Screw for Flat Valve	8.62
118P9	Flat Valve Leather and Weight	19.98
118P10 *	Threaded Nut for Plunger Cage	13.25
118P11	Pump Base with Bolts (118P15)	42.61
118P12	Pump Cylinder	48.47
118P13	Pump Top with Set Screw (118P17)	21.85
118P14	Pump Handle with Two Bolts (118P16)	36.66
118P15	3/8 x1-1/4 Bolts for Pump Base (set of 2)	4.78
118P16	3/8 x 2 bolts for Pump Handle	5.58
118P17	Set Screw for Pump Top	4.76

Rod Couplings



720

720 Series Rod Coupling Features:

- Hexagon shaped, galvanized couplings.
- Made from solid bars of cold-rolled steel.
- Use to connect steel pump rods.

NO LEAD ✓ LEAD-FREE

720 Rod Couplings

Part Number	Size	Size of Hexagon	Overall Length	Ctn Qty	List Price
8075B1	3/8”x3/8”	5/8”	1-3/4”	25	$ 2.00
8075C1	7/16”x3/8”	5/8”	1-3/4”	25	2.88
8075D1	7/16”x7/16”	5/8”	1-3/4”	25	2.02
8075E1	1/2”x3/8”	11/16”	1-3/4”	25	3.23
8075F1	1/2”x7/16”	11/16”	1-3/4”	25	3.40
8075G1	1/2”x1/2”	11/16”	1-3/4”	25	2.51
8075J1	5/8”x7/16”	13/16”	2-1/8”	BULK	9.26
8075K1	5/8” x 1/2”	13/16”	2 1/8”	BULK	8.83
8075L1	5/8”x5/8”	13/16”	2-1/8”	BULK	5.03

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449 B



Replacement Parts

CLAYTON MARK®

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

449B ALL BRASS Features:

- Corrosion resistant, all brass construction.
- Brass tubing offers a smooth working surface and extends the life of the leathers.
- Open top cylinder, threaded valves screw together for one-step removal.
- No need to pull cylinder to replace inner components.
- Reliable **BALL** plunger.
- Contains 707/45 series graphite leathers.
- Third party certified NO LEAD to NSF/ANSI 372.

449B All Brass

Part Number	Inside Diameter X Stroke (inches)	Barrel Length (inches)	Caps Tapped Pipe Size Top/Bottom (inches)	Size Rod in Plunger (inches)	Smallest Well Cylinder will enter (inches)	Capacity Per Stroke US Gallons	Cup Leather Sizing O.D. (inches)	Cup Leather Sizing Hole (inches)	List Price
7037HNL	1-7/8 x 14	24	2 x 1-1/4	5/8	3	.1680	1-7/8	1-5/16	$ **757.19**
7037RNL	1 7/8 X 20	30	2 X 1 1/4	5/8	3	.2400	1 7/8	1 5/16	786.88

449B Replacement Parts

	1-7/8" Part Number	2-1/4" Part Number	2-3/4" Part Number
Plunger assembly w/ leathers	8599ANL	8599C	8599E
Check assembly w/ leathers	8533C	8533D1	8533E1
Leather for Plunger (707/45) Qty 3	707-221 17/8"x1 5/16"	707-334 21/4x11/2	707-384 23/4x17/8
Leather for Check (702/41) Qty 1	702-216 17/8"x1 5/16"	702-334 21/4x11/2	702-384 23/4x17/8

NOTE: PLEASE SEE PAGE 90 FOR REPLACEMENT PART PRICING.

Cylinders - All NO LEAD Brass





442

442 ALL BRASS Features:

CLAYTON MARK® SINCE 1888

- All brass plunger, plain poppet and two leathers.
- Closed flush cap, recommended for all types of working heads and small diameter, shallow wells.
- Perma-Kleen®, Buna N rubber check poppet facing for smooth, quiet operation and tight seal.
- Clearance of two inches is provided between plunger and check.
- Contains 711/44 Series waterproof leathers.
- "NL" designates NO LEAD.
- Third party certified NO LEAD to NSF/ANSI 372.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

442 All Brass Part Number	Inside Diameter x Stroke (inches)	Barrel Length (inches)	Caps Tapped Pipe Size Top/Bottom (inches)	Size Rod in Plunger (inches)	Well Cylinder will enter (inches)	Smallest Capacity Per Stroke US Gallons	Cup Leather Sizing O.D. (inches)	Hole (inches)	List Price
7027ANL	1-11/16 x 8	16	1 x 1	7/16	2	.0768	1-11/16	1-3/16	$ 469.06
7027BNL	1-11/16 x 10	16	1 x 1	7/16	2	.0960	1-11/16	1-3/16	496.04
7027MNL	1 11/16 X 12	20	1 X 1	7/16	2	.1152	1 11/16	1 3/16	461.12
7027CNL	1-13/16 x 8	16	1 x 1	7/16	2	.0896	1-13/16	1-3/16	360.94
7027DNL	1-13/16 x 10	18	1 x 1	7/16	2	.1120	1-13/16	1-3/16	**491.71**
7027D3NL	1-13/16 x 12	20	1 x 1	7/16	2	.1344	1-13/16	1-3/16	**501.79**
7027ENL	2 x 8	16	1 1/4 x 1 1/4	7/16	2-1/2	.1088	2	1-5/16	566.31
7027FNL	2 x 10	18	1 1/4 x 1 1/4	7/16	2-1/2	.1360	2	1-5/16	550.93
7027F1NL	2 X 12	20	1 1/4 X 1 1/4	7/16	2 1/2	.1632	2	1 5/16	561.48
7027JNL	2-1/4 x 10	18	1 1/4 x 1 1/4	7/16	3	.1721	2-1/4	1-3/8	748.82
7027P2NL	2-1/4 x 12	20	1 1/4 x 1 1/4	7/16	3	.2071	2-1/4	1-3/8	714.64
7027S3NL	2 1/2 X 8	18	1 1/4 X 1 1/4	7/16	3	.1700	2 1/2	1 5/8	**862.81**
7027LNL	2-1/2 x 10	20	1 1/4 x 1 1/4	7/16	3	.2125	2-1/2	1-5/8	907.69
7027FA3NL	3 x 10	20	1 1/4 x 1 1/4	7/16	3-1/2	.3060	3	2-1/8	**1091.31**
7027UNL	3 x 10	20	2 x 11/4	7/16	3-1/2	.3060	3	2-1/8	992.32

442 Replacement Parts Description	1-11/16" Part Number	1-13/16" Part Number	2" Part Number	2-1/4" Part Number	2-1/2" Part Number	3" Part Number
Plunger Assembly w/ leather	8522A	8522B	8522CNL	8522D	8522F/8522FNL	8522J
Leather for Plunger (711/44)	711-151	711-198	711-264	711-333	711-358	711-638
2 each required	1-11/16x1-3/16	1-13/16x1-3/16	2x1-5/16	2-1/4x1-3/8	2-1/2x1-5/8	3x2-1/8

NOTE: PLEASE SEE PAGE 90 FOR REPLACEMENT PART PRICING.



450

450 ALL BRASS EUREKA Features:

- Open top cylinder made for tubular wells and applications where the originally installed cylinder can't be removed.
- All brass valves with Perma-Kleen rubber poppet facings for smooth quiet operation and better seating.
- Threaded valves screw together for easy one-step removal.
- Spring dog holds unit in place until rubber packer is expanded by rotating drill rods.
- Packer creates a seal and anchors cylinder in place.
- Clearance of 2" is provided for operation between plunger and checks.
- "NL" designates NO LEAD.
- Third party certified NO LEAD to NSF/ANSI 372.

450 All Brass Eureka Cylinders

Part Number	Size of of Well (inches)	Inside Diameter of Cylinder (inches)	Stroke (inches)	Plunger tapped for pipe (inches)	Cup Leather Hole Size for Check & Plunger (inches)	Capacity per Stroke, US Gallons	List Price
7039XNL	2	1-13/16	14	3/8	1-3/16	.1570	596.32



Replacement Parts

450 Replacement Parts

Description	Part Number
Check assembly	8515AP/8515APNL
Plunger assembly	8514B

NOTE: PLEASE SEE PAGE 90 FOR REPLACEMENT PART PRICING.



Seating Tool

451 SEATING TOOL Features:

- Attaches to drill rod string to run and seat the 450 cylinder securely in place.

Part Number	Description	Ctn Qty	List Price
8041A	2" seating tool	1	$ 10.09

Cylinder Replacement Parts, Operating Data

CLAYTON MARK®

Product Number	Description	List Price	Page
8034D	Cylinder Packer Rubber 450/7039	$ 5.59	75
8041A	Seating Tool for 450 Cylinders	4.70	75
8514BNL	Plunger Assembly 450/7039 1 13/16	125.97	75
8515APNL	Check Assembly 450/7039 2" NO LEAD	71.23	75
8522ANL	Plunger Assembly w/ leathers 442 1 11/16" NO LEAD	64.58	74
8522CNL	Plunger Assembly w/ leathers 442 2" NO LEAD	87.22	74
8522FNL	Plunger Assembly w/ leathers 442 2 1/2" NO LEAD	152.55	74
8522JNL	PLUNGER ASSY W/LEATHERS 442 3	221.80	73
8533CNL	CHECK ASMBLY W/LTHRS 449B 17/8	107.71	73
8599ANL	Plunger Assembly w/ leathers 449B 1 7/8" NO LEAD	136.13	73

Table showing amount of water discharged per stroke by single acting cylinder. The diameter of cylinder and length of stroke being known.

Dia. of pump cylinder in inches	Length of stroke in inches with capacity per stroke in gallons												Area of circle cylinder sq in
	1	2	3	4	5	6	7	8	10	12	18	24	
1 3/8	.0064	.0128	.0192	.0256	.0320	.0384	.0448	.0512	.0640	.0768	.1152	.1536	1.4849
1 1/2	.0076	.0153	.0229	.0306	.0382	.0459	.0535	.0612	.0765	.0918	.1375	.1832	1.7671
1 5/8	.0090	.0180	.0270	.0360	.0450	.0540	.0630	.0720	.0900	.1080	.1620	.2140	2.0739
1 3/4	.0104	.0208	.0312	.0416	.0512	.0625	.0729	.0833	.1041	.1249	.1872	.2497	2.4053
1 13/16	.0112	.0224	.0336	.0448	.0560	.0672	.0784	.0896	.1120	.1344	.2016	.2688	2.5802
1 7/8	.0120	.0240	.0360	.0480	.0600	.0720	.0840	.0960	.1200	.1440	.2160	.2280	2.7612
1 31/32	.0132	.0263	.0395	.0527	.0659	.0790	.0922	.1054	.1317	.1580	.2371	.3161	3.0440
2	.0136	.0272	.0408	.0544	.0680	.0816	.0952	.1088	.1360	.1632	.2448	.3264	3.1416
2 3/16	.0163	.0325	.0488	.0650	.0812	.0976	.1137	.1300	.1625	.1952	.2928	.3904	3.7584
2 1/4	.0172	.0344	.0516	.0688	.0860	.1033	.1205	.1377	.1721	.2071	.3104	.4137	3.9760
2 1/2	.0212	.0425	.0637	.0850	.1062	.1275	.1487	.1700	.2125	.2550	.3825	.5100	4.9070
2 3/4	.0257	.0514	.0771	.1028	.1285	.1543	.1800	.2057	.2571	.3085	.4628	.6171	5.9395
3	.0306	.0612	.0918	.1224	.1530	.1836	.2142	.2448	.3060	.3672	.5508	.7344	7.0686

To obtain the capacity of a pump with a diameter of cylinder given in the table, but with a longer stroke than 24 inches (the longest stroke given in teh table), add or multiply the capacity to represent the required length of stroke.

For instance: The capacity of a cylinder with a 30 inche stroke would be the same as that (having the same diameter) of an 18 inch stroke cylinder, added to the capacity of a 12 inch stroke cylinder. The same result may be obtained by multiplying the capacity of a cylinder with a 10 instroke by 3.

To obtain the amount of water discharged per minute, multiply the capacity per stoke by the number of strokes per minute. To obtain the amount of water discharged per hour, multiply this figure by 60.

Capacities are given in American Gallons. To find English gallons, deduct 1/6; to find liters, multiply by 3.75.

American Granby™

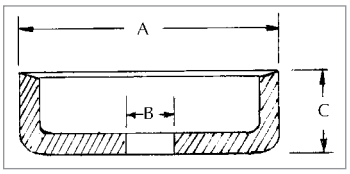
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702/41



CLAYTON MARK® SINCE 1888

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

702/41 Universal Features:

- Untreated economy leathers.
- Flesh side out.
- Used for open type hand pumps (pitcher pumps), jet packers and on any application calling for a stationary seal.
- Made in USA.

ORDER IN TUBE QUANTITY ONLY

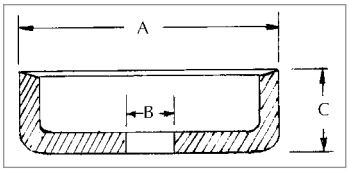
NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
702/41 Universal							
702-022	L101000006	702/41	1”	3/8”	7/16”	12	$ 7.08
702-048	L101020006	702/41	1-1/8”	3/8”	1/2”	12	7.79
702-061	L101040006	702/41	1-1/4”	3/8”	1/2”	12	7.79
702-063	L101040008	702/41	1-1/4”	1/2”	1/2”	12	7.79
702-095	L101060010	702/41	1 3/8”	5/8”		12	8.84
702-109	L101080006	702/41	1-1/2”	3/8”	5/8”	12	8.84
702-169	L101120010	702/41	1-3/4”	5/8”	11/16”	12	9.51
702-198	L101130103	702/41	1-13/16”	1-3/16”	3/4”	12	9.51
702-216	L101140105 *	702/41	1-7/8”	1-5/16”	3/4”	12	9.51
702-220	L101140104 **	702/41	1-7/8”	1-1/4”	3/4”	12	9.51
702-263	L102000104	702/41	2”	1-1/4”	3/4”	12	11.26
702-264	L102000105	702/41	2”	1-5/16”	3/4”	12	11.26
702-333	L102040106	702/41	2-1/4”	1-3/8”	3/4”	12	12.36
702-334	L102040108 *	702/41	2 1/4”	1 1/2”	3/4”	12	12.36
702-358	L102080110	702/41	2-1/2”	1-5/8”	13/16”	12	13.79
702-384	L102120114 *	702/41	2-3/4”	1-7/8”	13/16”	12	15.00
702-410	L103000200	702/41	3”	2”	13/16”	12	16.74
702-464	L103080208	702/41	3-1/2”	2-1/2”	1”	12	21.03
702-521	L104000300	702/41	4”	3”	1-1/16”	6	30.86
702-636	L106000408	702/41	6”	4 1/2”		6	101.98

* Standard Clayton Mark hole size
** Standard Midland hole size

Cup Leathers



704/46
Oil Fill



CLAYTON MARK®
SINCE 1888

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

704/46 Oil Fill Features:

- Oak tanned leather and oil treated.
- Oil treatment waterproofs and retards swelling of leather inside cylinders.
- Reduces rod breakage or overloading motors.
- Oil treatment preserves leather insuring longer life.
- Flesh side out.
- Used in cylinders and piston pumps.
- Made in USA.

ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
704/46 Oil Fill							
704-010	L600140002	704/46	7/8”	1/8”		12	$ 7.13
704-048	L601020006	704/46	1-1/8”	3/8”	1/2”	12	7.79
704-092	L601060006	704/46	1-3/8”	3/8”	5/8”	12	8.84
704-105	L601080000	704/46	1 1/2”	SOLID	5/8”	12	8.84
704-109	L601080006	704/46	1-1/2”	3/8”	5/8”	12	8.84
704-198	L601130103	704/46	1-13/16”	1-3/16”	3/4”	12	9.51
704-220	L601140104 **	704/46	1-7/8”	1-1/4”	3/4”	12	9.51
704-255	L602000010	704/46	2”	5/8”	3/4”	12	11.26
704-264	L602000105	704/46	2”	1-5/16”	3/4”	12	11.26
704-333	L602040106	704/46	2-1/4”	1-3/8”	3/4”	12	12.36
704-334	L602040108 *	704/46	2-1/4”	1-1/2”		12	12.36
704-354	L602080104	704/46	2-1/2”	1-1/4”		12	13.79
704-358	L602080110	704/46	2-1/2”	1-5/8”	13/16”	12	13.79
704-384	L602120114 *	704/46	2-3/4”	1-7/8”	13/16”	12	15.00
704-409	L603000105	704/46	3”	1-7/8”		12	16.74
704-410	L603000200	704/46	3”	2”	13/16”	12	16.74
704-464	L603080208	704/46	3-1/2”	2-1/2”	1”	12	21.03
704-521	L604000300	704/46	4”	3”	1-11/16”	6	30.86

* Standard Clayton Mark hole size
** Standard Midland hole size

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706/42 Black Perfection Features:

- Hard, high-polished black finish leather
- Hair side out.
- Used for deep well cylinders as well as developing & testing new wells.
- Made in USA.

CLAYTON MARK® SINCE 1888

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

ORDER IN TUBE QUANTITY ONLY

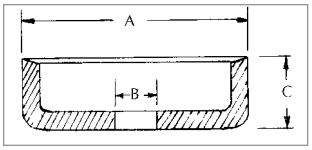
NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	C Height	Tube Qty	List Price
706/42 Black Perfection							
706-022	L201000006	706/42	1	3/8”	7/16”	12	$ 7.08
706-063	L201040008	706/42	1-1/4”	1/2”	1/2”	12	7.79
706-064	L201040010	706/42	1 1/4”	5/8”	1/2”	12	7.79
706-095	L201060010	706/42	1-3/8”	5/8”	5/8”	12	8.84
706-105	L201080000	706/42	1-1/2”	-	5/8”	12	8.84
706-112	L201080010	706/42	1-1/2”	5/8”	5/8”	12	8.52
706-127	L201100006	706/42	1-5/8”	3/8”	5/8”	12	8.84
706-155	L201110102	706/42	1-11/16”	1-1/8”	5/8”	12	9.51
706-166	L201120006	706/42	1 3/4”	3/8”		12	9.51
706-175	L201120102	706/42	1-3/4”	1-1/8”	11/16”	12	9.51
706-198	L201130103	706/42	1-13/16”	1-3/16”	3/4”	12	9.51
706-219	L201140103	706/42	1-7/8”	1-3/16”	3/4”	12	9.51
706-220	L201140104 **	706/42	1-7/8”	1-1/4”	3/4”	12	9.51
706-221	L201140105 *	706/42	1-7/8”	1-5/16”	3/4”	12	9.51
706-255	L202000010	706/42	2”	5/8”	3/4”	12	11.26
706-262	L202000103	706/42	2”	1-3/16”	3/4”	12	11.26
706-263	L202000104	706/42	2”	1-1/4”	3/4”	12	11.26
706-264	L202000105	706/42	2”	1-5/16”	3/4”	12	11.26
706-285	L202010104	706/42	2-1/16”	1-1/4”	3/4”	12	12.36
706-286	L202010105	706/42	2-1/16”	1-5/16”	3/4”	12	12.36
706-308	L202020104	706/42	2-1/8”	1-1/4”	3/4”	12	12.36
706-310	L202020106	706/42	2-1/8”	1-3/8”	3/4”	12	12.36
706-333	L202040106	706/42	2-1/4”	1-3/8”	3/4”	12	12.36
706-334	L202040108 *	706/42	2-1/4”	1-1/2”	3/4”	12	12.36
706-335	L202040110	706/42	2-1/4”	1-5/8”	3/4”	12	12.36
706-345	L202080008	706/42	2-1/2”	1/2”		12	13.79
706-358	L202080110	706/42	2-1/2”	1-5/8”	13/16”	12	13.79
706-359	L202080111	706/42	2-1/2”	1-11/16”	13/16”	12	13.79
706-360	L202080114	706/42	2-1/2”	1-7/8”	13/16”	12	13.79
706-384	L202120114 *	706/42	2-3/4”	1-7/8”	13/16”	12	15.00
706-409	L203000114	706/42	3”	1-7/8”	13/16”	12	16.74
706-410	L203000200	706/42	3”	2”	13/16”	12	16.74
706-435	L203010114	706/42	3 1/16”	1 7/8”		12	19.44
706-436	L203010200	706/42	3-1/16”	2”		12	19.44
706-464	L203080208	706/42	3-1/2”	2-1/2”	1”	12	21.03
706-492	L203120210	706/42	3-3/4”	2-5/8”	1”	12	26.47
706-520	L204000212	706/42	4”	2-3/4”	1-1/16”	6	30.86
706-521	L204000300	706/42	4”	3”	1-1/16”	6	30.86

* Standard Clayton Mark hole size
** Standard Midland hole size

Cup Leathers



707/45
Graphite



707/45 Graphite Features:

- Selected from the center of hides.
- Flesh side out.
- Graphite coating prevents fast absorption of water and acts as a lubricant to reduce binding of the plunger in the cylinder.
- Made in USA.

CLAYTON MARK® SINCE 1888

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

ORDER IN TUBE QUANTITY ONLY

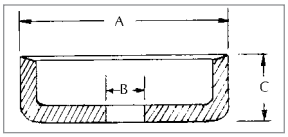
NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
707/45 Graphite							
707-061	L501040006	707/45	1-1/4”	3/8”	1/2”	12	$ 7.79
707-063	L501040008	707/45	1-1/4”	1/2”	1/2”	12	7.79
707-064	L501040010	707/45	1-1/4”	5/8”	1/2”	12	7.79
707-092	L501060006	707/45	1-3/8”	3/8”	5/8”	12	8.84
707-095	L501060010	707/45	1-3/8”	5/8”	5/8”	12	8.84
707-109	L501080006	707/45	1-1/2”	3/8”	5/8”	12	8.84
707-112	L501080010	707/45	1-1/2”	5/8”	5/8”	12	8.84
707-130	L501100010	707/45	1-5/8”	5/8”		12	8.84
707-149	L501110010	707/45	1-11/16”	5/8”		12	9.51
707-175	L501120102	707/45	1-3/4”	1-1/8”		12	9.51
707-198	L501130103	707/45	1-13/16”	1-3/16”	3/4”	12	9.51
707-215	L501140114	707/45	1-7/8”	7/8”	3/4”	12	9.51
707-220	L501140104 **	707/45	1-7/8”	1-1/4”	3/4”	12	9.51
707-221	L501140105 *	707/45	1-7/8”	1-5/16”	3/4”	12	9.51
707-255	L502000010	707/45	2”	5/8”	3/4”	12	11.26
707-264	L502000105	707/45	2”	1-5/16”	3/4”	12	11.26
707-286	L502010105	707/45	2-1/16”	1-5/16”	3/4”	12	12.36
707-300	L502020010	707/45	2-1/8”	5/8”	3/4”	12	12.36
707-333	L502040106	707/45	2-1/4”	1-3/8”	3/4”	12	12.36
707-334	L502040108 *	707/45	2-1/4”	1-1/2”	3/4”	12	12.36
707-639	L502060108	707/45	2 3/8”	1 1/2”	3/4”	12	13.79
707-357	L502080108	707/45	2-1/2”	1-1/2”	3/4”	12	13.79
707-358	L502080110	707/45	2-1/2”	1-5/8”	13/16”	12	13.79
707-359	L502080111	707/45	2-1/2”	1-11/16”	13/16”	12	13.79
707-384	L502120114 *	707/45	2-3/4”	1-7/8”	13/16”	12	15.00
707-410	L503000200	707/45	3”	2”	13/16”	12	16.74
707-436	L503010200	707/45	3 1/16”	2”		12	19.44
707-464	L503080208	707/45	3-1/2”	2-1/2”	1”	12	21.03
707-492	L503120210	707/45	3-3/4”	2-5/8”	1”	12	26.57
707-520	L504000212	707/45	4”	2-3/4”		6	30.86
707-521	L504000300	707/45	4”	3”	1-1/16”	6	30.86
707-615	L506000010	707/45	6”	5/8”		6	101.98

* Standard Clayton Mark hole size
** Standard Midland hole size

American Granby™
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In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



711/44
Waterproof



CLAYTON MARK® SINCE 1888

711/44 Waterproof Features:

- Soft, pliable waterproof.
- Hair side out.
- For use on piston pumps, shallow setting brass-cylinder barrels, air pumps and other applications where minimum water absorption and swelling is desired.
- Made in USA.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	Height	Tube Qty	List Price
711/44 Waterproof							
711-021	L401000004	711/44	1”	1/4”	7/16”	12	$ 7.13
711-022	L401000006	711/44	1”	3/8”	7/16”	12	7.13
711-024	L401000008	711/44	1”	1/2”	7/16”	12	7.13
711-037	L401010010	711/44	1-1/16”	5/8”		12	7.79
711-048	L401020006	711/44	1-1/8”	3/8”	1/2”	12	7.79
711-050	L401020008	711/44	1-1/8”	1/2”	1/2”	12	7.79
711-057	L401040000	711/44	1 1/4”	-	1/2”	12	7.79
711-061	L401040006	711/44	1-1/4”	3/8”	1/2”	12	7.79
711-062	L401040007	711/44	1-1/4”	7/16”	1/2”	12	7.79
711-063	L401040008	711/44	1-1/4”	1/2”	1/2”	12	7.79
711-064	L401040010	711/44	1-1/4”	5/8”		12	7.79
711-076	L401050006	711/44	1-5/16”	3/8”		12	8.84
711-078	L401050008	711/44	1-5/16”	1/2”		12	8.84
711-092	L401060006	711/44	1-3/8”	3/8”	5/8”	12	8.84
711-094	L401060008	711/44	1-3/8”	1/2”	5/8”	12	8.84
711-095	L401060010	711/44	1-3/8”	5/8”	5/8”	12	8.84
711-098	L401060014	711/44	1-3/8”	7/8”	5/8”	12	8.84
711-109	L401080006	711/44	1-1/2”	3/8”	5/8”	12	8.84
711-111	L401080008	711/44	1-1/2”	1/2”	5/8”	12	8.84
711-112	L401080010	711/44	1-1/2”	5/8”	5/8”	12	8.84
711-129	L401100008	711/44	1-5/8”	1/2”	5/8”	12	8.84
711-130	L401100010	711/44	1-5/8”	5/8”	5/8”	12	8.84
711-135	L401100100	711/44	1-5/8”	1”	5/8”	12	8.84
711-149	L401110010	711/44	1-11/16”	5/8”	5/8”	12	9.51
711-151	L401110103	711/44	1 11/16”	1 3/16”		12	9.51
711-154	L401110100	711/44	1-11/16”	1”	5/8”	12	9.51
711-155	L401110102	711/44	1-11/16”	1-1/8”	5/8”	12	9.51
711-169	L401120010	711/44	1-3/4”	5/8”	11/16”	12	9.51
711-174	L401120100	711/44	1 3/4”	1”	11/16”	12	9.51
711-175	L401120102	711/44	1-3/4”	1-1/8”	11/16”	12	9.51
711-192	L401130012	711/44	1-13/16”	3/4”		12	9.51
711-198	L401130103	711/44	1-13/16”	1-3/16”	3/4”	12	9.51
711-211	L401140008	711/44	1-7/8”	1/2”	3/4”	12	9.51
711-212	L401140010	711/44	1-7/8”	5/8”	3/4”	12	9.51
711-217	L401140100	711/44	1-7/8”	1”	3/4”	12	9.51
711-219	L401140103	711/44	1-7/8”	1-3/16”	3/4”	12	9.51
711-220	L401140104 **	711/44	1-7/8”	1-1/4”	3/4”	12	9.51
711-221	L401140105 *	711/44	1-7/8”	1-5/16”	3/4”	12	9.51

* Standard Clayton Mark hole size
** Standard Midland hole size

Cup Leathers

711/44 Waterproof - continued.
ORDER IN TUBE QUANTITY ONLY

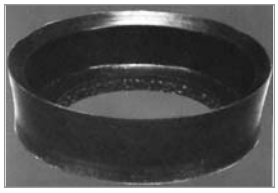
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

CLAYTON MARK® SINCE 1888

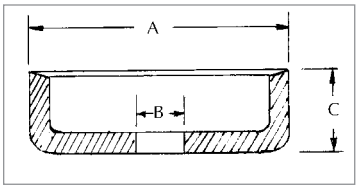
NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	Height	Tube Qty	List Price
711/44 Waterproof - Continued							
711-240	L401150103	711/44	1-15/16”	1-3/16”	3/4”	12	$11.26
711-242	L401150105	711/44	1-15/16”	1-5/16”	3/4”	12	11.26
711-248	L402000000	711/44	2”	SOLID	3/4”	12	11.26
711-254	L402000008	711/44	2”	1/2”	3/4”	12	11.26
711-255	L402000010	711/44	2”	5/8”	3/4”	12	11.26
711-259	L402000015	711/44	2”	15/16”	3/4”	12	11.26
711-262	L402000103	711/44	2”	1-3/16”	3/4”	12	11.26
711-263	L402000104	711/44	2”	1-1/4”	3/4”	12	11.26
711-264	L402000105	711/44	2”	1-5/16”	3/4”	12	11.26
711-267	L402000110	711/44	2”	1-5/8”	3/4”	12	11.26
711-277	L402010010	711/44	2-1/16”	5/8”	3/4”	12	12.36
711-284	L402010103	711/44	2-1/16”	1-3/16”	3/4”	12	12.36
711-285	L402010104	711/44	2-1/16”	1-1/4”	3/4”	12	12.36
711-286	L402010105	711/44	2-1/16”	1-5/16”	3/4”	12	12.36
711-300	L402020010	711/44	2-1/8”	5/8”	3/4”	12	12.36
711-308	L402020104	711/44	2-1/8”	1-1/4”	3/4”	12	12.36
711-316	L402040000	711/44	2 1/4”	SOLID	3/4”	12	12.36
711-323	L402040010	711/44	2-1/4”	5/8”	3/4”	12	12.36
711-331	L402040104	711/44	2-1/4”	1-1/4”	3/4”	12	12.36
711-332	L402040105	711/44	2-1/4”	1-5/16”	3/4”	12	12.36
711-333	L402040106	711/44	2-1/4”	1-3/8”	3/4”	12	12.36
711-334	L402040108 *	711/44	2-1/4”	1-1/2”	3/4”	12	12.36
711-335	L402040110	711/44	2-1/4”	1-5/8”	3/4”	12	12.36
711-339	L402080000	711/44	2-1/2”	SOLID	13/16”	12	13.79
711-346	L402080010	711/44	2-1/2”	5/8”	13/16”	12	13.79
711-354	L402080104	711/44	2-1/2”	1-1/4”	13/16”	12	13.79
711-355	L402080105	711/44	2-1/2”	1-5/16”	13/16”	12	13.79
711-356	L402080106	711/44	2-1/2”	1-3/8’	13/16”	12	13.79
711-357	L402080108	711/44	2-1/2”	1-1/2”	13/16”	12	13.79
711-358	L402080110	711/44	2-1/2”	1-5/8”	13/16”	12	13.79
711-359	L402080111	711/44	2-1/2”	1-11/16”	13/16”	12	13.79
711-384	L402120114 *	711/44	2-3/4”	1-7/8”	13/16”	12	15.00
711-637	L402140114	711/44	2-7/8”	1-7/8”	13/16”	12	15.00
711-406	L403000108	711/44	3”	1-1/2”	13/16”	12	16.74
711-409	L403000114	711/44	3”	1-7/8”	13/16”	12	16.74
711-410	L403000200	711/44	3”	2”	13/16”	12	16.74
711-638	L403000202	711/44	3”	2 1/8”	13/16”	12	16.74
711-435	L403010114	711/44	3-1/16”	1-7/8”	13/16”	12	19.44
711-436	L403010200	711/44	3-1/16”	2”	13/16”	12	19.44
711-464	L403080208	711/44	3-1/2”	2-1/2”	1”	12	21.03
711-492	L403120210	711/44	3-3/4”	2-5/8”	1”	12	26.57
711-495	L404000000	711/44	4”	SOLID	1-1/16”	6	30.86
711-518	L404000208	711/44	4’	2-1/2”	1-1/16”	6	30.86
711-520	L404000212	711/44	4”	2-3/4”	1-1/16”	6	30.86
711-521	L404000300	711/44	4”	3”	1-1/16”	6	30.86

* Standard Clayton Mark hole size
** Standard Midland hole size

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



NEO/86 NEOFAB Cup



CLAYTON MARK® SINCE 1883

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

NEO/86 NEOFAB CUP Features:

- Enhanced endurance with lower replacement rates.
- Neoprene material with fabric insert in base.
- Outlasts all other leathers.
- Made in USA.

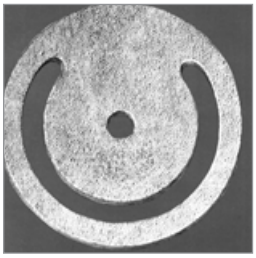
ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
NEO/86 NEOFAB CUP							
NEO-220	L901140104 **	NEO/86	1-7/8"	1-1/4"	3/4"	3	$ 39.58
NEO-255	L902000010	NEO/86	2"	5/8"	3/4"	3	39.79
NEO-264	L902000105	NEO/86	2"	1-5/16"	3/4"	3	39.79
NEO-334	L902040108 *	NEO/86	2-1/4"	1-1/2"	3/4"	3	40.13
NEO-358	L902080110	NEO/86	2-1/2"	1-5/8"	13/16"	3	40.15
NEO-384	L902120114 *	NEO/86	2-3/4"	1-7/8"	13/16"	3	40.97
NEO-410	L903000200	NEO/86	3"	2"	13/16"	3	52.37
NEO-464	L903080208	NEO/86	3-1/2"	2-1/2"	1"	3	57.89

* Standard Clayton Mark hole size
** Standard Midland hole size

Leathers - Universal

CLAYTON MARK®



V5 Series

Valve Leathers for use with pitcher pumps and cylinders

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

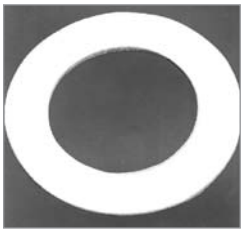
700/55 Universal Features:

- Lower valve leather.
- Uniform, heavy stock with russet finish.
- Made in USA.

Part Number	Cylinder I.D.	Leather O.D.	Standard I.D.	Ctn Qty	List Price
700/55 Universal					
V502080200	2”	2 1/2”	2”	6	$ 7.52
V502120204	2 1/4”	2 3/4”	2 1/4”	6	8.62
V503000206	2 1/2”	3”	2 3/8”	6	9.51
V503080214	3”	3 1/2”	2 7/8”	6	11.65
V503120302	3 1/4””	3 3/4”	3 1/8”	6	11.65
V504000304	3 1/2”	4”	3 1/4”	6	13.61
V504080312	4”	4 1/2”	3 3/4”	6	14.22
V505000404	4 1/4”	5”	4 1/4”	6	14.22
V505040408	4 1/2”	5 1/4”	4 1/2”	6	15.27
V506120512	6”	6 3/4”	5 3/4”	6	37.95

Pitcher Pump Leather Selection Chart

Pump Size	Part Number	Cylinder I.D.	Leather O.D.
No. 1	V503000206	2-1/2”	3
No. 2	V503080214	3”	3-1/2”
No. 3	V504000304	3-1/2”	4”
No. 4	V504080312	4”	4-1/2”



708/57 Universal Packing Ring

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

708/57 Universal Packing Ring Features:

- General purpose leather washer or flat ring gasket.
- Universal finish for all applications.
- Soft, pliable leather for long life.
- Made in USA.

Part Number	Finish	Outside Diameter	Hole Size	Thickness	List Price
708/57 Universal Packing Ring					
R702000106	708/57	2”	1-3/8”	1/8”	$ 2.64
R702080114	708/57	2-1/2”	1-7/8”	1/8”	3.92
R702120202	708/57	2-3/4”	2-1/8”	1/8”	4.62
R703000206	708/57	3”	2-3/8”	1/8”	5.39
R703080214	708/57	3-1/2”	2-7/8”	5/32”	7.13

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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Add extra years to the life of any drill rig with the products used for years.

ISO 9001

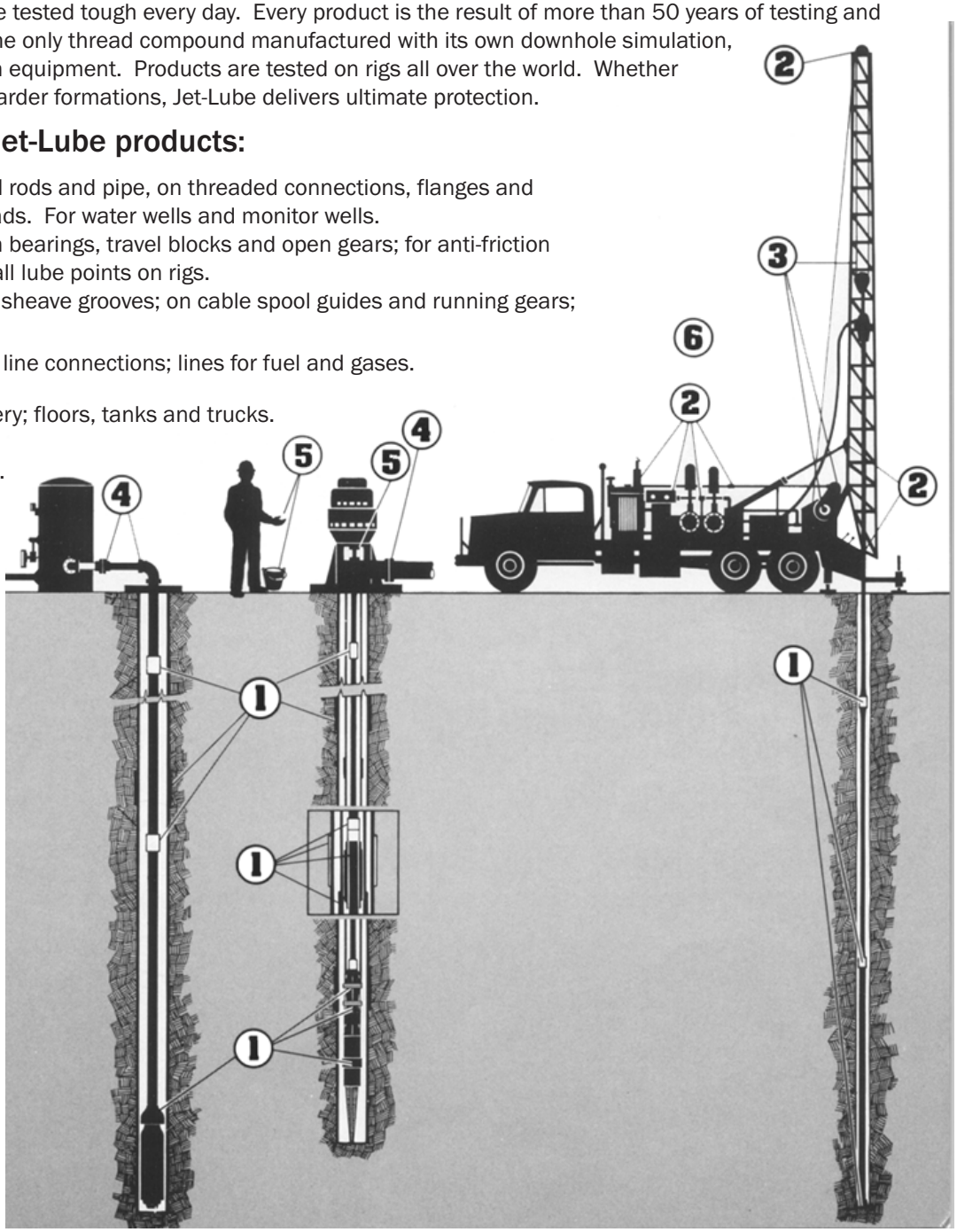
Use Jet-Lube specialty lubricants, thread compounds and sealants on drill rods, pipe, collars, stabs, subs, wire and cable for lower down-time and longer rig life.

Water well drillers use Jet-Lube products on pumps, compressors and potable water connections. You name it, there's a Jet-Lube product for it. There's even environmental safe cleaners and degreasers.

Jet-Lube products are tested tough every day. Every product is the result of more than 50 years of testing and research. Jet-Lube is the only thread compound manufactured with its own downhole simulation, testing and certification equipment. Products are tested on rigs all over the world. Whether drilling in soft rock or harder formations, Jet-Lube delivers ultimate protection.

Where to apply Jet-Lube products:

1. On tool joints, drill rods and pipe, on threaded connections, flanges and exposed threads. For water wells and monitor wells.
2. For swivels, crown bearings, travel blocks and open gears; for anti-friction bearings; for all lube points on rigs.
3. On cables, ropes, sheave grooves; on cable spool guides and running gears; roller chain.
4. For potable water line connections; lines for fuel and gases.
5. For truck machinery; floors, tanks and trucks.
6. Jobsite protection.





JL100 Series

Kopr-Kote® Heavy Duty Drill Pipe Compound (Lead Free)

A high performance, lead free, copper based thread compound for heavy duty drilling. Protects against seizure, galling and downhole makeup.

ARCTIC grade also available. Temp. rating -65°F to 300°F.

ISO 9001

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL10023	1 gal pail	11 lbs.	1	1	$ 199.36
JL10012	2 gal pail	21 lbs.	1	1	379.86
JL10015	5 gal pail	52 lbs.	2	1	747.36
JL10512	**ARCTIC GRADE** 2 gal pail	21 lbs.	1	1	413.93
JL10515	**ARCTIC GRADE** 5 gal pail	52 lbs.	2	1	822.11



JL109 Series

Jet-Lube 21® Intermediate Grade Drill Pipe Compound (Lead Free)

The lead free professional choice for intermediate drilling applications in softer formations. Environmentally safe.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL10923	1 gal pail	10 lbs.	1	1	$ 129.04
JL10912	2 gal pail	20 lbs.	1	1	251.11
JL10915	5 gal pail	49 lbs.	2	1	514.82



JL145 Series

NO LEAD ✓ LEAD-FREE

Eco-Safe™ Nonmetallic Thread Compound

Premium quality, nonmetallic thread compound containing carbon based fibers and additives and other extreme pressure and anti-wear additives.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL14523	1 gal pail	12 lbs.	1	1	$ 203.39
JL14512	2 gal pail	22 lbs.	1	1	374.86



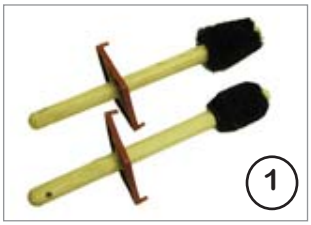
JL668 Series

NO LEAD ✓ LEAD-FREE

Bullseye™ Water Well and Environmental Compound

High purity thread compound designed for sensitive water well and other environmental drilling applications requiring a petroleum hydrocarbon-free product.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL66823	1 gal pail	12 lbs.	1	1	$ 304.68



JL03 Series

Jet-Lube Dope Brushes

Thread compound dope brushes, taper or bevel style. 1 1/8" x 16". Can be used in 1, 2 or 5 gallon pails.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL03000	1 1/8" x 16" Taper	9 lbs.	1	12	$ 43.14
JL03500	1 1/8" x 16" Bevel	9 lbs.	1	12	41.00

American Granby™

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



JL119 Series

JLS® Economy Grade Drill Pipe Compound (Lead Free)

Economical choice for use only where drilling conditions are least demanding. For use in light to medium drilling in sandy formations. Environmentally safe.

ISO 9001

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL11923	1 gal pail	10 lbs.	1	1	$ 103.07
JL11912	2 gal pail	20 lbs.	1	1	190.93
JL11915	5 gal pail	50 lbs.	2	1	401.32



JL185 Series

NO LEAD
LEAD-FREE

Well-Guard® Monitor Well Drill Thread Compound

A thread compound which provides state-of-the-art protection against galling, seizure and thread damage while being in full compliance with all EPA guidelines. Petroleum hydrocarbon-free and brushable to -10°F. Test results available.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL18523	1 gal pail	11 lbs.	1	1	$ 593.29



JL184 Series

Enviro-Guard™ Drop Pipe Lubricant and Sealant.

Specially formulated to aid in the assembly/disassembly of downhole casing for water wells.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL18423	1 gal pail	12 lbs.	1	1	$ 233.54



JL37341

769 Lubricant® and Penetrant

Heavy duty penetrating lubricant for all environments. When drilling in marshland or near coastlines, protects operating parts against salt corrosion. Frees rusted and frozen parts, displaces moisture, cleans and prevents rust. Non-flammable.
MIL-C-23411A. Federal spec V V-P-216B. USDA-H2

ISO 9001

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL37341	12 oz. aerosol	12 lbs.	1	12	$ **25.92**



JL28541

WLD™ Wire Rope, Cable and Roller Chain Dressing and Lubricant

Extend the life of wirelines, ropes, cables, grooves. Specially formulated with molybdenum disulfide and graphite to reduce friction and wear on cable strands. Tacky and adhesive for lasting protection. Penetrates wire strands to lubricate the core, then keeps on working to prevent moisture from corroding the cable. Black

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL28541	12 oz. aerosol	12 lbs.	1	12	$ **28.73**

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JL355 Series

V-2® Multi Purpose PTFE Thread Sealant

A soft setting, non-petroleum based thread sealant for use where immediate pressurization is desired. Non-staining, low odor, off white in color. Use on all types of metals, reinforced fiberglass and PVC. **MIL-TT-S-1732. USDA H-2 Authorized. IAPMO Approved.**

ISO 9001

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL35502	1/2 pint brush top can	11 lbs.	1	12	$ 39.73
JL35504	1 pint brush top can	19 lbs.	1	12	51.29



JL240 Series

TFW™ Anti-Sieze Thread Sealant with PTFE

Low friction and non-toxic, TFW is used to prevent thread leaks of almost all fluids, gases or steam, even at temperatures up to 500 F. Can be used on metal, PVC, ABS and CPVC fittings and piping. **IAPMO approved.**

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL24002	1/2 pint brush top can	9 lbs.	1	12	$ 34.80
JL24004	1 pint brush top can	17 lbs.	1	12	48.07



JL71741

Pitless Adapter Lube™ Assembly Lubricant

Preservative designed to aid in installation of pitless adapters. **USDA H-1 authorized.** Corrosion preventative contains anti-bacterial/anti-fungal additive.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL71741	12 oz. aerosol	13 lbs.	1	12	$ 28.11



JL23023

TF-15® Thread Sealant with PTFE for fiberglass pipe

High pressure thread sealant containing PTFE and EP additives that allow for easy breakout without seizing, stripping or galling. Highly recommended for use as a sealant on fiberglass tubing and casing threads. **Passes California COR Title 22**

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL23023	1 gal pail	11 lbs.	1	1	$ 209.21

ISO 9001



JL72542

Clean-Up Plus™ Organic Solvent Cleaner

Environmentally safe cleaner and degreaser. Blend of organic solvents, safe non-flammable CO2 propellant. Citrus scent. Residue free product is safe on all metals. 29KV dielectric strength. No Tri 1-1-1. **USDA authorized.**

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL72542	15 oz. aerosol	16 lbs.	1	12	$ **27.04**



JL61542

Clean-Up™ Industrial Cleaner and Safety Solvent

Heavy duty low foaming cleaner/degreaser. Fast working, non-flammable residue free product formulated with an ozone friendly chlorinated solvent. 29 KV dielectric strength. No Tri 1-1-1.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL61542	18 oz. aerosol	15 lbs.	1	12	$ **27.21**



JL16041

Moly Mist™ Dry Film Lubricant

Use to break in equipment and assemble moving parts. Micro-fine molybdenum disulfide suspended in a quick-drying carrier. Bonds to any surface in seconds to provide low coefficient of friction, extended lubrication and improved operation.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty	List Price
JL16041	12 oz. aerosol	13	1	12	$ **35.03**

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

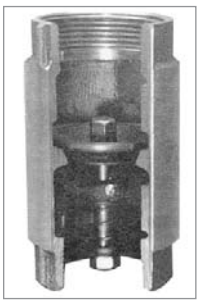
SECTION 2
FOOT & CHECK VALVES
YARD HYDRANTS

PRODUCT LINE **PAGE**

Check Valves
- NL Brass, Brass, Bronze, Stainless Steel 1-4
- Clayton Mark 7-9
- Plastic 15
- Simmons 11-12

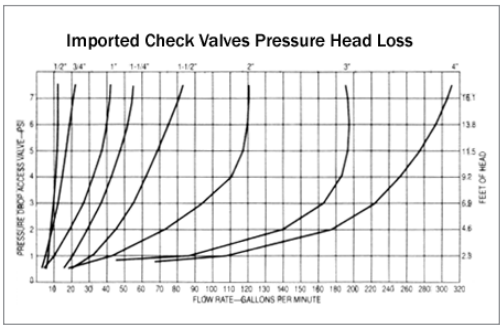
Foot Valves
- NL Brass, Brass, Bronze, Stainless Steel 5-6
- Cast Iron, Steel Suction Strainer 16
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CHECK VALVE Features:

- NO LEAD cast brass, bronze body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**





CVNL-BS Series

CVNL-BS Series NO LEAD BRASS Check Valves

- Rough body finish.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVNL50BS	1/2”	100	$ 12.46
CVNL75BS	3/4”	80	16.89
CVNL100BS	1”	60	**23.39**
CVNL125BS	1 1/4”	40	**32.50**
CVNL150BS	1 1/2”	30	44.46
CVNL200BS	2”	20	73.04
CVNL300BS	3”	6	334.82
CVNL400BS	4”	3	631.61



CVNL-B Series

CVNL-B Series NO LEAD BRONZE Check Valves

- Machined body finish.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVNL50B	1/2”	100	$ **17.68**
CVNL75B	3/4”	80	**24.18**
CVNL100B	1”	60	**34.75**
CVNL125B	1 1/4”	40	**46.32**
CVNL150B	1 1/2”	30	**65.39**
CVNL200B	2”	20	**107.64**
CVNL300B	3”	6	**416.07**



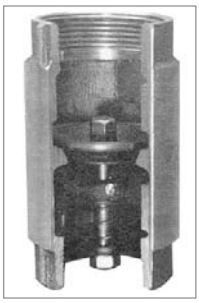
SSCV Series

SSCV Series STAINLESS STEEL Check Valves

- 304 cast stainless steel casting, springs, washers, lock nut.
- Viton o-ring.
- For cold water applications only.

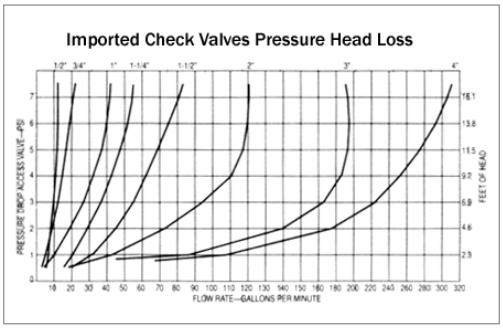
Part Number	Size	Ctn Qty	List Price
SSCV50	1/2”	100	$ 22.32
SSCV75	3/4”	80	30.18
SSCV100	1”	60	40.36
SSCV125	1 1/4”	40	53.39
SSCV150	1 1/2”	30	74.82
SSCV200	2”	20	128.39
SSCV300	3”	6	**510.71**
SSCV400	4”	3	910.54
SSCV1025	1” fpt x 1 1/4” mpt	60	**53.39**

Check Valves - NO LEAD Brass



CHECK VALVE Features:

- NO LEAD cast brass or stainless steel body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**





CVXLDNL Series

CVXLDNL Series NO LEAD BRASS Check Valves

- Rough body finish.
- Extra long at discharge end.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVXLDNL100BS	1” x 1"	60	$ **43.93**
CVXLDNL125BS	1 1/4" x 1 1/4"	40	**53.93**



CVMNL-BS Series

CVMNL-BS Series NO LEAD BRASS Submersible Check Valves

- Rough body finish.
- FPT x MPT
- For cold water applications only.

Part Number	Size (FPT x MPT)	Ctn Qty	List Price
CVMNL100BS	1” x 1"	60	$ 41.43
CVMNL125BS	1” x 1 1/4”	40	44.11
CVMNL1252BS	1 1/4” x 1 1/4”	60	**48.64**



CVMXLNL Series

CVMXLNL Series NO LEAD BRASS Submersible Check Valves

- Rough body finish.
- Extra long body.
- For cold water applications only.

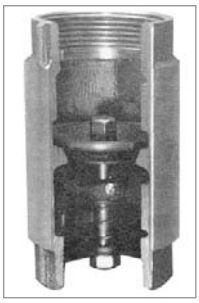
Part Number	Size (M x F)	Ctn Qty	List Price
CVMXLNL100BS	1” x 1"	60	$ **39.93**
CVMXLNL125BS	11/4" x 1 1/4"	40	48.75

American Granby

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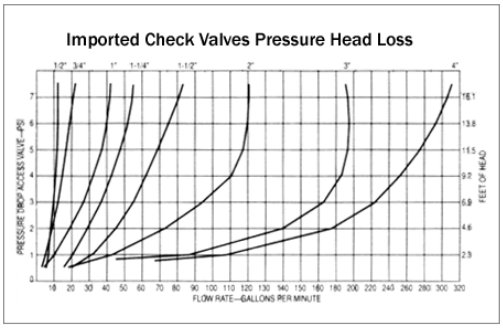
In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



CHECK VALVE Features:

- NO LEAD cast brass body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- Third party certified to NSF/ANSI 372.





CVTNL-1B Series

CVT-1B Series NO LEAD BRASS Single Tap Check Valves

- 1/8" inlet tap.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVTNL1001BS	1"	60	$ 37.32
CVTNL1251BS	1 1/4"	40	50.36



CVTNL-2BS Series

CVRT-2BS Series NO LEAD BRASS Double Tap Check Valves

- One 1/8" inlet tap.
- One 1/4" outlet tap.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVTNL1002BS	1"	60	$ 34.11
CVTNL1252BS	1 1/4"	40	49.82
CVTNL1502BS	1 1/2"	30	74.50
CVTNL2002BS	2"	20	123.00



CVTNL-3BS Series

CVT-3B Series NO LEAD BRASS Control Center Check Valves

- One 1/8" inlet tap.
- One 1/8" and one 1/4" outlet taps.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVTNL1003BS	1"	60	$ 46.25
CVTNL1253BS	1 1/4"	40	62.32



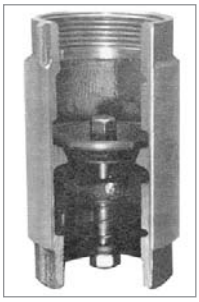
CVCNL-BS Series

CVC-B Series NO LEAD BRASS Control Center Check Valves

- One 1/8" inlet tap.
- One 1/8" and two 1/4" outlet taps.
- For cold water applications only.

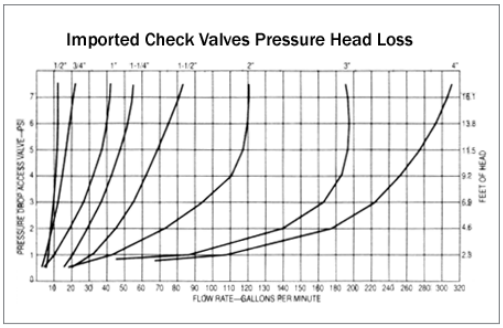
Part Number	Size	Ctn Qty	List Price
CVCNL100BS	1"	60	$ 42.68
CVCNL125BS	1 1/4"	40	58.93

Check Valves - LEADED Brass



CHECK VALVE Features:

- Cast brass, bronze body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- Imported.





CV-BS Series

CV-BS Series LEADED BRASS Check Valves

- Rough body finish.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CV50BS	1/2”	100	$ 7.79
CV75BS	3/4”	80	10.50
CV100BS	1”	60	14.14
CV125BS	1 1/4”	40	21.96
CV150BS	1 1/2”	30	34.82
CV200BS	2”	20	59.67



CAUTION
DO NOT USE WITH POTABLE WATER

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204





FVNL-BS Series



FVNL-B Series



FVNL-B Series



SSFV Series

FOOT VALVE Features:

- NO LEAD Cast Brass, bronze or stainless steel body & poppet.
- Buna-N o-ring (Viton on stainless steel).
- Stainless steel springs, washers, locknuts and strainers.
- 200 psi WOG working pressure.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**

FVNL Series LEAD FREE BRASS Foot Valves

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

- Rough body finish.
- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty	List Price
FVNL50BS	1/2"	1 1/4"	100	$ 13.39
FVNL75BS	3/4"	1 1/2"	80	14.93
FVNL100BS	1"	2"	60	**22.32**
FVNL125BS	1 1/4"	2 1/2"	40	28.29
FVNL150BS	1 1/2"	3"	30	42.68
FVNL200BS	2"	3 1/2"	20	67.32
FVNL300BS	3”	5”	8	256.96
FVNL400BS	4”	-	4	462.50

FV-B Series NO LEAD BRONZE Foot Valves

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty	List Price
FVNL50B	1/2"	1 1/4"	100	$ 15.18
FVNL75B	3/4"	1 1/2"	80	19.11
FVNL100B	1"	2"	60	**27.50**
FVNL125B	1 1/4"	2 1/2"	40	38.75
FVNL1251B	1 1/4"	2"	50	37.32
FVNL150B	1 1/2"	3"	30	55.89
FVNL200B	2"	3 1/2"	20	89.11
FVNL300B	3"	5"	8	328.39
FVNL400B	4"	-	4	567.86

FV-B Series NO LEAD BRONZE Dual Purpose Foot Valves

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty	List Price
FVNL100125B	1" FPT x 1 1/4"MPT	2"	60	$ 36.61

SSFV Series STAINLESS STEEL Foot Valve Features:

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

- 304 Stainless steel casting, spring, washer, locknut, strainer
- Viton o-ring.
- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty	List Price
SSFV50	1/2”	1 1/4"	100	$ 17.96
SSFV75	3/4”	1 1/2"	80	30.18
SSFV100	1”	2"	60	43.74
SSFV125	1 1/4”	2 1/2"	40	54.97
SSFV150	1 1/2”	3"	30	67.68
SSFV200	2”	3 1/2"	20	120.54
SSFV300	3”	5"	8	511.32
SSFV400	4”	-	4	1038.73

Foot Valves - Replacement parts

FVSC, CVSP Series Stainless Screen, Endcap, Screw, Spring

NO LEAD ✓ LEAD-FREE

- Spring replacement for all imported check and foot valves



FVSC & CVSP Series

Screen/Cap/Screw Part Number	Spring Part Number	Size	FVSC List Price	CVSP List Price
FVSC50	CVSP50	1/2”	$ 6.36	$ 2.68
FVSC75	CVSP75	3/4”	6.71	2.68
FVSC100	CVSP100	1”	7.36	2.68
FVSC125	CVSP125	1 1/4”	8.86	3.36
FVSC150	CVSP150	1 1/2”	9.11	3.36
FVSC200	CVSP200	2”	12.04	3.75
FVSC300	CVSP300	3”	43.75	4.43
FVSC400	CVSP400	4”	62.50	4.79

American Granby™

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

No Lead Check Valves - Clayton Mark

- **FOR USE IN WATER WELL SYSTEMS**
- **Third party certified to NSF/ANSI 372.**

CLAYTON MARK®

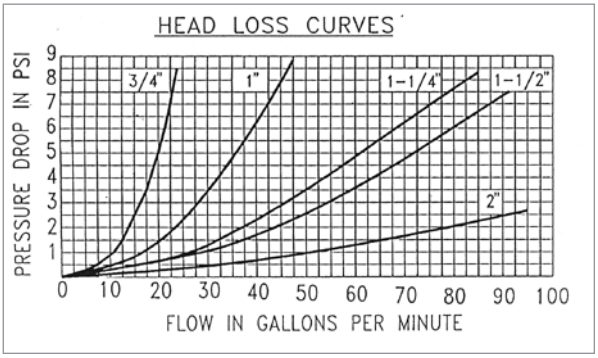
LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



6300 No Lead Brass Check Valve Features:

- The Buna-N rubber coated poppet seals under high & low pressure applications.
- Delrin Stem Guide to improve flow.
- Self locking nut is vibration proof.
- Stainless steel spring.
- 400 PSI rated (WOG).
- For cold water applications only.
- Hex ends for easy installation.

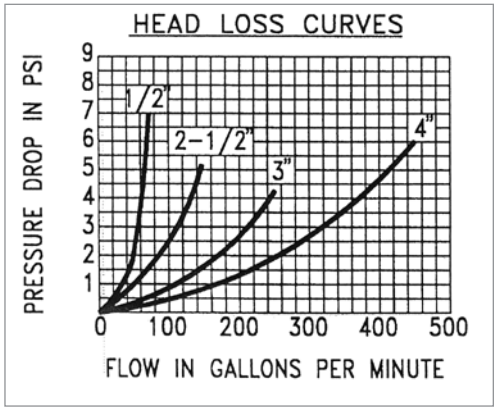


Part Number	Size	Enters Casing	Ctn Qty	List Price
6300-3/4	3/4"	1-1/2"	48	$ **41.65**
6300-1	1"	2"	35	**45.35**
6300-11/4	1-1/4"	2-1/2"	24	**62.19**
6300-11/2	1-1/2"	3"	20	**91.28**
6300-2	2"	3-1/2"	12	**143.00**



5300 No Lead Brass Check Valve Features:

- Highly finished no lead brass body with a flat seated poppet to withstand increased water pressure for a continuous period of time.
- 400 PSI (W.O.G.)
- For cold water applications only.
- Corrosion resistant, stainless steel poppet core on 5300-1/2".
- No Lead Brass poppet on 5300-2 1/2, 3 & 4".
- Not suitable for all types of oil and gas.
- Heavy hex ends for easy installation.



NO LEAD Part Number	Leaded Part Number	Size	Enters Casing	Ctn Qty	NO LEAD List Price	Leaded List Price
5300-1/2		1/2"	1-1/2"	48	$ **42.54**	
5300-21/2		2-1/2"	5"	1	**587.28**	
5300-3		3"	6"	1	**811.97**	
5300-4	L5300-4 *	4"	8"	1	**1411.57**	309.53

* Valve is leaded bronze. Do not use for potable water.

No Lead Check Valves - Clayton Mark

- FOR USE IN WATER WELL SYSTEMS
- Third party certified to NSF/ANSI 372.

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LOW-LEAD IAPMO R&T

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6300-1 No Lead Brass One Hole Control Center

- 1/8”-27NPS tapping on inlet side for snifter valve.
- NOTE: 2-1/2 inch size has the 5300 poppet design.

Part Number	Size	Ctn Qty	List Price
63001-1	1”	35	$ 61.25
63001-11/4	1-1/4”	30	80.89
63001-11/2	1-1/2”	20	107.23
63001-2	2”	12	169.78



6300-2 No Lead Brass Two Hole Control Center

- 1/8”-27NPS tapping on inlet side for snifter valve.
- 1/4”-18NPS tapping on outlet side for pressure switch.
- NOTE: 4 inch has the 5300 poppet design.

Part Number	Size	Ctn Qty	List Price
63002-1	1”	35	$ 62.04
63002-11/4	1-1/4”	30	85.67
63002-11/2	1-1/2”	20	111.21
63002-2	2”	12	172.36



63000218 No Lead Brass Two Hole Control Center

- Two 1/4”-18NPS tappings on outlet side.

Part Number	Size	Ctn Qty	List Price
6300218-1	1”	35	$ 62.33
6300218-11/4	1-1/4”	30	90.52



6300-3 No Lead Brass Three Hole Control Center

- 1/8”-27NPS tapping on inlet side for snifter valve.
- 1/4”-18NPS tapping on outlet side for pressure switch.
- 1/4”-18NPS tapping on outlet side for pressure gauge.

Part Number	Size	Ctn Qty	List Price
63003-1	1”	35	$ 58.24
63003-11/4	1-1/4”	30	94.49

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No Lead Check Valves - Clayton Mark

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CLAYTON MARK®

LOW-LEAD IAPMO R&T

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6300-4 No Lead Brass Four Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- 1/4"-18NPS tapping on outlet side for pressure gauge.
- 1/4"-18NPS tapping on outlet side for pressure switch.
- 1/8" tapping on outlet side for drain(1/8" brass plug furnished).

Part Number	Size	Ctn Qty	List Price
63004-1	1"	35	$ 62.22
63004-11/4	1-1/4"	30	85.44



6302 No Lead Brass Submersible Check Valves

- Fits directly on pump discharge.

Part Number	Size (mpt x fpt)	Ctn Qty	List Price
6302-11/4x1	1-1/4" x 1"	30	$ 45.66
6302-11/4x11/4	1-1/4" x 1-1/4"	30	60.77
6302-2x2	2" x 2"	12	166.90
6302-3x3	3" x 3"	1	690.79
6302-4x4	4" x 4"	1	1126.43



479 No Lead Brass BREMER CHECK VALVES

- Non corrosive no lead brass with tapered seat and poppet with Perma-Kleen facing for positve seal.
- Uses a tapered rubber packer to seal in the well bore.

Part Number	Size	Ctn Qty	List Price
8669A	2"	12	$ 70.27
8034C	2" Rubber Check Packer		11.17

No Lead Foot Valves - Clayton Mark

- FOR USE IN WATER WELL SYSTEMS
- Third party certified to NSF/ANSI 372.

CLAYTON MARK®

LOW-LEAD IAPMO R&T

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6340 SERIES No Lead Brass Foot Valves

- 400 PSI rating. (W.O.G.)
- Tapered ABS strainer.
- Corrosion resistant, stainless steel core with exclusive cup shape.
- For cold water applications only.
- Jam proof delrin stem guide.

Part Number	Size	Enters Casing	Ctn Qty	List Price
6340-3/4	3/4"	1-1/2"	48	$ 37.94
6340-1	1"	2"	35	42.17
6340-11/4	1-1/4"	2"	30	50.86
6340-11/2	1-1/2"	3"	20	82.11
6340-2	2"	3-1/2"	12	130.28



5340 SERIES No Lead Brass Foot Valves

- No. 8 perforated stainless steel screen strainer.
- 400 PSI rating.
- Corrosion resistant, stainless steel core with exclusive cup shape.
- For cold water applications only.

Part Number	Size	Enters Casing	Ctn Qty	List Price
5340-3/4	3/4"	1 1/4"	48	$ 41.76
5340-1	1"	1 1/2"	35	46.41
5340-11/4	1 1/4"	2"	24	56.08
5340-11/2	1 1/2"	2 1/2"	20	102.60
5340-2	2"	3 1/2"	12	145.57



5330 Series No Lead Brass Foot Valves

- No 8 perforated stainless steel strainer.
- Heavy hex end.

NO LEAD Part Number	Leaded Part Number	Size	Enters Casing	Ctn Qty	NO LEAD List Price
5330-21/2		2-1/2"	5"	1	$ 477.41
5330-3		3"	6"	1	682.01
5330-4		4"	6"	1	1081.58

* Valve is leaded bronze. Do not use for potable water.

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- **FOR USE IN WATER WELL SYSTEMS**

* **Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.**



LF5100 Series Silicon Bronze LEAD FREE* check valves

- Silicon bronze cast body and poppet..
- Buna-N o-ring, stainless steel spring, washer and lock nut.
- 400 PSI (WOG working pressure).
- Made in U.S.A.

Part Number	Simmons	Size	Ctn Qty	List Price
LF5100-1/2	501SB	1/2”	50	$ 57.02
LF5100-3/4	502SB	3/4”	50	57.72
LF5100-1	503SB	1”	50	60.78
LF5100-1LT	513SB	1” w/ Longer Threads	50	63.40
LF5100-11/4	504SB	1 1/4”	36	83.32
LF5100-11/2	505SB	1 1/2”	24	117.88
LF5100-2	506SB	2”	16	188.36
LF5100-21/2	507SB	2 1/2”	1	803.77
LF5100-3	508SB	3”	1	968.68
LF5100-4	509SB	4”	1	1684.00
LF5100-5	510SB	5” w/ MPT both ends	1	2264.61
LF5100-6	511SB	6”	1	3077.61



LF5100A Series Silicon Bronze LEAD FREE* check valves

- Sames as 5100 Series plus:
- 1/8” single inlet tapping.
- Made in U.S.A.

Part Number	Simmons	Size	Ctn Qty	List Price
LF5100A1	522SB	1”	50	$ 77.53
LF5100A11/4	523SB	1 1/4”	36	103.42
LF5100A11/2	524SB	1 1/2”	24	127.94
LF5100A2	525SB	2”	16	202.53



LF5100B Series Silicon Bronze LEAD FREE* Check Valves

- Sames as 5100 Series plus:
- With 1/8” Inlet Tapping, 1/4” Outlet Tappings.
- Made in U.S.A.

Part Number	Simmons	Size	Ctn Qty	List Price
LF5100B3/4	541SB	3/4”	50	$ 69.31
LF5100B1	542SB	1”	50	83.23
LF5100B11/4	543SB	1 1/4”	36	102.42
LF5100B11/2	544SB	1 1/2”	24	132.64
LF5100B2	545SB	2”	16	205.60
LF5100B3	547SB	3	1	1418.32

No Lead Check Valves - Simmons

- **FOR USE IN WATER WELL SYSTEMS**
- *** Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.**



LF5100C Series Silicon Bronze LEAD FREE* Control Center

- Made in U.S.A.

Part Number	Simmons	Size	Inlet Tap	Outlet Tap	Ctn Qty	List Price
LF5100C1	601SB	1”	1/8" (1)	1/4" (2)	1	$ 83.41
LF5100C11/4	602SB	1 1/4”	1/8" (1)	1/4" (2)	1	108.02
LF5100C11/2	603SB	1 1/2”	1/8" (1)	1/4" (2)	1	137.62
LF5101C1	606SB	1"	-	1/4" (2)	1	83.41
LF5101C11/4	607SB	1 1/4"	-	1/4" (2)	1	108.02



LF5100D Series Silicon Bronze LEAD FREE* submersible Check Valves

- Installation between pump and column pipe.
- Made in U.S.A.

Part Number	Simmons	Size (FxM)	Ctn Qty	List Price
LF5100D1x1	616SB	1”x1”	1	$ 61.67
LF5100D1x1LT	610SB	1”x1” w/ longer threads	1	66.26
LF5100D1x11/4	617SB	1”x1 1/4”	1	59.60
LF5100D11/4x11/4	618SB	1 1/4”x1 1/4”	1	84.84



LF6700 Series DUCTILE IRON LEAD FREE* Check Valve

- Ductile iron body - STEMMED
- Silicon bronze poppet and stainless steel spring and nut.
- Non toxic paint.
- For use with large submersible pumps.
- Made in U.S.A.

Part Number	Simmons	Size	Pipe	Ctn Qty	List Price
LF6700-1	653SB	1”	1 7/8”	1	$ 35.05
LF6700-11/4	654SB	1 1/4”	2 5/16”	1	56.30
LF6700-11/2	655SB	1 1/2”	2 5/8”	1	70.05
LF6700-2	680SB	2”	3 1/4”	1	109.31
LF6700-3	670SB	3”	4 1/8”	1	414.88
LF6700-4	671SB	4”	5 5/8”	1	648.77
LF6700-6	672SB	6”	7 5/8”	1	1177.06
LF6700-8	673SB	8”	9 5/8”	1	2979.74



LF7000 Series Silicone Bronze LEAD FREE* Pressure Regulator Valve

- Silicon bronze cast body.
- Adjustable bronze cylinder control
- For deep well pumps.
- Positive o-ring seat.
- PT series with pressure line tapping.
- Made in U.S.A.

Part Number	Simmons	Size	Line Tap	Ctn Qty	List Price
LF7000-3/4	730SB	3/4 x 3/4 x 3/4”	-	1	$ 96.39
LF7000PT1	731SB	1 x 1 x 1”	1/8”	1	109.67

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- FOR USE IN WATER WELL SYSTEMS

* Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.



5000S Series Silicone Bronze Foot Valve Features:

- Silicon bronze cast body and poppet.
- Stainless steel perforated screen.
- Specify LFN5000S 1-1/4 special valve for 2" ID casing.
- 400 PSI working pressure
- Made in U.S.A.

Part Number	Simmons	Size	Ctn Qty	List Price
LF5000S3/4	452SB	3/4"	60	$ 50.84
LF5000S1	453SB	1"	60	56.49
LFN5000S11/4	404SB	1 1/4"	36	66.26
LF5000S11/4	455SB	1 1/4"	36	68.16
LFS5000S11/4	454SB	1 1/4"	36	61.72
LF5000S11/2	456SB	1 1/2"	24	110.03
LF5000S2	457SB	2"	12	174.55
LF5000S21/2	458SB	2 1/2"	1	580.45
LF5000S3	459SB	3"	1	797.56
LF5000S4	460SB	4"	1	1327.06



LF4000 Series SILICON BRONZE Dual Purpose Foot Valve Features:

- Same as LF5000S Series plus:
- Dual purpose foot valve. Threaded inside and outside.
- Made in U.S.A.

Part Number	Simmons	Size (F x M)	Ctn Qty	List Price
LF4000-1 x 11/4	466SB	1" x 1 1/4"	1	$ 63.38
LF4000-11/4 x 11/2	467SB	1 1/4" x 1 1/2"	1	75.44



LF50S Series SILICON BRONZE Suction Strainer Features:

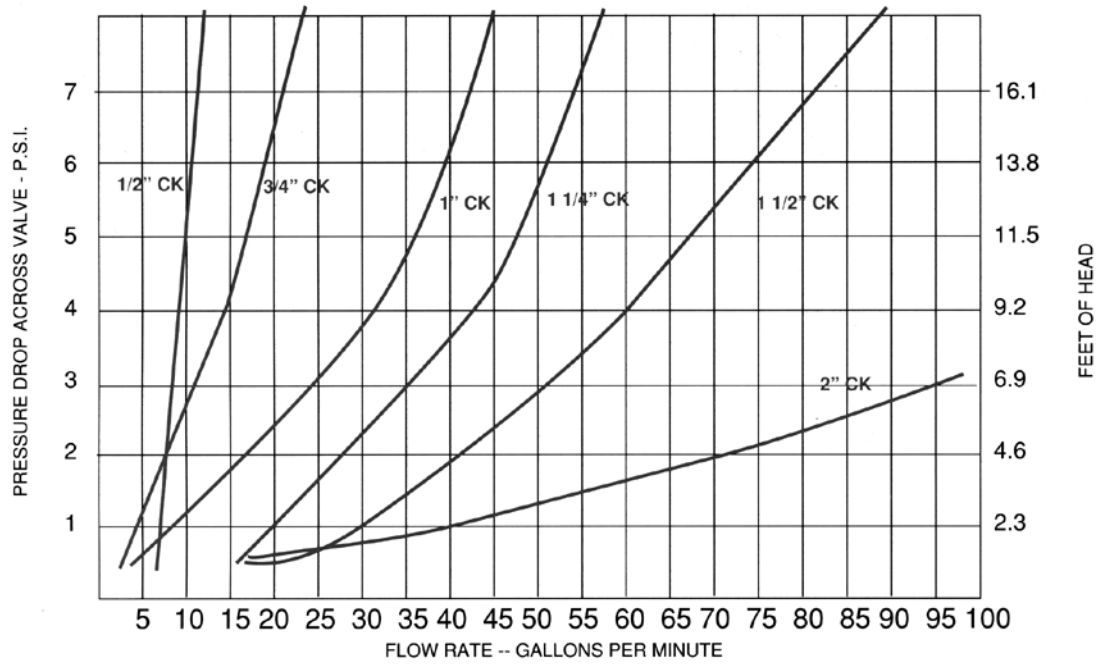
- Same as LF5000S Series plus:
- Full flow suction strainer.
- Made in U.S.A.

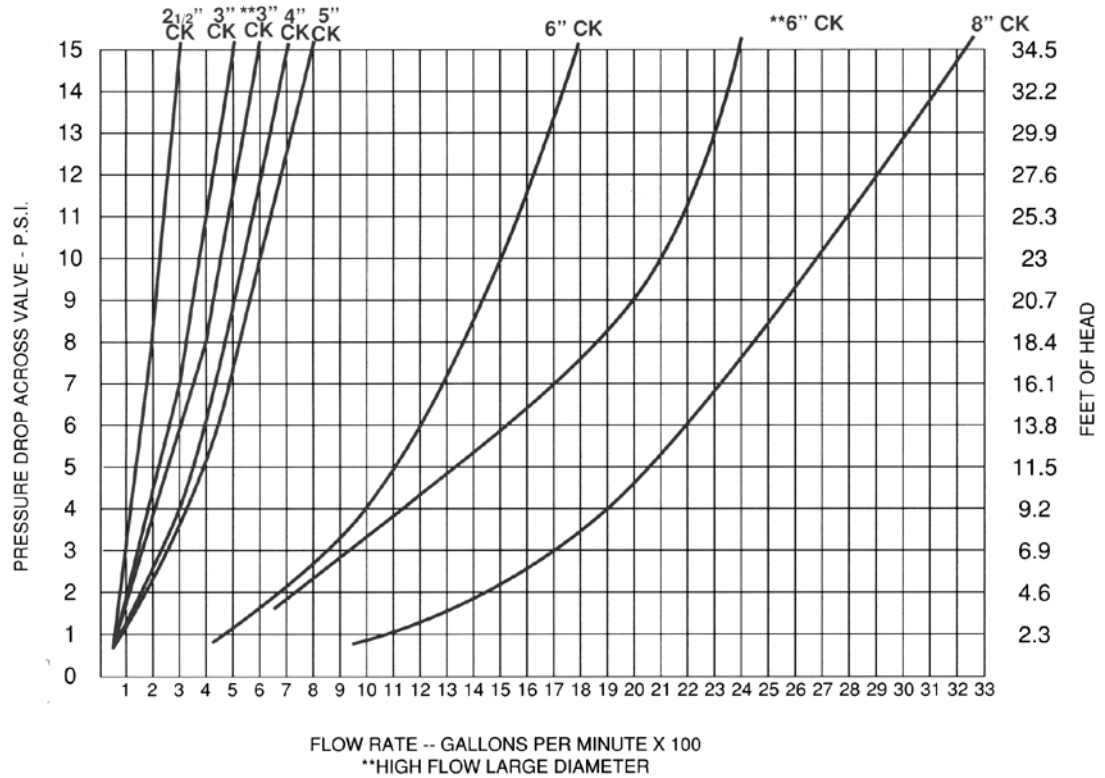
Part Number	Simmons	Size	Diameter	Length	Ctn Qty	List Price
LF50S1	491SB	1"	1 3/4"	4 3/4"	1	$ 58.86
LF50S11/4	492SB	1 1/4"	2 5/16"	5 1/4"	1	78.40
LF50S11/2	493SB	1 1/2"	2 1/2"	6 5/16"	1	110.30
LF50S2	494SB	2"	3 1/8"	7 3/16"	1	169.11
LF50S21/2	495SB	2-1/2"	4"	9 3/8"	1	406.45

Check Valves - LF5100 Series Pressure, Head Loss

Applies to all Simmons LF5100 Series check valves on previous pages

Pressure and Head Loss Check Valve





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FV441

HARVARD Four in One Plastic Foot Valve

- Positive sealing - spring loaded valve poppet closes against a smooth tapered seat.
- Corrosion resistant nylon body and internals.
- Self cleaning design for continuous positive sealing.
- Large screen designed to assure smooth water passage and better suction.
- Tapered screen eliminates pipe joint hang-ups during installation.
- Fits four pipe sizes., 3/4" through 1 1/2".
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn Qty	List Price
FV441	3/4” through 1 1/2”	100	$ 15.54



FV Series



LC Series



FV SN Series

Brady Plastic Foot & Check Valve Features:

- “Nose Cone” diffuser reduces friction.
- 50% greater water flow.
- Acetal copolymer construction.
- Non-electrolytic, non-corrosive.
- Spring loaded, 316 stainless steel
- BUNA-N seal
- Pressure max: 175 psi
- Temperature max: 180 F
- LC check valve, FPT x FPT
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn Qty	List Price
Brady Foot Valve - Spring Loaded			
FV75	3/4”	12	$ 26.73
FV100	1”	30	30.66
FV125	1-1/4”	32	43.61
FV150	1-1/2”	21	52.95
Brady Check Valve- Spring Loaded			
LC75	3/4”	24	23.03
LC100	1”	24	25.45
LC125	1-1/4”	24	37.45
LC150	1-1/2”	12	44.84
Brady Foot Valve Strainer			
FV75SN	3/4”	50	2.44
FV100SN	1”	50	3.35
FV125SN	1-1/4”	50	3.90
FV150SN	1-1/2”	50	3.76

Foot Valves - Cast Iron, Steel Suction Strainer



5400 Series

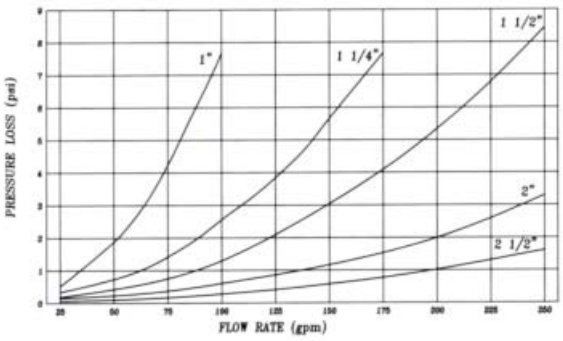
Cast Iron Foot Valve Features:

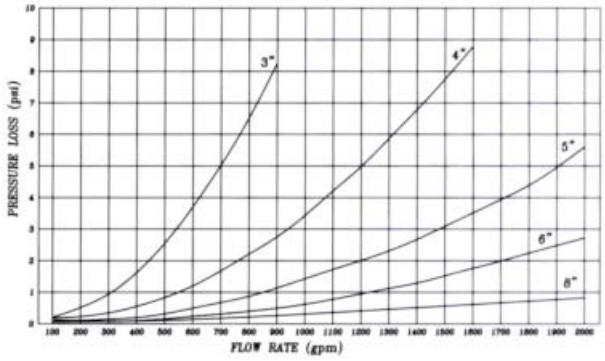
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NO LEAD LEAD-FREE

- Painted red finish.
- Includes neoprene flapper check to maintain prime.
- For use in drainage on construction sites, irrigation projects, pumping from ponds or streams.

Part Number	Valve Size	Flapper OD Size	List Price
5400-1	1”	2 1/2”	$ 26.82
5400-11/4	1-1/4”	2 3/4”	40.95
5400-11/2	1-1/2”	3 1/4”	49.18
5400-2	2”	4 1/4”	52.61
5400-21/2	2-1/2”	5”	89.80
5400-3	3”	5 3/4”	93.99
5400-4	4”	7”	190.00
5400-6	6”	10 1/8”	480.13
5400-8	8”	12 7/8”	912.24







CIRK Series



5400-LR Series

5400 Series Complete Repair Kits

NO LEAD LEAD-FREE

- Contains all components required to replace inner flapper assembly.
- Includes valve weight, neoprene flapper, sealing washer, bolt, washer & nut.

Replacement Parts for 5400 Series Foot Valves

Valve Size	LEATHER FLAPPER ONLY Part No.	List Price	NEOPRENE FLAPPER ONLY Part No.	List Price	COMPLETE REPAIR KIT (w/ neoprene flapper) Part No.	List Price
1”	5400-1LR	$ 7.52				
1 1/4”	5400-11/4LR	8.79				
1 1/2”	5400-11/2LR	9.51	8367C	6.65		
2”	5400-2LR	13.56	8367D	9.51		
2 1/2”	5400-21/2LR	14.39	8367E	10.11		
3”	5400-3LR	20.32	8367F	24.00		
4”	5400-4LR	50.09	8367G	34.87	CIRK400	88.31
5”	5400-5LR	66.78	-	-		
6”	5400-6LR	82.16	8367J	57.50	CIRK600	187.56
8”	5400-8LR	128.62	8367K	79.03	CIRK800	271.58

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5451NL Series

NO LEAD Series Frost Proof Yard Hydrant Features:

CLAYTON MARK®

Independent LAB tested flow rates 45 gpm @ 50 psi

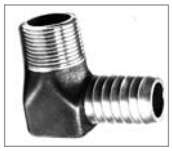
- Fully frost proof, shut-off valve below frost line.
- Heavy cast iron head with 3/4" brass discharge connection and bucket hook.
- Can be padlocked.
- Heavy, galvanized steel, corrosion resistant, 1" stand-pipe.
- Galvanized carbon steel connecting rod. Stainless steel operating rod.
- Long lasting Buna-N rubber plunger with solid brass core.
- Integral valve seat cast into brass valve body. 3/4" FPT connection with double bypass bottom valve for superior flow, less risk of debris blockage.
- 1/8" FPT back drain hole.
- Rated to 80 PSI, adjustable. See page 2.18 for adjustment procedure.
- Packed securely in individual heavy weight carton.
- Independent lab tested.
- Lead Free. **Third party certified to NSF/ANSI 372.**

Part Number	Bury Depth	Overall Length	Weight (Pounds)	List Price
54511NL	1	42"	12.4	$ **143.20**
54512NL	2	54"	15.2	**151.81**
54513NL	3	66"	17.8	**164.25**
54514NL	4	78"	21.0	**176.07**
54515NL	5	90"	22.3	**188.52**
54516NL	6	102"	26.2	**196.61**
54518NL	8	126"	30.7	**225.23**



HVBAD75NL

Part Number	Description	Ctn/Case Qty	List Price
NO LEAD Vacuum Breaker Meets ASSE 1011			
HVBAD75NL	3/4"NL Brass w/ auto back drain fght x mght	10/100	$ **15.54**



NLRBHE Series



NLRBHT Series

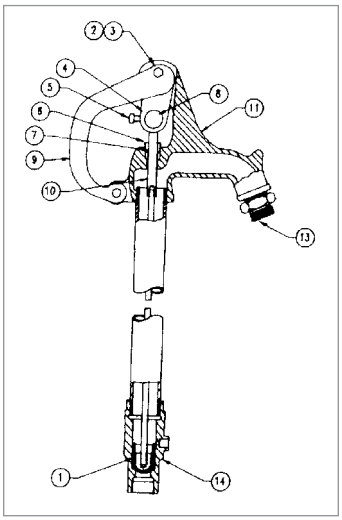


SSHE Series

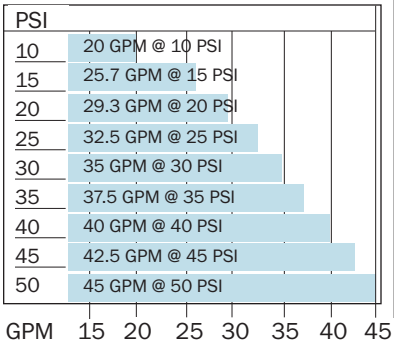


SSHT Series

Part Number	Size	# Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Hydrant Elbow (INSxMIP)				
NLRBHE3/4	3/4"x 3/4"	5	10/100	$ 13.75
NLRBHE1X3/4	1" x 3/4"	5	10/100	16.43
NLRBHE1	1" x 1"	5	10/100	19.14
NLRBHE11/4	1 1/4" x 1 1/4"	5	5/50	32.32
No Lead Cast Bronze Extra Long Hydrant Elbow (INS x MIP)				
NLXLRBHE1	1"x 1"	8	10/100	23.39
NLXLRBHE1X3/4	1" x 3/4"	10	10/100	23.04
No Lead Cast Bronze Hydrant Tee (INS x MIP)				
NLRBHT3/4	3/4" x 3/4"	6	10/100	20.54
NLRBHT1x3/4	1" x 3/4"	6	10/100	24.25
NLRBHT1	1" x 1"	6	10/100	27.68
Stainless Steel Hydrant Elbow (INSxMIP)				
SSHE3/4	3/4"x 3/4"	5	10/100	20.94
SSHE1X3/4	1" x 3/4"	5	10/100	23.21
SSHE1	1" x 1"	5	10/100	31.01
SSHE11/4	1 1/4" x 1 1/4"	5	10/50	40.38
Stainless Steel Hydrant Tee (INS x MIP)				
SSHT3/4	3/4" x 3/4"	4	10/100	24.32
SSHT1x3/4	1" x 3/4"	6	10/100	30.41
SSHT1	1" x 1"	4	10/100	33.25



3/4" 5451NL Hydrant Flow Rates

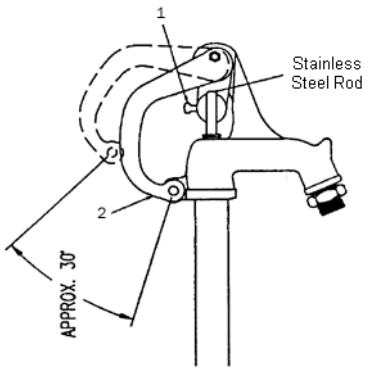


5451NL Series Hydrant Replacement Parts

Part Number	Item Number	Description	List Price
YRK1		Repair Kit (Items 1-8)	$ 17.33
9175B	1	Plunger - BUNA N rubber/brass	6.37
9023B	2	Fulcrum Bolt - zinc plated steel	0.36
9023C	3	Fulcrum Nut - zinc plated steel	0.27
9023D	4	Links (set of 2) - zinc plated steel	2.38
9023E	5	Set Screw square head - zinc plated steel	0.47
9023A	6	Packing Nut - brass	3.18
29609G	7	Packing - graphite (2 - 1 old, 1 new style)	4.03
9023G	8	Connector - brass	5.79
2506K	9	Handle - painted cast iron	10.14
2222AHSS	10	Clevis Rod - SS NEW STYLE (for double bypass)	11.77
2500K	11	Head only - painted cast iron	34.19
382914	13	Hose Adapter - brass	7.31
381504	14	Valve Body - brass	45.00
2575K		Complete Head Assembly (Items 2-13)	56.18
STEEL ROD (use with double bypass valve 5451 Series)			
TA7100099NS	54511 Rod (32.4")		11.89
TA7100100NS	54512 Rod (44.4")		15.46
TA7100101NS	54513 Rod (56.4")		19.03
TA7100102NS	54514 Rod (68.4")		20.60
TA7100103NS	54515 Rod (80.4")		26.17
TA7100104NS	54516 Rod (92.4")		29.74
TA7100105NS	54518 Rod (116.4)		36.89

NOTE: All 5451NL Series Hydrants are preset at factory.
There should be no need for any adjustment on initial installation.
Adjust only if water does not shut off or hydrant does not operate properly.

5451NL HYDRANT ADJUSTMENT PROCEDURE



1. Turn water supply OFF.
2. Open hydrant to relieve pressure.
3. Loosen set screw. (Item 1)
4. Push brass rod down as far as it will go by hand to be sure the plunger is touching the seat.
5. Open handle (Item 2) approximately 30° from closed position.
6. Tighten set screw snugly.
7. Turn water supply ON.
8. Operate hydrant and make sure the hydrant is shutting off properly and flowing properly.
9. **If hydrant still does not shut off, repeat steps 1 through 8.**
10. Flow water through hydrant and then close completely to check for proper drainage by:
    a) listening for water draining down pipe or
    b) putting your hand over the hose connection to feel for a vacuum.
    If hydrant does not drain, see step 11.
11. To clear drain hole blockage, close off hydrant spout by using hose cap or by attaching and kinking a hose. Open and close hydrant to allow water pressure to clear blockage. Repeat step 10 to verify proper drainage. If hydrant still does not drain, repeat steps 1 through 10 to fully uncover drain hole.

CAUTION: Do not try to make the shutoff adjustment in one attempt or you may overadjust and cause damage to the plunger and rods. For this reason adjust in multiple small increments.

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NO LEAD Yard Hydrants - Frost Proof



Deluxe NO LEAD Frost Proof Yard Hydrant Features:

- FROST-PROOF - Shut-off valve operates below the frost line.
- Pistol type handle eliminates pinching.
- Can be padlocked.
- Wheel handle controls water flow at rate desired.
- Stainless steel extension rod will not rust or cut into packing.
- Water in standpipe drains out when hydrant is off.
- Aluminum nozzle threaded for standard 3/4" hose coupling.
- Inner parts removable without digging.
- 120 PSI maximum pressure.
- Individually boxed.

NOT FOR SALE IN CALIFORNIA.
Does NOT meet CA Prop 65.

NL Series is Lead Free and certified to NSF/ANSI 372 <0.25% Pb by weighted average.

NO LEAD Part No.	Bury Depth	Pipe Length	Overall Length	Ctn Qty	List Price
H800NL	1 ft	30"	40"	1	$ 188.42
H801NL	1.5 ft	38"	48"	1	193.34
H802NL	2 ft	44"	54"	1	198.63
H803NL	3 ft	56"	66"	1	209.10
H804NL	4 ft	68.5"	78.5"	1	223.18
H805NL	5 ft	80.5"	90.5"	1	237.34
H806NL	6 ft	92.25"	102.25"	1	255.13
H807NL	7 ft	104"	114"	1	269.21
H808NL	8 ft	116"	126"	1	287.55



HVBAD75NL

Part Number	Description	Ctn/Case Qty	List Price
NO LEAD Vacuum Breaker Meets ASSE 1011			
HVBAD75NL	3/4"NL Brass w/ auto back drain fght x mght	10/100	$ 15.54



NLRBHE Series



NLRBHT Series



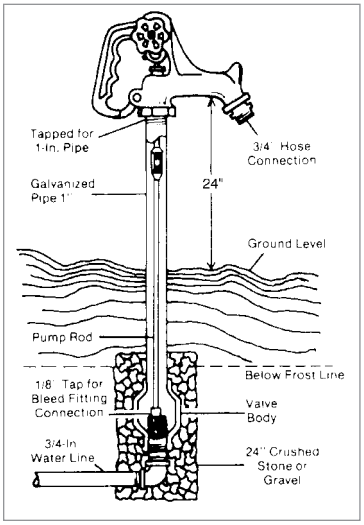
SSHE Series

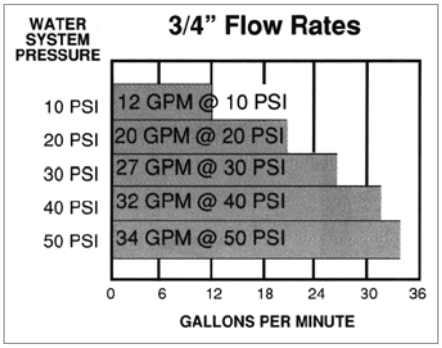


SSHT Series

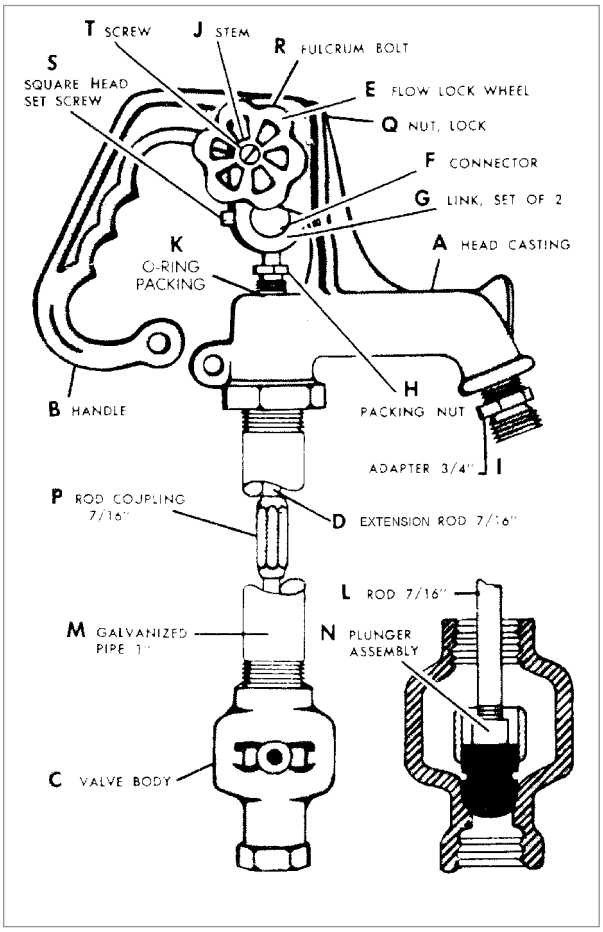
Part Number	Size	# Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Hydrant Elbow (INSxMIP)				
NLRBHE3/4	3/4"x 3/4"	5	10/100	$ 13.75
NLRBHE1X3/4	1" x 3/4"	5	10/100	16.43
NLRBHE1	1" x 1"	5	10/100	19.14
NLRBHE11/4	1 1/4" x 1 1/4"	5	5/50	32.32
No Lead Cast Bronze Extra Long Hydrant Elbow (INS x MIP)				
NLXLRBHE1	1"x 1"	8	10/100	23.39
NLXLRBHE1X3/4	1" x 3/4"	10	10/100	23.04
No Lead Cast Bronze Hydrant Tee (INS x MIP)				
NLRBHT3/4	3/4" x 3/4"	6	10/100	20.54
NLRBHT1x3/4	1" x 3/4"	6	10/100	24.25
NLRBHT1	1" x 1"	6	10/100	27.68
Stainless Steel Hydrant Elbow (INSxMIP)				
SSHE3/4	3/4"x 3/4"	5	10/100	20.94
SSHE1X3/4	1" x 3/4"	5	10/100	23.21
SSHE1	1" x 1"	5	10/100	31.01
SSHE11/4	1 1/4" x 1 1/4"	5	10/50	40.38
Stainless Steel Hydrant Tee (INS x MIP)				
SSHT3/4	3/4" x 3/4"	4	10/100	24.32
SSHT1x3/4	1" x 3/4"	6	10/100	30.41
SSHT1	1" x 1"	4	10/100	33.25

Yard Hydrants - Replacement Parts





Replacement Parts For H800 Series Hydrants



Part Number	Reference Number	Name of Part	List Price
8820	A	Head	$ 61.84
8821	B	Handle	20.10
8822SB	C	Valve Body NL	75.26
8843	D	Stainless Steel Extension Rod 7/16"NL	13.82
8824	E	Hand Wheel	3.57
8825 *	F	Connector - brass	33.95
8826 *	G	Links(pair) - brass	17.99
8827 *	H	Packing Nut - brass	11.93
8844	I	Aluminum Hose Adapter NL	12.45
8829	J	Brass Stem, Square head	4.89
8839 *	K	O-Ring Packing, BUNA-N (pair)	3.35
8814-0	L	7/16" Pump Rod for H800NL	29.95
8814-1		7/16" Pump Rod for H801NL	37.57
8814-2		7/16" Pump Rod for H802NL	45.23
8814-3		7/16" Pump Rod for H803NL	57.76
8814-4		7/16" Pump Rod for H804NL	69.98
8814-5		7/16" Pump Rod for H805NL	82.27
8814-6		7/16" Pump Rod for H806NL	94.33
8814-7		7/16" Pump Rod for H807NL	106.61
8814-8		7/16" Pump Rod for H808NL	118.69
8815-0	M	Pipe Casing for H800NL	34.37
8815-1		Pipe Casing for H801NL	45.75
8815-2		Pipe Casing for H802NL	54.47
8815-3		Pipe Casing for H803NL	69.00
8815-4		Pipe Casing for H804NL	83.48
8815-5		Pipe Casing for H805NL	97.95
8842 *	N	Plunger - one piece NL	19.62
8834	P	Rod Coupling, 7/16"	5.50
8301 *	Q	Lock Nut - stainless steel	1.11
8836 *	R	Fulcrum Bolt - stainelss steel	4.31
8837 *	S	Square Head Set Screw - stainless steel	2.10
8610	T	Screw for Hand Wheel	1.77
840SB		Head, Complete NL	100.67
850SB		Parts Kit NL (* Included)	54.64

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SECTION 3
PLUMBING VALVES

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HFBV6-NL Series

NO LEAD Forged Brass Full Port Ball Valve Features:

- Heavy pattern NO LEAD forged brass construction.
- Full port allows maximum flow & minimum pressure drop or turbulence.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow out proof stem design.
- **600 PSI** W.O.G. non-shock; **150 PSI** S.W.P.
- **CSA Certified (TXT only)**
- **Third party certified to NSF/ANSI 372.**

MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	NL Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

Part Number Threaded	Size	Ctn/Case Qty	List Price Threaded	Part Number Sweat	List Price Sweat
HFBV6-25TNL	1/4"	15/120	$ **14.02**		
HFBV6-38TNL	3/8"	15/120	**13.38**		
HFBV6-50TNL	1/2"	15/120	**18.91**	HFBV6-50SNL	$ **15.88**
HFBV6-75TNL	3/4"	10/60	**26.74**	HFBV6-75SNL	**25.44**
HFBV6-100TNL	1"	8/48	**43.49**	HFBV6-100SNL	**40.76**
HFBV6-125TNL	1 1/4"	4/24	**74.25**	HFBV6-125SNL	**66.42**
HFBV6-150TNL	1 1/2"	2/24	**110.11**	HFBF6-150SNL	**88.79**
HFBV6-200TNL	2"	2/12	**151.99**	HFBV6-200SNL	**125.49**
HFBV6-250TNL	2 1/2"	3/6	**366.00**		
HFBV6-300TNL	3"	2/4	**462.15**		
HFBV6-400TNL	4"	1/2	**822.94**		



HFBV4-PEXNL Series

NO LEAD Forged Brass FULL Port Ball Valve with PEX Connections Features:

- Heavy pattern, full port, forged NO LEAD brass constuction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE packing.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- PEX ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 372.**

MATERIAL SPECIFICATIONS	
Handle Nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Packing	PTFE
Packing Nut	Brass
Ball	Chrome Plated NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

Part Number	Size	Ctn/Case Qty	List Price
HFBV4-50PEXNL	1/2"	25/100	$ **8.26**
HFBV4-75PEXNL	3/4"	10/60	**13.17**
HFBV4-100PEXNL	1"	10/40	**20.13**

Ball Valves - NO LEAD Brass



HFBV4-PEXSWNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	ZInc Coated Steel
Handle	Zinc Coated Steel
Stem O-ring (2)	NBR
Ball	NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass STANDARD Port Ball Valve with PEX x SWEAT Connections Features:

- Heavy pattern, standard port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- PEX x SWEAT ends for use with PEX tubing to copper tubing connections.
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn/Case Qty	List Price
HFBV4-50PEXSWNL	1/2"	25/100	$ 11.59
HFBV4-75PEXSWNL	3/4"	10/60	15.56



HFBV4-CENL Series

MATERIAL SPECIFICATIONS	
Handle Nut	ZInc Coated Steel
Handle	Zinc Coated Steel
Stem O-ring (2)	NBR
Ball	NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass STANDARD Port Ball Valves with F1960 Cold Expansion Connections Features:

- Heavy pattern, standard port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- F1960 Cold Expansion ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn/Case Qty	List Price
HFBV4-50CENL	1/2"	25/100	$8.06
HFBV4-75CENL	3/4"	10/60	11.44
HFBV4-100CENL	1"	10/40	20.39

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HFBV6-INL Series

MATERIAL SPECIFICATIONS	
Handle	Zinc Plated Steel
Handle Nut	Zinc Plated Steel
Stem Packing	PTFE
Packing Nut	Brass
Ball	1/2"-1" Lead Free Brass 1 1/4" SS #316
Seats	PTFE
Body	NL Brass
End Adapter	NL Brass

NO LEAD Forged Brass FULL Port Ball Valve with HOSE BARBS Connection Features:

- Heavy pattern, full port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 PSI** W.O.G. non-shock; **150 PSI** S.W.P.
- Insert hose barb ends for use with polyethylene pipe connections.
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn/Case Qty	List Price
HFBV6-50INL	1/2"	50/80	$ **21.41**
HFBV6-75INL	3/4"	6/60	**32.07**
HFBV6-100INL	1"	6/36	**57.78**
HFBV6-125INL	1 1/4"	5/20	**91.72**



HFBV6-IFTNL Series

MATERIAL SPECIFICATIONS	
Handle	Zinc Plated Steel
Handle Nut	Zinc Plated Steel
Stem Packing	PTFE
Packing Nut	Brass
Ball	3/4"-1" Lead Free Brass 1 1/4" SS #316
Seats	PTFE
Body	NL Brass
End Adapter	NL Brass

NO LEAD Forged Brass FULL Port Ball Valve with HOSE BARB x FPT Connection Features:

- Heavy pattern, full port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 PSI** W.O.G. non-shock; **150 PSI** S.W.P.
- Insert hose barb x FPT ends for use with polyethylene pipe and IPS connections.
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn/Case Qty	List Price
HFBV6-75IFTNL	3/4"	6/60	$ **27.25**
HFBV6-100IFTNL	1"	6/36	**48.87**
HFBV6-125IFTNL	1 1/4"	5/20	**74.98**



SSBV Series

MATERIAL SPECIFICATIONS	
Handle Nut	Stainless Steel
Handle	Stainless Steel
Gland Follower	Stainless Steel
Stem Packing	PTFE
Packing Nut	Stainless Steel
Ball	Stainless Steel
Seats	PTFE
Body	Stainless Steel
End Adapter	Stainless Steel
Seal Gasket	PTFE

Stainless Steel Full Port Ball Valve Features:

- 304 Stainless steel ball valves
- Full Port, 1000 psi WOG
- Locking Handle (padlock not included)
- Investment castings.
- PTFE seal and packing.
- Blow-out proof stem.
- FPT x FPT
- **Third party certified no lead to NSF/ANSI 372.**

Part Number	Description	Size T x T	Case Qty	List Price
SSBV25TLH	Stainless 1000#	1/4"	2/80	$ **18.11**
SSBV38TLH	Stainless 1000#	3/8"	2/80	**18.11**
SSBV50TLH	Stainless 1000#	1/2"	4/80	**19.91**
SSBV75TLH	Stainless 1000#	3/4"	4/60	**30.60**
SSBV100TLH	Stainless 1000#	1"	4/40	**43.74**
SSBV125TLH	Stainless 1000#	1 1/4"	4/20	**65.62**
SSBV150TLH	Stainless 1000#	1 1/2"	2/12	**88.27**
SSBV200TLH	Stainless 1000#	2"	2/8	**122.87**
SSBV250TLH	Stainless 1000#	2 1/2"	2/4	**262.58**
SSBV300TLH	Stainless 1000#	3"	2/4	**383.07**
SSBV400TLH	Stainless 1000#	4"	2/4	**679.62**

NO LEAD Brass Chrome Plated Supply Valve with PEX and F1960 COLD EXPANSION Connections Features:

- Chrome Plated No Lead DZR Brass.
- 1/4 Turn Plastic Oval Handle.
- For use with PEX and Cold Expansion tubing connections.
- Maximum pressure rating: 125 psi
- Maximum temperature rating: 180°F (82°C)
- Stem Packing: Double NBR o-ring.
- Seat Material: PTFE
- **Third party certified to NSF/ANSI 372.**

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW LEAD



Angle Stop Valve



Straight Stop Valve



CE Angle Stop Valve



CE Straight Stop Valve

Part Number	Old Part Number	Size Description	Inner/Ctn Qty	List Price
ANGLE STOP Valve		**PEX Insert x Compression**		
CPSVA1/2PX1/4CNL	70-30-10-072NL	1/2 x 1/4 Angle Stop Ch Plated NL	12/144	$ 7.32
CPSVA1/2PX3/8CNL	70-20-20-074NL	1/2 x 3/8 Angle Stop Ch Plated NL	12/144	7.87
STRAIGHT STOP Valve		**PEX Insert x Compression**		
CPSVS1/2PX3/8CNL	70-20-10-074NL	1/2 x 3/8 Straight Stop Ch Plated NL	12/144	7.52
ANGLE STOP Valve	NEW	**F1960 Cold Expansion Insert x Compression**		
CPSVA1/2CEX1/4CNL		1/2 x 1/4 Angle Stop Ch Plated NL	12/144	6.44
CPSVA1/2CEX3/8CNL		1/2 x 3/8 Angle Stop Ch Plated NL	12/144	6.93
STRAIGHT STOP Valve		**F1960 Cold Expansion Insert x Compression**		
CPSVS1/2CEX3/8CNL		1/2 x 3/8 Straight Stop Ch Plated NL	12/144	6.62

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HFBV6 Series

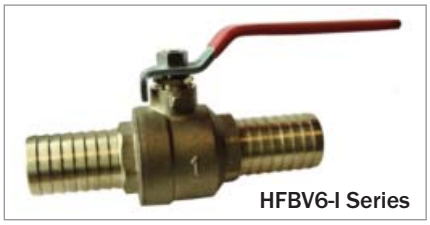
Forged LEADED Brass Full Port Ball Valve Features:

- Heavy pattern forged leaded brass construction.
- Full port allows maximum flow & minimum pressure drop or turbulence.
- PTFE seats, chrome plated brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow out proof stem design.
- **600 PSI** W.O.G. non-shock; **150 PSI** S.W.P. (400 PSI 21/2", 3" 4")
- **CSA Certified (TxT only), UL Listed.**

CAUTION DO NOT USE WITH POTABLE WATER

Part Number Threaded	Size	Ctn/Case Qty	List Price Threaded	Part Number Sweat	List Price Sweat
HFBV6-25T	1/4"	50/100	$ 11.17		
HFBV6-38T	3/8"	50/100	10.79		
HFBV6-50T	1/2"	50/100	15.82	HFBV6-50S	$ 12.90
HFBV6-75T	3/4"	30/60	22.33	HFBV6-75S	21.75
HFBV6-100T	1"	20/40	35.73	HFBV6-100S	29.93
HFBV6-125T	1- 1/4"	12/24	56.77	HFBV6-125S	49.56
HFBV6-150T	1-1/2"	9/18	84.80	HFBF6-150S	74.43
HFBV6-200T	2"	6/12	127.18	HFBV6-200S	97.11
HFBV6-250T	2-1/2"	3/6	265.38		
HFBV6-300T	3"	2/4	371.02		
HFBV6-400T	4"	2	682.37		

MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated Brass
Seats	PTFE
Body	Forged Brass
End Adapter	Forged Brass


HFBV6-I Series

Forged LEADED Brass FULL Port Ball Valve with Hose Barbs Features:

- Heavy pattern, full port, forged leaded brass constuction.
- PTFE seats, chrome plated brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 psi W.O.G.** non-shock; **150 psi S.W.P.**
- Insert hose barb ends for use with polyethylene pipe connections.

CAUTION DO NOT USE WITH POTABLE WATER

Part Number	Size	Ctn/Case Qty	List Price
HFBV6-50I	1/2"	50/100	$ 13.90
HFBV6-75I	3/4"	30/60	21.65
HFBV6-100I	1"	20/40	47.19
HFBV6-125I	1-1/4"	12/24	68.07

MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated Brass
Seats	PTFE
Body	Forged Brass
End Adapter	Forged Brass

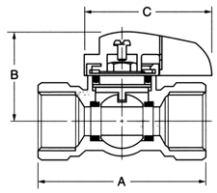

HGBVL Series

ISO 9001

Forged Brass Gas Ball Valve Features:

- Heavy duty two piece forged brass body.
- For use with natural, manufactured, mixed, liquified petroleum and LP gas/air mixtures.
- Meets ANSI standard Z21.15 for use as a gas appliance connector valve (1/2 lb. system). CSA, US/AGA B-16.44
- Pressure rated at 175 psi W.O.G. non-shock.
- Imported, Mfg for American Granby in an ISO 9001 facility.

CAUTION DO NOT USE WITH POTABLE WATER

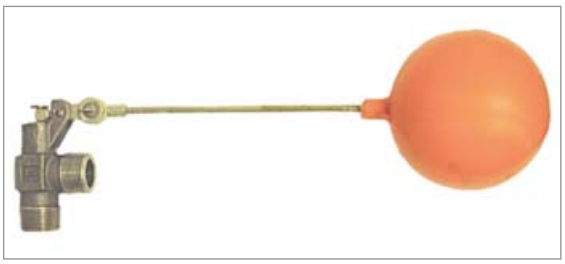


SIZE	DIMENSIONS (IN.) A	B	C	BTU Capacity/Hr.
1/2"	2.21	1.46	1.81	295,000
3/4"	2.38	1.75	1.81	795,000
1"	2.91	1.89	1.81	1,200,000

MATERIAL SPECIFICATIONS	
Handle Screw	Steel
Handle	Aluminum
Stem O-Rings	NBR
Stem	Forged Brass
Ball	Chrome Plated Brass
Seats	PTFE
Body	Forged Brass
End Adapter	Forged Brass

Part Number	Size t x t	Ctn/Case Qty	List Price
HGBVL50T	1/2"	12/144	$ **12.78**
HGBVL75T	3/4"	12/96	**19.04**
HGBVL100T	1"	6/96	**22.63**

Float Valves - Bronze, NO LEAD Bronze



Bronze, NO LEAD Bronze Float Valve Features:

- Cast bronze or NO LEAD bronze body
- Buna-N Disc
- Heavy Duty
- Tapped for 1/4-20SAE rod
- Threaded outlet
- Rated at 125 psi
- **Third party certified to NSF/ANSI 372.**



BFV Series

Part Number	Size	Inlet	Outlet	Tapped	Ctn Qty	List Price
BFVNL1/2	1/2"	1/2" mpt	1/2" mpt	1/4"-20SAE	10/100	$ 42.69
BFVNL3/4	3/4"	3/4" mpt	3/4" mpt	1/4"-20SAE	10/80	45.92
BFVNL1	1"	1" mpt	1" mpt	1/4"-20SAE	10/40	72.29



BFVR Series

Stainless Steel Rods Features:

- Stainless Steel SAE
- Male thread both ends
- **Third party certified to NSF/ANSI 372.**

Part Number	Length	Thread	Fits Valve Size	Ctn Qty	List Price
BFVR8	8"	1/4"-20SAE	1/2" - 1"	50/400	$ 6.62
BFVR10	10"	1/4"-20SAE	1/2" - 1"	50/300	7.67
BFVR12	12"	1/4"-20SAE	1/2" - 1"	50/300	8.59



BFVFP Series

Plastic Float Features:

- PVC, Corrosion resistant.
- Lightweight
- Up to 175°F
- For open tank service only
- Bronze or NO LEAD bronze threaded connection.
- **Third party certified to NSF/ANSI 372.**

Part Number	Float Diam.	Buoyancy	Female Connection	Ctn Qty	List Price
BFVFPNL5	5"	2.17 lbs.	1/4"-20SAE	100	$ 21.23
BFVFPNL6	6"	3.8 lbs.	1/4"-20SAE	100	25.00
BFVFPNL8	8"	9.87 lbs.	1/4"-20SAE	20	31.08

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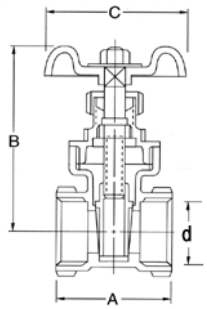
GV200 Series

GV200 Series Forged Brass Gate Valve Features:

- Constructed of heavy duty forged brass.
- **Die-cast** body, **forged** bonnet are connected with a PTFE body to bonnet gasket for a leak proof seat.
- Screwed bonnet, non-rising stem, solid wedge disc and integral seats.
- Graphite stem seal packing.
- Cast iron hand wheel
- Rated at **200 PSI WOG; 125 PSI SWP** (working pressure, non shock)
- Threaded ends produced to ANSI/ASME B1.20.1 (NPT) standards.
- Sweat ends produced to ANSI B16.18-1984 standards
- Imported

CAUTION
DO NOT USE WITH POTABLE WATER

MATERIAL SPECIFICATIONS	
Wheel Nut	Stainless Steel
Hand Wheel	Gray Iron
Packing Nut	Brass
Gland Follower	Brass
Stem Seal Packing	Graphite
Bonnet	Brass
Body-Bonnet Gasket	PTFE
Lock Nut	Brass
Stem	Brass
Disc	Brass
Body	Brass



DIMENSIONS (IN.) SIZE	A (IPS)	A (CxC)	B (IPS)	B (CxC)	C	d
1/2”	1.68	1.76	2.80	2.79	2.17	.51
3/4”	1.76	2.34	2.99	3.10	2.17	.67
1”	1.97	2.69	3.45	3.63	2.36	.83
1 1/4”	2.30	3.01	4.06	4.37	2.84	1.07
1 1/2”	2.46	3.36	4.47	4.96	2.84	1.34
2”	2.69	3.98	5.26	6.13	3.15	1.77
2 1/2”	3.43		6.44		3.94	2.21
3”	3.71		7.48		4.33	2.68
4”	4.45		9.25		5.12	3.55

Threaded Part Number	Sweat Part Number	Size	Ctn/Case Qty	List Price
GV200-50T		1/2”	10 / 100	$ 16.06
	GV200-50S	1/2”	10 / 100	16.46
GV200-75T		3/4”	10 / 100	18.04
	GV200-75S	3/4”	10 / 100	17.28
GV200-100T		1”	5 / 50	26.87
	GV200-100S	1”	5 / 50	25.38
GV200-125T		1 1/4”	5 / 50	42.19
	GV200-125S	1 1/4”	5 / 50	28.09
GV200-150T		1 1/2”	2 / 30	56.14
	GV200-150S	1 1/2”	2 / 30	56.94
GV200-200T		2”	2 / 20	81.26
	GV200-200S	2”	2 / 20	87.47
GV200-250T		2 1/2”	1 / 10	182.24
GV200-300T		3”	1 / 10	235.12
GV200-400T		4”	1 / 4	407.56

Valves - Swing Check

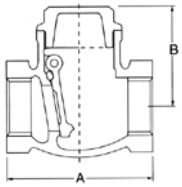


HSCV, HSCV-NL Series

Brass and NO LEAD Brass Swing Check Valve Features:

- Constructed of heavy duty cast brass or NO LEAD Brass
- Screwed cap, swing type disc and integral seat.
- Prevents backflow while offering full flow performance with a minimum of turbulence or pressure loss.
- Rated **200 PSI W.O.G.** (working pressure non-shock)
- NO LEAD Brass swing check valves are third party certified to NSF/ANSI 372.
- Manufactured for American Granby in an ISO 9001 factory.

ISO 9001

DIMENSIONS (IN.)		BRASS				NO LEAD BRASS			
	SIZE	A (TxT)	A (CxC)	B (TxT)	B (CxC)	A (TxT)	A (CxC)	B (TxT)	B (CxC)
	1/2"	2.05	2.05	1.47	1.49	2.09	2.40	1.42	1.40
	3/4"	2.32	2.32	1.58	1.58	2.36	3.15	1.56	1.52
	1"	2.56	2.56	1.68	1.68	2.62	3.50	1.77	1.73
	1 1/4"	3.12	3.12	1.84	1.84	3.19	4.15	2.07	2.07
	1 1/2"	3.45	3.45	2.15	2.15	3.54	4.57	2.17	2.13
	2"	4.16	4.16	2.69	2.69	4.21	5.47	2.74	2.68
	2 1/2"	5.11		2.93		5.14		3.09	
	3"	5.74		3.78		5.77		3.80	
	4"	6.79		3.90		6.84		4.25	

NO LEAD Brass

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

NSF/ANSI 372

MATERIAL SPECIFICATIONS	
Cap	No Lead Brass
Body	No Lead Brass
Disc	No Lead Brass
Hinge Pin	No Lead Brass
Screw	No Lead Brass

NL Threaded Part Number	NL Sweat Part Number	Size	Ctn/Case Qty	List Price
HSCV50TNL		1/2"	12/120	$ 15.91
	HSCV50SNL	1/2"	12/120	**15.91**
HSCV75TNL		3/4"	10/80	20.13
	HSCV75SNL	3/4"	10/80	20.88
HSCV100TNL		1"	5/60	28.62
	HSCV100SNL	1"	5/60	27.04
HSCV125TNL		1-1/4"	5/40	41.74
	HSCV125SNL	1-1/4"	5/40	46.60
HSCV150TNL		1-1/2"	5/30	60.34
	HSCV150SNL	1-1/2"	5/30	59.40
HSCV200TNL		2"	2/24	**98.93**
	HSCV200SNL	2"	2/24	97.55
HSCV250TNL		2-1/2"	1/15	168.05
HSCV300TNL		3"	1/6	250.94
HSCV400TNL		4"	1/4	**370.37**

Brass



MATERIAL SPECIFICATIONS	
Cap	Brass
Body	Brass
Disc	Brass
Hinge Pin	Brass
Screw	Brass

Threaded Part Number	Sweat Part Number	Size	Ctn/Case Qty	List Price
HSCV50T		1/2"	10/120	$ 15.72
	HSCV50S	1/2"	10/120	15.48
HSCV75T		3/4"	10/80	18.58
	HSCV75S	3/4"	10/80	18.96
HSCV100T		1"	5/60	23.69
	HSCV100S	1"	5/60	24.22
HSCV125T		1-1/4"	5/40	37.72
	HSCV125S	1-1/4"	5/40	38.78
HSCV150T		1-1/2"	5/30	49.30
	HSCV150S	1-1/2"	5/30	53.30
HSCV200T		2"	2/24	73.83
	HSCV200S	2"	2/24	79.27
HSCV250T		2-1/2"	1/15	141.48
HSCV300T		3"	1/10	192.26
HSCV400T		4"	1/6	294.69

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BOILER DRAINS • HOSE BIBBS

- 125 PSI WOG (working pressure - non-shock), 200 PSI WOG (1/4 turn ball valve hose bibbs)
- All valves shown are UPC rated and third party certified to NSF/ANSI 372.
- Imported


HNKDNL Series


HBDNL Series


HBD-SBNL Series


IBD-SBNL Series


EIBD-SBNL Series


IBDBVNL Series


HHBNL Series


HHBNHTNL Series


IHBB NL Series


IHBBNHTNL Series


IHBBSS Series


IHBBSSNHT Series

☺ Has combination 1/2" mip and 1/2" solder connection

Part Number	Size	Description	Ctn/Case	Qty	List Price
NO LEAD Brass No-Kink Boiler Drains					
HNKD50NL ☺	1/2"	mip x ght	12/144		$ 11.93
HNKD75NL	3/4"	mip x ght	12/144		13.12
NO LEAD Brass Boiler Drains					
HBD50NL ☺	1/2"	mip x ght	12/144		12.42
HBD75NL	3/4"	mip x ght	12/144		13.14
HBD50SBNL ☺	1/2	w/ stuffing box mip x ght	12/144		14.76
HBD75SBNL	3/4"	w/ stuffing boxmip x ght	12/144		15.40
NO LEAD Brass Full Flow Boiler Drains - ECONOMY					
EIBD50SBNL ☺	1/2"	w/ stuffing box mip x ght	12/144		12.19
EIBD75SBNL	3/4"	w/ stuffing box mip x ght	12/144		14.03
NO LEAD Brass Full Flow Boiler Drains					
IBD50SBNL ☺	1/2"	w/ stuffing box mip x ght	12/144		16.60
IBD75SBNL	3/4"	w/ stuffing box mip x ght	12/144		17.04
NO LEAD 1/4 turn Ball Valve Brass Boiler Drain w/ Butterfly Handle					
IBDBV50NL ☺	1/2"	mip x ght	12/144		16.50
IBDBV75NL	3/4"	mip x ght	12/144		16.80
NO LEAD Brass Hose Bibbs					
HHB50NL ☺	1/2"	mip x ght	12/144		13.37
HHB75NL	3/4"	mip x ght	12/144		14.46
NO LEAD Brass Hose Bibbs - No Garden Hose Thread, Sampling Valve					
HHB50NHTNL ☺	1/2"	mip x spout	12/144		13.12
HHB75NHTNL	3/4"	mip x spout	12/144		14.66
NO LEAD Brass 1/4 turn Ball Valve Hose Bibb w/ T Handle - 200 psi WOG non-shock					
IHBB50NL ☺	1/2"	1/4 turn NL mip x ght	12/144		**15.18**
IHBB75NL	3/4"	1/4 turn NL mip x ght	12/144		**17.35**
NO LEAD Brass 1/4 turn Ball Valve Brass Hose Bibbs w/ T Handle - 200 psi WOG non-shock - No garden hose thread - Sampling valve					
IHBB50NHTNL ☺	1/2"	1/4 turn NL mip x spout	12/144		17.78
IHBB75NHTNL	3/4"	1/4 turn NL mip x spout	12/144		20.98
304 STAINLESS STEEL 1/4 turn Ball Valve Hose Bibbs w/ T Handle - 200 psi WOG non-shock (with stainless steel T handle)					
IHBB50SS	1/2"	STAINLESS mip x ght	12/144		25.39
IHBB75SS	3/4"	STAINLESS mip x ght	12/144		25.39
304 STAINLESS STEEL 1/4 turn Ball Valve Hose Bibbs w/ T Handle - 200 psi WOG non-shock - No garden hose thread - Sampling valve					
IHBB50SSNHT	1/2"	STAINLESS mip x spout	12/144		26.33
IHBB75SSNHT	3/4"	STAINLESS mip x spout	12/144		27.00

Plumbing Valves - NO LEAD Brass

BENT NOSE GARDEN • ANGLE SILL COCKS

- 125 PSI WOG (working pressure - non-shock)
- Imported



HBNGNL Series



HSCNL Series

Part Number	Size	Description	Ctn/Case Qty	List Price
NO LEAD Brass Full Flow Bent Nose Garden Valves (CA AB1953 certified)				
HBNG50NL	1/2"	fip x ght	12/72	$ 21.12
HBNG75NL	3/4"	fip x ght	12/72	21.76
HBNG100NL	1"	fip x ght	12/72	22.41
NO LEAD Brass Angle Sill Cocks (CA AB1953 certified)				
HSC50TNL	1/2"	fip x ght	12/144	14.94
HSC75TNL	3/4"	fip x ght	12/144	15.65



HVB75NL



HVBAD75NL

No Lead Brass Vacuum Breaker Features:

- HVBAD has automatic back drain and can be manually drained.
- ASSE 1011
- Third party certified to NSF/ANSI 372.

Part Number	Description	Ctn/Case Qty	List Price
NO LEAD Vacuum Breaker			
HVB75NL	3/4" NL Brass fght x mght	10/100	$ 10.75
HVBAD75NL	3/4"NL Brass w/ auto back drain fght x mght	10/100	15.54

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BOILER DRAINS • HOSE BIBBS

- 125 PSI WOG (working pressure - non-shock), 200 PSI WOG (1/4 turn ball valve hose bibbs)
- All valves shown below are UPC rated except IHBB Series
- Imported

CAUTION DO NOT USE WITH POTABLE WATER

↓ Reduced price - Limited quantities available.


HNKD Series


HBD Series


HBD-SB Series


IBD-SB Series


IBDBV Series


HHB Series

Part Number	Size	Description	Ctn/Case Qty	List Price
Brass No-Kink Boiler Drains				
HNKD50 ☺	1/2"	mip x ght	12/144	$ 9.34
HNKD75	3/4"	mip x ght	12/144	10.24
Brass Boiler Drains				
HBD50 ☺	1/2"	mip x ght	12/144	10.34
HBD75	3/4"	mip x ght	12/144	10.68
HBD50SB ☺	1/2	w/ stuffing box mip x ght	12/144	11.78
HBD75SB	3/4"	w/ stuffing boxmip x ght	12/144	11.83
Brass Full Flow Boiler Drains				
IBD50SB ☺	1/2"	w/ stuffing box mip x ght	12/144	**11.67**
IBD75SB	3/4"	w/ stuffing box mip x ght	12/144	**11.67**
1/4 turn Ball Valve Brass Boiler Drain w/ Butterfly Handle				
IBDBV75	3/4"	mip x ght	12/144	13.47
Brass Hose Bibbs				
HHB50 ☺	1/2"	mip x ght	12/144	10.81
HHB75	3/4"	mip x ght	12/144	12.08

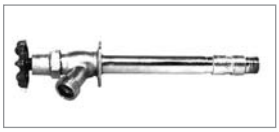
☺ Has combination 1/2" mip and 1/2" solder connection

BENT NOSE GARDEN • ANGLE SILL COCKS • FROST PROOF SILL COCKS

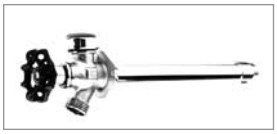
- 125 PSI WOG (working pressure - non-shock)
- Imported



↓ Reduced price - Limited quantities available.



H500 Series



H500AS Series



HVB75

Part Number	Size	Description	Ctn/Case Qty	List Price
Chrome Plated Brass Frost Proof Sill Cocks, IPS x Sweat Fitting				
H504	1/2 x 4”		2/40	32.13
H506	1/2 x 6”		2/40	33.51
H508	1/2 x 8”		2/40	35.61
H510	1/2 x 10”		2/40	37.50
H512	1/2 x 12”		2/40	38.89
H514	1/2 x 14”		2/40	39.75
Chrome Plated Brass Anti-Siphon Sill Cocks* w/ 1/2” mip x 1/2” swt connection				
H506AS	1/2 x 6”		2/30	38.64
H508AS	1/2 x 8”		2/30	39.50
H510AS	1/2 x 10”		2/30	41.90
H512AS	1/2 x 12”		2/30	44.11
H514AS	1/2 x 14”		2/30	45.10
* with integral vacuum breaker				
Vacuum Breaker	**Meets ASSE 1011 specifications**			
HVB75	3/4” fght x mght		20/200	$ 7.54

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AGHBF Series



AGSFT Series



AGBDM Series



AGSCC Series

Celcon (Acetal) Hose Bibb & Boiler Drain Features:

- Celcon (acetal) construction for use in hot or cold fluid systems up to 180° F.
- Use with water and approved chemicals.
- Bronze color body with red T-handle or wheel handle.
- EPDM stem seal O-Ring for excellent chemical resistance and long life.
- Complies with applicable ASTM and ANSI standards.
- Manufactured for AGI in an ISO9001 facility.
- Made in USA.

Celcon (Acetal) Stop & Waste and Stop Valve Features:

- Stop & Waste allows draining of the non-pressure side of valve via an 1/8" port (polypropylene plug included).
- Complies with applicable ASTM and ANSI standards.
- Manufactured for AGI in an ISO9001 facility.
- Made in USA.

CPVC Stop Valve Features:

- High impact CPVC construction for use in hot or cold fluid systems up to 180° F.
- Use with water and approved chemicals.
- Beige color body with red wheel handle.
- EPDM stem seal O-Ring for excellent chemical resistance and long life.
- Complies with applicable ASTM and ANSI standards.
- Made with **Flow Guard Gold** material.
- Manufactured for AGI in an ISO 9001 facility.
- Made in USA.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Part Number	Description	Size	Inlet x Outlet	Ctn Qty	List Price
AGHBM50T	Celcon 45° Hose Bibb	1/2"	mipt x mht	36	$ 10.07
AGSFT50T	Celcon Sink Faucet w/ hose end	1/2"	mipt x mht	36	10.47
AGBDM50T	Celcon Boiler Drain	1/2"	mipt x mht	36	11.01
AGSCC75S	CPVC Stop Valve	3/4"	slip cts x slip cts	36	6.11 ↓

Ball Valves - Economy PVC Molded-in-Place

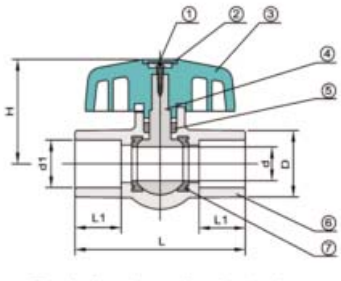


LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

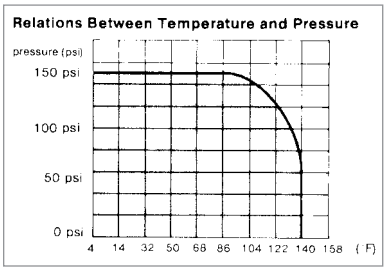
Economy Series PVC Molded-In-Place Ball Valve Features:

- Heavy duty thermoplastic white PVC (Type 1, Grade 1) construction.
- White body, blue handle.
- **Tee** handle on 1/2" through 2". **Lever** handle on 2 1/2", 3" and 4".
- EPDM seats provide excellent chemical resistance.
- EPDM "o" ring stem seal.
- 150 PSI working pressure at 73ºF water, non-shock.
- Maintenance free compact design.
- Severe shock loads and misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Third party certified no lead to NSF/ANSI 372.
- Individually cartoned.
- Imported.



EMIP TE/SE Series
IPS DIMENSIONS (IN.)

SIZE	d	d1	D	L1	L	H
1/2"	0.591	.0839	1.24	0.80	2.9	1.78
3/4"	0.792	1.051	1.45	0.89	3.4	2.01
1"	0.981	1.315	1.77	1.08	4.0	2.26
1 1/4"	1.262	1.661	2.07	1.06	4.3	2.66
1 1/2"	1.421	1.902	2.49	1.14	4.8	2.91
2"	1.832	2.374	3.01	1.42	5.7	3.32
2 1/2"	2.492	2.874	3.54	1.80	7.2	4.07
3"	3.153	3.5	4.25	2.4	9.3	4.47
4"	3.821	4.5	5.21	2.52	10.1	4.89



MATERIAL SPECIFICATIONS

1	Screw	Zinc Plated Steel
2	Cap	ABS
3	Handle	ABS
4	Ball	PVC
5	Stem Seal o-ring	EPDM
6	Body	PVC
7	Seat Seal	EPDM

CV ($GPM/(1\ lbf/in^2)^{1/2}$) Opening Rate: 90"	
SIZE	CV
1/2"	14.5
3/4"	29.5
1"	48.0
1 1/4"	71.0
1 1/2"	135.0
2"	180.0
2 1/2"	225.0
3"	400.0
4"	865.9

Threaded Part Number	Slip Part Number	Size	Master Case Qty	List Price
EMIP50TE	EMIP50SE	1/2"	210	$ **2.12**
EMIP75TE	EMIP75SE	3/4"	137	**2.86**
EMIP100TE	EMIP100SE	1"	95	**4.54**
EMIP125TE	EMIP125SE	1 1/4"	56	**6.21**
EMIP150TE	EMIP150SE	1 1/2"	36	**8.49**
EMIP200TE	EMIP200SE	2"	24	**13.61**
EIMP250TE	EMIP250SE	2 1/2"	9	**36.83**
EMIP300TE	EMIP300SE	3"	8	**56.64**
EMIP400TE	EMIP400SE	4"	6	**104.66**

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Ball Valves - PVC Sch 80 Molded-in-Place



ISO 9002

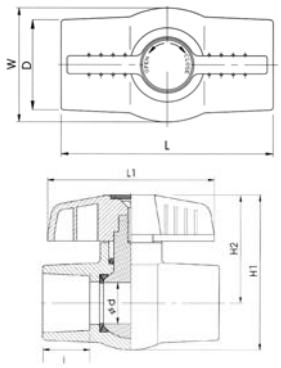
MATERIAL SPECIFICATIONS	
Body	PVC
Seat Seal	EPDM, PTFE
Ball	PVC
Stem Seal o-ring	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS

SCH 80 Series PVC Molded-In-Place Ball Valve Features:

- Heavy duty thermoplastic white PVC (Type 1, Grade 1) construction. Materials meet NSF standards.
- Meets ASTM 2467 Schedule 80.
- White body, red handle.
- Available with PTFE or EPDM seats providing excellent chemical resistance.
- EPDM “o” ring stem seal
- 150 PSI working pressure at 73ºF water, non-shock.
- Maintenance free compact design.
- Severe shock loads and misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Manufactured for AGI in an ISO9002 facility.
- **Third party certified to NSF/ANSI 372.**
- Imported.

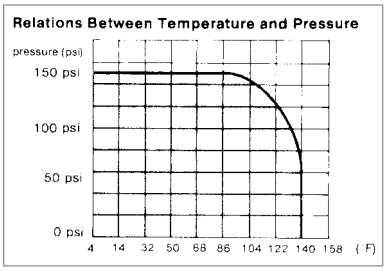
NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



HMIP TE/SE and T/S Series
IPS DIMENSIONS (IN.)

SIZE	d	D	L	L1	I	H1	H2	W
1/2”	.55	1.17	3.24	2.73	.87	2.42	1.68	1.48
3/4”	.78	1.48	3.71	3.43	1.00	3.04	2.11	1.67
1”	.98	1.76	4.13	3.90	1.12	3.63	2.54	2.22
1 1/4”	1.17	2.11	4.45	3.90	1.25	3.82	2.61	2.46
1 1/2”	1.40	2.42	5.07	4.25	1.37	4.49	3.04	2.93
2”	1.82	3.00	5.74	5.23	1.50	5.27	3.47	3.59
2 1/2”	2.34	3.59	7.96	6.94	1.75	6.24	4.10	4.29
3”	3.00	4.13	8.93	8.74	1.88	7.41	4.84	5.19
4”	3.94	5.27	11.70	10.76	2.25	9.09	5.77	6.63



CV (GPM/(1 lbf/in^2)$^{1/2}$) Opening Rate: 90”	
SIZE	CV
1/2”	14.5
3/4”	29.5
1”	48.0
1 1/4”	71.0
1 1/2”	135.0
2”	180.0
2 1/2”	225.0
3”	400.0
4”	865.9

WITH EPDM SEATS NSF

Threaded Part Number	Slip Part Number	Size	Ctn Qty	List Price
HMIP50TE	HMIP50SE	1/2”	100	$ **5.21**
HMIP75TE	HMIP75SE	3/4”	100	**6.70**
HMIP100TE	HMIP100SE	1”	100	**9.22**
HMIP125TE	HMIP125SE	1 1/4”	100	**13.01**
HMIP150TE	HMIP150SE	1 1/2”	48	**21.08**
HMIP200TE	HMIP200SE	2”	24	**27.89**
HIMP250TE	HMIP250SE	2 1/2”	12	60.30
HMIP300TE	HMIP300SE	3”	12	104.49
HMIP400TE	HMIP400SE	4”	6	188.22

WITH PTFE SEATS NSF

Threaded Part Number	Slip Part Number	Size	Ctn Qty	List Price
HMIP50T	HMIP50S	1/2”	100	$ 9.39
HMIP75T	HMIP75S	3/4”	100	12.61
HMIP100T	HMIP100S	1”	100	12.76
HMIP125T	HMIP125S	1 1/4”	100	20.22
HMIP150T	HMIP150S	1 1/2”	48	25.82
HMIP200T	HMIP200S	2”	24	35.21

Ball Valves - CPVC Sch 80 Molded-in-Place



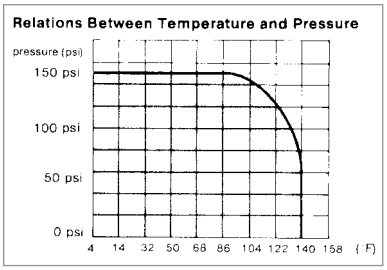
ISO 9002

MATERIAL SPECIFICATIONS	
Body	CPVC
Seat Seal	PTFE
Ball	CPVC
Stem Seal	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS

FLOWGUARD GOLD PIPE & FITTINGS

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

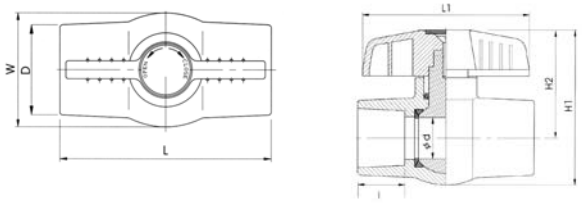
NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372



CV (GPM/(1 lbf/in^2)$^{1/2}$) Opening Rate: 90"	
SIZE	CV
1/2"	14.5
3/4"	29.5
1"	48.0

SCH 80 Series CPVC Molded-in-Place Ball Valve Features:

- Made with **Flo Guard Gold CPVC** material.
- Heavy duty thermoplastic CPVC construction for hot water use.
- NSF listed.
- Meets ASTM 2467 Schedule 80.
- CTS slip x slip - cream body, orange handle.
- PTFE seats providing excellent chemical resistance.
- EPDM O-Ring stem seal.
- Working pressure 75 PSI at 180°F.
- Maintenance free compact design.
- Severe shock loads & misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Manufactured for AGI in an ISO 9002 facility.
- Imported
- **Third party certified to NSF/ANSI 372.**



CMIP "C" Series CTS DIMENSIONS (IN.)

SIZE	d	D	L	L1	I	H1	H2	W
1/2"	.47	.94	2.65	2.34	.50	1.91	1.33	1.21
3/4"	.55	1.17	3.24	2.73	.87	2.42	1.68	1.48
1"	.78	1.48	3.71	3.43	.90	3.04	2.11	1.91

Part Number	Description	Ctn Qty	List Price
CPVC Ball Valve, Copper Tube Size, SLIP X SLIP			
CMIP50C	1/2" SLIP X SLIP	100	$ 8.47
CMIP75C	3/4" slip x slip	100	9.53
CMIP100C	1" slip x slip	100	14.83

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PV1450 Series



PV1452, PV1453 Series

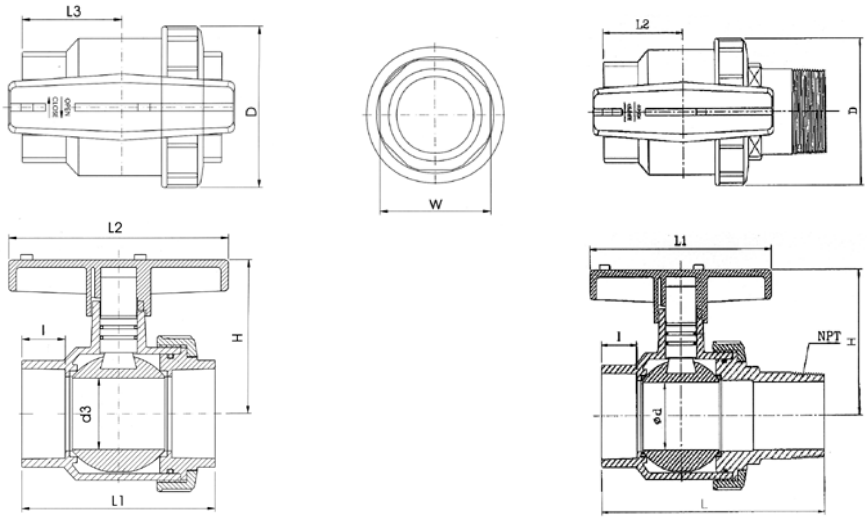
ISO 9002

NO LEAD
LEAD-FREE

PVC Single Union Ball Valve Features:

- PVC Type 1 construction for compatibility in joining rigid PVC and flex vinyl pipes.
- **PTFE seats.**
- **Double EPDM o-ring seal on stem: single EPDM o-ring seal on union end.**
- Fully round ball prevents foreign matter from scoring seats.
- Tee handle for quarter turn on/off with stops.
- Working pressure: 150 PSI at 72ºF, 100 PSI at 120ºF.
- Threaded or socket.
- Manufactured for AGI in an ISO 9002 facility.
- Imported

MATERIAL SPECIFICATIONS	
Body	PVC
End Adapter	PVC
Union Nut	PVC
Ball	PVC
Stem	PVC
Handle	ABS
Union o-rings	EPDM
Seat Seals	PTFE
Stem o-rings	EPDM



PV1450 Series DIMENSIONS (IN.)

SIZE	d3	D	L1	L2	L3	H	W	I
1 1/2"	1.50	3.42	4.49	4.72	2.21	3.32	2.34	1.09
2"	1.88	4.10	5.07	5.74	2.53	4.07	2.73	1.15

PV1452 Series DIMENSIONS (IN.)

SIZE	d	D	L	L1	L2	H	W	I
1 1/2"	1.50	3.42	6.55	4.72	2.21	3.32	2.34	1.09
2"	1.87	4.10	7.02	5.73	2.52	4.07	2.73	1.15

Part Number	Threaded/Slip	Size	Ctn Qty	List Price
PV1450-11/2	Slip	1-1/2"	48	$ 27.09
PV1450-2	Slip	2"	24	35.86
PV1451-11/2	Threaded	1-1/2"	48	27.09
PV1451-2	Threaded	2"	24	35.86
PV1452-11/2	Slip x Extended MIP	1 1/2"	24	26.84
PV1452-2	Slip x Extended MIP	2"	24	36.89
PV1453-11/2	FPT x Extended MIP	1 1/2"	24	26.84
PV1453-2	FPT x Extended MIP	2"	12	26.89

Ball Valves - PVC Single Union



1350 Series

NO LEAD ✓ LEAD-FREE

PVC Single Union Ball Valve Features:

- PVC Type 1 construction for compatibility in joining rigid PVC and flex vinyl pipes.
- **Buna "N" O-Ring seal; HDPE seats.**
- 1-1/4 deep sockets on both ends for extra cementing surface area.
- Tee handle for quarter turn on/off with stops.
- Working pressure: 150 PSI at 72°F.
- Threaded or socket.

Part Number	Threaded/Socket	Size	Ctn Qty	List Price
1350-15	Socket	1-1/2"	12	$ 39.97
1350-20	Socket	2"	6	64.50

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ITUV Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

SCH 80 PVC True Union Ball Valve Features:

- Heavy duty thermoplastic grey Sch 80 PVC (Type 1, Grade 1).
- Full port design.
- Available with either EPDM or Viton® o-ring stem, carrier and union seals.
- **PTFE** seats are resistant to chemical corrosion.
- 150 PSI working pressure at 73° water, non-shock.
- Working temperature -4°F to 140°F.
- Unique double union/double block design permits in-line maintenance without disconnecting pipe and with no special tools.
- Both ends are blocked with bayonet-style locks which prevents the ball from being blown out. Ball remains in place upon removal of valve.
- External adjustment for seat wear.
- Individually cartoned.
- Imported.

EPDM O-Rings

Socket Part Number	Threaded Part Number	Ctn Qty	List Price
ITUV50SE	ITUV50TE	48	$ **16.94**
ITUV75SE	ITUV75TE	36	**22.94**
ITUV100SE	ITUV100TE	24	**31.43**
ITUV125SE	ITUV125TE	24	**47.06**
ITUV150SE	ITUV150TE	24	**64.58**
ITUV200SE	ITUV200TE	12	**83.45**
ITUV250SE	ITUV250TE	12	113.12
ITUV300SE	ITUV300TE	6	198.34
ITUV400SE	ITUV400TE	1	363.06

VITON O-RINGS

Socket Part Number	Threaded Part Number	Ctn Qty	List Price
ITUV50SV	ITUV50TV	48	$ **30.69**
ITUV75SV	ITUV75TV	36	**39.39**
ITUV100SV	ITUV100TV	24	**51.40**
ITUV125SV	ITUV125TV	24	**70.08**
ITUV150SV	ITUV150TV	24	**100.97**
ITUV200SV	ITUV200TV	12	**149.42**
ITUV250SV	ITUV250TV	12	180.16
ITUV300SV	ITUV300TV	6	270.58
ITUV400SV	ITUV400TV	1	547.66

ADDITIONAL ENDS - SET OF 2 INCLUDED

Part Number	Part Number	List Price
ITUV50 SOCKET END	ITUV50 THREADED END	$ 2.78
ITUV75 SOCKET END	ITUV75 THREADED END	3.82
ITUV100 SOCKET END	ITUV100 THREADED END	5.42
ITUV125 SOCKET END	ITUV125 THREADED END	7.44
ITUV150 SOCKET END	ITUV150 THREADED END	8.97
ITUV200 SOCKET END	ITUV200 THREADED END	10.15
ITUV250 SOCKET END	ITUV250 THREADED END	16.13
ITUV300 SOCKET END	ITUV300 THREADED END	32.18
ITUV400 SOCKET END	ITUV400 THREADED END	64.29

Ball Valves - PVC True Union



ITUV Series PVC True Union Ball Valve Specifications:

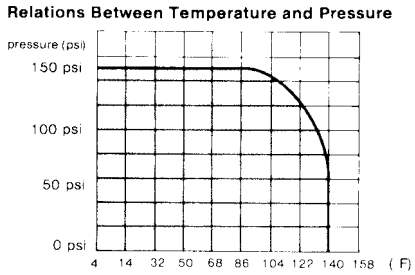
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

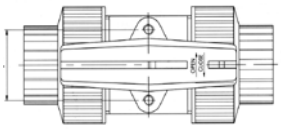
MATERIAL SPECIFICATIONS:

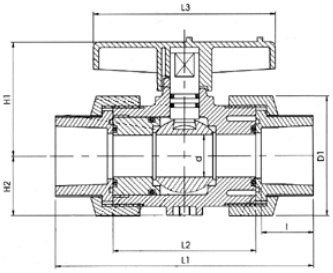
Part	Material
Body	PVC
Stem o-ring	EPDM or Viton
Stem	PVC
Ball	PVC
Seat Seal	PTFE
Carrier o-ring	EPDM or Viton
Seal Carrier	PVC
Union o-ring	EPDM or Viton
End Connector	PVC
Union Nut	PVC
Handle	ABS
Inserted Nut	C3604 (on 1/2" - 2" only)

CV ($GPM/(1\ lbf/in^2)^{1/2}$)
Opening Rate: 90"

SIZE	CV
1/2"	7.39
1"	25.16
1 1/4"	43.22
1 1/2"	60.21
2"	101.56
2 1/2"	170.39
3"	
4"	906.95

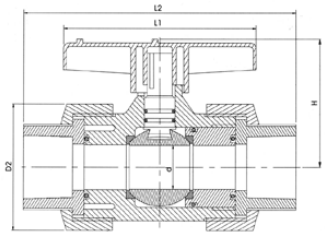






ITUV Series
1/2" thru 2" DIMENSIONS (IN.)

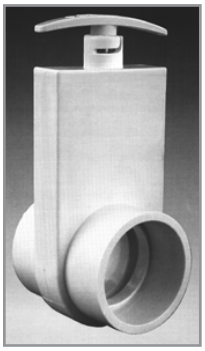
SIZE	d	D1	L1	L2	L3	H1	H2
1/2"	.51	1.76	4.33	2.347	3.04	1.87	–
3/4"	.70	2.15	5.07	2.85	3.59	2.26	1.01
1"	.90	2.57	5.66	3.04	3.90	2.54	1.29
1 1/4"	1.17	3.16	6.44	3.39	4.29	2.95	1.48
1 1/2"	1.48	3.74	6.67	3.59	4.72	3.43	1.64
2"	1.87	4.64	7.80	4.37	5.73	4.19	2.07



ITUV Series
2 1/2" thru 4" DIMENSIONS (IN.)

SIZE	d	D2	L1	L2	H
2 1/2"	2.34	5.30	7.08	10.73	4.64
3"	2.69	6.08	9.32	11.70	5.03
4"	3.90	8.74	10.84	12.79	6.86

In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



VSGV Uni-Body



VSGV 3 piece body



VSGV 3 piece body with union

PVC Slice Gate Valve Features:

- Designed for pool & spa, irrigation, plumbing, waste water and agricultural applications.
- Stainless steel shaft prevent rust and corrosion.
- Ozone & chemical resistant Santoprene™ materials.
- Santoprene™ seals are integrated to the paddle to eliminate any chance of torn or punctured gaskets.
- Maximum working pressure 50 psi (through 2”).
- Solvent cement traps to catch excess glue.
- Every valve tested at double recommended working pressure.
- Valterra’s patent pending triple o-ring neck seal to ensure against any chance of shaft leakage.

Unibody Design

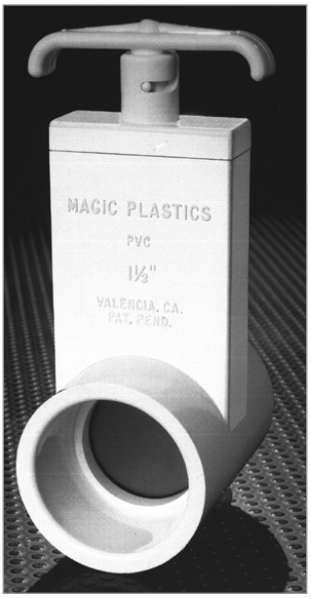
- One piece uni-body design.
- Combination socket ID x spigot OD for installation flexibility.
- Locking handle provides positive shut-off and easy gate opening.

3 Piece body

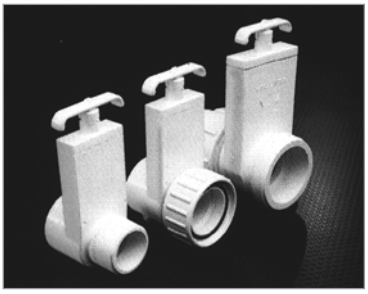
- Three piece configuration allows for repair or can be used as a union.
- Three piece configuration easily disassembles for inline service.

Part Number	Description	Max PSI	Ctn Qty	List Price
Uni-Body				
VSGV2101	1 1/2” slip x slip	45	30	$ 18.70
VSGV2201	2” slip x slip	40	20	26.64
* Unibody 2” slip hubs are 2” slip or 2 1/2” spig				
Three Piece Body				
VSGV150SL	1 1/2” slip x slip	45	30	19.57
VSGV150FIPTXMIPT	1 1/2” fipt x mipt	45	40	25.32
VSGV150SLU	1 1/2” slip x union slip	45	38	31.93
VSGV150MTU	1 1/2" mipt x union slip	45	38	33.09
VSGV150SP	1 1/2” slip x spigot	45	30	23.98
VSGV150SD	1 1/2" step down pool hose x mipt ABS		40	23.36
VSGV200SL	2” slip x slip	40	20	28.29
VSGV200SP	2” slip x spigot	40	34	28.29
VSGV300SL	3” slip x slip	30	15	39.32
VSGV400SL	4” slip x slip w/ metal handle	20	6	167.22
VSGV600SL	6” slip x slip w/ stainless handle	10	1	696.67
VSGV800SL	8” slip x slip w/ stainless handle	10	1	975.45
VSGV1000SL	10” slip x slip w/ stainless handle	10	1	1778.33
VSGV1200SL	12” slip x slip w/ stainless handle	10	1	1868.19

Slice Gate Valves - PVC



SGV - SL Series



SGV-Sp and SGV-SLU Series

PVC Slice Gate Valve Features:

- One piece "Uni-Body" PVC Construction. Guaranteed NO HUB LEAKS or loose bolts.
- 1/4 turn "Cam-Lock" for 100% shut-off..
- Internal "snap-lock" feature ensures valve will remain totally open, providing 100% flow with no restriction.
- Stainless steel shaft prevents rust and corrosion.
- Glass filled poly-pro tapered gate design for 100% sealing.
- Integrally molded seal on gate. - No pinched or torn gaskets.
- Seals are "Santoprene" that have been impregnated with a permanent lubricant. Never needs lube yet will provide continuous smooth operation. Ozone and chemical resistant for much longer life.
- Santoprene buttons on gate provides smooth operation without sticking.
- Every valve water tested at 100PSI and random quick burst tested at 400 PSI. Virtually no chance of leaky valves in the field at standard operating pressures.
- Maximum recommended operating pressure is 50 PSI.
- Glue wells on all slip-socket configuration catches excess glue during plumbing.
- Constructed and tested for use in pool & spa applications.
- Made in USA

Part Number	Size	Description	Ctn/Case Qty	List Price
SGV150SL	1 1/2"	Slip x Slip	14/56	$ 22.87
SGV200SL	2"	Slip x Slip	12/48	24.18
SGV250SL	2 1/2"	Slip x Slip	5/20	51.29
SGV150SP	1 1/2"	Slip x Spigot	14/56	21.50
SGV200SP	2"	Slip x Spigot	12/48	24.18
SGV150SLU	1 1/2"	Slip x Slip with Union	10/40	37.01
SGV200SLU	2"	Slip x Slip with Union	10/40	44.86

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HBFV Series



HFBV GEAR Series

* NO LEAD LEAD-FREE

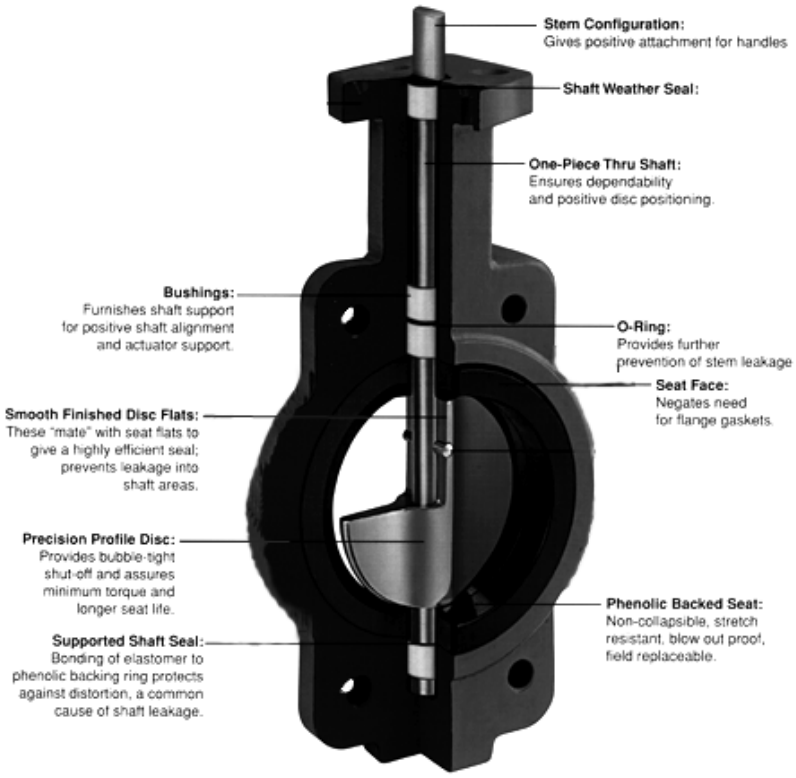
Ductile Iron Butterfly Valve Features:

- Designed for swimming pool, irrigation and water systems.
- Wafer body features 4 alignment holes.
- Lever lock handle (spring loaded) provides excellent manual control for balancing or shut off services.
- Notched throttling plate allows balancing in 10° increments in any position desired within 90° arc rotation of the disc.
- Positive bubble-tight shutoff with minimum torque.
- Seat face eliminates need for flange gaskets.
- Phenolic backed seats prevent collapse, are stretch resistant, blowout proof and field replacable.
- **EPDM seats** temperature rated at -30°F to 275°F.
- 420 stainless steel shaft
- Bidirectional dead-end capability for 250 psi (2" - 12").
- Compatible with ANSI 125/150 flanges.
- Designed to comply with MSS SP-67 and API 609.
- **Ductile iron, ENP plated** disc.
- Imported

Part No.	Size	Weight(lbs)	Ctn Qty	List Price
Ductile Iron ENP Plated Disc*				
HBFV2	2"	7	1	$ 101.94
HBFV21/2	2-1/2"	8	1	119.68
HBFV3	3"	10	1	128.54
HBFV4	4"	12	1	190.60
HBFV5	5"	15.5	1	234.91
HBFV6	6"	17.5	1	283.67
HBFV8	8"	33	1	452.11
HBFV10	10"	50	1	485.53
HBFV12	12"	74	1	732.14
Ductile Iron ENP Plated Disc - GEAR DRIVE *				
HBFV6-GEAR	6"	28.5	1	393.01
HBFV8 GEAR	8"	54	1	632.95

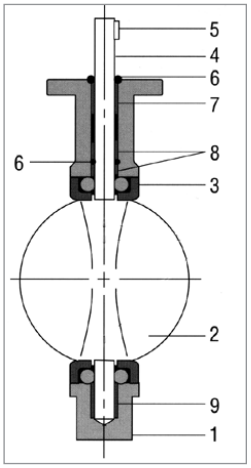
Flanges & Bolt kits available, see page 3.26

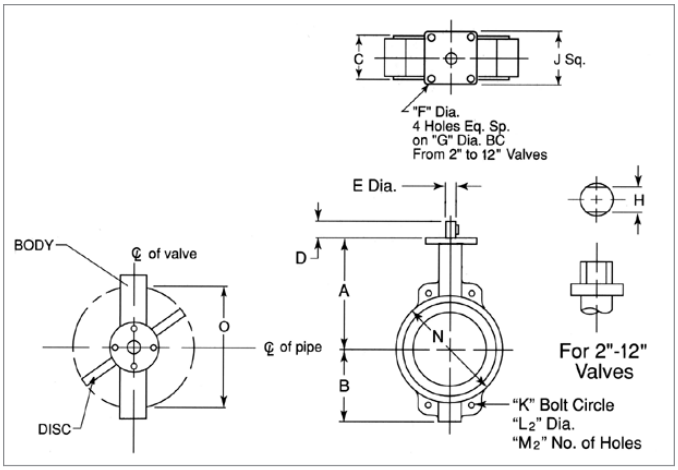
Butterfly Valves - Ductile Iron



MATERIAL SPECIFICATIONS

No.	Part	Material
1	Body	dUCTILE Iron
2	Disc	Ductile Iron
3	Seat	EPDM
4	Shaft	420 Stainless Steel
5	Key	Carbon Steel
6	O-ring	EPDM
7-9	Bushing	Nylon





SIZE \ DIMENSION (in) for HBFV Series

	A	B	C	D	E	F	G	H	J	K	L2	M2	N	O
2"	5.51	2.44	1.64	1.26	.50	.375	2.76	.39	2.75	4.75	.75	4	4.75	2.12
2 1/2"	6.02	2.76	1.75	1.26	.50	.375	2.76	.39	2.75	5.5	.75	4	5.50	2.57
3"	6.26	2.89	1.75	1.26	.50	.375	2.76	.39	2.75	6.0	.75	4	6.00	3.14
4"	7.01	4.49	2.00	1.26	.625	.375	2.76	.47	2.75	7.50	.75	4	7.50	4.13
5"	7.50	4.79	2.13	1.26	.75	.375	2.76	.55	2.75	8.50	.87	4	8.50	5.12
6"	8.01	5.55	2.12	1.26	.75	.375	2.76	.55	2.75	9.50	.87	4	9.50	6.13
8"	9.50	6.85	2.50	1.26	.875	.438	4.02	.67	3.75	11.75	.87	4	11.75	8.15
10"	10.75	8.19	2.50	1.58	1.125	.438	4.02	.87	3.75	14.25	1.00	4	14.29	9.98
12"	12.25	9.53	2.99	1.58	1.125	.438	4.02	.95	3.75	17.00	1.00	4	17.00	11.89

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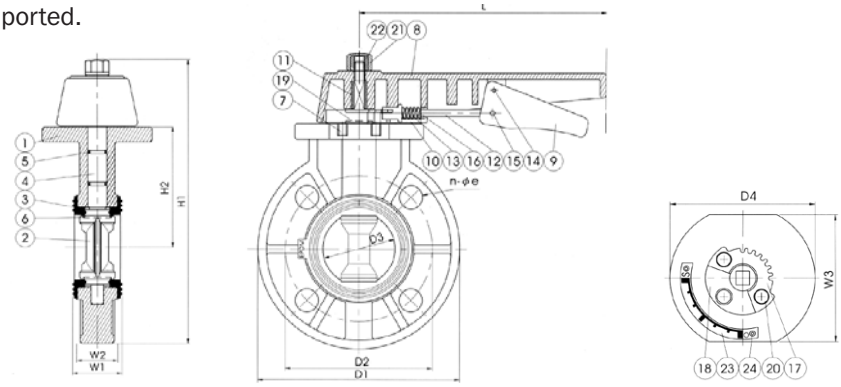
PBFV Series

ISO 9002

PVC Sch 80 Butterfly Valves Features:

NO LEAD ✓ LEAD-FREE

- 150 PSI working pressure.
- PVC body, polypropylene disc, and EPDM seat and o-ring.
- Flanged end design.
- Corrosion resistant.
- Excellent flow characteristics.
- Ideally suited for flow control in a minimum piping space.
- Clear indication of disc opening degree.
- Built in seat requires no additional gaskets between flanges.
- Manufactured for AGI in an ISO 9002 facility.
- Imported.



MATERIAL SPECIFICATIONS

No.	Part	Material	Qty
1	Body	PVC	1
2	Disc	PP	1
3	Seat Seal	EPDM	1
4	Stem	SS 410	1
5	O-ring	EPDM	2
6	O-ring	EPDM	2
7	Inserted Nut	SS 41	3
8	Large Handle	ABS	1
9	Small Handle	ABS	1
10	Spring Lock	ABS	1
11	Handle Insert	SS	1
12	Handle Lever	SS 304	1
13	Spring	SS 304	1
14	Spring Pin	SS 304	1
15	Spring Pin	SS 304	1
16	Washer	SS 304	1
17	Locking Plate	SS 304	1
18	Gear Seat	PP + GF	1
19	Washer	SS 304	1
20	Bolt	SS 304	3
21	Nut	PVC	1
22	Insert Nut	C3604	1
23	Level	SS 304	1
24	Rivet	SS	2

CV ($GPM/(1\ lbf/in^2)^{1/2}$)

Opening Rate: 90°

SIZE	CV
2”	100.87
2 1/2”	137.82
3”	224.08
4”	409.51
5”	523.92
6”	1243.00

DIMENSIONS \ SIZE (in)

	2”	2 1/2”	3”	4”	5”	6”	8”
D1	6.44	7.22	7.80	8.93	9.98	11.12	13.38
D2	4.70	5.44	5.94	7.43	8.42	9.42	11.64
D3	2.20	2.71	3.10	4.01	5.11	6.02	7.91
D4	4.13	4.66	4.84	5.26	6.40	6.64	7.84
L	7.92	7.92	7.92	9.91	11.86	11.86	11.86
H1	9.59	10.37	10.76	12.40	15.21	15.80	18.17
H2	4.02	4.41	4.49	5.27	5.85	6.90	8.19
W1	1.67	1.85	1.85	2.23	2.57	2.88	3.41
W2	1.35	1.45	1.45	1.83	2.22	2.53	3.06
W3	3.67	3.67	3.66	3.89	4.31	3.93	4.76
n-oe	.741	.741	.741	.741	.858	.858	.858

Part Number	Description	Ctn Qty	List Price
PBFV2	2” PVC Butterfly valve	4	$ 246.11
PBFV21/2	2 1/2” PVC Butterfly valve	4	252.11
PBFV3	3” PVC Butterfly valve	4	248.47
PBFV4	4” PVC Butterfly valve	4	283.14
PBFV5	5” PVC Butterfly valve	4	404.37
PBFV6	6” PVC Butterfly valve	4	464.61
PBFV8	8” PVC Butterfly valve	1	684.31
Replacement handles			
PBFV2 HANDLE	2” PVC valve handle	1	27.87
PBFV21/2 HANDLE	2 1/2” PVC valve handle	1	27.87
PBFV3 HANDLE	3” PVC valve handle	1	27.87
PBFV4 HANDLE	4” PVC valve handle	1	34.47
PBFV5 HANDLE	5” PVC valve handle	1	46.29
PBFV6 HANDLE	6” PVC valve handle	1	46.78
PBFV8 HANDLE	8” PVC valve handle	1	46.78

Flanges, Bolt Kits, Gaskets



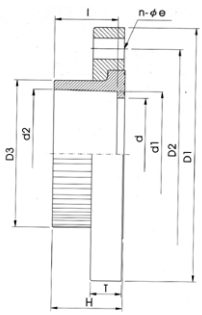
PF Series

ISO 9002

PVC Sch 80 Van Stone Flange Features:

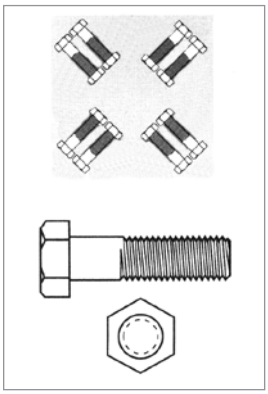
NO LEAD LEAD-FREE

- Two-piece van stone socket style.
- Class 150, Schedule 80
- Improve the security and safety of connections between pipes, valves & fittings.
- Imported - Manufactured for AGI in an ISO 9002 facility.



DIMENSIONS \ SIZE (in)	2”	3”	4”	6”	8”	10”	12”
D1	5.93	7.49	8.93	11.08	13.38	15.83	18.76
D2	4.72	5.93	7.45	9.40	11.62	14.12	16.85
D3	2.96	4.21	5.19	7.45	9.28	12.09	14.20
d	1.99	3.00	3.98	6.08	7.96	9.98	11.97
d1	2.35	3.46	4.45	6.55	8.53	10.64	12.62
d2	2.37	3.48	4.48	6.59	8.57	10.68	12.67
H	1.68	2.11	2.50	3.32	4.60	5.85	7.45
T	.78	1.01	1.09	1.25	1.40	1.64	1.64
l	1.49	1.86	2.23	2.97	3.98	4.80	6.44
n-oe	.741	.741	.741	.858	.858	.936	.975

Part Number	Description	Ctn Qty	List Price
PF2	2” Flange	60	$ 13.23
PF21/2	2 1/2” Flange	36	21.73
PF3	3” Flange	30	21.86
PF4	4” Flange	20	29.25
PF6	6” Flange	10	47.16
PF8	8” Flange	4	76.27
PF10	10” Flange	2	101.93
PF12	12” Flange	2	120.92



BBK Series

Bolt Kit Features:

- For use with cast iron & PVC butterfly valves. BF8200, HBFV and PBFV Series
- ASTM-A307 grade black steel bolts and A563 finished nuts.
- Washers and Gaskets NOT included- Available upon request.

Part Number	Valve Size	Bolt Size	Bolts/Kit	Ctn Qty	List Price
BBK2	2”	5/8” x 5”	4	16	$ 22.28
BBK2.5/3	2 1/2” and 3”	5/8” x 5 1/2”	4	16	22.56
BBK4	4”	5/8” x 6”	8	8	41.49
BBK5/6	5” and 6”	3/4” x 6 1/2”	8	8	54.68
BBK8	8”	3/4” x 7”	8	8	60.96
BBK10	10”	7/8” x 7 1/2”	12	3	144.87
BBK12	12”	7/8” x 8 1/2”	12	3	164.87



GSK Series

Red Rubber Gasket Features:

NO LEAD LEAD-FREE

- For use with butterfly valves, Sch 80 flanges
- Red rubber, 150 lbs., 1/8” full face.

Part Number	Valve Size	List Price
GSK11/2R	1 1/2"	$ **8.24**
GSK2R	2"	**10.93**
GSK21/2R	2 1/2"	**14.28**
GSK3R	3"	**16.19**
GSK4R	4"	**17.51**

Part Number	Valve Size	List Price
GSK5R	5"	$ **20.30**
GSK6R	6"	**23.83**
GSK8R	8"	**32.76**
GSK10R	10"	**43.63**
GSK12R	12"	**70.87**

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Butterfly Valve Installation Kits



PBVIK Series

Butterfly Valve Installation Kit Features:

NO LEAD ✓ LEAD-FREE

- Everything needed for a quick, easy butterfly valve installation.
- Available with PVC Sch 80 or Ductile Iron butterfly valves.
- Custom kits available upon request.

PVC Butterfly Valve Installation Kit Includes:

- One PBFV Series PVC Sch 80 Butterfly valve.
- Two PF Series PVC Sch 80 Van Stone flanges.
- Two red rubber GSK gaskets.
- Bolt kit with steel nuts and bolts.
- Steel washers.

Part Number	Size	Number of Nuts/Bolts	Number of Washers	Ctn Qty	List Price
PBVIK2	2" Kit	4	8	1	$ 311.99
PBVIK21/2	2 1/2" Kit	4	8	1	346.27
PBVIK3	3" Kit	4	8	1	348.68
PBVIK4	4" Kit	8	16	1	420.54
PBVIK6	6" Kit	8	16	1	672.64
PBVIK8	8" Kit	8	16	1	950.09



PHBFV Series

Ductile Iron Butterfly Valve Installation Kit Includes:

NO LEAD ✓ LEAD-FREE

- One HBFV Series Ductile Iron Butterfly valve.
- Two PF Series PVC Sch 80 Van Stone flanges.
- Bolt kit with steel nuts and bolts.
- Steel washers.
- Rubber gaskets NOT included. (Extended EPDM seat on the HBFV valve acts as gasket seal with flange.)

Part Number	Size	Number of Nuts/Bolts	Number of Washers	Ctn Qty	List Price
PHBFV2NG	2" Kit	4	8	1	$ **139.48**
PHBFV3NG	3" Kit	4	8	1	178.87
PHBFV4NG	4" Kit	4	8	1	235.75
PHBFV6NG	6" Kit	4	8	1	**375.99**
PHBFV8NG	8" Kit	4	8	1 *	**586.10**
PHBFV10NG	10" Kit	4	8	1 *	799.51
PHBFV12NG	12" Kit	4	8	1 *	990.63

* Shipped in two cartons

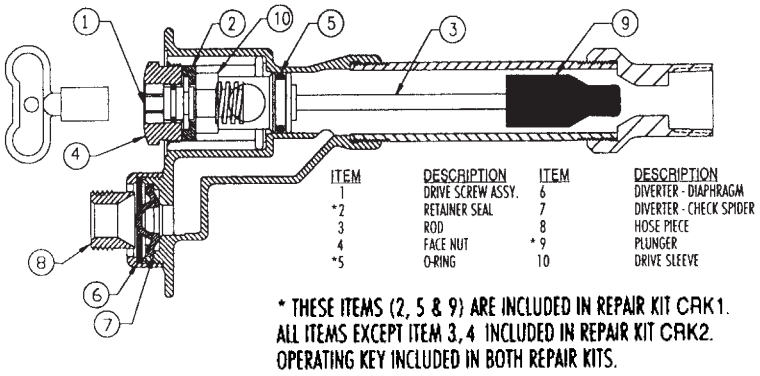


CLAYTON MARK

REPLACEMENT PARTS ONLY

- We no longer offer commercial wall hydrant units, but do offer replacement part kits for Clayton Mark Model 6500 series units.
- Items 2, 5 & 9 are included in minor repair kit CRK1
- All items except 3 & 4 are included in major repair kit CRK2





ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	DRIVE SCREW ASSY.	6	DIVERTER - DIAPHRAGM
*2	RETAINER SEAL	7	DIVERTER - CHECK SPIDER
3	ROD	8	HOSE PIECE
4	FACE NUT	* 9	PLUNGER
*5	O-RING	10	DRIVE SLEEVE

* THESE ITEMS (2, 5 & 9) ARE INCLUDED IN REPAIR KIT CRK1.
ALL ITEMS EXCEPT ITEM 3, 4 INCLUDED IN REPAIR KIT CRK2.
OPERATING KEY INCLUDED IN BOTH REPAIR KITS.

Part Number	Description	Ctn Qty	List Price
Wall Hydrant Repair Kits			
CRK1	Repair Kit I (Minor)	1	$29.49
CRK2	Repair Kit II (Major)	1	203.01

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NO LEAD ✓ LEAD-FREE

Harvard Series Housing Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene (polycarbonate for clear).
- Available in slim and large diameter styles.
- 10” and 20” lengths.
- Blue and clear sumps.
- 3/4” inlet/outlets on slimline, 1” inlet/outlets on large diameter.
- All housings have a pressure relief button.
- Patented double EPDM o-ring seals on slimline assures long term seal. Single o-ring seal on large diameter.
- Maximum temperature rating to 125°F and pressure rating to 125 psi.
- Recommended maximum operating pressure 85 psi for slim style and 90 psi for large diameter.
- Filter housings are bulk packed. Cartridges available separately.

WARNING: Prevent Freezing. Never exceed recommended maximum operating pressures. Use proper pressure reducing valves to protect filter housings from excessive pressure surges.

DO NOT** over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape **OR** non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - **NOT BOTH.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty	List Price
SLIM STYLE Housings with pressure relief for 2 1/2” OD cartridges							
HH75BSLBP	Slim	Blue	Black	3/4”	10”	12	$ 26.58
HH75BSLBP20	Slim	Blue	Black	3/4”	20”	8	80.18
HH75CSLWP	Slim	Clear	Black	3/4”	10”	12	30.43
LARGE DIAMETER STYLE Housings with pressure relief for 4 1/2” O.D. cartridges							
HHLD10BP	Lg. Diam	Blue	Black	1”	10”	6	85.36
HHLD10BP20	Lg. Diam	Blue	Black	1”	20”	6	148.21
HHLD10CP	Lg. Diam	Clear	Black	1”	10”	6	110.54



NO LEAD ✓ LEAD-FREE

Filter Housing Kit Features:

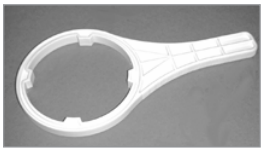
- Slim and Large diameter styles.
- Complete with full size white, powder coated steel mounting bracket, stainless steel screws, sump removal wrench and extra o-ring. (2 o-rings for slim, 1 o-ring for large diameter.)
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

Part Number	Style	Sump	Head	Inlet/Outlet	Length	Case Qty	List Price
HFHP75BSLBP	Slim	Blue	Black	3/4"	10"	12	$ 34.57
HFHP75BSLBP20	Slim	Blue	Black	3/4”	20”	8	80.36
HFHP75CSLWP	Slim	Clear	Black	3/4"	10"	12	37.29
HFHPLD10BP	Large Dia	Blue	Black	1"	10"	6	112.67
HFHPLD10BP20	Large Dia	Blue	Black	1”	20”	6	178.39
HFHPLD10CP	Large Dia	Clear	Black	1”	10”	6	133.31

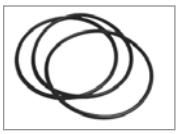
Filter Housing Accessories



HS-BA Series



HW Series



HOR Series



HH Series



HH SUMP

Part Number	Fits Style	Material	Color	Ctn Qty	List Price
Mounting Brackets for Harvard Series Filter Housings					
Includes stainless steel head and wall mounting screws					
HS10BA	Slim (L)	Powder coated steel	White		$ 9.10
HS25BA	Large Diam. (L)	Powder coated steel	White		48.94
Wrenches for Harvard Series Filter Housing sump removal					
HWSL	Slim	Polypropylene	White		2.57
HWLD	Large Diam.	Polypropylene	White		8.26
O-rings for Harvard Series Filter Housings					
HOR4	Slim	EPDM			1.85
HOR5	Large Diam.	EPDM			4.21
Replacement Heads w/ pressure relief Harvard Series Filter Housings					
HH75HEAD	Slim		Black	1	6.23
HHLDHEAD	Large Diam.		Black	1	37.35
Replacement Sumps for Harvard Series Filter Housings					
HHLDSUMPBL20	Large Diameter (20”)		Blue	1	91.44

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Economy Filter Housings & Kits



EH Series

EH Series Economy Housing Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene.
- Available in slim, standard and large diameter styles, 10" and 20" lengths.
- Opaque and clear sumps with EPDM o-ring seals.
- 3/8" - 1 1/2" inlet/outlets. VIH clear has stainless steel 3/4" FPT inserts.
- All housings have a pressure relief button.
- Slim and Standard rated for temperature to 125°F, pressures to 125 psi.
- Filter housings are bulk packed. Cartridges available separately.

NO LEAD ✓ LEAD-FREE

DO NOT** over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape **OR** non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - **NOT BOTH.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty	List Price
SLIM STYLE Housings with pressure relief for 2 1/2" OD cartridges							
EH38BSLBP	Slim	Blue	Black	3/8"	10"	12	$ 38.42
EH50BSLBP	Slim	Blue	Black	1/2"	10"	12	36.73
EH50CSLWP	Slim	Clear	White	1/2"	10"	12	49.02
EH75BSLBP	Slim	Blue	Black	3/4"	10"	12	28.57
EH75CSLWP	Slim	Clear	White	3/4"	10"	12	37.44
Valve-in-Head STANDARD STYLE Housings for 2 1/2" OD cartridges (allows by-pass during cartridge replacement)							
PFH75VC	**Standard VIH***	**Clear**	**Blue**	**3/4"**	10"	12	89.51
STANDARD STYLE Housings with pressure relief for 2 1/2" OD cartridges							
EH75BP	Standard	Blue	Black	3/4"	10"	12	52.56
EH75CP	Standard	Clear	Black	3/4"	10"	12	60.18
EH75B20P	Standard	Blue	Black	3/4"	20"	12	87.34
LARGE DIAMETER STYLE Housings with pressure relief for 4 1/2" O.D. cartridges. * Rated to 90 psi							
EHLD75BP	Lg. Diam	Blue	Black	3/4"	10"	4	98.57
EHLD10BP	Lg. Diam	Blue	Black	1"	10"	4	99.77
EHLD15BP	Lg. Diam	Blue	Black	1 1/2"	10"	4	114.91
EHLD75B20P	Lg. Diam	Blue	Black	3/4"	20"	4	204.00
EHLD10B20P	Lg. Diam	Blue	Black	1"	20"	4	145.87
EHLD15B20P	Lg. Diam	Blue	Black	1 1/2"	20"	4	145.13

* Pentek



EFHP Series

NO LEAD ✓ LEAD-FREE

Filter Housing Kit Features:

- Slim, VIH, Standard and Large diameter styles.
- Complete with mounting bracket (with stainless steel screws) and sump removal wrench.
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

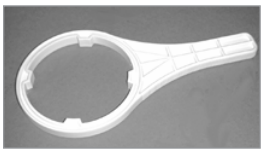
Part Number	Style	Sump	Inlet/Outlet	Length	Bracket	Case Qty	List Price
EFHP75BSLBP	Slim	Blue	3/4"	10"	YES	6	$ 47.27
EFHP75VCP	**Standard VIH***	Clear	3/4"	10"	YES	4	105.88
EFHP75BP	Standard	Blue	3/4"	10"	YES	4	68.32
EFHPLD75BP	Large Dia	Blue	3/4"	10"	YES	1	162.50
EFHPLD10BP	Large Dia	Blue	1"	10"	YES	1	162.50
EFHPLD15BP	Large Dia	Blue	1 1/2"	10"	YES	1	176.09

* Pentek

Economy Filter Accessories



ES-BA Series

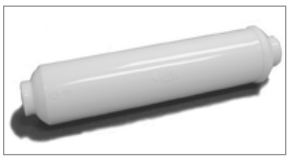


EW Series



EOR Series

Part Number	Fits Style	Material	Color	Ctn Qty	List Price
Mounting Brackets for EH Series Filter Housings					
Includes stainless steel head and wall mounting screws					
ES10BA	EH Slim (L)	Aluminum	White		$ 7.16
ES15BA	EH Valve in Head (U)	Aluminum	--		12.18
ES20BA	EH Standard (L)	Aluminum	White		14.79
ES25BA	EH Large Diam. (L)	Aluminum	---		63.09
Wrenches for EH Series Filter Housing sump removal					
EWSL	Slim	Polypropylene	White		4.34
EWSTND	Standard	Polypropylene	White		4.17
EWLD	Large Diam.	Polypropylene	Black		10.44
O-rings for EH Series Filter Housings					
EOR4	Slim	EPDM			4.99
EOR-VIH	Slim VIH	EPDM			2.18
EOR8	Standard	EPDM			3.61
EOR5	Large Diam.	EPDM			6.40



EIC100

NO LEAD ✓ LEAD-FREE

Inline Ice Maker Carbon Filter Features:

- NSF listed.
- Granular activated carbon medium.
- Removes chlorine, taste and odor from water
- Ideal for refrigerator ice makers, water dispensers and coffee makers.
- Furnished with or without 1/4" fittings.

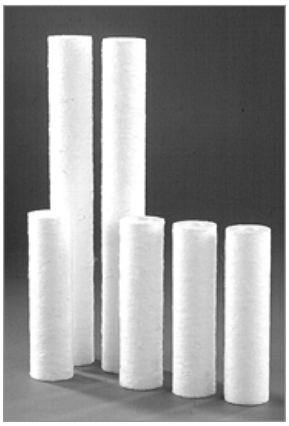
Part Number	OD	Length	Fits Pipes	Pipe Ftgs	Ctn Qty	List Price
EIC100	2”	10”	1/4" FPT	NO	25	$ 14.83
EIC100JG	2"	10"	1/4" plastic or copper tubing	1/4" John Guest	25	20.53

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EFP Series

NSF ANSI / NSF STANDARD 42 COMPONENT CERTIFIED

NO LEAD LEAD-FREE

EFP Series Melt Blown Polypropylene Filter Cartridge Features:

- Melt blown polypropylene for purity and chemical compatibility.
- Ideal for aggressive chemicals and general sediment filtration when depth filtration is required.
- Max Flow rate 2-8 gpm based on micron.
- Contains no binders, agents, solvents, antistatic materials or wetting agents.
- Meets FDA requirements for food and beverage contact.
- No leachables or extractables to contaminate.
- No surface binders to reduce flow & increase change-out frequency.
- Rated for tempertures up to 140° F
- Shrink wrapped for purity.

Part Number	Micron	O.D.	Length	Ctn Qty	List Price
MELT BLOWN POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings					
EFP1	1	2 1/2"	9 7/8"	48	$ **6.98**
EFP5	5	2 1/2"	9 7/8"	48	5.16
EFP20	20	2 1/2"	9 7/8"	48	5.16
EFP50	50	2 1/2"	9 7/8"	48	5.16
EFP1-20	1	2 1/2"	20"	24	10.49
EFP5-20	5	2 1/2"	20"	24	11.40
EFP20-20	20	2 1/2"	20"	24	10.45
EFP50-20	50	2 1/2"	20"	24	**11.45**
MELT BLOWN POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings					
EFPBB1	1	4 1/2"	9 3/4"	24	39.13
EFPBB5	5	4 1/2"	9 3/4"	24	33.01
EFPBB20	20	4 1/2"	9 3/4"	24	33.01
EFPBB50	50	4 1/2"	9 3/4"	24	**41.54**
EFPBB1-20	1	4 1/2"	20"	12	86.20
EFPBB5-20	5	4 1/2"	20"	12	60.24
EFPBB20-20	20	4 1/2"	20"	12	62.65
EFPBB50-20	50	4 1/2"	20"	12	**81.89**



EFP_G Series

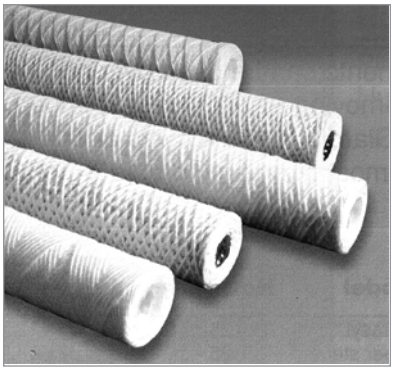
EFP-G Series Grooved Melt Blown Polypropylene Filter Cartridge Features:

- Grooved cartridges for increased surface area and greater dirt handling capacity.
- Melt blown polypropylene.
- Maximum tempertures 140° F
- Maximum pressure: 40 psid
- Recommended change out 30 psid.
- Maximum flow rate 2-8 gpm based on micron.
- Shrink wrapped for purity.
- Fits slim and standard style housings.

NO LEAD LEAD-FREE

Part Number	Micron	OD	Length	Ctn Qty	List Price
EFP5G	5	2 1/2"	9 3/4"	48	$ 7.20
EFP20G	20	2 1/2"	9 3/4"	48	**7.20**

Economy Filter Cartridges



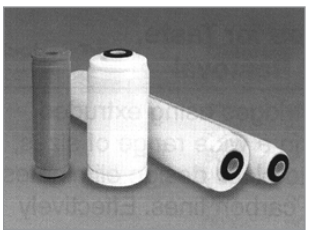
EFWP Series

EFW Series Wound Filter Cartridge Features:

- Excellent depth filtration.
- FDA grade polypropylene fibers.
- Polypropylene center tubes.
- For tempertures to 140 F.
- Individually wrapped.

NO LEAD
LEAD-FREE

Part Number	Medium	Type of Construct	Micron	O.D.	Length	Ctn Qty	List Price
WOUND POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings							
EFWP1	Polypropylene	Wound	1	2 1/2"	9 7/8"	25	$ 8.88
EFWP5	Polypropylene	Wound	5	2 1/2"	9 7/8"	25	8.88
EFWP10	Polypropylene	Wound	10	2 1/2"	9 7/8"	25	**11.48**
EFWP20	Polypropylene	Wound	20	2 1/2"	9 7/8"	25	7.55
EFWP30	Polypropylene	Wound	30	2 1/2"	9 7/8"	30	**13.10**
EFWP50	Polypropylene	Wound	50	2 1/2"	9 7/8"	30	7.55
EFWP1-20	Polypropylene	Wound	1	2 1/2"	20"	15	**19.21**
EFWP5-20	Polypropylene	Wound	5	2 1/2"	20"	15	**19.21**
EFWP10-20	Polypropylene	Wound	10	2 1/2"	20"	15	**19.57**
EFWP20-20	Polypropylene	Wound	20	2 1/2"	20"	15	16.24
EFWP30-20	Polypropylene	Wound	30	2 1/2"	20"	15	18.80
EFWP50-20	Polypropylene	Wound	50	2 1/2"	20"	15	**19.07**
WOUND POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings							
EFWPBB1	Polypropylene	Wound	1	4 1/2"	9 3/4"	8	$ **35.53**
EFWPBB5	Polypropylene	Wound	5	4 1/2"	9 3/4"	8	30.51
EFWPBB20	Polypropylene	Wound	20	4 1/2"	9 3/4"	8	**34.21**
EFWPBB50	Polypropylene	Wound	50	4 1/2"	9 3/4"	8	**36.12**
EFWPBB1-20	Polypropylene	Wound	1	4 1/2"	20"	4	**64.74**
EFWPBB5-20	Polypropylene	Wound	5	4 1/2"	20"	4	55.61
EFWPBB20-20	Polypropylene	Wound	20	4 1/2"	20"	4	**61.47**
EFWPBB50-20	Polypropylene	Wound	50	4 1/2"	20"	4	**61.73**



EFGAC Series

NO LEAD
LEAD-FREE

EFGAC Series Granulated Activated Carbon Filter Cartridge Features:

- For removal of taste, odor, organic chemicals and chlorine.
- 5 micron

Part Number	Fits Housing Style	O.D.	Length	Ctn Qty	List Price
EFGAC10	Slim, Standard	2 1/2"	9 3/4"	24	$ 16.59
EFGAC20	Slim, Standard	2 1/2"	20"	24	**39.83**
EFGACBB	Large Diameter	4 1/2"	9 3/4"	8	50.43
EFGACBB20	Large Diameter	4 1/2"	20"	4	84.33

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Economy Filter Cartridges



EFSP Series

NO LEAD LEAD-FREE

EFSP Series Pleated Filter Cartridge Features:

- Pleated cartridges provide increased surface area, lower pressure drop and longer service life than other cartridges.
- Cellulose-free, 100% synthetic media is washable and reusable, 5 micron and up, to reduce filter costs.
- Contains no binders or additives to breakdown which may cause foaming and filter degradation.
- Color coded end caps 2 3/4" OD.
- Individually wrapped for purity.

Specifications:

Maximum temperature	140° F
Minimum temperature	40° F
Maximum pressure	40 psid
Recommended change out	25 psid
Filter Media (1 & 5 micron)	Polypropylene
Filter Media (20 & 50 micron)	Polyester
Material - center tube	Polypropylene
Material - end caps	Molded Polyurethane
ID	1 1/6"

Part Number	Micron	End Cap Color	O.D.	Length	Ctn Qty	List Price
PLEATED Filter cartridges for STANDARD style housings						
EFSP1	1	Tan	2 3/4"	9 3/4"	50	$ **20.01**
EFSP5	5	White	2 3/4"	9 3/4"	50	13.06
EFSP20	20	Blue	2 3/4"	9 3/4"	50	10.45
EFSP50	50	Yellow	2 3/4"	9 3/4"	50	10.45
EFSP1-20	1	Tan	2 3/4"	20"	25	37.55
EFSP5-20	5	White	2 3/4"	20"	25	**35.61**
EFSP20-20	20	Blue	2 3/4"	20"	25	23.55
EFSP50-20	50	Yellow	2 3/4"	20"	25	23.55
PLEATED Filter cartridges for LARGE DIAMETER style housings						
EFSPBB1	1	Blue	4 1/2"	9 3/4"	18	**52.51**
EFSPBB5	5	Blue	4 1/2"	9 3/4"	18	34.01
EFSPBB20	20	Blue	4 1/2"	9 3/4"	18	28.77
EFSPBB50	50	Blue	4 1/2"	9 3/4"	18	28.77
EFSPBB1-20	1	Blue	4 1/2"	20"	9	75.84
EFSPBB5-20	5	Blue	4 1/2"	20"	9	65.39
EFSPBB20-20	20	Blue	4 1/2"	20"	9	52.33
EFSPBB50-20	50	Blue	4 1/2"	20"	9	52.33

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Big-Bubba Filter Housings



Big-Bubba® High Flow Non-Metallic Filter Housing Features:

Big-Bubba® high flow filters are bigger and better than other non-metallic filter housings because of their economical plastic construction, while pressure rating is nearly equal to stainless steel.

Features:

- Made of glass-reinforced polypropylene for greater strength and chemical resistance.
- Will not dent, rust, chip or corrode.
- Filters accept a single cartridge for convenience.
- Swing-bolt lid closure is easy, safe and secure.
- Pressure release for safety.
- Cartridge “lock” adapter to hold cartridge in place.
- Double o-rings on cartridges for superior sealing.
- Two outlets on opposite sides to allow more flexibility with piping configurations.

Typical Applications:

- Whole house filtration for chlorine, taste, odor and sediment reduction.
- Industrial applications for chemical compatability.
- Pre-filtration for reverse osmosis.
- Community water systems for cyst reduction.
- Sea water filtration for non corrosion.

Specifications:

Materials	
Body, cartridge end caps	Glass reinforced PP
Swing Bolts	304SS
O-Ring (lid)	EPDM
Lid closure	Swing Bolt
Pipe Fittings (2 inlet, 1 outlet)	2” slip
Overall height	40”
Width(vessel OD)	12”
Maximum Flow Rate	150 gpm *
Maximum temperature (housing)	175° F
Maximum working pressure	125 psi
Burst test	300 psi
Cycle test (0 to 150 psi)	100,000

* Dependent on micron rating (see pressure drop chart)

Parallel Installation



Parallel installations are recommended to achieve high flow rates, by installing filters on a common manifold, feeding all filters installed in a row.

Series Installation



Series installations are recommended for applications such as surface water filtration, where cartridges having different micron ratings are used.

Certified to ANSI-NSF 61

NO LEAD LEAD-FREE

Part No.	Description	Max Flow Rate	Pipe Fitting	List Price
BBH150	Big-Bubba Housing	150 gpm	2” slip	$ 2561.80

Big Bubba Filter Cartridges



BBC-P Series



BBC-D Series



BBC-AC Series

Big-Bubba® High Flow Filter Cartridge Features:

Replacement cartridges for Big-Bubba filters, all with double o-ring seals for superior performance.
Cartridges are easy to install, service and replace.

Pleated:

• Pleated cartridges are recommended for typical water filtration applications to remove sediment, hard solids and when high efficiency filtration is required. Available in a wide range of micron ratings, including one micron absolute for surface water filtration to reduce Giardia Cycts and Cryptosporidium.

Depth:

• Select depth cartridges to remove sediment, gelatinous substances and when chemical compatibility is an issue. Big-Bubba melt blown depth cartridges are 100% polypropylene with EPDM o-rings.

Activated Carbon Cartridges:

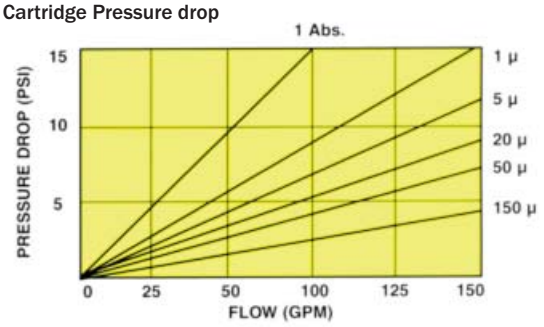
• Ideal for whole house filtration and other applications to reduce chlorine, tastes, odors and sediment from water. Rated at 5 micron.

Specifications:

	PLEATED	DEPTH
Media	PP	PP
End Caps	PP & FG	PP & FG
Center Tubes	PP	PP
Maximum Flow Rate*	150 gpm	100 gpm
Maximum temperature	175° F	175° F
Maximum Chg pressure (psi)	30	40
Chemical Resistance	Excellent	Excellent
Length (media)	26 1/4"	26 1/4"
O-rings (dual)	EPDM	EPDM

* Flow rates based on each specific application, micron rating, solids content and other factors. End user should consider these factors when selecting the filter housing (or housings) needed for their particular requirement.

PLEATED Cartridge Pressure drop



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Part Number	Micron	Media Type	Seals	Ctn Qty	List Price
PLEATED					
BBC-150-P5	5	Polypropylene	Double O-rings	1	$ 659.77
BBC-150-P20	20	Polypropylene	Double O-rings	1	558.07
BBC-150-P50	50	Polypropylene	Double O-rings	1	538.50
DEPTH					
BBC-150-D1	1	Polypropylene	Double O-rings	1	319.86
BBC-150-D5	5	Polypropylene	Double O-rings	1	263.82
BBC-150-D20	20	Polypropylene	Double O-rings	1	258.95
BBC-150-D50	50	Polypropylene	Double O-rings	1	275.75
ACTIVATED CARBON					
BBC-150-AC	5 nominal	Activated carbon	Double O-rings	1	1209.70

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Residential Reverse Osmosis Systems



HROK4



HROK5

NO LEAD ✓ LEAD-FREE

HARVARD Residential Reverse Osmosis System Features:

- Pre-assembled, easy to install 4 or 5 stage RO system.
- Complete with all installation accessories and instructions.
- High rejection, thin film membrane up to 98% efficient with 50 gal/day (4 stage) or 75 gal/day (5 stage) capacity. (Note: Feed water requirements below)
- NSF Standard 58 listed, CE certified, polypropylene tank rated to 100 psi.
- All fittings, tubing, housings, valves, cartridges and membranes are NSF listed or made from NSF listed materials.
- Automatic shut-off valve made from NSF listed materials.
- Lead free, long reach chrome faucet included. Meets California AB1953 requirements.
- Cartridges, valves, fittings, sump wrench, white mounting bracket and complete installation instructions included.

Feed Water Requirements:

- Maximum TDS: 2,000 ppm
- Maximum Iron: 0.3 ppm
- Maximum hardness: 12 gpg
- Temperature: 45-100°F
- Maximum hydrogen sulfate:0
- Maximum manganese: 0.05 ppm
- Pressure: 40-85 psi (min/max)
- pH: 4-10

The Benefits (nominal ion rejection characteristics)*

Aluminum	96-98%	Manganese	96-98%
Ammonium	80-90%	Mercury	94-97%
Borate	30-50%	Nickel	96-98%
Boron	50-70%	Nitrate	90-95%
Bromide	90-95%	Orthophosphate	96-98%
Cadmium	93-97%	Phosphate	95-98%
Calcium	93-98%	Polyphosphate	96-98%
Chloride	92-95%	Potassium	92-96%
Chromate	85-95%	Radioactivity	93-97%
Copper	96-98%	Silica	80-90%
Cyanide	85-95%	Silicate	92-95%
Fluoride	92-95%	Silver	93-96%
Hardnes Ca & Mg	93-97%	Sodium	92-98%
Iron	96-98%	Sulfate	96-98%
Lead	95-98%	Thiosulfate	96-98%
Magnesium	93-98%	Zinc	96-98%

• The above percent rejection is for reference only. Actual rejection will depend heavily on the exact chemistry, temperture, pressure & TDS content of the feed water.

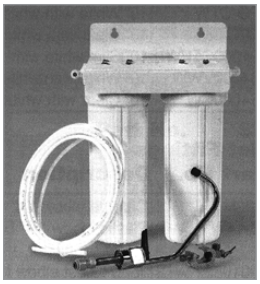
HROK Systems Include:

- NSF listed John Guest style quick connect fittings.
- Filter housings made from NSF listed materials.
- NSF Standard 58, CE listed polypropylene tank. (10" diam x 15" high)
- 5 micron sediment pre-filter cartridge.
- Activated GAC granular carbon cartridge (5 stage)
- Activated carbon block cartridge.
- NSF listed Dow/Filmtec thin film membrane. 50 gpd (4 stage) 75 gpd (5 stage).
- Inline post carbon polishing cartridge.
- Automatic shutoff valve made with NSF materials.
- Long reach, lead free chrome faucet, meets California AB1953.
- Sump wrench, tubing, service valve, check valve, ball valves, flow restrictor included.
- Complete installation instructions.
- 5 stage with booster pump for sink water pressure lower than 40 psi.
- Booster pump rated to 125 psi with 110V/60 Hz, 24VDC power.

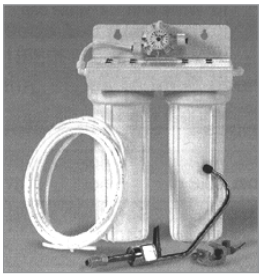
Note: For cold water use only. Do not install on hot water line. To insure that the membrane is fuctioning properly, the product water must be tested regularly.

Part No.	Description	List Price
HROK4	4 stage RO system, 50 gpd	$ 410.89
HROK5	5 stage RO system, 75 gpd	466.34
HROK5BP	5 stage RO system, 75 gpd w/ booster pump	635.64
HROK4MEM50	Dow/Filmtec TFC membrane 50 gpd	116.43
HROK5MEM75	Dow/Filmtec TFC membrane 75 gpd	147.50
HROKTANK32	3.2 gal plastic tank, NSF58/CE	100.04
HROKASV	Auto shutoff valve	10.19

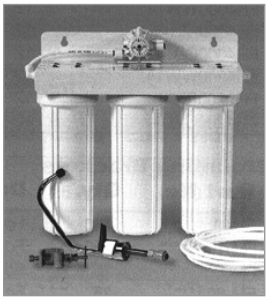
Economy Drinking Water Systems



DWS2



DWS2M



DWS3M

Economy Drinking Water System Features:

- Pre-assembled, easy to install.
- Complete with all installation accessories and instructions.
- Carbon and sediment filter cartridges sold separately.
- Select the appropriate carbon cartridge to reduce taste and odor, chlorine, giardia, cryptosporidium, VOC's, lead and mercury.

DWS Series Includes:

- NSF listed housings
- NSF listed John Guest fittings.
- NSF listed tubing.
- Lead free, long reach chrome faucets. Meets State of California requirements.
- WQA validated, 1800 gallon, patented automatic shut-off valve made from NSF listed materials. (DWS-M Series only)
- White aluminum bracket with stainless steel mounting screws.
- Saddle valve.
- Carbon filter cartridges **NOT** included.

NO LEAD ✓ LEAD-FREE

Part No.	Description	List Price
DWS2	2 Stage system (no Auto shut-off)	$ 185.52
DWS2M	2 Stage systrem w/ Auto shut-off	**252.88**

Available Carbon Filter Cartridges
See page 4.13-14 for description and list prices.








Series	PFC	PFGAC	PFCEP	PFCC	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	N/A	1 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes	Yes
Cyst Reduction Giardia & Cryptosporidium	No	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes	Yes
Lead & Mercury	No	No	No	No	No	Yes

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Styles:
- Standard
- Slim Line™
- Valve-in-Head
- High Temperature
- Big Blue®

Materials:
- Opaque - Reinforced Polypropylene
- Clear - FDA Styrene-Acrylonitrile (SAN)

Applications:
- Residential/Whole house, Commercial/Industrial, Institutional, OEM

PENTAIR

ISO 9001

NSF

NO LEAD LEAD-FREE

DO NOT** over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape **OR** non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - **NOT BOTH.



PFH75B



PFH75C

Standard Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/4" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Equipped with pressure relief button on the inlet side of the head.
- NPsuffix - no pressure relief button.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75B	Standard	Blue	Black	3/4" NPT	12 1/4"	5 1/8"	12	$ 61.04
PFH75C	Standard	Clear	Black	3/4" NPT	12 1/4"	5 1/8"	12	**73.98**
PFH75B20	Standard	Blue	Black	3/4" NPT	22 3/8"	5 1/8"	8	**99.08**



PFH38SLC5



PFH38SLC

Slim Line™ Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/8" NPT inlet/outlet.
- Available in 5" and 10" lengths.
- Equipped with pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH38SLB5	Slimline	Blue	Black	3/8" NPT	7"	4 3/8"	12	$ 47.85
PFH38SLC5	Slimline	Clear	Blue	3/8" NPT	7"	4 3/8"	12	72.81
PFH38SLB	Slimline	Blue	Black	3/8" NPT	11 3/4"	4 3/8"	12	**25.46**
PFH38SLC	Slimline	Clear	Blue	3/8" NPT	11 3/4"	4 3/8"	12	51.65

Filter Housings

DO NOT** over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape **OR** non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - **NOT BOTH.



PFH75VB20

Valve-in-Head Housing Features:

- Valve-in-Head (VIH) feature closed both the inlet and outlet ports simultaneously with a half turn of the handle.
- Makes cartridge change outs quick and easy.
- Available in 5”, 10” and 20” lengths.
- Incudes pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75VB	VIH	Blue	Black w/ VIH	3/4” NPT	12 1/2”	5 1/8”	12	$ 110.32
PFH75VC	VIH	Clear	Blue w/ VIH	3/4” NPT	12 1/2”	5 1/8”	12	89.51
PFH75VB20	VIH	Blue	Black w/ VIH	3/4” NPT	22 3/8”	5 1/8”	8	159.13



PFH75HR

High Temperature Housing Features:

- Low cost alternative to stainless and carbon steel housings.
- Durable glass reinforced nylon construction.
- Available with 1/2” and 3/4” NPT inlet/outlet
- Maximum temperature rating of 160°F.
- Maximum operating pressure 125 PSI.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75HR	High Temp	Black	Black	3/4” NPT	12 1/8”	5 1/8”	12	$ 309.98



Big Blue

Big Blue® Large Diameter Housing Features:

- Large capacity housing designed for whole house and high-flow applications.
- Available with 3/4”, 1” or 1 1/2” NPT inlet/outlet.
- Available in 10” and 20” lengths.
- Equipped with a pressure relief button on the inlet side of the head.
- Accepts large capacity 4 1/2” diameter cartridges.
- Maximum operating pressure 100PSI @ 100° F
- PFHD10 and PFHD15 packed in white box with a spanner wrench.
- Bulk packed without spanner wrench

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
CPFHD75	Big Blue®	Blue	Black	3/4” NPT	13 1/8”	7 1/4”	6	$ 97.87
CPFHD75BB	Big Blue®	Blue	Black	3/4” NPT	23 3/8”	7 1/4”	4	138.34
CPFHD10	Big Blue®	Blue	Black	1” NPT	13 1/8”	7 1/4”	6	96.01
PFHD10	Big Blue®	Blue	Black	1” NPT	13 1/8”	7 1/4”	1	133.50
PFHD10HFP20	Big Blue®	Blue	Black	1” NPT	23 3/8”	7 1/4”	4	168.00
CPFHD15	Big Blue®	Blue	Black	1 1/2” NPT	13 5/8”	7 1/4”	6	105.05
PFHD15	Big Blue®	Blue	Black	1 1/2” NPT	13 5/8	7 1/4”	4	130.58
PFHD15HFP20	Big Blue®	Blue	Black	1 1/2” NPT	23 3/8	7 1/4”	4	173.88

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Cartridge Selection Guide

PENTAIR

ISO 9001

SEDIMENT







Series	PFWP	PFS	PFR	PFP	PFPD
Micron Rating	5, 25, 50	20	30, 50	1, 5, 25	1, 5,25
Avail Lengths	10”	10” & 20”	10”	10” & 20”	10” & 20”
Construction Style	String Wound	Pleated	Pleated	Spun	Therm Bonded
Medium	Polypropylene	Cellulose	Polyester	Polypropylene	Polypropylene
Filtration Style	Depth	Surface	Surface	Depth	Depth
Applications	Chlorinated & Non-Chlorinated	Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated
Avail for Big Blue	Yes	Yes	Yes	No	No

TASTE/ODOR & SEDIMENT







Series	PFC	PFGAC	PFCEP	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	0.5 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes
Cyst Reduction Giardia & Cryptosporidium	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes
Lead & Mercury	No	No	No	No	Yes
Avail for Big Blue	No	Yes	Yes	Yes	No
Est Filter Life	6 mo.	12 mo.	12 mo.	12 mo.	12 mo.

Filter Cartridges

Sediment Cartridges:
- String wound
- Pleated cellulose
- Pleated polyester
- Spun polypropylene
- Thermally Bonded polypropylene



PFWP String Wound



PFWP-BB String Wound



PFWPX-BB Fibrillated

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

PENTAIR

ISO 9001

String Wound Cartridges

PFWP & PFCW Series String Wound Polypropylene Cartridges

- Ideal for fine sediment reduction, including sand, silt , scale and rust.
- These cord wound cartridges are compatible with most acids, alkalies, corrosive fluids & gases.
- Precise winding pattern ensures high efficiency rate and high dirt loading capacity.
- Core material: FDA Polypropylene
- Max temperture: 180° F
- General purpose filtration.

PFWP-BB Series String Wound Polypropylene Cartridges

- Constructed of fiberous polypropylene over polypropylene core.
  Note: An antistatic agent has been used in the processing of the fiberous polypropylene and may cause some foaming in water.

PFWPX-BB String Wound Fibrillated Polypropylene Cartridges

- Constructed of fibrillated polypropylene on a polypropylene core.
- For use when pressures require minimization of exactables and/or fiber migration.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Length	Ctn Qty	List Price
Standard Housings 2 3/8" diameter							
PFWP1	Polypropylene	Wound	1	5	9-7/8"	30	$ 5.79
PFWP5	Polypropylene	Wound	5	5	9-7/8"	30	5.79
PFWP10	Polypropylene	Wound	10	5	9-7/8"	30	5.79
PFWP20	Polypropylene	Wound	20	5	9-7/8"	30	5.79
PFWP25	Polypropylene	Wound	25	5	9 7/8"	30	5.79
PFWP30	Polypropylene	Wound	30	5	9-7/8"	30	5.79
PFWP50	Polypropylene	Wound	50	5	9-7/8"	30	5.79
PFCWMF	Polypropylene	Wound	med. fine	10	9 7/8"	24	**10.12**
PFCW50	Polypropylene	Wound	50	10	9-7/8"	24	**12.29**
PFWP1-20	Polypropylene	Wound	1	5	20"	30	12.70
PFWP5-20	Polypropylene	Wound	5	5	20"	30	11.77
PFWP10-20	Polypropylene	Wound	10	5	20"	30	11.77
PFWP20-20	Polypropylene	Wound	20	5	20"	30	11.77
Large Diameter Housings 4 1/2" diameter							
PFWP.5BB97P	Polypropylene	Wound	0.5	5	9-7/8"	9	24.42
PFWP1BB97P	Polypropylene	Wound	1	5	9-7/8"	9	24.65
PFWP5BB97P	Polypropylene	Wound	5	5	9-7/8"	9	24.65
PFWP10BB97P	Polypropylene	Wound	10	5	9-7/8"	9	24.65
PFWP20BB97P	Polypropylene	Wound	20	5	9-7/8"	9	24.65
PFWP30BB97P	Polypropylene	Wound	30	5	9-7/8"	9	24.65
PFWP50BB97P	Polypropylene	Wound	50	5	9-7/8"	9	24.65
PFWP.5BB20P	Polypropylene	Wound	0.5	5	20"	9	43.14
PFWP1BB20P	Polypropylene	Wound	1	5	20"	9	43.14
PFWP5BB20P	Polypropylene	Wound	5	5	20"	9	39.93
PFWP10BB20P	Polypropylene	Wound	10	5	20"	9	39.93
PFWP20BB20P	Polypropylene	Wound	20	5	20"	9	39.93
PFWP25BB20P	Polypropylene	Wound	25	5	20"	9	39.93
PFWP50BB20P	Polypropylene	Wound	50	5	20"	9	39.93
PFWP60BB20P	Polypropylene	Wound	60	5	20"	9	38.27
PFWPX5BB97P	Fibrillated Polypropylene	Wound	5	10	9-7/8"	8	**59.14**
PFWPX10BB97P	Fibrillated Polypropylene	Wound	10	15	9-7/8"	8	**58.86**
PFWPX25BB97P	Fibrillated Polypropylene	Wound	25	20	9-7/8"	8	**62.75**
PFWPX50BB97P	Fibrillated Polypropylene	Wound	50	30	9-7/8"	8	**57.19**

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PFS

PFS Series Pleated Cellulose Cartridge

- Used for general water filtration purposes.
- This filter is comprised of four square feet of cellulose, providing maximum suface area and strength to prolong cartridge life.
- End caps fused to body assure an integral sealing area and prevent by-pass.
- Nominal 20 micron rating.

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFS1	Cellulose	Pleated	20	12	Standard	9-3/4”	24	$ 10.15
PFS1-20	Cellulose	Pleated	20	15	Standard	20”	14	25.43
PFS1BB	Cellulose	Pleated	20	10	Big Blue	9-3/4”	8	32.55
PFS1-20BB	Cellulose	Pleated	20	12	Big Blue	20”	6	57.05



PFR

PFR Series Pleated Polyester Cartridges

- Excellent for water well, institutional and light industrial applications.
- Four square feet of media on standard and 20 square feet of media on BB
- Pleated polyester fabric filter can be washed and resued several times.†Reuse is not recommended in potable water applications.
- Synthetic construction will not support bacteria growth.
- Available with nominal 30 and 50 micron ratings.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFR30-478	Polyester	Pleated	30	5	Compact	4-7/8	24	$ 21.43
PFR30	Polyester	Pleated	30	12	Standard	9-3/4”	24	27.43
PFR50	Polyester	Pleated	50	12	Standard	9-3/4”	24	27.65
PFR30BB	Polyester	Pleated	30	25	Big Blue	9 3/4”	8	42.84
PFR50BB	Polyester	Pleated	50	25	Big Blue	9 3/4”	8	40.47



PFCP

PFCP Series Pleated Cellulose Polyester Cartridges

- 6 sq. feet of media on standard and 16 sq.ft. on BB provide additional surface area and allow increased dirt holding capacity and low pressure drop
- Ideal for high flow applications.
- Cartridges are encapsulated in polyester outer sheath for added support.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFCP1	Cellulose Polyester	Pleated	1	15	Standard	9-3/4”	24	$ 17.55
PFCP5	Cellulose Polyester	Pleated	5	15	Standard	9-3/4”	24	16.35
PFCP20	Cellulose Polyester	Pleated	20	15	Standard	9-3/4”	24	16.02
PFCP5BB	Cellulose/Poly Blend	Pleated	5	30	Big Blue	9-3/4	8	38.20
PFCP5-20BB	Cellulose/Poly Blend	Pleated	20	30	Big Blue	9-3/4	6	73.54

Filter Cartridges



PFP Series Spun Polypropylene Fiber Cartridges

- Excellent bacteria and chemical resistance.
- Manufactured from pure 100% polypropylene.
- Fibers are carefully spun to form a cartridge w/ variable density. The density increases closer to core.
- Available in three different lengths and micron ratings

PFP

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFP5-478	Polypropylene	Spun	5	5	Compact	4-7/8"	24	$ 8.70
PFP1	Polypropylene	Spun	1	10	Standard	9-7/8"	24	11.63
PFP5	Polypropylene	Spun	5	10	Standard	9-7/8"	24	10.16
PFP25	Polypropylene	Spun	25	10	Standard	9-7/8"	24	10.16
PFP1-20	Polypropylene	Spun	1	20	Standard	20"	20	24.26
PFP5-20	Polypropylene	Spun	5	20	Standard	20"	20	19.32
PFP25-20	Polypropylene	Spun	25	20	Standard	20"	20	19.80



PFDGD Spun Polypropylene Dual Gradient Cartridge

- Dual gradient filter included pre and post filtration reduce large and fine particles to enhance cartridge performance.
- Eliminates need for multiple housing step-down systems
- Three times the dirt holding capacity

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFDGD2501-10	Polypropylene	Spun	Pre 25/Post 1	10	Big Blue	10"	8	$ 33.97
PFDGD2501-20	Polypropylene	Spun	Pre 25/Post 1	20	Big Blue	20"	6	62.28
PFDGD5005-10	Polypropylene	Spun	Pre 50/Post 5	10	Big Blue	10"	8	32.63
PFDGD5005-20	Polypropylene	Spun	Pre 50/Post 5	20	Big Blue	20"	6	60.34
PFDGD7525-10	Polypropylene	Spun	Pre 75/Post 25	10	Big Blue	10"	8	32.40
PFDGD7525-20	Polypropylene	Spun	Pre 75/Post 25	20	Big Blue	20"	6	59.52



PFPD Series Thermally Bonded Polypropylene Cartridge

- Manufactured from pure 100% polypropylene.
- 98% efficient, more efficient than resin bonded cartridges.
- Thermal bonded micro-fiber construction.
- Withstands high temperature and pressure differentials.
- No fiber release, brittleness or growth/shrinkage due to climate conditions.
- Available in a wide range of micron ratings and lengths.

PFPD

Part No.	Medium	Type of Constructions	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFPD-10	Polypropylene	Therm Bonded	10	10	Standard	9-7/8"	24	$ 14.63
PFPD-5	Polypropylene	Therm Bonded	5	10	Standard	9-7/8"	24	15.37
PFPD-25	Polypropylene	Therm Bonded	25	10	Standard	9-7/8"	24	14.01

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Taste/Odor/Sediment Cartridges:
- Carbon Impregnated
- Granular Activated Carbon (GAC)
- Carbon Block

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NSF ISO 9001

NO LEAD LEAD-FREE



PFC1

PFC Series Carbon Impregnated Cellulose Cartridges

- Dual purpose cartridge provides taste/odor/chlorine reduction plus sediment filtration.
- A combination of carbon and cellulose creates a dual filter used for removing fine particles and reducing unwanted tastes and odors occasionally found in tap water.
- Excellent "polishing" filter when used in process or closed loop systems.
- Design maximuzed dirt holding capacity.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFC2	Carbon/Cellulose	Wrap	5	2500 @ 2 gpm	Compact	4 3/4"	24	$ 16.72
PFC1	Carbon/Cellulose	Wrap	5	5000 @1 gpm	Standard	9 7/8"	24	17.14
PFC1-20	Carbon/Cellulose	Wrap	5	10,000 @1 gpm	Standard	20"	24	42.84



PFGAC



PFCC

PFGAC Series Granular Activated Carbon (GAC) Cartridges

- Designed to reduce or eliminate unwanted tastes and odors such as chlorine.
- Water enters the filter from the bottom and travels through the entire charcoal bed before exiting at the top. This filtration technique maximizes contact time with carbon to insure maximum absorption.
- Internal expansion pad maintains a tight compact column to minimize channeling or by-pass.
- Nominal 20 micron post filter reduces the content of carbon fines & suspended particles

PFCC Series Granular Activated Coconut Carbon Cartridges

- Coconut Shell based activated carbon to reduce organic chemicals like EDB, TCE & THM plus chlorine.
- Nominal 20 micron post filter to reduce carbon fines and other particles.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFGAC5	Granular Carbon	Canister	N/A	750 @ .5gpm	Compact	4 7/8"	24	$ 26.84
PFGAC10	Granular Carbon	Canister	N/A	5000 @ 1gpm	Standard	9 7/8"	12	28.04
PFGAC20	Granular Carbon	Canister	N/A	10000 @ 2gpm	Standard	20"	6	61.94
PFGACBB	Granular Carbon	Canister	N/A	12500 @ 2gpm	Big Blue	9 3/4"	8	71.97
PFGAC20BB	Granular Carbon	Canister	N/A	30000@ 4gpm	Big Blue	20"	10	163.05
PFCC10	Granular Carbon	Canister	N/A	7500 @ 1gpm	Standard	9 3/4"	12	33.69

Filter Cartridges



PFCEP



PFCBC



PFCBR

PFCEP Series Carbon Block Cartridges

- Designed for post RO applications.
- Minimizes chlorine and pH rise and produces low extractables.
- Acid washed coconut formulation
- Light brown end cap

PFCBC Series Carbon Block Cartridges

- Designed to reduce VOC's, chlorine, color bodies, plus remove fine sediment from the residual, commercial & industrial liquids. Filters giardia & cryptosporidium cysts from potable water.
- High chemical adsorption provided by acid washed bituminous powdered, activated carbon block.
- Sediment filter eliminates unwanted particles down to 0.5 nominal micron.
- Excellent polishing filter or prefilter.

PFCBR Series Carbon Block Multimedia Cartridge

- Removes both metals and chemicals with one cartridge.
- All purpose carbon block cartridge removes unpleasant tastes and odors plus greatly reduces the amount of dissolved heavy metals and the taste of chlorine.
- Removes lead up to 96% and mercury up to 98%.
- Also removes up to 99% of giardia and cryptosporidium cysts and sediment particles down to .5 micron in size.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFCEPBB20	Acid washed	Carbon Block	5	32000 @ 4 gpm	Big Blue	20"	6	$ 163.90
PFCBC10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	53.71
PFCBC20	Acid washed	Carbon Block	0.5	45000 @ 1 gpm	Standard	20"	12	77.67
PFCBCBB	Acid washed	Carbon Block	0.5	50000 @ 2 gpm	Big Blue	9 3/4"	4	165.21
PFCBCBB20	Acid washed	Carbon Block	0.5	150000 @ 4 gpm	Big Blue	20"	6	286.64
PFCBR2-10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4	12	70.57

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Specialty Cartridges



PFRFC

PFRFC Series Radial Flow Carbon Cartridges

- Radial flow carbon cartridge designed for gas and liquid filtration.
- Activated carbon bed and inner layers of polypropylene remove particles over nominal 7 microns.
- Removes organic and particulate contaminates from plating, acid alkaline and hydrocarbon solutions when used for liquid filtration.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFRFC93	Carbon/Polypropylene	Canister	NR	1-3	Standard	9 3/4”	24	$ 63.90
PFRFCBB	Carbon/Polypropylene	Canister	25	3-10	Big Blue	9 3/4”	8	109.75
PFRFC20BB	Carbon/Polypropylene	Canister	25	5-15	Big Blue	20”	6	215.99



PFIC100

Sealed In-Line Cartridges

- Ideal for refrigerator icemakers and water dispensers, coffee makers and other 1/4” in-line applications.
- Granular activated carbon removes chlorine, bad taste and odor from water.
- Connects easily to 1/4” copper or plastic cold water lines.
- Capacity of 2000 gallons, estimated life of 12 months.

Part Number	Description	Casing	Length	Ctn Qty	List Price
Ice Maker Carbon Filter					
PFIC100	Granular Activated Carbon	plastic	10 5/8”	6	$ 44.25

Filter Kits & Accessories



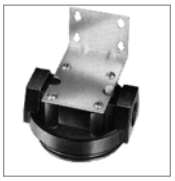
Housing & Cartridge Combination Kit Features:

- Each kit contains one complete housing, one cartridge and installation sheet.

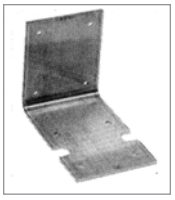
Part Number	Size	Sump	Cartridge	List Price
Housing & Cartridge Combination Kits				
PFH75C-S1	3/4" standard	transparent	general purpose/sediment	$ 108.71
PFH75C-C1	3/4" standard	transparent	taste/odor/sediment	115.96



PFMB75



PFMC1



PFWBBS



PFSW

"PF" Series Housing Replacement Parts:

Including replacement heads, sumps, o-rings, mounting brackets and wrenches.

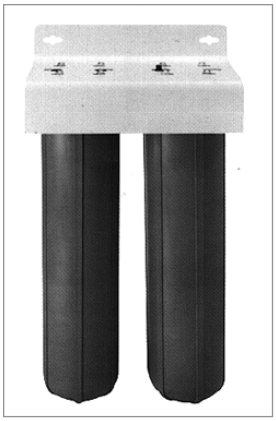
Part Number	Description	Ctn Qty	List Price
PFC38BL	Blue Head for 3/8" Housing	1	$ 28.18
PFC75BL	Blue Head for 3/4" Housing	1	33.31
PF75CS	Clear Sump for 3/4" Housing	1	82.78
PFBBS	Big Blue Sump only	1	86.52
PFOR38	O-Ring for 3/8" Series	1	5.36
PFOR75	O-Ring for 3/4" Series	1	5.36
PFBBOR	O-Ring for Big Blue	1	16.03
PFMB3814	Mounting Bracket for 3/8"	1	11.34
PFMB75	Mounting Bracket for 3/4" - U Shaped	1	17.39
PFMC1	Mounting Bracket for 3/4" caps w/ Bosses	1	17.74
PFWBBS	Mount Bracket for 1-1 1/2"Big Blue, Zinc plated	1	105.84
PFCC	Standard Cartridge Coupler	1	4.56
PFCCBB	Large Diameter Cartridge Coupler	1	6.65
Housing Wrenches			
PFSW1	3/8" Black Wrench for Slimline Housing	1	12.10
PFSW2	3/4" Black Wrench for Standard Housing	1	12.10
PFSW3	Black Wrench for Large Diameter Housing	1	18.23

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BBFS22

BBFS Filtration System Features:

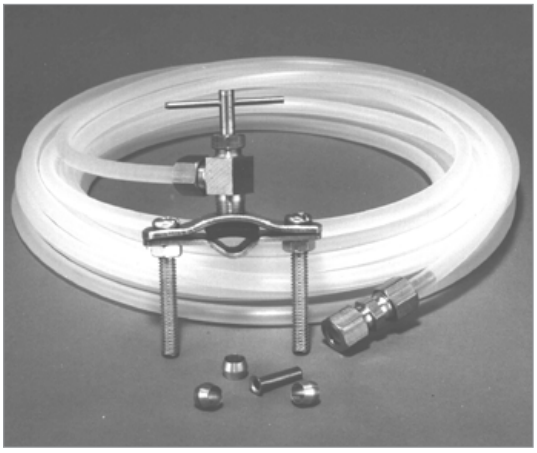
- Large capacity, multi-housing system.
- Allows for greater cartridge capacity and high flow rates.
- Consists of (2) or (3) 20” big Blue Filter housings with 1” NPT I/O mounting bracket.
- Designed for residential, commercial and industrial applications.
- System does NOT include filter cartridges.

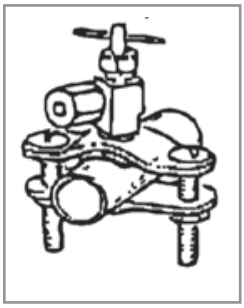
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NO LEAD ✓ LEAD-FREE

Part No.	Description	List Price
BBFS22	2 housing Big Blue System (15 1/4” x 8 1/2” x 26 1/2”)	$ 561.35
BBFS222	3 housing Big Blue System (23 1/4” x 8 1/2” x 26 1/2”)	827.91

Saddle Tap Valve/Kit and Iron Out®





NO LEAD
< 0.25% Pb
by weighted
average

NO LEAD Brass Saddle Tap Valve & Kit Features:

- Self piercing tap valve and clamp for 3/8" to 1" OD copper tube or 3/8" to 3/4" iron pipe.
- Plastic sleeve, brass compression nut and brass or no lead brass insert (for reinforcing polyethylene tubing).
- Brass compression union for connecting polyethylene tubing to 1/4" water inlet at refrigerator, humidifier or cooler.
- 25 feet of 1/4" OD polyethylene tubing.
- The saddle tap valve eliminates plumbing connections and fittings.
- Supplies water to most humidifiers, evaporative coolers and refrigerators with automatic ice maker or water dispenser in door.
- Use for installation of Reverse Osmosis and Chemical Contaminant Filter Systems.
- For use on copper tube or iron pipe.

Part Number	Description	Ctn Qty	List Price
HTVK381NL	NO LEAD Brass Tapping Valve Kit fits 3/8" -1" OD copper tube or 3/8"-3/4" iron pipe	6	$ 27.82
PFSTVNL	No Lead Brass Saddle Tapping Valve Only	10	8.78





Super Iron Out

Removes the toughest rust and iron stains quickly and easily from white clothes, laundry, toilets, sinks, tubs, dishwashers, exterior surfaces and much more. Also keeps water softeners clean and operating at peak efficiency.

Part Number	Description	Ctn Qty	List Price
IOUT30	Iron Out, 28 oz.	6	$ 15.55
IOUT5	Iron Out, 76 oz.	6	39.77

American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Harmsco™ Up Flow Cartridge Filtration . .

A design so superior it's patented!

Harmsco® Up-Flow Cartridge filters outperform conventional filter designs because the outlet is located above the inlet to eliminate air entrapment during operation. With Up-Flow Filters, liquid enters the vessel through the inlet, located at the bottom of the filter. As the liquid travels upward, it flows through the media, past the top seal, separating the dirty and clean water chambers, and down the standpipe as it exits the filter. Because the top of the standpipe is located above the top seal, air is self-purged from the filter to eliminate vents and improve filtration efficiency.

Features:

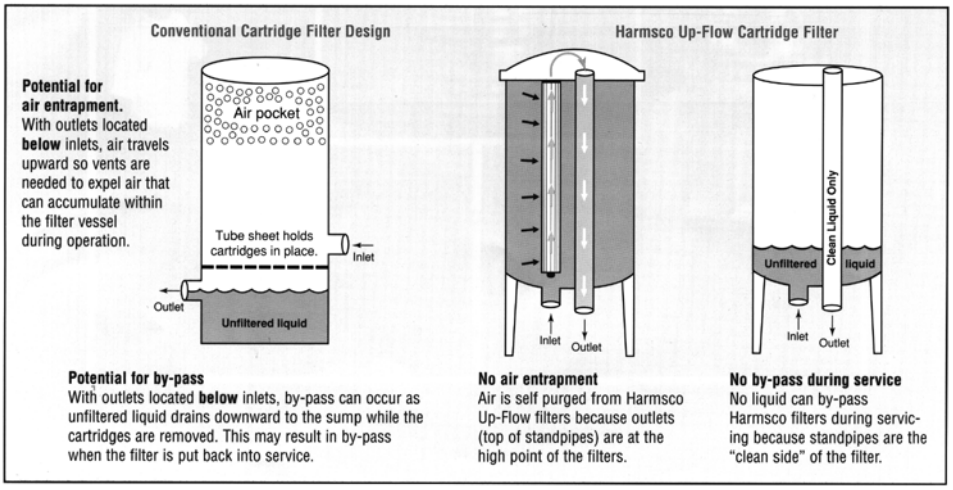
- Constructed of low carbon 304 stainless steel for durability and long life.
- All stainless steel components are electro-polished for superior finish, resistance to corrosion an dincreased durability.
- Individual studs for optium security. No v-clamps with only one bolt to secure lids.
- Wing nuts are used so no tools are required. Finger tight is generally sufficient. Hex nuts are recommended with 75 ft-lbs. or torque above 100 psi.
- All filters are pressure rated to 150 PSI (10bar) and hydrostatically tested.
- Cartridges in some models are arranged in a single "cluster" for easy cartridge installation, removal and service.

Typical Applications:

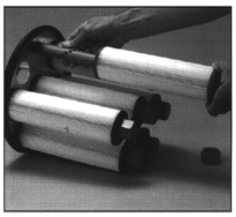
- Drinking water
- Bottled water
- Ground Water
- Asbestos abatement
- Chill water
- Industrial
- Process water
- Beverages
- Surface water
- Plating baths
- Desalination prefilters
- Commercial
- R/O pre-filtration
- Drinking fountains
- Rinse water
- Cooling water
- Ultrafiltration
- Municipal
- Industrial waste water
- Whole house filtration
- Environmental
- Heating loops
- Spray nozzles

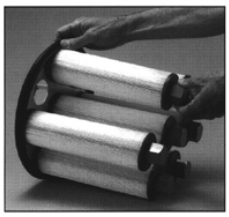
Harmsco Up-Flow Filters Outperform the Competition!

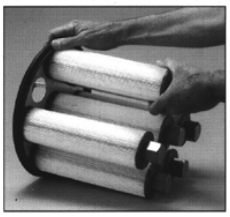
With conventional cartridge filter designs, inlets are located **above** outlets. Therefore, vents are required to relieve air that can accumulate within the filter vessel during operation. By-pass can also occur when unfiltered liquid drains to the sump while the cartridges are removed, when the filter is put back in service. Please see diagrams, below:

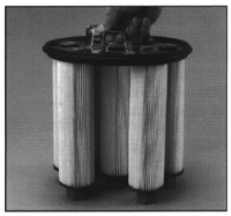


Easy Cartridge Installation and Replacement:


Install cartridge on holding rod.

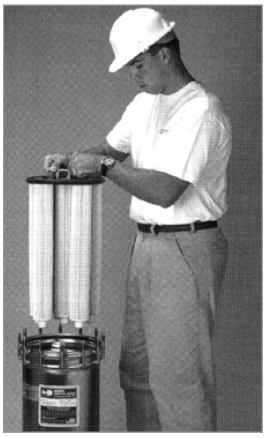

Tighten threaded pipe cap securely.

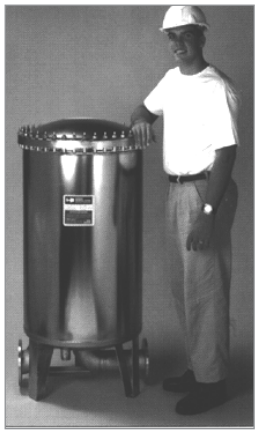

Hold cartridge by end cap and rotate until secure.

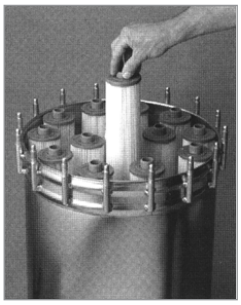

Cartridge cluster is ready for installation.

Harmsco® Filter Systems

Two Filter Styles
Cartridge Cluster Filters and High Capacity Models







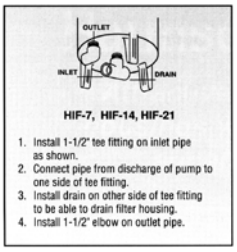
Cartridge Cluster Filters

Cartridges in the HIF7, HIF14, HIF16, HIF21 and HIF24 models are arranged in a single "cartridge cluster", ao all cartridges are removed at one time.

Hi Capacity Filters

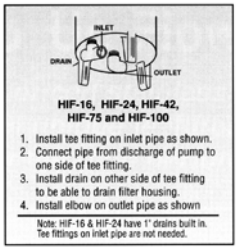
Cartridges in the HIF42, HIF75, HIF100, HIF150-FL, HIF200FL models are installed on lifting rods so a single stack of cartridges are removed at one time for convenience.

Typical Installations:



HIF-7, HIF-14, HIF-21

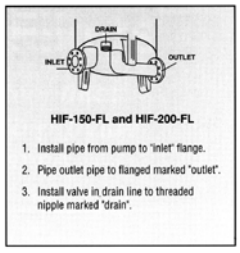
1. Install 1-1/2" tee fitting on inlet pipe as shown.
2. Connect pipe from discharge of pump to one side of tee fitting.
3. Install drain on other side of tee fitting to be able to drain filter housing.
4. Install 1-1/2" elbow on outlet pipe.



HIF-16, HIF-24, HIF-42, HIF-75 and HIF-100

1. Install tee fitting on inlet pipe as shown.
2. Connect pipe from discharge of pump to one side of tee fitting.
3. Install drain on other side of tee fitting to be able to drain filter housing.
4. Install elbow on outlet pipe as shown

Note: HIF-16 & HIF-24 have 1" drains built in. Tee fittings on inlet pipe are not needed.



HIF-150-FL and HIF-200-FL

1. Install pipe from pump to "inlet" flange.
2. Pipe outlet pipe to flanged marked "outlet".
3. Install valve in drain line to threaded nipple marked "drain".

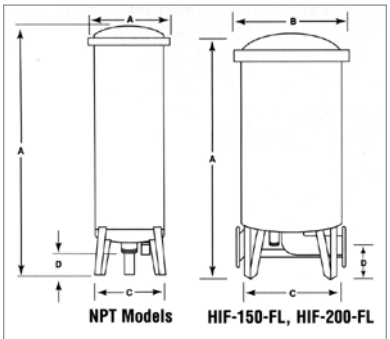
Specifications:

Filter Vessel & Metal components	Low carbon 304 stainless steel, electro polished
Rods & standpipes	CPVC, standard models; 304 stainless steel, all stainless models
Pipe caps	CPVC, standard models; 304 stainless steel, all stainless models
Rim gaskets	EPDM, standard. Buna-N and Viton available
O-Rings	Buna-N, standard. EPDM and Viton available
Bottom seals	Natural gum rubber, standard; EPDM and Buna-N available
Wing Nuts	Brass, Brass nuts and stainless steel flat washers available
Temperature	Rated to 140°F (60°C) with CPVC rods, pipe caps, stanf pipes & standard Harmsco cartridges. To 200°F (93°C) for all stainless models with stainless steel rods, pipe caps, standpipes and Harmsco High-temp cartridges . Temperature limits vary and depend on pressure & time under load.
Pressure	Rated for pressure to 150 psid(10 bar) maximum.
Flow	Typical flow rates are 3-6 GPM per single length 9 3/4" Harmsco cartridges.

Chemical Resistant Coatings:



Harmsco™ filters are available with a DYKOR coating, a high performance material like PTFE used to provide increaded resistance to chemicals, abrasion & the environment. The coating is applied to all stainless steel surfaces (inside & out).



Dimensions:

Model	A	B	C	D	Service Height	Inlet/ Outlet	Drain
HIF7	19 1/2"	13"	13"	3 1/2"	35"	1 1/2" NPT	None*
HIF14	28"	13"	13"	3 1/2"	48"	1 1/2" NPT	None*
HIF16	28"	13"	13"	4"	48"	2" NPT	1" NPT
HIF21	37"	13"	13"	3 1/2"	68"	1 1/2" NPT	None*
HIF24	37"	13"	13"	4"	68"	2" NPT	1" NPT
HIF42	40"	18"	18"	5 3/8"	68"	2" NPT	None*
HIF75	42"	20"	20"	5 7/8"	70"	3" NPT	None*
HIF100	52"	20"	20"	5 7/8"	87"	3" NPT	None*
HIF150FL	48"	28"	28"	5 3/16"**	76"	4" Flange	1 1/2" NPT
HIF200FL	58"	28"	28"	5 3/16"**	93"	4" Flange	1 1/2" NPT

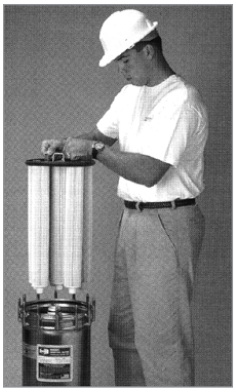
* Install tee fittings and valve on inlet for drain. ** To center of flange fittings.

American Granby™

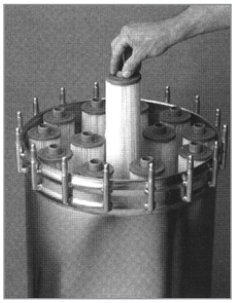
www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Cluster Models



High Capacity Models

Harmsco™ Filters Features:

Cartridge Cluster Models:

- Entire set of filter cartridges is removed at one time for cleaning or replacement.
- Filter rack assembly is made of CPVC (stainless steel available)
- Rugged 304 electro-polished stainless steel housing.
- Individual studs for safe, secure lid closure.
- Brass wing nuts for hand tightening.
- Pressure rated to 150 PSI.
- For whole house, commercial, industrial and municipal applications.

High Capacity Models:

- Same features as above with:
- CPVC lifing rods to remove a single stack of cartridges at one time.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



HIF 7-100

Part Number	HIF7	HIF14	HIF16	HIF21	HIF24
Flow Rate (USGPM)	Up to 30	Up to 60	Up to 75	Up to 90	Up to 100
Flow Rate (LPM)	Up to 113	Up to 226	Up to 284	Up to 340	Up to 397
Flow Rate (M3HR)	Up to 7	Up to 14	Up to 16	Up to 21	Up to 24
# of Std Cartridges	7	14	16	21	24
Alternative cartridge	Single only	Doubles	Doubles	Triples	Triples
Pipe size	1 1/2” NPT	1 1/2” NPT	2” NPT	1 1/2” NPT	2” NPT
Filter Height	19.5”	28”	28”	37”	37”
Floor space required	13” x 13”	13” x 13”	13” x 13”	13” x 13”	13” x 13”
Service Height clearance	35”	48”	48”	68”	68”
Shipping weight	29 lbs.	39 lbs.	39 lbs.	50 lbs.	50 lbs.
Carton dimensions	14” x 14”x 21”	14”x14”x38”	14”x14”x38”	14”x14”x41”	14”x14”x41”
LIST PRICE cartridges not included	$ 2690.08	3821.20	4171.50	4861.39	5206.35



HIF - FL Series

Part Number	HIF42	HIF75
Flow Rate (USGPM)	Up to 175	Up to 300
Flow Rate (LPM)	Up to 662	Up to 1135
Flow Rate (M3HR)	Up to 42	Up to 75
# of Std Cartridges	42	75
Alternative cartridge	Triples	Triples
Pipe size	2” NPT	3” NPT
Filter Height	40”	42”
Floor space required	18”x18”	20”x20”
Service Height clearance	68”	70”
Shipping weight	100 lbs.	129 lbs.
Carton dimensions	19”x19”x43”	23”x23”x53’
LIST PRICE cartridges not included	$11460.92	16322.34

Recommended flow rates for guidelines only. Typical flow rates are 3 to 6 GPM per 9 3/4” cartridge. Standard Harmsco Up-Flow filter housings and filter cartridges rated for temperatures to 140°F (60°C) ratings based on pressure and time under load. All stainless filter housings and high temperature cartridges recommended for temperature over 140°F (60°C) to 200°F (93°C).



HUR-AP Series

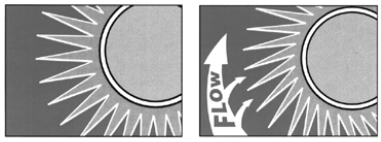
Harmsco™ Hurricane Filters

It's a Separator & Cartridge Filter in One

Hurricane filters provide unsurpassed performance becuase they separate dense solids prior to cartridge filtration for extended filter life, increased dirt holding capacity and reduced maintenance costs. In many respects Hurricane filters are two filters in one. Components include outer chamber for particle separation, inner chamber for cartridge filtration and built-in drain for purge, if required.

Features:

- Outer chamber collects heavy solids at the bottom due to centrifugal force & rotational flow.
- Inner chamber filters liquid through a single cartridge. Liquid enters the filter tangentially to provide rotational flow and centrifugal force for partical separation. Liquid flows out of the filter through the standpipe and outlet fitting.
- Rotational flow pattern continuously "fluffs" filter cake to increase dirt and debris holding capacity to extend filter life and time between cleaning.
- In heavy solid applications, manual or automatic valves may be used to purge solids from the outer chamber. Tests demonstrate approximately half of the heavy solids, like sand, separate prior to the filtration chamber at 50 GPM.
- Constructed of low carbon 3/4 stainless steel for durability and long life.
- All stainless steel components are electro-polished for superior finish, resistance to corrosion & increased durability. (Special chemical resistant coatings available.)
- Fail safe lids with individual studs for optium security. No v-clamps with only one bolt to secure lids.
- Bronze wing nuts are used so no tools are required. Finger tight is generally sufficient. Hex nuts are recommended with 75 ft-lbs. of torque above 100 psi.
- 90° elbow and 45° sweep on outlet for staggered in-line installation.
- CPVC standpipe for up-flow design.
- 1/4" couplers are installed in inlet and outlet fittings for pressure gauges.

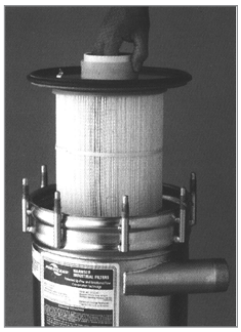


Conventional straight pleat Angled Hurricane pleat

Unlike convential designs, Hurricane's patented cartridges are made with deep, angles pleats to direct the flow into the pleated area for increased solids removal.

Single "Jumbo" Cartridge Filter

Design of a single, jumbo cartridge is easy to install, remove, clean and replace. Hurricane Cartridges are cleanable and re-usable in most applications.





Part Number	HUR40HP	HUR90HP	HUR170HP
Flow Rate (USGPM)	Up to 50	Up to 100	Up to 150
Flow Rate (LPM)	Up to 189	Up to 378	Up to 568
Flow Rate (M3HR)	Up to 12	Up to 24	Up to 36
Pipe size (NPT)	2"	2"	2"
Drain (NPT)	1"	1"	1"
Filter Height	21"	31"	41"
Floor space required	15" x 15"	15" x 15"	15" x 15"
Service Height clearance	31"	51"	72"
Shipping weight	40 lbs.	51 lbs.	64 lbs.
LIST PRICE cartridges not included	$ 5037.88	5992.52	9027.55

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

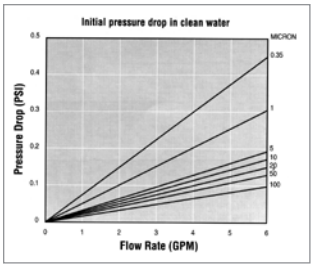
Harmsco® Filter Cartridges



801 Series

Certified to ANSI-NSF 61

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372



Genuine Harmsco® Filter Cartridge Features:

- Heavy duty filter applications.
- Pleated polyester design for more surface area, longer life.
- **Six Sq Ft.** of filtration, 50% more than the competition per 9 3/4". (12 sq ft for 19 1/2")
- Thermally bonded construction with FDA listed materials.
- Color coded & branded end caps for easy micron identification.
- Cleanable, reusable in most applications.
- Low pressure drop.
- Individually wrapped.

Specifications:

Media:	Polyester-Plus™
End Caps:	Plastisol (pliable PVC)
Center tubes:	Rigid PVC perforated
Surface Area:	Approx 6 sq.ft. (9 3/4")
Temp limit:	Up to 140°F depending on time & load
pH:	3-11
Flow rate:	3-6 GPM per 9 3/4"
Dimensions:	2 3/4" OD, 1 1/16" ID

Part Number	Micron Size	Cap Color	OD	Length	Ctn Qty	List Price
801-0.35-W	0.35	Brown	2 3/4"	9 3/4"	24	$ 39.82
801-1-W	1	Tan	2 3/4"	9 3/4"	24	29.88
801-5-W	5	White	2 3/4"	9 3/4"	24	25.08
801-10-W	10	Red	2 3/4"	9 3/4"	24	25.08
801-20-W	20	Blue	2 3/4"	9 3/4"	24	25.08
801-50-W	50	Yellow	2 3/4"	9 3/4"	24	25.08
801-100-W	100	Green	2 3/4"	9 3/4"	24	25.08
921-0.35-W	0.35	Brown	2 3/4"	19 1/2"	24	$ 75.15
921-1-W	1	Tan	2 3/4"	19 1/2"	24	60.37
921-20-W	20	Blue	2 3/4"	19 1/2"	24	50.45
921-50-W	50	Yellow	2 3/4"	19 1/2"	24	50.45



HB Series

Certified to ANSI-NSF 61

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

Harmsco® Calypso Blue™ Filter Cartridge Features:

- Premium quality made of pleated polyester filter media for long life and high dirt holding.
- Cartridges can be cleaned and reused in most applications.
- Individually shrink wrapped.

Part Number	Micron Size	OD	Length	Ctn Qty	List Price
HB-10-0.35-W	0.35	4 1/2"	9 3/4"	8	$ 92.92
HB-10-1-W	1	4 1/2"	9 3/4"	8	68.82
HB-10-5-W	5	4 1/2"	9 3/4"	8	60.57
HB-10-20-W	20	4 1/2"	9 3/4"	8	60.57
HB-10-50-W	50	4 1/2"	9 3/4"	8	60.57
HB-20-0.35-W	0.35	4 1/2"	20"	4	$ 151.03
HB-20-1-W	1	4 1/2"	20"	4	122.03
HB-20-5-W	5	4 1/2"	20"	4	104.48
HB-20-20-W	20	4 1/2"	20"	4	104.48
HB-20-50-W	50	4 1/2"	20"	4	104.48



Certified to ANSI-NSF 61

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

HAC10W

Genuine Harmsco® Activated Carbon Filter Cartridge Features:

- Composite of pulverized activated carbon & polyolefin fibers bonded together.
- 5 micron rating.
- Max temp 160°F.
- Substantially removes chlorine, organic chemicals, tastes and odors.
- Max capacity; 3000 gal.chlorine, 500 gal. organic chemicals.

Part Number	Micron Size	OD	Length	Ctn Qty	List Price
HAC10W	5	2 3/4"	9 3/4"	24	$ 45.85

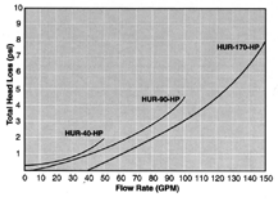
Harmsco® Filter Cartridges



HC Series

Certified to ANSI-NSF 61

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372



Pressure drop shown above is for filter housing and 20 micron filter cartridge in clean water. Data developed by NSF International.

Genuine Hurricane Replacement Cartridge Features:

- Standard pleated polyester filter elements.
- Polyester-Plus™ filter media is cleanable and reusable in most applications.
- Rated to 140°F and to 50 psi.
- Separates solids in liquids with pH of 3 to 11.
- Cartridge OD 7 3/4”, ID 3” FPT
- Packaged one per carton.

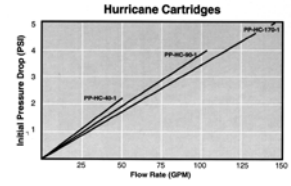
Part Number	Micron Size	Length	Ctn Qty	List Price
HUR40HP Replacement Cartridges				
HC40-1	1	9 5/8”	1	$ 308.78
HC40-5	5	9 5/8”	1	283.55
HC40-20	20	9 5/8”	1	283.55
HUR90HP Replacement Cartridges				
HC90-0.35	0.35	19 1/2”	1	488.30
HC90-5	5	19 1/2”	1	396.98
HC90-20	20	19 1/2”	1	396.98
HC90-50	50	19 1/2”	1	396.98
HC90-100	100	19 1/2”	1	396.98
HUR170HP Replacement Cartridges				
HC170-1	1	30 3/4”	1	677.38
HC170-5	5	30 3/4”	1	614.36
HC170-20	20	30 3/4”	1	614.36



PP Series

Certified to ANSI-NSF 61

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372



Data include cartridge and Hurricane filter housing.

Genuine Hurricane Poly-Pleat™ Replacement Cartridge Features:

- Designed for drinking water applications to remove **cryptosporidium** and **Giardia Cysts**.
- Rated to 140°F
- Polypropylene filter media offers compatability with many aggressive chemicals.
- PP-S Series Cartridges OD 2 3/4”
- PP-BB Series Cartridges OD 4 1/4”
- PPHC Series Cartridge OD 7 3/4”, ID 3” FPT.
- Individually wrapped.

Part Number	Micron Size	Length	Ctn Qty	List Price
PP-S-1	1 absolute	9 3/4”	24	$ 61.83
PP-BB-10-1	1 absolute	9 3/4”	8	142.79
PP-BB-20-1	1 absolute	19 1/2”	1	239.84
PPHC40-1	1 absolute	9 5/8”	1	540.08
PPHC90-1	1 absolute	19 1/2”	1	855.14

American Granby

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VU-FLOW



NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

EQUIVALENCY CHART

MESH	MICRONS	INCHES
24	711	0.028
* 30	533	0.021
40	381	0.015
* 60	254	0.010
* 100	152	0.006
* 140	104	0.004
250	61	0.0024
500	30	0.0012
1000	15	0.0006

* Also available with stainless steel by special order

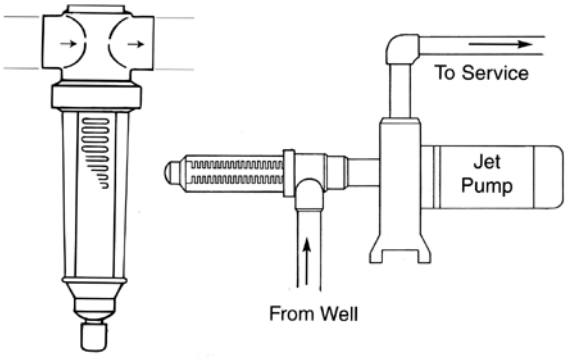
Vu-Flow Filter Features:

- Easy installation on suction or discharge side of pump.
- Filtered material collects on the outside of the screen, making it easy to clean.
- Clear polycarbonate housing permits instant visual inspection.
- Molded PVC filter body allows glue together installation similar to standard PVC pipe fittings.
- Molded from UV stabilized weather resistant materials for long service life.
- Most models have 1/2" MNPT cover drain outlet for quick one step purge cleaning.
- Inlet and outlet slip can be bushed to fit required pipe size.
- Polyester screens are easily cleaned and re-used eliminating expensive replacement.
- Stainless steel screens are available special order..
- Maximum operating pressure: 150 psi @ 73°F.
- Flow rates from 1-100 gallons per minute.
- Screen mesh sizes smaller than 250 (61 microns) are supported with No. 30 mesh to assure durability.

- **WATER USE ONLY**

INSTALLATION

- Install on suction or discharge side of system.
- Install on discharge to allow use of purge valve for easy one step purge cleaning. * Do not install filters with purge valves on suction side of pump.
- Manifold two or more filters for applications with flow rates higher than 100 GPM.
- Hand tighten only - Use of tools voids warranty



Vu-Flow Screen Filters



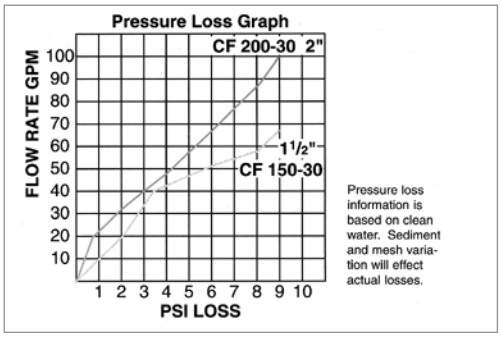
CF Series

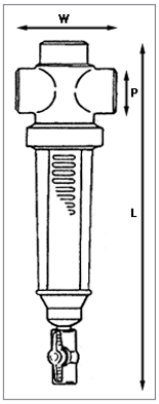
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Combination Style Screen Filter Features:

- Installs as a 90° "L" or 180° in-line "T" installation.
- 10-100 GPM models.
- 1-1/4" plug (supplied) adds versatility to unused outlet.
- Maximum pressure: 150 PSI @ 73°F.
- 1/2" MPT drain cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

- **WATER USE ONLY**





Part Number	Inlet/Outlet "P" Slip x Slip x Slip	Mesh # and Size	Mesh # Opening	Min*/Max Flow GPM	"L"	"W"	List Price w/ Purge Valve
CF150-24P	1 1/2"	24 (711 mic)	0.028	10-50	16 5/8"	5 1/4"	$ 147.09
CF150-40P	1 1/2"	40 (381 mic)	0.015	10-50	16 5/8"	5 1/4"	147.09
CF150-60P	1 1/2"	60 (254 mic)	0.0100	10-50	16 5/8"	5 1/4"	154.63
CF150-100P	1 1/2"	100 (152 mic)	0.006	10-50	16 5/8"	5 1/4"	154.63
CF150-140P	1 1/2"	140 (104 mic)	0.004	10-50	16 5/8"	5 1/4"	154.63
CF150-250P	1 1/2"	250 (61 mic)	0.0024	10-50	16 5/8"	5 1/4"	159.04
CF150-500P	1 1/2"	500 (30 mic)	0.0012	10-50	16 5/8"	5 1/4"	159.04
CF150-1000P	1 1/2"	1000 (15 mic)	0.0006	10-50	16 5/8"	5 1/4"	159.04
CF200-24P	2"	24 (711 mic)	0.028	18-100	18 7/8"	5 1/2"	239.39
CF200-40P	2"	40 (381 mic)	0.015	18-100	18 7/8"	5 1/2"	239.39
CF200-60P	2"	60 (254 mic)	0.0100	18-100	18 7/8"	5 1/2"	245.62
CF200-100P	2"	100 (152 mic)	0.006	18-100	18 7/8"	5 1/2"	245.62
CF200-140P	2"	140 (104 mic)	0.004	18-100	18 7/8"	5 1/2"	245.62
CF200-250P	2"	250 (61 mic)	0.0024	18-100	18 7/8"	5 1/2"	254.35
CF200-500P	2"	500 (30 mic)	0.0012	18-100	18 7/8"	5 1/2"	254.35

- Do not use metal valve or fitting on 1/2" drain connection.
- Do not install filters with purge valve on suction side of pump.

* Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products

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Vu-Flow Screen Filters



NT Series

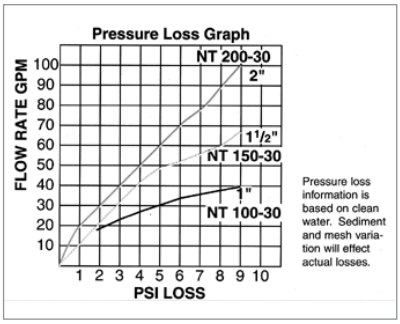
T Style Screen Filter Features:

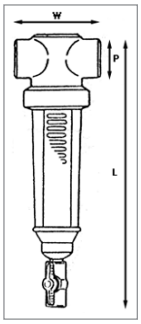
- 180° in-line "T" style installation.
- 1-100 GPM models.
- 1/2" MPT cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

- **WATER USE ONLY**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

VU-FLOW





Part Number	Inlet/Outlet "P"	Mesh # & Size	Mesh Opening	Min*/Max Flow GPM	"L"	"W"	List Price
IPS x IPS							
NT75-24P	3/4" x 3/4"	24 (711 mic)	0.028	1-25	11 3/8"	5"	$ 101.95
NT75-60P	3/4" x 3/4"	60 (254 mic)	0.010	1-25	11 3/8"	5"	102.31
NT75-100P	3/4" x 3/4"	100 (152 mic)	0.006	1-25	11 3/8"	5"	102.31
NT75-140P	3/4" x 3/4"	140 (104 mic)	0.004	1-25	11 3/8"	5"	102.31
NT75-250P	3/4" x 3/4"	250 (61 mic)	0.0024	1-25	11 3/8"	5"	106.07
NT75-500P	3/4" x 3/4"	500 (30 mic)	0.0012	1-25	11 3/8"	5"	106.07
NT75-1000P	3/4" x 3/4"	1000 (15 mic)	0.0006	1-25	11 3/8"	5"	106.07
Slip x Slip							
NT100-24P	1" x 1"	24 (711 mic)	0.028	1-25	11 3/8"	5"	**99.82**
NT100-30P	1" x 1"	30 (533 mic)	0.021	1-25	11 3/8"	5"	**99.82**
NT100-40P	1" x 1"	40 (381 mic)	0.015	1-25	11 3/8"	5"	**99.82**
NT100-60P	1" x 1"	60 (254 mic)	0.01	1-25	11 3/8"	5"	101.06
NT100-100P	1" x 1"	100 (152 mic)	0.006	1-25	11 3/8"	5"	101.06
NT100-140P	1" x 1"	140 (104 mic)	0.004	1-25	11 3/8"	5"	101.06
NT100-250P	1".x 1"	250 (61 mic)	0.0024	1-25	11 3/8"	5"	**101.79**
NT100-500P	1" x 1"	500 (30 mic)	0.0012	1-25	11 3/8"	5"	**101.79**
NT100-1000P	1" x 1"	1000 (15 mic)	0.0006	1-25	11 3/8"	5"	**101.79**
Slip x Slip							
NT150-24P	1-1/2" x 1-1/2"	24 (711 mic)	0.028	10-50	15 3/8"	5 1/4"	**131.79**
NT150-30P	1-1/2" x 1-1/2"	30 (533 mic)	0.021	10-50	15 3/8"	5 1/4"	**131.79**
NT150-40P	1-1/2" x 1-1/2"	40 (384 mic)	0.015	10-50	15 3/8"	5 1/4"	**131.79**
NT150-60P	1-1/2" x 1-1/2"	60 (254 mic)	0.010	10-50	15 3/8"	5 1/4"	**135.18**
NT150-100P	1-1/2" x 1-1/2"	100 (152 mic)	0.006	10-50	15 3/8"	5 1/4"	**135.18**
NT150-140P	1-1/2" x 1-1/2"	140 (104 mic)	0.004	10-50	15 3/8"	5 1/4"	**135.18**
NT150-250P	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	10-50	15 3/8"	5 1/4"	**140.89**
NT150-500P	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	10-50	15 3/8"	5 1/4"	**143.63**
NT150-1000P	**1-1/2" x 1-1/2"**	**1000 (15 mic)**	**0.0006**	**10-50**	**15 3/8"**	**5 1/4"**	**143.63**
Slip x Slip							
NT200-24P	2" x 2"	24 (711 mic)	0.028	18-100	17 7/8"	5 1/2"	207.50
NT200-30P	2" x 2"	30 (533 mic)	0.021	18-100	17 7/8"	5 1/2"	208.32
NT200-40P	2" x 2"	40 (384 mic)	0.015	18-100	17 7/8"	5 1/2"	208.32
NT200-60P	2" x 2"	60 (254 mic)	0.010	18-100	17 7/8"	5 1/2"	215.21
NT200-100P	2" x 2"	100 (152 mic)	0.006	18-100	17 7/8"	5 1/2"	215.21
NT200-140P	2" x 2"	140 (104 mic)	0.004	18-100	17 7/8"	5 1/2"	215.21
NT200-250P	2" x 2"	250 (61 mic)	0.0024	18-100	17 7/8"	5 1/2"	223.00
NT200-500P	2" x 2"	500 (30 mic)	0.0012	18-100	17 7/8"	5 1/2"	223.00
NT200-1000P	2" x 2"	1000 (15 mic)	0.0006	18-100	17 7/8"	5 1/2"	223.00

* Minimum flow needed for "spin-out" action.

• Do not install filters with purge valve on suction side of pump.

Carton Quantity of 10 for all products

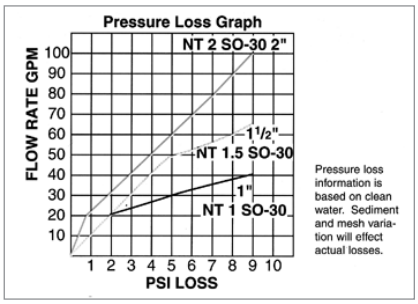
Vu-Flow Screen Filters

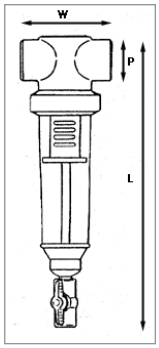


NT SO Series

T Style Sand Separator Filter Features:

- 180° in-line "T" style.
- 1-100 GPM models
- "Spin-out" action separates heavier than water particles away from screen into the collection chamber.
- Screen portion of element removes lighter than water particles.
- Extended sump provides greater collection area for sediment.
- Supplied with a 1/2" cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.
- WATER USE ONLY





NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Part Number	Inlet/Outlet "P"	Mesh # & Size	Mesh Opening	Min*/Max Flow GPM	"L"	"W"	List Price w/ Purge Valve
IPS x IPS (Female Thread 3/4" only)							
NT75SO-60P	3/4" x 3/4"	60 (254 mic)	0.01	1-25	14 3/8"	5	$ 133.42
NT75SO-100P	3/4" x 3/4"	100 (152 mic)	0.006	1-25	14 3/8"	5	133.42
NT75SO-140P	3/4" x 3/4"	140 (104 mic)	0.004	1-25	14 3/8"	5	133.42
NT75SO-250P	3/4" x 3/4"	250 (61 mic)	0.0024	1-25	14 3/8"	5	138.38
Slip x Slip							
NT1SO-60P	1" x 1"	60 (254 mic)	0.01	1-25	14 3/8"	5	133.42
NT1SO-100P	1" x 1"	100 (254 mic)	0.006	1-25	14 3/8"	5	133.42
NT1SO-140P	1" x 1"	140 (104 mic)	0.004	1-25	14 3/8"	5	133.42
NT1SO-250P	1" x 1"	250 (61 mic)	0.0024	1-25	14 3/8"	5	138.38
Slip x Slip							
NT1.5SO-24P	1-1/2" x 1-1/2"	24 (711 mic)	0.028	10-50	15 3/8"	5 1/4"	162.08
NT1.5SO-30P	1-1/2" x 1-1/2"	30 (533 mic)	0.021	10-50	15 3/8"	5 1/4"	162.08
NT1.5SO-40P	1-1/2" x 1-1/2"	40 (384 mic)	0.015	10-50	15 3/8"	5 1/4"	162.08
NT1.5SO-60P	1-1/2" x 1-1/2"	60 (254 mic)	0.010	10-50	15 3/8"	5 1/4"	167.00
NT1.5SO-100P	1-1/2" x 1-1/2"	100 (152 mic)	0.006	10-50	15 3/8"	5 1/4"	167.00
NT1.5SO-140P	1-1/2" x 1-1/2"	140 (104 mic)	0.004	10-50	15 3/8"	5 1/4"	167.00
NT1.5SO-250P	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	10-50	15 3/8"	5 1/4"	173.38
NT1.5SO-500P	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	10-50	15 3/8"	5 1/4"	173.38
Slip x Slip							
NT2SO-24P	2" x 2"	24 (711 mic)	0.028	18-100	17 7/8"	5 1/2"	250.69
NT2SO-30P	2" x 2"	30 (533 mic)	0.021	18-100	17 7/8"	5 1/2"	250.69
NT2SO-40P	2" x 2"	40 (384 mic)	0.015	18-100	17 7/8"	5 1/2"	250.69
NT2SO-60P	2" x 2"	60 (254 mic)	0.010	18-100	17 7/8"	5 1/2"	254.99
NT2SO-100P	2" x 2"	100 (152 mic)	0.006	18-100	17 7/8"	5 1/2"	254.99
NT2SO-140P	2" x 2"	140 (104 mic)	0.004	18-100	17 7/8"	5 1/2"	254.99
NT2SO-250P	2" x 2"	250 (61 mic)	0.0024	18-100	17 7/8"	5 1/2"	261.26
NT2SO-500P	2" x 2"	500 (30 mic)	0.0012	18-100	17 7/8"	5 1/2"	261.26

- Do not use metal valve or fitting on 1/2" drain connections
- Do not install filters with purge valves on the suction side of pump

Carton Quantity of 10 for all products

* Minimum flow needed for "spin-out" action.

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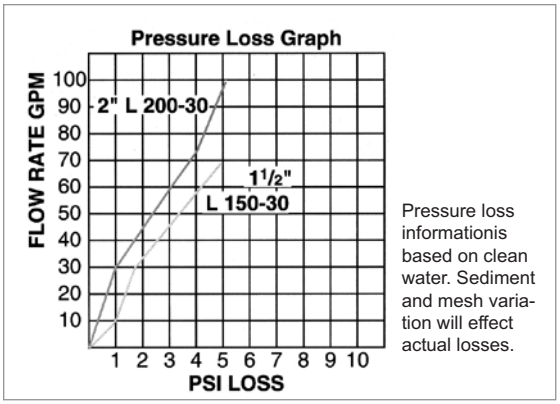
L Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

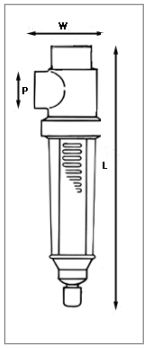
L Style Screen Filter Features:

- 90° "L" style installation.
- Install on suction or discharge side of pump.
- 0-100 GPM models.
- 1/2" MPT drain cleanout is not available on this model.
- Maximum pressure: 150 PSI @ 73ºF.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

- WATER USE ONLY



Pressure loss informationis based on clean water. Sediment and mesh variation will effect actual losses.

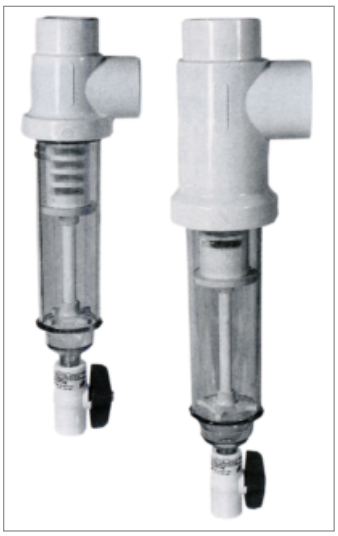


Part Number	Inlet/Outlet "P" Slip	Mesh # and Size	Mesh Opening	Normal Flow GPM	"L"	"W"	List Price
L150-24	1-1/2" x 1-1/2"	24 (711 mic)	0.028	0-50	14 1/4	4-1/2	**139.66**
L150-30	1-1/2" x 1-1/2"	30 (533 mic)	0.021	0-50	14 1/4	4-1/2	**139.66**
L150-60	1-1/2" x 1-1/2"	60 (254 mic)	0.010	0-50	14 1/4	4-1/2	**145.27**
L150-100	1-1/2" x 1-1/2"	100 (152 mic)	0.006	0-50	14 1/4	4-1/2	**145.27**
L150-250	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	0-50	14 1/4	4-1/2	**150.97**
L150-500	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	0-50	14 1/4	4-1/2	**150.97**
L200-24	2" x 2"	24 (711 mic)	0.028	0-100	18	5 1/2"	**228.20**
L200-30	2" x 2"	30 (533 mic)	0.21	0-100	18	5 1/2"	**228.20**
L200-60	2" x 2"	60 (254 mic)	0.010	0-100	18	5 1/2"	**234.99**
L200-100	2" x 2"	100 (152 mic)	0.006	0-100	18	5 1/2"	**234.99**
L200-250	2" x 2"	250 (61 mic)	0.0024	0-100	18	5 1/2"	**243.16**
L200-500	2" x 2"	500 (30 mic)	0.0012	0-100	18	5 1/2"	**243.16**

"L" Style filters do not use purge valves.

Carton Quantity of 10 for all products

Vu-Flow Screen Filters



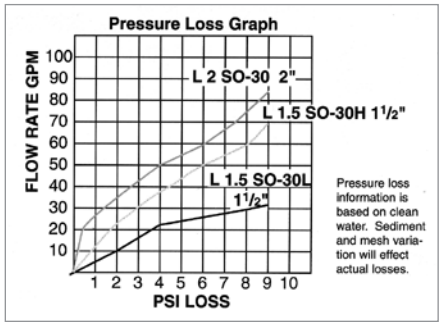
L SO Series

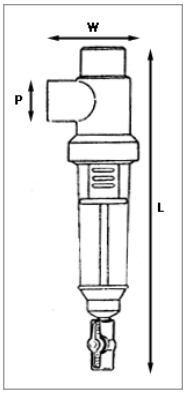
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

L Style Sand Separator Filter Features:

- 90° "L" style installation.
- "Spin out action"separates heavier than water particles away from the screen into the collection chamber.
- 5-90 GPM
- Screen portion of element removes lighter than water elements.
- Available in 5-20, 15-40 and 5-90 GPM models.(A minimum flow rate of 5 GPM is required to operate the filter).
- Extended sump provides greater collection area for sediment.
- 1/2" MPT cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.
- Available in Low Flow(LF) or High Flow(HF) models.

- WATER USE ONLY





Part Number	Inlet/Outlet Slip x Slip "P"	Mesh # and Size	Mesh Opening	Min*/Max GPM	"L"	"W"	List Price w/ Purge Valve
L1.5SO-60LFP	1-1/2"	60 (254 mic)	0.01	5-20	14 7/8"	4-1/2	$ 175.21
L1.5SO-60HFP	1-1/2"	60 (254 mic)	0.01	15-40	14 7/8"	4-1/2	175.21
L1.5SO-100LFP	1-1/2"	100 (152 mic)	0.006	5-20	14 7/8"	4-1/2	175.21
L1.5SO-100HFP	1-1/2"	100 (152 mic)	0.006	15-40	14 7/8"	4-1/2	175.21
L1.5SO-140LFP	1-1/2"	140 (104 mic)	0.004	5-20	14 7/8"	4-1/2	175.21
L1.5SO-140HFP	1-1/2"	140 (104 mic)	0.004	15-40	14 7/8"	4-1/2	175.21
L1.5SO-250LFP	1-1/2"	250 (61 mic)	0.0024	5-20	14 7/8"	4-1/2	182.08
L1.5SO-250HFP	1-1/2"	250 (61 mic)	0.0024	15-40	14 7/8"	4-1/2	182.08
L1.5SO-500HFP	1-1/2"	500 (30 mic)	0.0012	15-40	14 7/8"	4-1/2	182.08
L2SO-60P	2"	60 (254 mic)	0.01	35-90	20 7/8"	5-1/2	267.40
L2SO-100P	2"	100 (152 mic)	0.006	35-90	20 7/8"	5-1/2	267.40
L2SO-140P	2"	140 (104 mic)	0.004	35-90	20 7/8"	5-1/2	267.40
L2SO-250P	2"	250 (61 mic)	0.0024	35-90	20 7/8"	5-1/2	274.38

- Do not use metal valve or fitting on 1/2" drain connection
- Do not install filters with purge valves on the suction side of pump
- LF suffix denotes low flow, HF suffix demotes high flow.

Carton Quantity of 10 for all products

* Minimum flow needed for "spin-out" action.

American Granby

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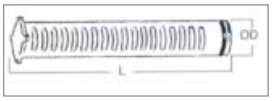
In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

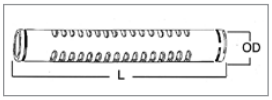
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

VU-FLOW

REPLACEMENT SCREENS FOR FILTERS



NT Screens	L	OD
NT30	5 1/8	1 1/8
NT60	8 1/8	1 5/8
NT120	10	1 7/8

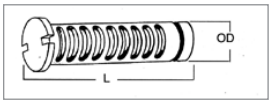


L Screens	L	OD
L60	9 7/8	1 5/8
L120	14 7/8	1 7/8

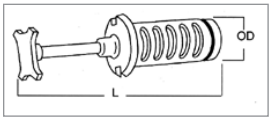
3/4" & 1" NT Filters		1-1/2" NT or Combo Filters		2" NT or Combo Filters	
Part No.	List Price	Part No.	List Price	Part No.	List Price
NT30SC24	$ 24.33	NT60SC24	$ 39.95	NT120SC24	$ 67.31
NT30SC30	24.33	NT60SC30	39.95	NT120SC30	67.31
NT30SC40	24.33	NT60SC40	39.95	NT120SC40	67.31
NT30SC60	24.98	NT60SC60	43.72	NT120SC60	72.26
NT30SC100	24.98	NT60SC100	43.72	NT120SC100	72.26
NT30SC140	24.98	NT60SC140	43.72	NT120SC140	72.26
NT30SC250	28.21	NT60SC250	48.78	NT120SC250	79.91
NT30SC500	28.21	NT60SC500	48.78	NT120SC500	79.91
NT30SC1000	28.21	NT60SC1000	48.78	NT120SC1000	79.91

		1-1/2" L Filters		2" L Filters	
		Part No.	List Price	Part No.	List Price
		L60SC24	$ 41.88	L120SC24	$ 69.90
		L60SC30	41.88	L120SC30	69.90
		L60SC40	41.88	L120SC40	69.90
		L60SC60	46.20	L120SC60	75.50
		L60SC100	46.20	L120SC100	75.50
		L60SC140	46.20	L120SC140	75.50
		L60SC250	50.51		
		L60SC500	50.51		
		L60SC1000	50.51	L120SC1000	83.57

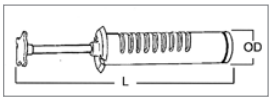
REPLACEMENT SCREENS FOR SAND SEPARATORS



NT Sep Scrn	L	OD
NT1SC	5 1/4	1 1/8



NT Sep Scrn	L	OD
NT1.5SC	8 1/8	1 5/8
NT2SC	10	1 7/8



L Sep Scrn	L	OD
L1.5SC	10	1 5/8
L2SC	13 3/4	1 7/8

3/4" & 1" NT Sand Separators		1-1/2" NT Sand Separators		2" NT Sand Separators	
Part No.	List Price	Part No.	List Price	Part No.	List Price
NT1SC24	$ 28.21	NT1.5SC24	$ 69.76	NT2SC24	$ 97.24
NT1SC30	28.21	NT1.5SC30	69.76	NT2SC30	97.24
NT1SC40	28.21	NT1.5SC40	69.76	NT2SC40	97.24
NT1SC60	29.40	NT1.5SC60	71.20	NT2SC60	99.72
NT1SC100	29.40	NT1.5SC100	71.20	NT2SC100	99.72
NT1SC140	29.40	NT1.5SC140	71.20	NT2SC140	99.72
NT1SC250	31.23	NT1.5SC250	74.21	NT2SC250	103.59
NT1SC500	31.23	NT1.5SC500	74.21	NT2SC500	103.59
NT1SC1000	31.23	NT1.5SC1000	74.21	NT2SC1000	103.59

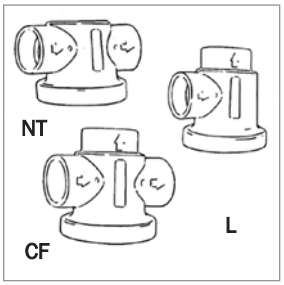
		1-1/2" L Sand Separators		2" L Sand Separators	
		Part No.	List Price	Part No.	List Price
				L2SC24	$ 101.65
		L1.5SC30	73.66	L2SC30	101.65
		L1.5SC40	73.66		
		L1.5SC60	74.21	L2SC60	104.14
		L1.5SC100	74.21	L2SC100	104.14
		L1.5SC140	74.21	L2SC140	104.14
		L1.5SC250	77.43	L2SC250	122.56
		L1.5SC500	77.43	L2SC500	122.56
		L1.5SC1000	77.43		

Vu-Flow Strainers & Replacement Parts

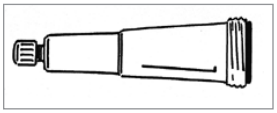


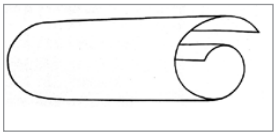
4BSK Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372









Basket Strainer Features:

- Intake screen for lakes or ponds
- High volume capacity, up to 100 GPM.
- Three mesh sizes.
- All PVC construction with easy clean nylon screen.
- Debris accumulates on outside of strainer screen.
- 2" IPS female inlet slip fittings.

VU-FLOW

Part Number	Description	Ctn Qty	List Price
Basket Strainers			
4BSK24	2"x 4"x 24", 24 Mesh Nylon Screen	10	$ 111.67
4BSK60	2"x 4"x 24", 60 Mesh Nylon Screen	10	116.10
4BSK100	2"x 4"x 24", 100 Mesh Nylon Screen	10	120.52
4BSK250	2"x 4"x 24", 250 Mesh Nylon Screen	10	125.03
Filter Bodies (HEADS)			
NT30B	1" NT Screen & NT Separator	1	49.32
NT60B	1-1/2" NT Screen & NT Separator	1	66.77
NT120B	2" NT Screen & NT Separator	1	81.10
CF60B	1-1/2" Combo Screen & Separator	1	79.91
CF120B	2" Combo Screen & Separator	1	101.13
L60B	1-1/2" L Screen	1	69.76
L120B	2" L Screen	1	85.40
L2B	2" L Separator	1	95.31
Screen Filter Covers (CLEAR SUMPS)			
NT30C	1" & 3/4" NT & Combo Style	1	49.85
NT60C	1-1/2" NT & Combo Style	1	74.83
NT120C	2" NT & Combo Style - CLEAR	1	89.81
NT120W	2" NT & Combo Style - WHITE	1	92.81
Separator Filter Covers (CLEAR SUMPS)			
NT1C	1" NT, Combo & L Style	1	69.24
"O" Ring Kits Separator & Screen Filter			
NT30S	1" & 3/4" NT & Combo Style	1	4.67
NT60S	1-1/2" NT & Combo Style	1	5.38
NT120S	2" NT & Combo Style	1	5.99
L60S	1-1/2" L Style	1	5.38
L120S	2" L Style	1	5.99
Cover Guard			
CG100	Black Filter Protector, 1"	1	11.31
CG150	Black Filter Protector, 1-1/2"	1	14.98
CG200	Black Filter Protector, 2"	1	17.44



AFV Series

Automatic Flush Valve Specifications:

VU-FLOW

• Adjustable cycle time	5 min - 24 hours
• Working Pressure	200 PSIG
• Ambient Temperature	25°F to 165°F
• Enclosure	Nema 4
• Voltage	115V, 1 Phase, 60 Hz
• Current	2.5 Amps
• Valve Construction	Brass
• Seals	Reinforced PTFE
• Discharge Volume (Gal per cycle @ 30 PSIG)	1/2" NPT-.92
• Power Cord	8' heavy duty grounded
• Full Port Ball Valve	1/2" NPT
• Discharge Time (Non-adjustable)	3.5 seconds

Automatic Flush Valve Kit Includes:

- (2) 1/2" barb x 1/2" NPT male hose fittings
- (2) SAE size 8 SS worm drive clamps
- (24") 1/2" braid reinforced flexible PVC tubing. (Rated at 215 psi)

KIT DOES NOT INCLUDE FILTER OR AUTOMATIC FLUSH VALVE.

Please Note: TO insure optimum performance of automatic flush valve, it is recommended that you use the above rated tubing only.

Part Number	Description	Ctn Qty	List Price
AFV	Automatic Flush Valve	1	$ 829.14
AFV-KIT	Automatic Flush Valve Kit	1	48.85

Warranty and Disclaimer
A one year warranty applies to the original purchaser. The manufacturer warrants that the AFV will be free from original defects in material and workmanship. Manufacturer will ***repair or replace*** *all parts without charge, found to be defective under normal use and service within the warranty period upon return of product at customer's expense.*

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Ultraviolet disinfection is an effective way to provide bacteria free water for home or industry.

NO LEAD ✓ LEAD-FREE



UVSL Series



UV, UVGDS & UV-W Series

- Completely automatic.
- Compact and easy to install.
- No chemicals required.
- Low operating costs.
- Low maintenance.
- No taste or odor.

SAFE LITE Economy Series UV Disinfection System Features:

- Quick installation.
- Economical.
- 304 stainless steel chamber. Electropolished.
- Sight port to safely view operation.
- 8 gallon complete with flow control.

Standard Series UV Disinfection System Features:

UV Series:

- Constructed for wall mounting.
- 304 stainless steel chamber. Electropolished.
- Sight port to safely view operation.
- 7 & 15 gallon complete with flow control.

UV-W Series:

- Same as UV series with:
- Internal wiper unit for manual cleaning of quartz sleeve.
- 8 & 15 gallon complete with flow control.

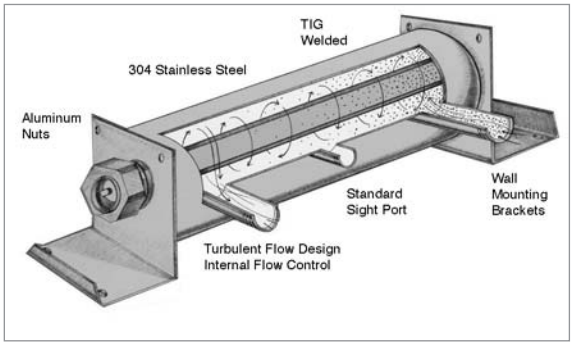
UV-GDS Series:

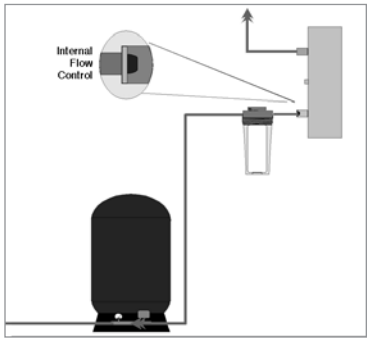
- Same as UV series with:
- 7 & 15 gallon complete with flow control. Remote flow control adder for 24 gallon (not included)
- Electronic built-in “lamp-out” circuit/alarm.
- ON/OFF indicator light.
- Standard auxillary output terminal for optional solenoid shut-off (UVS077 not included).
- Built in surge protector and fuse.

Ultraviolet Disinfection Systems

NO LEAD
LEAD-FREE

Water entering the disinfection unit flows in the space between the quartz sleeve and the chamber wall. Turbulent flow through the unit insures exposure of micro-organisms to lethal dosages of ultraviolet rays. Water exiting the chamber is safe and ready to use.





Typical Installation

Part Number	Supplier Part #	Max GPM	# of Lamps	KW @ 120V	AMPS @ 120V	AMPS @ 220V	Pipe Size	Dimensions LxWxD	Weight	Lamp Out Alarm	List Price
Safe Lite Economy Series											
UVSL8		8	1	0.07	.60	.30	1" MIP 3/4" FIP	18"x4"x7"	8.5	No	$ 928.69
Standard Series											
UV7		7	1	0.07	.60	.30	1" MIP 3/4" FIP	18"x4"x7"	17	No	1116.36
UV15		15	1	0.07	.60	.30	1" MIP 3/4" FIP	36"x4"x7"	28	No	1371.53
GDS Series w/ Lamp out alarm											
UV7SE	UV7GDS	7	1	0.07	.60	.30	1" MIP 3/4" FIP	18"x4"x7"	17	Yes	1176.30
UV15SE	UV15GDS	15	1	0.07	.60	.30	1" MIP 3/4" FIP	36"x4"x7"	28	Yes	1478.25

Lamp out circuit board provides a visual and audible alarm when a lamp outage occurs.
Solenoid protection can be added via the on-board relay and the purchase of an UVS079 Solenoid.
220V 50Hz less power cord net adder $ 35.72. Not available on SE series.

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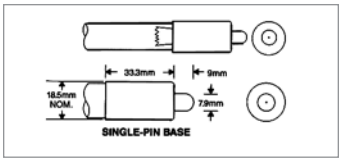
UVM254



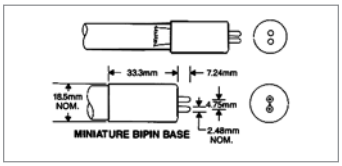
UVS079

Part Number	Description	For Use With Series	List Price
Accessories			
UVM254	UV Dosage meter w/ alarm	UV, UV-W	$ 2637.69
UVS079	Shut-0ff Solenoid 1" FNPT, use w/ UVM254, or UVM257 Specify when ordering	UV, UV-W, UV-SE, UVC	284.22
Maintenance & Repair Parts			
UVP4025	Brass end nut assembly - complete (new)	All models	80.11
UVP5175	Monitor lens kit		160.07
UVP8544	O-ring - Standard for end nut		4.27
UVP1421DWS7	Ballast	UV7	106.68
UVP1421SL8	Ballast	UVSL8	106.68
UVP8222	Ballast - (120V, 60 Hz)	UV7SE	106.68
UVP8224	Ballast - (120V, 60Hz)	UV15SE	106.68
UVP8225	Ballast - (120V, 60Hz)	UV15C	131.47
Service Kits - Include bulb, quartz sleeve, o-rings and small tube of silicone. Recommended 1 per year.			
UVK07	Includes (1) UVB1805 bulb, (1) UVQS6211 sleeve, (2) UVP8544 o-rings	UV7, UV7SE	159.94
UVK015	Includes (1) UVB8246 bulb, (1) UVQS6608 sleeve, (2) UVP8544 o-rings	All 15 models	213.43
UVK024	Includes (2) UVB8246 bulb, (2) UVQS6608 sleeve, (4) UVP8544 o-rings	All 24 models	421.06

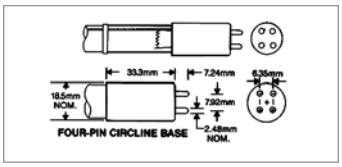
Ultraviolet Disinfection Parts



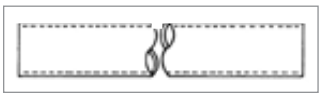
UVB Series - 1 pin each end



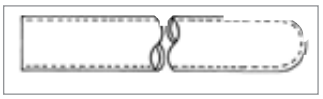
UVB Series - 2 pins each end



UVB Series - 4 pins one end



UVQS Series



UVQS-D Series

Part Number	Bulb Length	Description	For Use With Series	List Price
UV Bulbs				
UVB1805	14”	1 pin each end	UV7, UV7SE	$ 120.80
UVB1814	27.3”	1 pin each end		140.13
UVB8246	32.5”	1 pin each end	All 15 UVC80 24 28 60 120	140.13
UVB11149	45.88”	1 pin each end		140.13
UVB11550	61.2”	1 pin each end	UVC130 bulb	206.60
UVB2436	17”	2 pins each end		140.13
UVB2457	18”	2 pins each end	DWSW-8	140.13
UVB2793	31.34”	2 pins each end		140.13
UVB4287	11.3”	4 pins one end		140.13
UVB4330	13”	4 pins one end		140.13
UVB4357	14.5”	4 pins one end		140.13
UVB4409	16”	4 pins one end		140.13
UVB4436	17”	4 pins one end		140.13
UVB4450	17.71”	4 pins one end	DWS-8V, SE8V, SL5, SL8, SL8V	140.13
UVB4739	29”	4 pins one end	DWS-12V, SE12V	140.13
UVB4793	31.34”	4 pins one end		140.13
UVB4810	32”	4 pins one end		140.13
UVB4854	33.2”	4 pins one end		140.13
Bulb length is from end to end excluding pin connection.				
Quartz Sleeves - Open Ends (22 mm ID, 24.5mm OD)				
UVQS6211	14.37”	Quartz Sleeve	UV7, UV7SE	42.66
UVQS1483	19”	Quartz Sleeve	DWSW-8	54.48
UVQS6608	32.62”	Quartz Sleeve	All 12 15 24 48 60 80 120	87.98
Quartz Sleeves - Domed Ends (22 mm ID, 24.5mm OD)				
UVQS1435D	17”	Dome End Quartz Sleeve		88.95
UVQS476D	19”	Dome End Quartz Sleeve	SL5, SL8, DWS-8V	87.98
UVQS335D	34”	Dome End Quartz Sleeve		87.98

American Granby™

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Chem Tech Series 100

CHEM-TECH Series 100 Features:

- Positive displacement diaphragm metering pump.
- Feed ranges of 15 and 30 gallons per day.
- Operating pressure up to 100 PSI.
- Life-time lubricated, sealed and self-maintaining gear train.
- Four ball valve design for trouble-free operation.
- Strong chemical resistant, flame retardant housing.
- Metal reinforced, short-stroke diaphragm for extra-long life.
- Injection back pressure valve assembly enables injection at an angle and inhibits syphoning.
- Fully adjustable output capacity over operating range.
- Bleed valve assembly aids in priming and relieves pressure from discharge.
- UL, CSA approved for outdoor and indoor applications.
- Manufactured for AGI in an ISO9002 facility.

ISO 9002

CHEM-TECH Motorized Models:
Includes tubing and suction & discharge fittings

Part Number	Series	Max Pressure PSI	Output capacity @ Max psi GPD	Volts	Strokes/ Min.	OD Tube Size	Ctn Qty	List Price
015-115	100	100	15	115	25	1/2”	1	$ 821.33
015-230	100	100	15	230	25	1/2”	1	862.64
030-115	100	100	30	115	51	1/2”	1	821.33
030-230	100	100	30	230	51	1/2”	1	862.64

Additional ChemTech models are available, please contact your sales representative.

Chemical Feed Pumps - CHEMTECH Parts



Chem Tech Series 100



Chem Tech Series 200

ISO 9002

Stocked* Parts for Series 100 and Series 200 CHEMTECH Pumps			
NEW Part Number	OLD Part Number	Description	List Price
25704	228P	Hypalon Diaphragm	$ 105.59
28800	242P	SAN Head	114.03
28903	A51P	Head Assembly	240.91
38981	682P	Coupling Spring	17.68
41624	A53P	Anti Siphon valve assembly, 1/2" OD	187.37
J20560	278P	Ceramic Ball Check	14.06
J26907	A54P	PVC Bulk Head Fitting, 1/2" OD, BFH not installed	121.95
J27903	237P	PTFE Gasket	14.58
J30515	J30515	PVC Bleed Valve Kit w/Tubing, 1/2" OD	164.81
J37440	638P	Hypalon Valve Seat	10.34
J38985	285P	Valve Spring	14.61
J40117	A50P	Foot Valve and Strainer Assembly, 1/2" OD	105.83
J41540	244P	Valve Housing Discharge, 1/2" OD	68.09
J41548	247P	Valve Housing, Suction, 1/2" OD	62.12
J41658	A52P	PVC Back Check Valve Assembly, 1/2" OD	125.36
J41694	J41694	1 1/2" long PVC Injection Ftg 1/2" OD tube size	175.21

* Other Series 100 & 200 parts may be ordered. Contact your sales representative.



Kop Kit®

KOP Kit® for Series 100 & Series 200 CHEMTECH Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screen, & washers.
- Carded and shrink wrapped for display.

Stocked KOP Kits for Repairs: Keep-On-Pumping Kits				
Part Number	Series	Fits Models	Tubing Size	List Price
KX030XAAAAAXXX	100&200	3-100 GPD	1/2" OD	$ 303.94

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C Plus Series

PULSAtron®

Pulsafeeder

PULSATRON "C" Series Electronic Metering Pump Features:

- Solenoid driven assembly - no motors.
- Reliable metering performance.
- Rated "hot" for continuous use.
- High viscosity capable up to 1000 cps.
- Leak free, sealless liquid end.
- Diaphragms are PTFE-faced, bonded to a composite of Hypalon & fabric layers and reinforced with a metal insert.
- Manual control by on-line adjustable stroke length (fixed stroke length.)
- Agency approved for outdoor and indoor use.
- Water resistant for outdoor applications.
- Highly reliable timing circuit.
- Guided ball check valve system to reduce back flow and enhance oustanding running characteristics.
- Premium stnadard wetted component material.
- Few moving parts, wall mountable.
- Safe and easy priming with durable leak-free bleed valve assembly.
- Max pressure rating: 80 psi.
- Maximum 30 gallons per day.

PULSATRON "C PLUS" Series Electronic Metering Pump Features:

- Same as above plus:
- Manual control by on-line **adjustable** stroke length **and** stroke rate.
- Manufactured for AGI in a ISO 9002 facility.

NO LEAD LEAD-FREE

ISO 9002

Materials of Construction:	
Pump Head	PVC
Diaphragm	PTFE faced, Hypalon backed
Valve Seats/ O-rings	Hypalon
Tubing	Clear PVC
Ball Checks	Ceramic
Fittings	PVC

PULSATRON Stocked Electronic Models

Part Number	Series	Pressure PSI	Max GPD	Voltage	Suction & Discharge Tube OD	List Price
LC54SA-VHC1-XXX	C	80	30	115	3/8"	$ 889.70
LD54SA-VHC1-xxx	C Plus	80	30	115	3/8"	1085.70
LD54SB-VHCA-xxx	C Plus	80	30	230	1/2"	1112.60

* Additional Pulsatron models are available. Contact your sales representative.

Chemical Feed Pumps - PULSATRON Parts



C Plus Series

PULSAtron® ISO 9002 Pulsafeeder NO LEAD LEAD-FREE

Stocked* Parts for PULSATRON C and C Plus Series Pumps

Part Number	Description	List Price
L3300H01-PVC	3/8" OD Bleed Valve Assembly	$ 150.64
L3300H03-PVC	1/2" OD Bleed Valve Assembly	150.64
L3101HC1-PVC	3/8" OD C+ Suction valve	74.31
L3201HC1-PVC	3/8" OD C+ Discharge Valve	74.31
L3201HCA-PVC	1/2" OD C+ Discharge valve	75.72

* Other Series C and C Plus parts may be ordered. Contact your sales representative.



Kop Kit®

KOP Kit® for PULSATRON Series Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal,, head screen, & washers.
- Carded and shrink wrapped for display.

Stocked K.O.P. Kits for Repairs: Keep-On-Pumping Kits

NEW Part Number	Series	Fits Models	Suction Disch. Tubing Size	List Price
K4VHC1	C	30 GPD	3/8" OD	$ 251.63
K3VHC1	C Plus	12 GPD	3/8" OD	230.70
K3VHCA	C Plus	12 GPD	1/2" OD	230.70
K4VHC1	C Plus	30 GPD	3/8" OD	251.63
K4VHCA	C Plus	30 GPD	1/2" OD	251.63



XP Series

CHEM-TECH XP Series Peristaltic Pump Features:

- Peristaltic technology delivers worry-free dosing, easy operations and minimal maintenance.
- Include adjustable, on/off with current interrupter timer.
- All metal drive gears and gear train. Metal gear housing.
- 3 piece roller design.
- Self priming.
- 115 V, 60 Hz

Part Number	Max PSI	GPD	RPM	Ctn Qty	List Price
XP015LAHX	100	15	30	1	$ 1105.79
XP030LAHX	100	30	30	1	1105.79

Additional models are available with or without complete tank system.

American Granby

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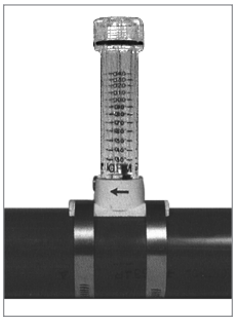
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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

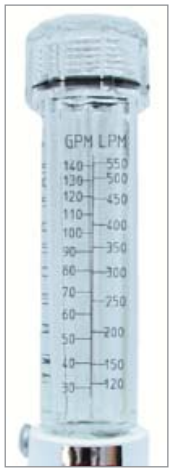
Pulsafeeder

ISO 9002

NO LEAD ✓ LEAD-FREE



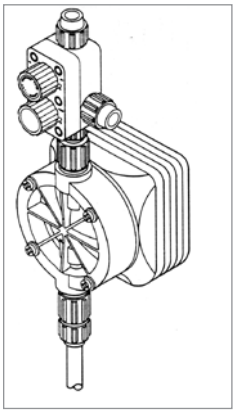
U88 Series



Flow Meter Features:

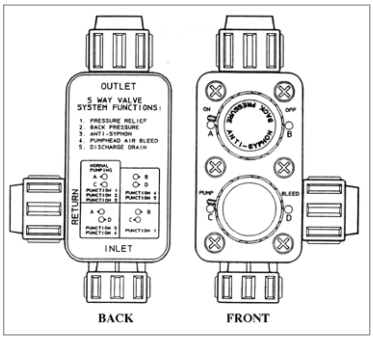
- Economical, easy to install, easy to maintain.
- Calibrated in GPM/LPM with easy-to-read numbering.
- Available 1”- 4” pipe size.
- Durable acrylic construction.
- Supplied with 2 clamps and rubber gasket seal.
- Maximum temperature limit = 120°F, Maximum pressure limit = 120 psi.

Part Number	Nominal Pipe Size	Range GPM/LPM	List Price
U8800424	1”	5-35 / 20-130	$ 184.69
U8800439	1 1/2”	20-80 / 80-300	184.69
U8800440	2”	30-140 / 120-550	184.69
U8800441	2 1/2”	40-200 / 160-750	184.69
U8800442	3”	80-350 / 300-1300	184.69
U8800443	4”	150-600 / 600-2200	184.69



DG/5FV De-gas Five Function Valve Features:

- De-Gas - Bypass gasses and fluid during normal pump operation. Allows for the constant removal of gases that would otherwise “air bind” the pump.
- Back Pressure - Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-siphon - Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vacuum.
- Air Bleed - Used during priming to manually remove air from the pump head.
- Discharge Drain - Depressurize pump discharge line without loosening tubing or fittings. Protects the operator from chemical exposure.



L385 Series

Operation:

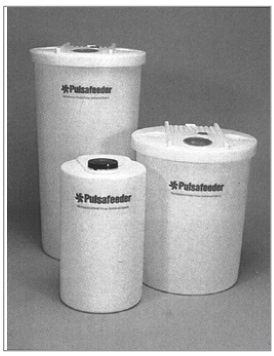
- The functions are selected by setting two, independent dual position selector knobs.
- The DG/5FV’ s compatible with most **PULSATRON** and **CHEMTECH** series pumps. Connected to the existing discharge valve the DG/5FV is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the degas, air bleed or drain discharge mode.
- Degas/bypass volume is adjustable, typically 1-10% of pump output.

Specifications:	
Maximum Flow	240 gpd
Minimum Flow	3 gpd
Max Viscosity	1000 cps
Max Pressure	Up to 250 psi

Materials of Construction:	
Valve Body	PVD
Diaphragm	PTFE faced Hypalon
O-rings	Viton or Hypalon
Hardware	188 Stainless steel (recessed)

Part Number	Description	O-rings	Valve Body	Connection	List Price
L385KH03-PVD	DG/5VF De-Gas Valve	Hypalon	PVD	1/2” OD tubing	$ 497.09
L385KV03-PVD	DG/5FV De-Gas Valve	Viton	PVD	1/2” OD tubing	497.09

Chemical Feed Pumps - Accessories



Solution Tanks

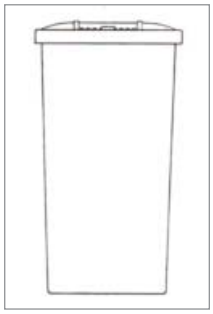
Solution Tank Features:

- High density polyethylene
- 5 gallon marked increments.
- Add “AT” to fitting part number for factory installed bulkhead fittings.

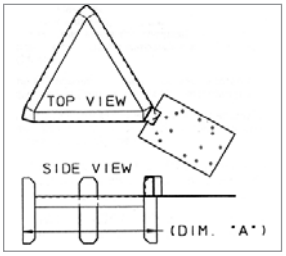
Part Number	Description	List Price
40375	15 Gallon liner with cover 25” x 14 1/2”	$ 247.00
40360	30 Gallon liner with cover 32” x 18 1/2” Brine Tank	343.37
40365	35 Gallon heavy duty tank with cover 28” x 23”	523.80
J40366	50 Gallon liner with rigid cover 42 1/2” x 18 1/2” (b) 23 (t)	573.39
26859	1/2” Bulk Head Fitting (AT) installed at factory	66.65
26860	3/8” Bulk Head Fitting (AT) installed at factory	66.65



40360



40365



Solution Tank Stand for CHEMTECH Series Features:

- Tri-pod stand with pump mounting shelf.
- 12 gauge, 304 stainless steel.

Part Number	Description	Dim. “A”	List Price
39320	15 Gallon with pump mounting shelf	14.13”	$ 491.85
39321	55 Gallon with pump mounting shelf	18.13”	819.94

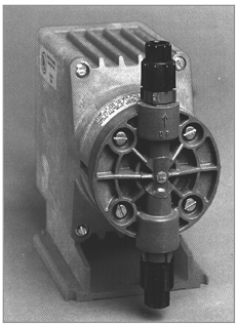
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U1 and U0 Series



Uni-Dose™ Electronic Metering Pump Features:

- Available with single or dual output control for easy accurate adjustment over operating range.
- Turn down ratio up to 100:1.
- Maximum output from 6 to 30 gallons per day at 80 psi.
- Virtually silent, ideal for household applications.
- Totally enclosed, chemical resistant housings provide superior protection in either indoor or outdoor applications.
- Reliable solid state eletronics are fully encapsulated to ensure long life.
- Solenoid design provides power without fans, open housings, motors or gears.
- Safe inherent pressure relief stops pump if system back pressure exceeds the pump strength.
- Thermostatic protection prevents damage from overheating.
- Four self-cleaning Uni-valves designed to maintain prime while eliminating scaling and clogging associated with ball valves.
- Each pump comes complete with an injection check/back pressure valve, a foot valve and strainer, PVC suction tubing, UV resistant PE discharge tubing and tubing straightener.
- Heads and fittings constructed of high strength PVC.
- 1.4 AMPS maximum current @ 120 VAC.
- Made in USA.

Part Number	Description	Max. GPD	Max. PSI	List Price
U01#-281TT	U Series Metering Pump	6	80	$ 658.85
U02#-281TT	U Series Metering Pump	12	80	658.85
U03#-281TT	U Series Metering Pump	24	80	658.85
U04#-281TT	U Series Metering Pump	30	80	658.85
U12#-281TT	U Series Metering Pump	12	80	724.02
U13#-281TT	U Series Metering Pump	24	80	724.02
U14#-281TT	U Series Metering Pump	30	80	724.02

# Insert voltage code/plug type before hyphen:
1= 120 VAC US plug
2= 240 VAC US plug (non export)

All LMI pumps are drop shipped direct from factory.

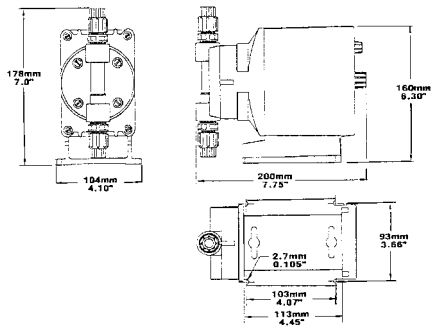
Chemical Feed Pumps - Uni-Dose™

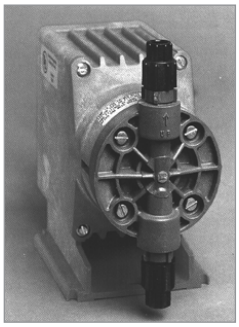
LMI MILTON ROY A Sundstrand Company



U1 and U0 Series

Dimensions:





Control and Output Code	
Manual Control	
Speed (stroking frequency) fixed and stroke length manually adjustable	
U01 . . . . . .6.0 GPD (0.95 L/H)	.80 PSI (5.5 Bar)
U02 . . . . . .12.0 GPD (1.9 L/H)	.80 PSI (5.5 Bar)
U03 . . . . . .24.0 GPD (3.8 L/H)	.80 PSI (5.5 Bar)
U04 . . . . . .30.0 GPD (4.8 L/H)	.80 PSI (5.5 Bar)
Dual Manual Control	
Speed (stroking frequency) fixed and stroke length manually adjustable	
U12 . . . . . .12.0 GPD (1.9 L/H)	.80 PSI (5.5 Bar)
U13 . . . . . .24.0 GPD (3.8 L/H)	.80 PSI (5.5 Bar)
U14 . . . . . .30.0 GPD (4.8 L/H)	.80 PSI (5.5 Bar)

Liquid End Materials:
PVC head and fittings, Flexiprene® Liquifram and Uni-Valves.

Model	GPD	GPH	Liters Per Hr.	ml/cc per Min.	ml/cc per Stroke	Strokes per Min.
	MIN- MAX	MIN- MAX	MIN - MAX	MIN- MAX	MIN- MAX	MIN- MAX
U01	1.2 - 6.0	0.05 - 0.25	0.19 - 0.95	3.2 - 16	0.13 - 0.63	Fixed - 25
U02	2.4 - 12.0	0.10 - 0.5	0.38 - 1.9	6.3 - 32	0.13 - 0.63	Fixed - 50
U03	4.8 - 24.0	0.20 - 1.0	0.76 - 3.8	12.7 - 63	0.13 - 0.63	Fixed - 100
U04	6.0 - 30.0	0.25 - 1.25	0.95 - 4.8	15.8 - 79	0.16 - 0.79	Fixed - 100
U12	0.12 - 12.0	0.005 - 0.5	0.02 - 1.9	0.3 - 32	0.13 - 0.63	2.5 - 50
U13	0.24 - 24.0	0.01 - 1.0	0.04 - 3.8	0.6 - 63	0.13 - 0.63	5 -100
U14	0.30 - 30.0	0.01 - 1.25	0.05 - 4.8	0.8 - 79	0.16 - 0.79	5 -100

Recommended minimum stroke length (adjustable) is 20%

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SECTION 5
SUMP & SEWAGE

PRODUCT LINE	PAGE
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Float Switches, Alarms	7-8
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Utility Pumps	1



91025 & 91330

Submersible Utility Pump Features:

- 1/5 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 10’ waterproof power cord.
- Clog resistant open type impeller.
- Fits in 6” opening.
- Capacities of 26 & 40 gpm.
- 1 year limited warranty.

Specifications:

Discharge: 1 1/4" MNPT or 3/4” GHT
Housing & Base: Thermoplastic
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



92250 & 92330
92335

Submersible Sump Pump Features:

- 1/4 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 10’ waterproof power cord. 25’ on #SP92335.
- Clog resistant open type impeller.
- Switch turns on at 9”, off at 4”.
- Handles 1/8” solids.
- 1 year limited warranty.

Specifications:

Discharge: 1 1/4" MNPT
Housing & Base: Thermoplastic
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



92341

Submersible Sump Pump Features:

- 1/3 HP split capacitor motor, 120 V
- Corrosion resistant cast iron construction.
- Bottom & side intake for clog resistant suction.
- 10’ waterproof power cord.
- Vertical float switch allows pump to fit in 10” opening.
- Handles 3/8” solids.
- 3 year limited warranty.

Specifications:

Discharge: 1 1/2" MNPT
Housing & Base: Powder Coated Cast Iron
Impeller: Stainless Steel
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



92501

Submersible Sump Pump Features:

- 1/2 HP heavy duty motor, 120 v, 60 Hz.
- Corrosion resistant cast iron construction.
- SP92501 has 10’ waterproof power cord.
- SP92507 has 25’ waterproof power cord.
- Will handle 1/2” solids.
- Switch turns on at 9”, off at 4”.
- 3 year limited warranty.

Specifications:

Discharge: 1 1/2" FNPT
Housing & Base: Powder Coated Cast Iron
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected

Model No.	HP	Gallons per minute at discharge height in feet 0'	5'	10'	15'	20'	25'	Min. Lift	Min. Amps	List Price
SP91025	1/5	26	21	14	10	7	1	25’	3.6	$ 256.62
SP91330	1/3	40	34	28	22	12	2	25’	4.1	322.44
SP92250	1/4	30	22	20	16	9	2	25’	3.8	340.19
SP92330	1/3	40	34	28	22	12	2	25’	4.1	366.37
SP92335	1/3	40	34	28	22	12	2	25’	4.1	416.12
SP92341	1/3	46	36	30	25	12	1	25’	4.1	461.01
SP92501	1/2	70	66	58	48	25	10	25’	7.6	457.17
SP92507	1/2	70	66	58	48	25	10	25’	7.6	564.49

NOTE: Use of smaller diameter pipe, or long runs of pipe, will result in lower flow rates than those shown.

Pumps - Sump & Sewage



92511

Submersible Sump Pump Features:

- 1/2 HP split capacitor motor, 120 V
- Corrosion resistant cast iron construction.
- Bottom & side intake for clog resistant suction.
- Will handle gray water and up to 1/2” solids.
- 10’ waterproof power cord.
- Vertical float switch allows pump to fit in 10” opening.
- 3 year limited warranty.

Specifications:

Discharge: 1 1/2" FNPT
Housing & Base: Powder Coated Cast Iron
Impeller: Non-clogging open type
Bearing: Permanently lubricating
Motors: Split capacitor, cool operation continuous duty, thermally protected



92333 and 92551

Pedestal Sump Pump Features:

- Solid stainless steel drive shaft (92551)
- Plated steel drive shaft (92333).
- Corrosion resistant thermoplastic or cast iron.
- Metal switch arm for durability.
- 92551 uses stainless steel impeller & copper float.
- Full height pump allows cover to fit on basin.
- 1/3 & 1/2 HP motors.
- Capacities up to 60 gallons per minute.
- 10’ waterproof power cord.
- 1 year limited warranty on 92333.
- 5 year limited warranty on 92551.

Specifications:

Discharge: 1 1/4” (92333), 1 1/2” (92551)
Housing: Thermoplastic (92333) Powder Coated Cast Iron (92551)
Column: Thermoplastic (92333) Stainless Steel (92551)
Impeller: Non-clogging open type
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



93501

Submersible Sewage Pump Features:

- 1/2 HP heavy duty motor, 120 v, 60 Hz.
- Corrosion resistant cast iron construction.
- SP93501 has 10’ waterproof power cord.
- SP93507 has 25’ waterproof power cord.
- Vortex impeller will handle 2” solids.
- 1 year limited warranty.

Specifications:

Discharge: 2" FNPT
Housing & Base: Painted Cast Iron
Impeller: Cast Aluminum Non-clogging Vortex
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected

Model No.	HP	Gallons per minute at discharge height in feet 0'	5'	10'	15'	20'	25'	Max. Head	Min. Amps	List Price
SP92511	1/2	70	66	58	48	25	10	25’	7.6	$ 573.93
SP92333	1/3	50	45	38	35	15	0	20’	2.76	315.22
SP92551	1/2	60	55	45	30	12	5	25’	3.06	447.81
SP93501	1/2	80	68	60	44	13	2	25’	7.6	644.19
SP93507	1/2	80	68	60	44	13	2	25’	7.6	716.36

NOTE: Use of smaller diameter pipe, or long runs of pipe, will result in lower flow rates than those shown.

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SPDK Series

SPDK Sump Pump Discharge Kits Feature:

- 24 ft of heavy duty corrugated polyethylene tubing, with 8' cutting intervals.
- 1-1/4" or 1 1/2" full size plastic male adapter with stainless steel clamp.
- Individually packaged with instructions included.

Part Number	Description	Ctn Qty	List Price
SPDK125M	Male adapter to fit 1-1/4" FIPT pump discharge	8	$ 17.62
SPDK150M	Reducing male adapter (1 1/2" mip x 1-1/4" ins) to fit 1-1/2" FIPT pump discharge with 1 1/4" sump hose	8	18.40
SPDK150MHD	Male adapter to fit 1 1/2" FIPT pump discharge w/ 1 1/2" sump hose	6	26.63
SPDH125-300	1 1/4" bulk hose, 300'	1	199.49
SPDH150-150	1 1/2" bulk hose, 150'	1	183.71

SS&E Check Valves

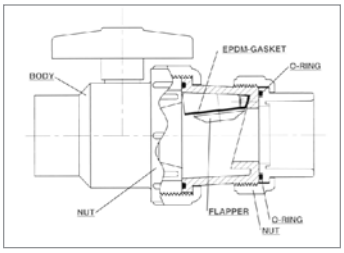


2200 Series

NO LEAD < 0.25% Pb by weighted average

2200 Series Checkmate Features:

- One piece ball/check valve combination.
- Save time, labor and hassle to applications requiring in-line ball valves and check valves.
- True union or compression design allows for removal of check valve for cleaning or repairs.
- Rates at 125 psi. May be installed in vertical or horizontal position.
- Made of PVC type 1 grade 1 material meeting ASTM-D1784.



Part Number	Description	Ctn Qty	List Price
2200-15	1 1/2" Union x Slip	12	$ 57.23
2200-20	2" Union x Slip	12	86.57
2200-15TU	1 1/2" Union x Union	12	75.83
2200-20TU	2" Union x Union	12	102.09
2200-15UC	1 1/2" Compression x Compression	12	69.22
2200-20UC	2" Compression x Compression	12	92.54

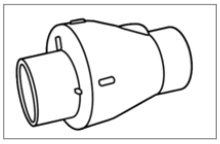


MCV Series

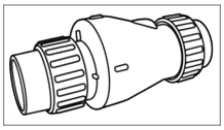
"Smart" Swing Check Valve Features:

- Patented innovation in swing check valve technology eliminates in-line flow restriction of conventional check valves.
- Spring loaded swing check flapper/gate allows full flow and reliable back flow prevention.
- Standard "smart" check valve remains closed to 1/2 psi, then open for full flow.
- Magnetic "smart" check valves remain closed to 2 psi, then open for full flow.

NO LEAD ✓ LEAD-FREE



MCV821 Series



MCV823 Series



MCV850 Series

Part Number	Size	Description	Spring Tension	Ctn Qty	List Price
MCV821-10	1"	Slip x Slip	1/2 lb.	12	$ 24.54
MCV821-10C	1"	Slip x Slip CLEAR	1/2 lb.	12	27.97
MCV821-15	1 1/2"	Slip x Slip	1/2 lb.	12	37.00
MCV821-15C	1 1/2"	Slip x Slip CLEAR	1/2 lb.	12	40.79
MCV821-20	2"	Slip x Slip	1/2 lb.	12	43.50
MCV821-20C	2"	Slip x Slip CLEAR	1/2 lb.	12	46.91
MCV821-20M	2"	Slip x Slip w/magnet	2 lb.	12	47.49
MCV821-20MC	2"	Slip x Slip w/magnet CLEAR	2 lb.	12	50.67
MCV823-10	1"	Union x Union	1/2 lb.	12	37.00
MCV823-10C	1"	Union x Union CLEAR	1/2 lb.	12	40.79
MCV823-15	1 1/2"	Union x Union	1/2 lb.	12	42.13
MCV823-15C	1 1/2"	Union x Union CLEAR	1/2 lb.	12	62.36
MCV823-20	2"	Union x Union	1/2 lb.	12	56.10
MCV823-20C	2"	Union x Union CLEAR	1/2 lb.	12	66.42
MCV823-20M	2"	Union x Union w/magnet	2 lb.	12	66.42
MCV823-20MC	2"	Union x Union w/magnet CLEAR	2 lb.	12	70.80
MCV850-15	1 1/2"	Check/Slice Combo Union x Slip		12	64.48
MCV850-20	2"	Check/Slice Combo Union x Slip		12	93.63

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SUMP CHECK

Sump Check Features:

- Valve fits 1-1/4" or 1-1/2" IPS size PVC, ABS & Galvanized.
- 4 gaskets furnished with each valve (2)1- 1/4" and (2)1- 1/2".
- Easy installation, no hose clamps, cementing or threading.
- Long lasting EPDM weighted flapper.
- Body length 5 1/4”



1500 Series

1500 Series Features:

- Compression PVC Swing Check Valve.
- For IPS plastic or steel pipe.
- Body length is 7 1/2” for 1 1/4”and 1 1/2”; 9 3/4” for 2”



SPCV Series

SPCV Series Features:

- Swing Check Valve, rubber boot x rubber boot
- ABS body, Buna-N flapper, rubber boot w/stainless steel clamps.
- Available in 1-1/4”, 1-1/2” and 2”.

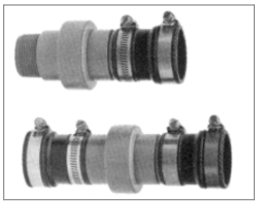
NO LEAD
< 0.25% Pb
by weighted
average



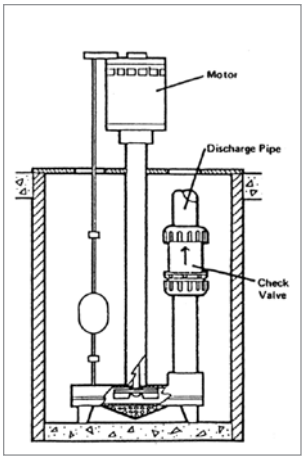
SC Series

SC Series Features:

- Full flow - positive sealing flapper swing check design.
- Durable sonic welded thermoplastic body.
- Available in 1-1/4" & 1-1/2" and combo 1-1/4"-1-1/2".
- Stainless steel clamps provided on the RS models.
- Single (S) or Double (D) reducing rubber sleeves for flexibility.



SC125SRS, SC125/150 DRS



Typical Installation

Part Number	Inlet	Outlet	Ctn Qty	List Price
SUMP CHECK	1 1/4” or 1 1/2” IPS	1 1/4” or 1 1/2” IPS	12	$ 32.39
1500-12	1 1/4” ips comp	1 1/4” ips comp	12	48.20
1500-15	1 1/2” ips comp	1 1/2” ips comp	12	50.88
1500-20	2” ips comp	2” ips comp	12	71.59
1500-30	3” ips comp	3” ips comp	2	193.98
SPCV125	1 1/4” rubber boot	1 1/4” rubber boot	10	**15.11**
SPCV150	1 1/2” rubber boot	1 1/2” rubber boot	10	**15.55**
SPCV200	2” rubber boot	2” rubber boot	12	**31.74**
SC125B	1 1/4” mpt	1 1/4” barb or 1 1/2” slip	20	**6.69**
SC150B	1 1/2” mpt	1 1/4” barb or 1 1/2” slip	20	**6.80**
SC125	1 1/4” mpt	1 1/4” or 1 1/2” slip	20	**6.71**
SC125SRS	1 1/4” mpt	1 1/4” or 1 1/2” rubber boot	10	**12.26**
SC150SRS	1 1/2” mpt	1 1/4” or 1 1/2” rubber boot	10	**11.53**
SC125/150DRS	1 1/4” or 1 1/2” rub boot	1 1/4” or 1 1/2” rubber boot	10	**16.53**

SS&E Check Valves

NO LEAD
< 0.25% Pb
by weighted
average



SPCV SL Series

SPCV Silent Series Check Valve Features:

- Double flapper design eliminates typical hammering of sump check valve after pump cycles.
- Nested flapper design allows for proper seating and eliminates stress at the hinge point.
- ABS body, Buna-N flapper, rubber boot w/stainless steel clamps.
- Available in 1-1/2" and 2", white or clear body.
- Made in USA.
- Pressure tested.

Part Number		Inlet	Outlet	Ctn Qty	List Price
SPCV150SL	White	1 1/2" RUBBER BOOT	1 1/2" RUBBER BOOT	16	$ 42.07
SPCV200SL	White	2" RUBBER BOOT	2" RUBBER BOOT	12	53.55
SPCV150SLC	Clear	1 1/2" RUBBER BOOT	1 1/2" RUBBER BOOT	16	49.94
SPCV200SLC	Clear	2" RUBBER BOOT	2" RUBBER BOOT	12	63.36

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GF20W with plug



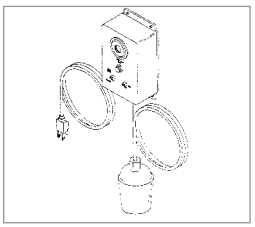
GF20W NO plug

Mechanical Float Switch Features:

- Precison molded floats.
- Non-mercury design for potable and non-potable water appliations.
- Float switches have 16 gauge CPE jacketed cords (SJOW-A/CSA Type SJOW), with 120 or 240 volt series piggy back plugs.
- Unterminated float switches for direct wire applications.
- CSA / UL approved.
- 13 Amps - 1/2 hp @ 120/240 VAC 60 Hz.
- Max operating temp: 140°F (60°C) water resistant, 194°F (90°C) dry.
- Black ABS floats for **PUMP DOWN** (normally open) or emptying applications.
- White ABS floats for **PUMP UP** (normally closed) or filling applications.



Part Number	Description	Cord & Plug	Application	Ctn Qty	List Price
MECHANICAL BLACK ABS FLOAT - PUMP DOWN/NORMALLY OPEN					
GF20W10F1	120V	10' with plug	Pump down	1	$ 56.25
GF20W15F1	120V	15' with plug	Pump down	1	67.50
GF20W20F1	120V	20' with plug	Pump down	1	69.37
GF20W30F1	120V	30' with plug	Pump down	1	88.13
GF20W50F1	120V	50' with plug	Pump down	1	118.13
GF20W10F2	240V	10' with plug	Pump down	1	77.82
GF20W15F2	240V	15' with plug	Pump down	1	88.13
GF20W20F2	240V	20' with plug	Pump down	1	93.75
GF20W1000	120V/240V	10' NO plug	Pump down	1	49.50
GF20W1500	120V/240V	15' NO plug	Pump down	1	59.81
GF20W2000	120V/240V	20' NO plug	Pump down	1	64.12
GF20W3000	120V/240V	30' NO plug	Pump down	1	74.62
GF20W5000	120V/240V	50' NO plug	Pump down	1	96.56
MECHANICAL WHITE ABS FLOAT - PUMP UP/NORMALLY CLOSED					
GW2CW10F1	120V	10' with plug	Pump up	1	56.25
GW2CW15F1	120V	15' with plug	Pump up	1	67.50
GW2CW20F1	120V	20' with plug	Pump up	1	69.37
GW2CW30F1	120V	30' with plug	Pump up	1	88.13
GW2CW50F1	120V	50' with plug	Pump up	1	118.13
GW2CW10F2	240V	10' with plug	Pump up	1	77.82
GW2CW15F2	240V	15' with plug	Pump up	1	88.13
GW2CW20F2	240V	20' with plug	Pump up	1	93.75
GW2CW1000	120V/240V	10' NO plug	Pump up	1	49.50
GW2CW1500	120V/240V	15' NO plug	Pump up	1	59.81
GW2CW2000	120V/240V	20' NO plug	Pump up	1	64.12
GW2CW3000	120V/240V	30' NO plug	Pump up	1	74.62
GW2CW5000	120V/240V	50' NO plug	Pump up	1	96.56



HWA Series

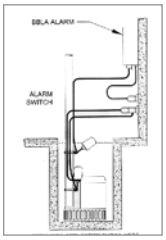
HWA Series High Water Alarm Features:

- 120v/1HP/60HZ.
- Both visible and audible horn alarms with horn silence switch.
- Nema 1 plastic PVC panel.
- 10' float cord.

Part Number		Power Cord	Ctn Qty	List Price
HWA115-10	High Water Alarm	6'	1	$ 222.06



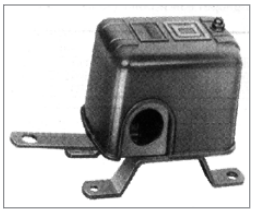
SP3000 Series



Indoor Water Alarm with Battery Backup Features:

- Monitors liquid levels in sump basins, lift stations tank, wastewater applications.
- Durable NEMA 1 thermoplastic 6" x 3 3/4" x 2 1/2" enclosure rated for indoor use.
- Red "Alarm ON" light, green "Power On" light and 85 decibel horn at 10 feet.
- Alarm test and horn silence button with auto reset.
- Battery backup.
- 6' Power Cord, 15' Float cord.
- Auxiliary contacts. 120 VAC, 5 AMP max 60 Hz.
- External terminal block float connection for easy installation. Do not apply power. Class Two Output, 12 VAC.
- Primary 120 VAC, Secondary 12 VAC, 60 Hz (Alarm condition 2.5 watts max).

Part Number	Description	Ctn Qty	List Price
SP3000-15	Indoor Water Alarm	1	$ **227.73**



9036DG Series

ISO 9001

DG Sumptrol Float® Switch Features:

SUMPTROL® BY

- For open tank or sump applications.
- 2 Pole, Single lever operated.
- NEMA Type 1.
- Manufactured for AGI in an ISO 9001 facility.

Part Number	Description	Ctn Qty	List Price
9036DG2	Contacts close on liquid rise	1	$ 102.44
9036DG2R	Contacts open on liquid rise	1	128.08

AK INDUSTRIES, INC.



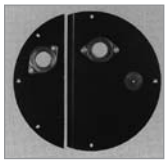
HSB Series

HSB Series Sump & Sewage Basin Features:

- Includes applicable cover, hardware and adapt-a-flex hub.
- Designed to accommodate most any pump on the market.
- Corrosion and impact resistant polyethylene.
- Easy installation with adapt-a-flex weather and gas tight fittings on ejector basins.
- A variety of steel and poly covers and hubs available to fit most any installations.
- Covers in stock have 2" vents, Covers with 3" & 4" vents available by special order.
- Use NH suffix for no hole in basin.

Sizes	Description	Ctn Qty	List Price
Sump Basin			
HSB1822	With 1 piece slotted poly cover, 22 gal	1	$ 142.96
HSB18221SC	With 1 piece steel cover, 22 gal	1	225.07
HSB1822LC	Basin less cover, 22 gal	1	89.19
Sewage Basin			
HSB1830	With 1 piece steel cover, hub, 2" vent, 30 gal	1	262.92
HSB18302SC	With 2 piece steel cover, hub, 2" vent, 30 gal	1	278.57
HSB1830NH	With 1 piece steel cover, no hole in basin, 30 gal	1	252.26
HSB2424	With S2410SC steel cover, hub, 2" vent, 48 gal	1	582.57
HSB2436	With S2410SC steel cover, hub, 2" vent, 71 gal	1	660.13
HSB2436NH	With S2410SC steel cover, no hole in basin, 71 gal	1	569.96
HSB3036D	With D3008C duplex steel cover, hub, 2" vent, 110 gal	1	1522.75

Sump and Sewage Basin Covers, Hubs and Kits



2SC



1PC

Part Number	Description	Ctn Qty	List Price
1SC	1 pc steel cover 18" dia w/ 2 2" holes & hardware	1	$ 135.57
2SC	2 pc steel cover 18" dia w/ 2 2" holes & hardware	1	165.97
1PC	1 pc plastic cover 18" dia slotted w/ hardware	1	52.48
4-HUB	Cast iron 4" Hub	1	163.19
4AF-HUB	Adapt-a-flex 4" Hub	1	37.88
HSB1830KIT	Tape, nuts, bolts	1	40.80



HSBB2300STL



HSBC23RSL

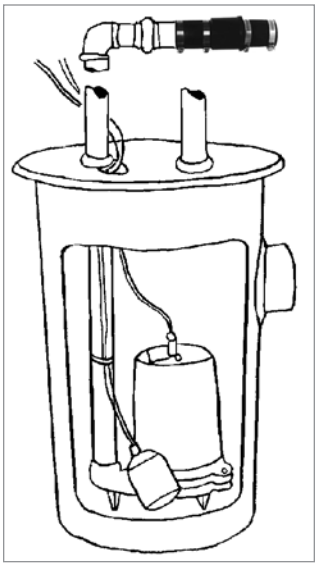
HSBB Series Sump & Sewage Basin Features:

- Tapered Corrugated Sump Basin and locking cover
- Made of durable, corrosion resistant polyethylene resin.
- Radon sump lid has gasket kit to seal openings.

Sizes	Description	List Price
HSBB2300STL	18" x 24" basin only, 18 gal. capacity	$ 64.69
HSBB2300STL30	18" x 30" basin only, 26 gal. capacity	85.41
HSBC23STL	Slotted Locking Cover only	26.46
HSBC23RSL	18" Radon Sump Lid only	127.83

Sump & Sewage Package Systems

Package Systems



Piping not included

HPA500S Sewage Package Includes:

- SP93501 Sewage pump with 2” FNPT discharge.
- HSB1830 18” x 30” Basin with 1 piece steel cover w/2” discharge.
- Adapt-a-flex hub.
- SPCV200 2” Check valve.
- Cast iron hub available.
- 2 piece cover available.
- 2” compression check valve 1500-20 available at additional cost.

Pricing & Performance Table [USGPM]

		Pumping Height for SP93501						Min	
Model No.	HP	0’	5’	10’	15’	20’	Volts	Amps	List Price
HPA500S	1/2	80	68	60	44	13	120	7.6	$ **784.58**

Laundry Tray Systems



LTS Package Features:

- 1/3 HP SP92341 Sump Pump, 120v, 1 1/2” discharge, vertical float switch.
- 11 x 17 x 14 basin with cover.
- SPCV125 Check Valve.
- Includes 1 1/4 x 18 PVC nipple and Sch 80 PVC 1 1/2” x 1 1/4”bushing
- Above the floor sump that accepts most any submersible pump.
- Rotationally molded from polyethylene with no seams.
- Bolt down cover allows easy access for installation or removal of sump pump.
- 1-1/2" threaded inlet connection.

Pricing & Performance Table [USGPM]

	Pumping Height for SP92341						Min	
Model No.	0’	5'	10'	15'	20'	Volts	Amps	List Price
LTS33	40	34	28	22	12	120		$ **630.23**
LTSB	Laundry Tray basin only							**222.48**

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SECTION 6
PLUMBING & HEATING ACCESSORIES & SPECIALTIES

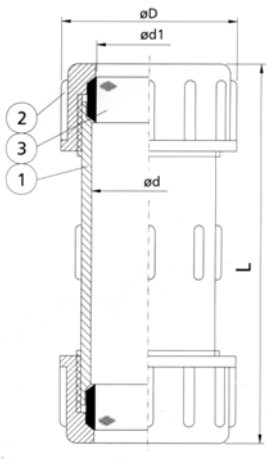
PRODUCT LINE	PAGE
Air Purgers, Vents & Water Hammer Arrestors	6
Clear Braided PVC Hose	11-12
Clips & Van Hangers	24
Closet Flanges/Gaskets	18
Compression Couplings, Imported PVC/CPVC	1
Compression Fittings, Galvanized	2
Couplings - Flexible and No-Hub	4
Drains	13
Iron Out	14
Installation Kits & Cords	13
Perforated Hanger Strapping	23
Pipe Hangers	29-32
Pipe Repair Clamps	3
Pipe Straps & Clamps	25-26
Plumbing Specialty Accessories	20
Roof Flashings	21
Saddle Tapping Valve & Kit	14
Solder Preparation	22
Strap & Tube Hangers	33-34
Stud Protectors	35
Tanks - Thermal Expansion	5
Test Plugs, Caps	19
Trap Wrap ™	15-16
Tube & Pipe Hooks	27-28
Tubing	7-8
Tubing Fittings	9-10
Washer Boxes	17



NO LEAD
LEAD-FREE

PVC Compressing Coupling Features:

- Iron Pipe Size (PVC), Copper Tube Size (CPVC)
- For use with cold water (PVC) or hot water (CPVC-CTS)
- Natural rubber gasket seals
- Rated at 200 psi at 70°F
- Imported



"PC" Series IPS DIMENSIONS (IN.)

SIZE	D	d	d1	L
1/2"	1.85	.91	.83	5.24
3/4"	2.09	1.18	1.04	5.32
1"	2.40	1.42	1.31	5.75
1 1/4"	2.87	1.81	1.65	6.30
1 1/2"	3.15	2.05	1.89	6.89
2"	3.62	2.56	2.37	7.87
2 1/2"	4.53	2.52	2.87	9.92
3"	5.28	3.62	3.49	10.87
4"	6.34	4.65	4.49	11.93
6"	8.78	6.85	6.62	11.22

"HW" Series CTS DIMENSIONS (IN.)

1/2"	1.30	.71	.63	4.49
3/4"	1.85	.95	.88	5.00

MATERIAL SPECIFICATIONS

#	Part	Material
1	Body	UPVC, CPVC
2	Compression Nut	UPVC, CPVC
3	Gasket - PVC	NR
	Gasket - CPVC	EPDM

Part Number	Material	Size	Case Qty	List Price
PC10-1/2	PVC	1/2" IPS	100	$ **2.67**
PC10-3/4	PVC	3/4" IPS	90	2.50
PC10-1	PVC	1" IPS	60	3.25
PC10-11/4	PVC	1 1/4" IPS	40	3.71
PC10-11/2	PVC	1 1/2" IPS	30	5.11
PC10-2	PVC	2" IPS	20	6.96
PC10-21/2	PVC	2 1/2" IPS	10	16.43
PC10-3	PVC	3" IPS	4	24.46
PC10-4	PVC	4" IPS	2	33.14
PC10-6	PVC	6" IPS	2	60.54
HW10CTS1/2	CPVC	1/2" CTS	20/360	4.48
HW10CTS3/4	CPVC	3/4" CTS	20/240	5.42



SW Series

Part Number	For Use with Coupling Sizes	Ctn Qty	List Price
Adjustable Strap Wrench			
SW400	1/2" through 4"	10/60	$ 20.39
SW600	1/2" through 6"	10/60	23.18

Compression Fittings, Galvanized

Galvanized Long Pattern Compressing Fitting Features:

- Bodies made of steel tubing. (GC 10), malleable iron (GC10C)
- End nuts made of malleable iron.
- Galvanized finish
- Buna-N gaskets on domestic fittings.
- SBR gaskets on GC10C series.
- Maximum rated service temperature for gaskets: 212°F (100° C).

WARNING: Designer and/or contractor must provide suitable anchoring of piping to prevent pull-out from fittings when applications subject piping to external forces such as ground shift and temperature variations that cause linear pipe contraction.

Recommended Maximum Pressure (PSI)

Size	Torque Ft. Lbs	Anchored Piping
1/2"	150	150
3/4"	150	150
1"	225	100
1-1/4"	225	100
1-1/2"	225	100
2"	300	75



GC10C Series

ISO 9002

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Coupling GC10C - Long Pattern - Imported - Malleable Iron, 125 PSI, 120° F

Part Number	Size	Pipe O.D.	Ctn/Case Qty	List Price
GC10C1/2	1/2"	.840	30 / 60	$ 19.60
GC10C3/4	3/4"	1.050	25 / 50	21.96
GC10C1	1"	1.315	15 / 30	25.75
GC10C11/4	1-1/4"	1.660	12 / 24	32.72
GC10C11/2	1-1/2"	1.900	9 / 18	38.76
GC10C2	2"	2.375	14	57.97



GC10 Series

Coupling GC10 - Made in U.S.A. - Steel Tube

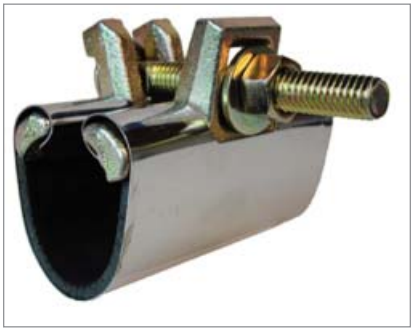
Part Number	Size	Pipe O.D.	Ctn Qty	List Price
GC10-1/2	1/2"	.840	12	$ 32.60
GC10-3/4	3/4"	1.050	12	35.55
GC10-1	1"	1.315	12	41.97
GC10-11/4	1-1/4"	1.660	6	56.05
GC10-11/2	1-1/2"	1.900	6	61.91
GC10-2	2"	2.375	6	77.81



GC12 Series

Adapters GC12 - Made in U.S.A. - Steel Tube

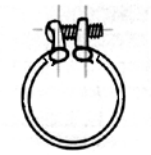
Part Number	Size	Pipe O.D.	Ctn Qty	List Price
GC12-1/2	1/2"	.840	12	$ 45.92
GC12-3/4	3/4"	1.050	12	46.23
GC12-1	1"	1.315	12	48.67
GC12-11/4	1-1/4"	1.660	6	57.86
GC12-11/2	1-1/2"	1.900	6	80.45
GC12-2	2"	2.375	6	80.60



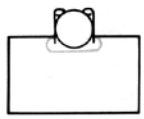
Repair Clamp Features:

- Pipe repair clamps eliminate the need for costly pipe replacement for simple leaks.
- Non-corrosive clamp band is made of annealed stainless steel.
- Nuts and bolts are cadmium plated with a chromate finish; heavy duty hex nut with washer.
- Lugs are made of annealed, malleable iron for maximum strength and permanence; iron phosphate finish.
- Neoprene gasket with maximum rated service temperature of 212° F (100°C).
- Imported

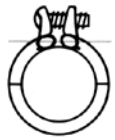
NO LEAD < 0.25% Pb by weighted average



Straight through bolt pull on lugs gives more uniform pressure on the band, more pressure on pipe with less torque on nut.



Oval lug opening in band won't tear - no corners to rip out as with square hole.



Lugs above pipe level don't pull into pipe. Gives more tension on band - more sealing power yet won't crush pipe.



Band covers lead edge of lug. Equal pressure across entire band. No friction - no cutting into pipe surface by raw edge of band opening.

Part Number	Nominal Pipe Size	IPS Pipe O.D.	CTS Tube O.D.	Ctn Qty	List Price
3" Wide, 1 Bolt					
HRC3-3/8	3/8"	.675	.625	6/72	$ 7.40
HRC3-1/2	1/2"	.840	.875	6/72	7.40
HRC3-3/4	3/4"	1.050	1.125	6/72	7.62
HRC3-1	1"	1.315	1.375	6/72	7.97
HRC3-11/4	1 1/4"	1.660	1.625	6/72	9.47
HRC3-11/2	1 1/2"	1.900		6/72	9.73
HRC3-2	2"	2.375		6/72	11.05
HRC3-21/2	2 1/2"	2.875		6/48	11.37
HRC3-3	3"	3.50		6/48	12.73
HRC3-4	4"	4.50		6/24	14.29
6" Wide, 2 Bolts					
HRC6-1/2	1/2"	.840	.875	6/56	13.85
HRC6-3/4	3/4"	1.050	1.125	6/56	14.25
HRC6-1	1"	1.315	1.375	6/56	14.50
HRC6-11/4	1 1/4"	1.660	1.625	6/56	15.68
HRC6-11/2	1 1/2"	1.900		6/56	17.62
HRC6-2	2"	2.375		6/56	19.77
HRC6-21/2	2 1/2"	2.875		6/24	21.28
HRC6-3	3"	3.50		6/24	22.44
HRC6-4	4"	4.50		6/24	24.03

Couplings, Caps - Flexible & No-Hub



Coupling, Cap Features:

- Flexible couplings for joining all types of sewer pipe, including transitions from one type to another.
- NO-HUB couplings for joining cast iron pipe sections
- End Caps for capping cast iron, steel, PVC and ABS pipe.
- 300 Series stainless steel clamps
- Meets IAPMO File #0317, BOCA ESI RR#90-68, SBCCI PST&ESI Report #9483B
- CSA Approved



C Series



MR Series



MRTC Series



07 Series

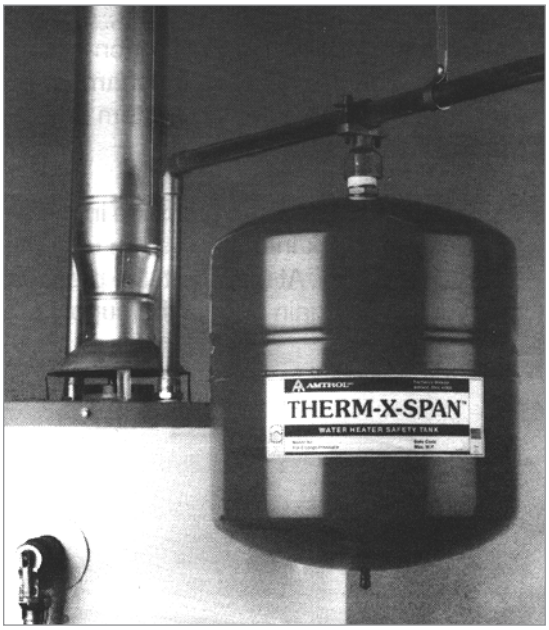
Part Number	Size	Connection	Ctn Qty	List Price
NO HUB COUPLINGS				
C150C	1 1/2 X 1 1/2	CI X CI	100	$ 11.37
C200C	2 X 2	CI X CI	100	11.37
C300C	3 X 3	CI X CI	100	13.63
C400C	4 X 4	CI X CI	100	16.04
FLEXIBLE COUPLINGS				
MR0244	4 X 4	CLAY X CI/PL	18	14.23
MR56125	1 1/2" Tubing, Copper or 1 1/4" PL to Same		24	7.31
MR5615	1 1/2 x 1 1/2	CI/PL X CI/PL	24	7.83
MR5622/125	2 x 1 1/4	CI/PL x CI/PL	24	8.12
MR56215	2 X 1 1/2	CI/PL X CI/PL	24	8.93
MR5622	2 X 2	CI/PL X CI/PL	24	8.44
MR56315	3 x 1 1/2	CI/PL x CI/PL	24	14.92
MR5632	3 X 2	CI/PL X CI/PL	24	10.54
MR5633	3 X 3	CI/PL X CI/PL	18	11.39
MR5642	4 x 2	CI/PL x CI/PL	18	19.88
MR5643	4 X 3	CI/PL X CI/PL	18	15.37
MR5644	4 X 4	CI/PL X CI/PL	24	14.28
MR5655	5 X 5	CI/PL X CI/PL	14	24.14
MR5664	6 x 4	CI/PL x CI/PL	10	35.88
MR5666	6 X 6	CI/PL X CI/PL	12	30.54
DRAIN PIPING TO TUBULAR TRAP *				
MRTC150	1 1/4" x 1 1/2"		24	4.99
MRDTC150	1 1/4" or 1 1/2" x 1 1/4" or 1 1/2"		24	6.11
MRDTC215	2" x 1 1/4" or 1 1/2"		24	8.06
* Any combination of 1 1/4" or 1 1/2" tubular drain (plastic, tubular or copper)				
END CAPS				
0701-011	1 1/2"		24	4.37
0702-019	2"		24	5.14
0703-017	3"		24	6.50
0704-015	4"		24	8.31
0705-020	5"		20	11.13
0706-028	6"		12	11.46

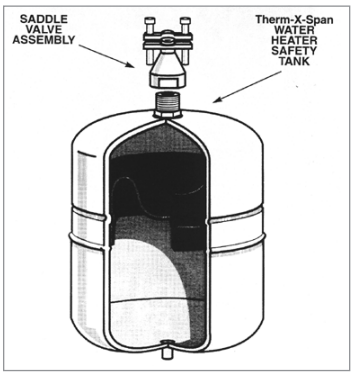
American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204





THERM-X-SPAN™
Hot Water Heater Safety Expansion Tank

THERM-X-SPAN™ tanks are diaphragm-type, pre-pressurized expansion tanks specifically designed for use with domestic hot water heaters. They act as a safety tank to accept the increased volume of water created when a water storage tank is heated, therefore keeping the system below the relief valve setting. These tanks are recommended in areas where a backflow preventer, check valve or pressure reducing valve is used, creating a closed system.

Features and Benefits:
- Eliminates relief valve spillage
- Controls pressure build-up
- Protects plumbing fixtures
- Smothers water hammer
- Extends water heater life
- Eliminates hot water waste

Specifications:
- Steel shell
- Polypropylene liner, butyl diaphragm
- Brass system connection on G5 and G12
- Stainless steel connection on ST25V, ST30V and ST42V
- 200° F maximum operating temperature
- 150 PSI maximum working pressure
- 40 PSI factory precharge

ANSI/NSF 61

IAPMO

REPORT #93126

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

City of Los Angeles Approved

Part Number	Configuration	Tank Volume	System Connection	Dimensions Diameter	Height	Weight	List Price
G5	IN-LINE	2 gal	3/4" NPTM	8"	12 5/8"	5 lbs.	$ **161.56**
G12	IN-LINE	4.4 gal	3/4" NPTM	11"	15"	9 lbs.	**216.76**
ST25V	STAND	10.3 gal	1" NPTF	15 3/8"	19 1/4"	23 lbs.	**643.32**
ST30V	STAND	14.0 gal	1" NPTF	15 3/8"	23 7/8"	25 lbs.	**788.18**

Air Purgers, Vents, Water Hammer Arrestors



443

Air Purger Features:

- Reliable and continuous air separation with maintenance free operation.
- Designed using a double water passage way with internal contours and baffles.
- Efficiently separates air from water sending it to the vent for removal.
- In-line unit –– one piece cast iron construction.
- Individually packaged.



700-C

Float Type Air Vent Features:

- Designed to be installed at the hydronic system high points on heaters and baseboard convectors directly on top of the air purger.
- Improves system efficiency.
- Compact size to fit the smallest spaces.
- Rugged cast bronze body construction for durability.
- Industry proven servicable design with take-apart feature.
- Individually packaged.



500

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Mini Trol® Water Hammer Arrestor Features:

- Intercepts surges in water lines, preventing damage and annoying shock waves set in motion by quick closing valves.
- Polypropylene liner and diaphragm totally separates water from body.
- Guaranteed not to waterlog or lose air.
- Max. Supply Pressure: 90 psi; Max. Working Pressure: 150 psi;
- Max. Water Temperature: 200°F

Air Purger Part Number	Pipe Size	Dimensions(Ins.) "L"	"W"	"H"	Tank Conn	Vent Conn	Ctn Qty	List Price
443-1	1"	6	2-1/2	4	1/2 FIPT	1/8 FPS	1	$ 66.96
444-11/4	1-1/4"	6	2-1/2	4	1/2 fipt	1/8 fps	1	69.01
445-11/2	1-1/2"	8	3-1/2	5	1/2 fipt	1/8 fps	1	147.48
446-2	2"	8	3-1/2	5	1/2 fipt	1/2 fps	1	168.16

Air Vent Part Number	Maximum PSI	Maximum Temp	Connection	Ctn Qty	List Price
700-C	150 PSI	230 °F (110 °F)	1/8 MPS (NPTM)	1	$ 30.66

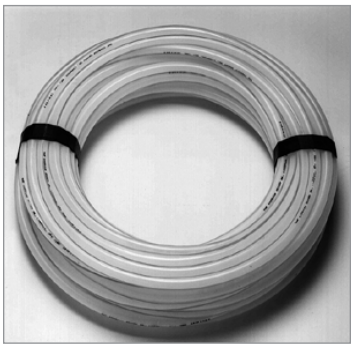
Mini Trol® Part Number	Description	Connection	Ctn Qty	List Price
500	Mini Trol	1/2 Male	24	$ 79.93

American Granby

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Polyethylene Tubing Features:

- Conforms to FDA, NSF and USDA Standards.
- Temperature Range -100º F to +140º F
- Economical.
- Extremely Flexible.
- Translucent.
- Resists Corrosion.
- **NOT FOR USE WITH HOT WATER**

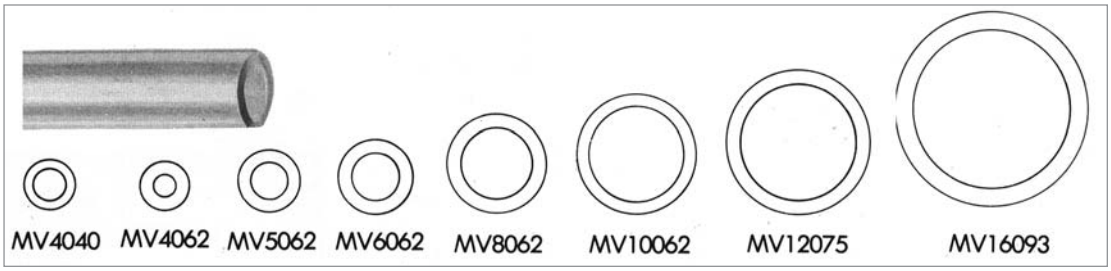
LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

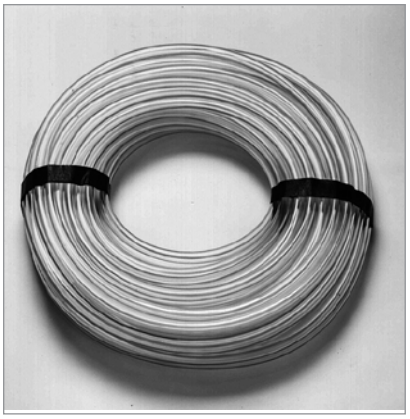
- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
  Ex: For 500' of MV4040-5 order Qty 1 MV4040-5

Part Number Bulk Boxed	Part Number Dispenser Box	OD	ID	Wall Thickness	Max PSI @ 70ºF	Coil Length	List Price Per Coil
MV4040-1BLACK		1/4"	.17"	0.04"	135	100'	$ 25.62
MV4040-1		1/4"	.17"	0.04"	135	100'	28.18
MV4040-5		1/4"	.17"	0.04"	135	500'	140.95
MV4040M		1/4"	.17"	0.04"	135	1000'	281.92
MV4062-1		1/4"	1/8"(.125)	1/16"(.062)	180	100'	32.02
MV4062-5		1/4"	1/8"(.125)	1/16"(.062)	180	500'	160.14
MV4062M		1/4"	1/8"(.125)	1/16"(.062)	180	1000'	320.28
MV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	140	100'	44.62
MV5062-5		5/16"	3/16"(.1875)	1/16"(.062)	140	500'	223.06
MV5062M		5/16"	3/16"(.1875)	1/16"(.062)	140	1000'	446.15
MV6062-1		3/8"	1/4"(.250)	1/16"(.062)	120	100'	53.38
MV6062-5		3/8"	1/4"(.250)	1/16"(.062)	120	500'	274.03
MV6062-5BLACK		3/8"	1/4" (.250	1/16"(.062)	120	500'	274.03
MV6062M		3/8"	1/4"(.250)	1/16"(.062)	120	1000'	544.63
MV8062-1		1/2"	3/8"(.375)	1/16"(.062)	90	100'	76.51
MV8062-5		1/2"	3/8"(.375)	1/16"(.062)	90	500'	382.56
MV10062-1		5/8"	1/2"(.500)	1/16"(.062)	70	100'	96.58
MV10062-5		5/8"	1/2"(.500)	1/16"(.062)	70	500'	483.01
MV12075-1		3/4"	.6	.075	60	100'	133.22
MV16093-1		1"	.814	3/32" (.094)	55	100'	**221.09**
	TP308	1/4"	.17"	0.04"		100'	$ 40.64
	TP309	5/16"	3/16"(.1875)	1/16"(.062)		100'	37.26
	TP310	3/8"	1/4"(.250)	1/16"(.062)		100'	64.82
	TP311	1/2"	3/8"(.375)	1/16"(.062)		100'	90.60

POLYETHYLENE TUBING SIZING GUIDE



Tubing - Clear Vinyl



Vinyl Tubing Features:

- Temperature Range -20° F to +150° F
- Flexible.
- Transparent.
- Tasteless.
- Non-Toxic.
- **NOT FOR USE WITH HOT WATER**

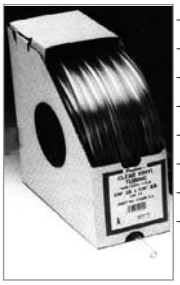
LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

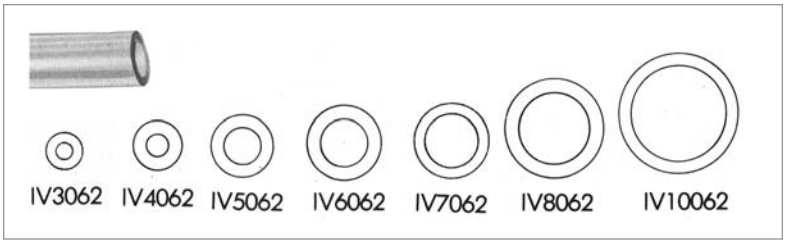
Applications:

- Pool slides
- RV use cold water
- Water softeners
- Ice maker
- Livestock
- Food & Beverage

- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
  Ex: For 500' of IV7062-5 order Qty 1 IV7062-5

Part Number Bulk Box	Dispenser Box	OD	ID	Wall Thickness	Length	List Price Per Coil
IV4062-1		1/4”	1/8”(.125)	1/16”(.062)	100'	$ 55.43
IV5062-1		5/16”	3/16”(.1875)	1/16”(.062)	100'	70.02
IV6062-1		3/8”	1/4”(.250)	1/16”(.062)	100'	87.47
IV7062-1		7/16”	5/16”(.3125)	1/16”(.062)	100'	88.61
IV8062-1		1/2”	3/8”(.375)	1/16”(.062)	100'	112.24
IV10062-1		5/8”	1/2”(.500)	1/16”(.062)	100'	152.00
	TV308	1/4”	1/8”(.125)	1/16”(.062)	100'	49.60
	TV309	5/16”	3/16”(.1875)	1/16”(.062)	100'	54.88
	TV310	3/8”	1/4”(.250)	1/16”(.062)	100'	69.95
	TV311	1/2”	3/8”(.375)	1/16”(.062)	100'	92.14
	TV3125	5/8”	1/2”(.500)	1/16”(.062)	100'	118.86
	TV313-1	7/8”	5/8”	1/8”	100’	282.96
	TV314	1”	3/4”	1/8”	50’	176.21
	TV315	1 1/4”	1”	1/8”	50’	219.15

VINYL TUBING SIZING GUIDE



American Granby
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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

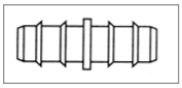
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Barb Fitting Features:

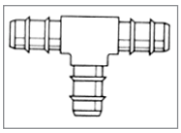
- Superior NO LEAD brass fittings for soft plastic tubing for oil, water, air, vacuum, gas and liquid low pressure lines.
- Exclusive self-clinching double barbs actually tighten under strain.

Compression Fitting Features:

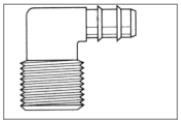
- NO LEAD Brass compression fittings designed for plastic tubing.
- Built-in tube support prevents tube collapse and allows easy assembly.



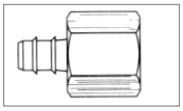
VT22



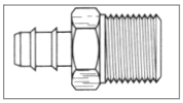
VT224



VT229



VT26

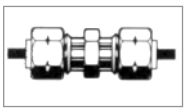


VT28

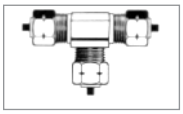
Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty	List Price
Coupling (Ins x Ins)					
VT22-4-4NL	3/8"	1/4"		Bulk	$ 4.13
VT22-6-6NL	1/2"	3/8"		Bulk	5.15
Tee (Ins x Ins x Ins)					
VT224-6NL	1/2"	3/8"		Bulk	13.06
Elbow (Ins x MIP)					
VT229-4-4NL	3/8"	1/4"	1/4" mip	Bulk	11.58
VT229-6-4NL	1/2"	3/8"	1/4" mip	Bulk	10.20
Female Adapter (Ins x FIP)					
VT26-6-4NL	1/2"	3/8"	1/4" fip	Bulk	6.68
Male Adapter (Ins x MIP)					
VT28-4-2NL	3/8"	1/4"	1/8" mip	Bulk	3.88
VT28-4-4NL	3/8"	1/4"	1/4" mip	Bulk	5.51
VT28-6-4NL	1/2"	3/8"	1/4" mip	Bulk	6.28

Fittings for Plastic Tubing - NL Brass

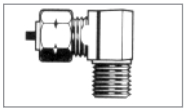
NO LEAD
< 0.25% Pb by weighted avg
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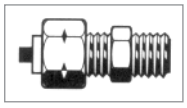
VT62



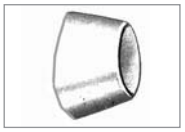
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VT69



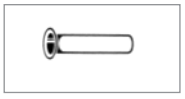
VT68



VT60



VT61



VT63

Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty	List Price
Union w/ inserts (Comp x Comp)					
VT62-4NL	1/4" x 1/4"	.17"		Bulk	$ 10.19
Tee w/ inserts (Comp x Comp x Comp)					
VT64-4NL	1/4" x 1/4" x 1/4"	.17"		Bulk	15.29
Male Elbow w/ inserts (Com x MIP)					
VT69-4-4NL	1/4"	.17"	1/4" mip	Bulk	17.43
Male Connector w/ inserts (Comp x MIP)					
VT68-4-4NL	1/4"	.17"	1/4" mip	Bulk	9.48
VT68-6-4NL	3/8"	1/4"	1/4" mip	Bulk	10.19
Delrin Sleeve					
VT60-4	1/4"			Bulk	0.49
VT60-6	3/8"			Bulk	0.82
Nut					
VT61-4NL	1/4"			Bulk	1.43
VT61-5NL	5/16"			Bulk	1.79
VT61-6NL	3/8"			Bulk	1.99
Tube Support					
VT63-4NL	1/4"	.17"		Bulk	0.51
VT63-6NL	3/8"	1/4"		Bulk	0.97

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Clear Braided PVC Hose
Standard Wall, Class 125 Features:

- Flexible, see through clear hose with braid pattern reinforcement of two polyester spirals.
- Flexible clear PVC NSF 51 certified to 100°F (38°C), USP CLASS V1 rated.
- All hose compound ingredients used are listed in US FDA CFR, Title 21.
- Temperature range + 25° to 150° F / -5° to +65°C.
- Silicone free.
- Food and beverage grade, standard wall.
- Use for air, water lines.

NO LEAD ✓ LEAD-FREE

NSF

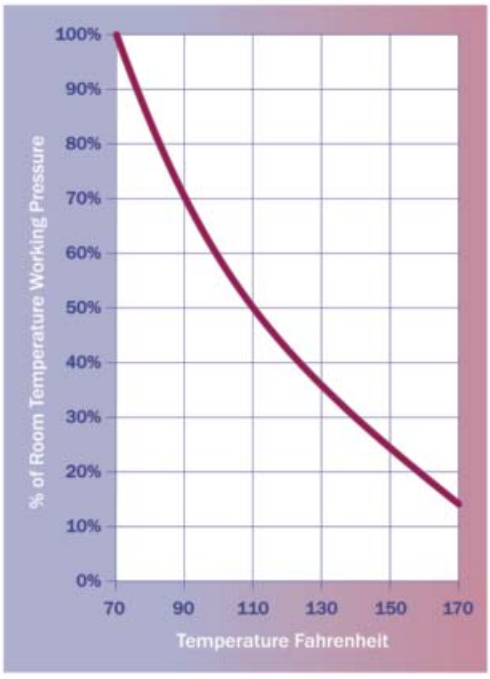
Part Number	Nominal (inches) ID	OD	Max Working Pressure PSI@68°F	PSI@122°F	Reel Length	Approx Wt per CFT.	List Price Per Reel
CBH25-1	1/4	0.438	250	105	100'	5.7 lbs	$ **127.68**
CBH38-1	3/8	0.594	225	97	100'	9.0 lbs	**177.94**
CBH50-1	1/2	0.750	200	86	100'	13.8 lbs	**244.32**
CBH58-1	5/8	0.875	200	86	100'	16.5 lbs	**290.94**
CBH75-1	3/4	1.030	150	65	100'	21.9 lbs	**366.43**
CBH100-1	1	1.300	125	54	100'	31.5 lbs	**454.88**
CBH100-2	1	1.300	125	54	200'	31.5 lbs	**850.25**
CBH125-50	1 1/4	1.625	100	43	50'	45.0 lbs	**447.99**
CBH125-1	1 1/4	1.625	100	43	100'	45.0 lbs	**896.01**
CBH150-50	1 1/2	1.937	100	43	50'	64.0 lbs	**570.01**
CBH150-1	1 1/2	1.937	100	43	100'	64.0 lbs	**1139.98**
CBH200-1	2	2.490	75	33	100'	95.0 lbs	**1829.08**

**** Temperatures higher than 68° F reduce available working pressure. See next page for temperature, working pressure calculation chart and cautionary note.**

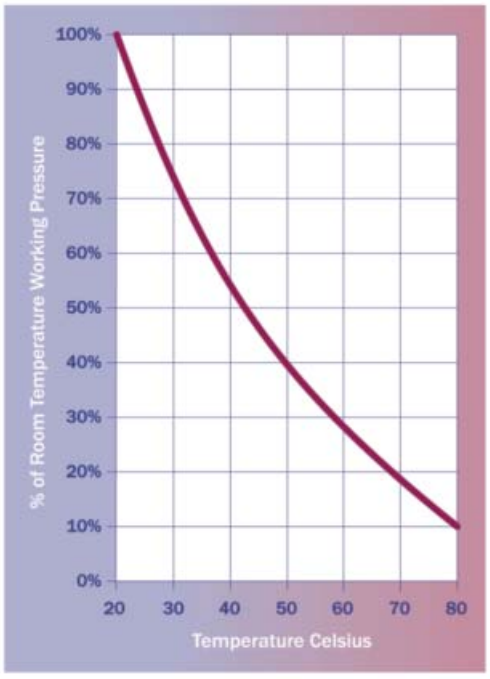
Effects of Elevated Temperatures on Thermoplastic Hose.

The compounds used in clear braided PVC hose are generally referred to as thermoplastics. These materials achieve their optimum physical properties at room temperature, 68ºF (20ºC). As these materials are exposed to increased ambient temperatures, they will soften and their physical properties will change. This will have the effect of sharply reducing the available working pressure. Coupling retention will also be reduced. The charts below illustrate this effect. In all cases, the product should be tested in a controlled, secure and safe environment, and all operating conditions should be considered prior to use.

All published working pressures of AGI Series CBH hose are based on a room temperature of 68ºF (20ºC).



Example from the Fahrenheit Chart
If working pressure at 68ºF is 200 psi, then the WP at 110ºF is 200 x 50%, or 100 psi



Example from the Celsius Chart
If working pressure at 20º is 14 bar, then the WP at 50ºC is 14 x 50%, or 5.6 bar

CAUTIONARY NOTE

The charts are to used as a guideline only. The information and recommendations contained here are, to the best of our manufacturer's knowledge, accurate and reliable, but no guarantee of their accuracy is made. All products are sold upon the condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses, and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Variability in length of exposure, temperature, pressure, velocity of fluid, and chemical concentration all contribute to reduced working pressure and hose reliability.

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HARVARD Garbage Disposal Wiring Kit Features:

- Complete with 3 wire nuts and one SE/U oval cable connector.
- 6' long, 16 gauge, 3 conductor wire cord.
- Polybagged with header card.



Part Number	Description	Ctn Qty	List Price
HGDWK6ST	Kit w/ 6' cord straight plug	24	$ 21.19
HGDWK6RA	Kit w/ 6' cord right angle plug	24	21.19



PTC163-6 Series

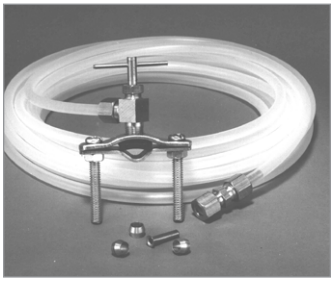
HARVARD Garbage Disposal Cord Features:

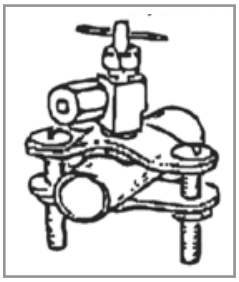
- Three prong straight or 90 degree (right angle) molded plugs.
- 16 gauge, 3 conductor.
- 13 amp, 125 Volt rating.
- Six foot length. Free end is split, stripped 3/8".
- SJTW Indoor/Outdoor rated.
- UL and CSA listed in US and Canada.



Part Number	Description	Ctn Qty	List Price
PTC163-6ST	Straight plug cord	50	$ 13.61
PTC163-6RA	Right angle plug cord	50	13.61

Saddle Tapping Valve, Iron Out®





NO LEAD
< 0.25% Pb
by weighted
average

NO LEAD Brass Saddle Tap Valve & Kit Features:

- Self piercing tap valve and clamp for 3/8" to 1" OD copper tube or 3/8" to 3/4" iron pipe.
- Plastic sleeve, brass compression nut and brass or no lead brass insert (for reinforcing polyethylene tubing).
- Brass compression union for connecting polyethylene tubing to 1/4" water inlet at refrigerator, humidifier or cooler.
- 25 feet of 1/4" OD polyethylene tubing.
- The saddle tap valve eliminates plumbing connections and fittings.
- Supplies water to most humidifiers, evaporative coolers and refrigerators with automatic ice maker or water dispenser in door.
- Use for installation of Reverse Osmosis and Chemical Contaminant Filter Systems.
- For use on copper tube or iron pipe.

Part Number	Description	Ctn Qty	List Price
HTVK381NL	NO LEAD Brass Tapping Valve Kit fits 3/8" -1" OD copper tube or 3/8"-3/4" iron pipe	6	$ 27.82
PFSTVNL	No Lead Brass Saddle Tapping Valve Only	10	8.78



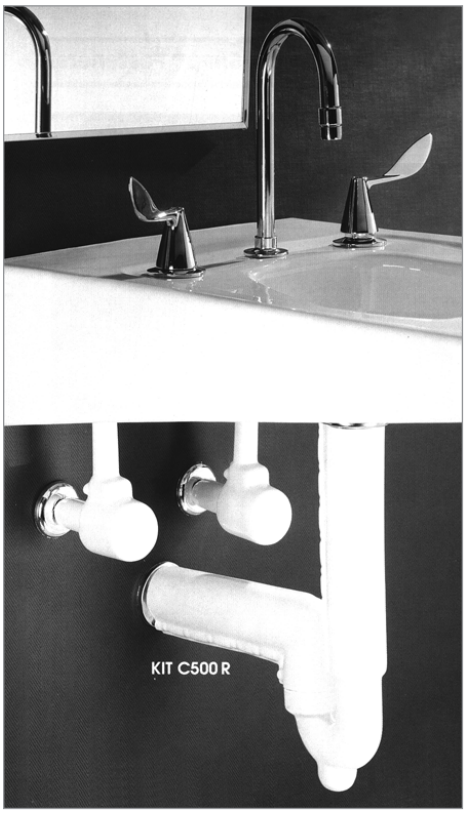


Super Iron Out

Removes the toughest rust and iron stains quickly and easily from white clothes, laundry, toilets, sinks, tubs, dishwashers, exterior surfaces and much more. Also keeps water softeners clean and operating at peak efficiency.

Part Number	Description	Ctn Qty	List Price
IOUT30	Iron Out, 28 oz.	6	$ 15.55
IOUT5	Iron Out, 76 oz.	6	39.77

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HC500R Series

Trap Wrap™ brand insulation kits offer an economical way to professionally insulate exposed undersink piping. Integrally molded fasteners press together to provide an easy, seamless, retrofit installation.

Trap Wrap™ Features:

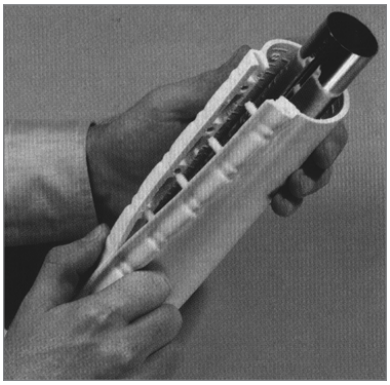
- Press-snap™ fasteners.
- Molded-in measurements.
- A.D.A. compliant.
- China White in color.
- Removable for service.
- Completely covers pipes and supplies.
- Sanitary surface.
- 2 piece P-trap assembly, 1 piece angle valve.
- Patented.

Satisfies the following requirements:

- A.D.A article 4.19.4
- A.N.S.I. A117.1
- California article P.1504B
- B.O.C.A. article P1203.4

Part Number	Description	Ctn Qty	List Price
HC500R	Standard Trap Wrap	15	$ 112.55
HC500RHS	Trap Wrap with extra sink bend	15	151.02

TrapWrap is a trademark of Brocar Products, Inc.



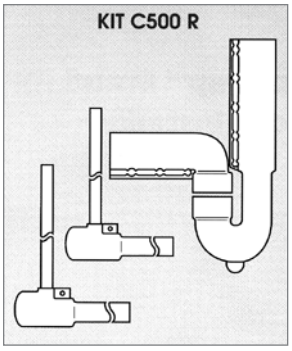
- **Virtually seamless for enhanced appearance**
- **Reinstallable after service**
- **Highly tamper resistant**
- **Easily cleaned.**

Angle valve cover allows for easy and quick emergency shut-off without removing cover

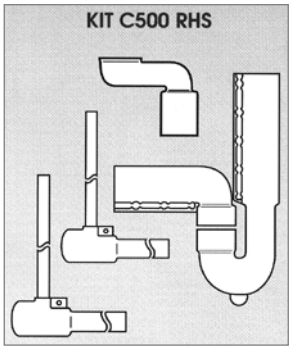


Trap Wrap ™

Formerly Brocar Products, Inc.



Includes 15” tail piece and trap cover, 8” waste arm insulation, fasteners, and hot and cold angle valve cover.



Includes all parts of HC500R plus C500HS off-set grid drain cover.

ASTM DATA		
ASTM G21	Anti-Bacterial	No measurable bacterial growth
ASTM G22	Anti-Fungal	No measurable fungal growth
ASTM D635	Burning Characteristics	Less then 5 sec (ATB) 10 MM (AEB)
ASTM C177	Thermal conductivity	BTU - in/hr - ft2 - °F k value = 1.02

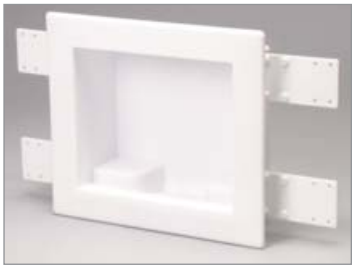
Sample Specification:

Wheelchair accessible lavatories and sinks shall be insulated with TrueBro Trap Wrap™ Insulation Kit (indicate model #, color and accessories). Trap assemblies shall have vinyl insulating outer shell with concealed integral fasteners for a virtually seamless finished installations. Angle stop covers shall permit unrestricted access to angle valves without removal of cover.

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Washer Box

Washer Box Features:

- Center drain or dual drain.
- High impact polystyrene.
- 4 support brackets.
- Easy drain knockout.
- Top mount knockouts
- Box dimensions: 8 3/4" w x 7 1/2" h x 3 5/8" d
- Faceplate dimensions: 11 3/4" w x 10 1/8" h

Part Number	Valve Connection	Valve Type	Drain	Ctn Qty	List Price
Standard Washer Boxes					
38100	1/2" Sweat	1/4 turn brass ball valves	Center	12	$ 82.51
38104	1/2" PEX	1/4 turn brass ball valves	Center	12	88.79
Dual Drain Washer Boxes					
38200	1/2" Sweat	2X4 Single Lever ball valves	Dual	12	98.13



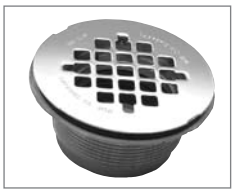
General Purpose

General Purpose & Shower Drain Features:

- Universal 4 1/2" Snap-Tite Strainer.
- Mechanically attach or solvent weld over 2" DWV pipe.
- No-Calk drain is designed for use with preformed shower bases and is ideal for slab construction.
- Solvent Weld drain body is sealed to shower base with rubber gasket and fiber slip washer.



42097 Shower Drain



42099 Shower Drain

Shower Drain for Tile Base Features:

- Designed for use on built-up shower bases of tile, marble, where a shower pan liner is used.
- Reversible clamping collar is secured with stainless steel bolts into brass inserts to prevent slipping.
- Low profile design for use in tight spaces.
- Solvent welds over 2" or inside 3" Sch 40 DWV.
- Universal 4 1/4" Screw-Tite strainer.

Part Number	Material	Description	Size	Ctn Qty	List Price
General Purpose Drains					
43583	PVC	Drain w/ 5" stainless steel Screw-Tite strainer	3" or 4"	12	$ 28.53
43601	PVC	Drain w/ 5" nickle alloy grate	3"or 4"	12	47.36
43599	PVC	Drain w/ 5" brass grate and metal ring	3" or 4"	12	62.41
Shower Drains					
42097	PVC	Solvent weld drain w/ stainless steel strainer	2"	12	21.21
42099	PVC	No caulk drain w/ stainless steel strainer	2"	12	26.73
Shower Drain for Tile Shower Bases					
42213	PVC	Drain w/ round stainless steel Screw-Tite strainer	2" or 3"	12	31.23

Closet Flanges & Gaskets



43503



43513



43500

Level Fit Closet Flange Features:

- 3” or 4” all plastic flange solvent welds inside of 4” or over 3” Sch 40 DWV pipe.
- Four mounting slots.
- Four countersunk holes for secure attachment to the floor.

Level Fit Closet Flange with metal ring Features:

- The metal ring provides added strength and cracking resistance to the flange and can be rotated to allow precise alignment of bolts and screws.
- 3” or 4” flange solvent welds inside of 4” or over 3” Sch 40 DWV pipe.

Level Fit Offset Closet Flange with metal ring Features:

- The metal ring provides added strength and cracking resistance to the flange and can be rotated to allow precise alignment of bolts and screws.
- 3” or 4” flange solvent welds inside of 4” or over 3” Sch 40 DWV pipe.
- 2” offset allows a margin of error for drain pipe/flange alignment.

Part Number	Material	Description	Size	Ctn Qty	List Price
Closet Flanges					
43505	PVC	Plastic ring closet flange w/ KO	3” x 4”	12	$ 8.62
43503	PVC	Plastic ring closet flange	3” x 4”	12	7.62
43502	ABS	Plastic ring closet flange	3” x 4”	12	8.13
Closet Flanges with Metal Adjustable Ring					
43513	PVC	Metal ring closet flange	3” x 4”	12	12.59
43512	ABS	Metal ring closet flange	3” x 4”	12	15.32
Offset Closet Flanges					
43501	PVC	Offset closet flange	3” x 4”	12	22.89
43500	ABS	Offset closet flange	3” x 4”	12	32.65



Adjustable Urinal Flange Kit Features:

- Horizontal mounting slots accommodate urinals with 3 1/2” to 7” mount centers.
- Kit includes all bolts, nuts, washers and gaskets.
- Flanges solvent weld into any 2” fitting. They do not weld “over”.

Part Number	Material	Description	Size	Ctn Qty	List Price
43543	PVC	Urinal flange kit	2”	10	$ 45.51



Wax Closet Gasket Features:

- Amber-color.
- Meets Federal specifications HH-C-536A.

Part Number	Description & Material	Size	Ctn Qty	List Price
AGWAX	Standard wax gasket	3”, 4”	48	$ 2.81
AGWAXH	Wax gasket w/Horn	3”, 4”	24	3.59
AGWAXJ	Jumbo wax gasket 1 1/2”	3”, 4”	24	7.04

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Sure-Grip® Test Plug Features:

- Polypropylene construction.
- Fits all types of pipe at nominal sizes.
- Permanent or temporary use.

Part Number	Description	Size	Pipe ID	Ctn Qty	List Price
271158	Sure-Grip® plug	1- 11/2”	1.48” - 1.63”	50	$ 17.40
271208	Sure-Grip® plug	2”	1.89” - 2.09”	50	19.60
271308	Sure-Grip® plug	3”	2.89” - 3.09”	30	12.42
271408	Sure-Grip® plug	4”	3.87” - 4.09”	30	19.29



Techno-Cap Features:

- Heavy duty, PVC, high pressure.
- Easily solvent cemented over end of CWV pipe.
- Will not clog or go down in pipe.

Part Number	Description	Size	Ctn Qty	List Price
33468	Tests 1 1/2” DWV Pipe	1-1/2”	100	$ 0.77
33470	Tests 2” DWV Pipe	2”	100	1.05
33472	Tests 3” DWV Pipe	3”	50	1.55
33474	Tests 4” DWV Pipe	4”	25	1.68



Knock-Out™ Test Cap Features:

- Solvent cements to Sch 40 ABS and PVC DWV pipe.
- Deeper design provides stronger leak-free connections.
- “Tab” feature keeps hands free of solvent cement.
- Will withstand 10 PSI or 30’ head pressure.

Part Number	Description	Size	Ctn Qty	List Price
39100	Knock-Out test cap	1-1/2”	50	$ 1.00
39101	Knock-Out test cap	2”	50	0.93
39102	Knock-Out test cap	3”	50	1.61

Plumbing Specialty Accessories



Tub Box

Tub Box Features:

- Provides a quick, economical & clean way to install tub waste & drain.
- Made of a semi-flexible, very durable plastic polymer.
- Built in cut-out for up to 2” Sch 40 drain.

Part Number	Size	Ctn Qty	List Price
34080	13” x 13” x 6 1/2”	12	$ 28.66



Shower Pan Liner 41597

Shower Pan Liner Features:

- Gray PVC shower pan liner is 40 mil – One roll per case.
- Liner marked in 6” increments for ease of measuring.
- Meets ASTM D-4551.

Part Number	Size	Ctn Qty	List Price
41597	5’ x 40’ 40 mil	1	$ 693.94



Water Heater Pan

Plastic Water Heater Pan Features:

- Recommended for electric water heater protection.
- Pre-drilled to accept 1” or 1 1/2” fittings.
- Manufactured from semi-flexible, tough and durable 0.0625” plastic polymer.

Part Number	Size	Ctn Qty	List Price
34061	20”	12	$ 23.13
34062	22”	12	25.09
34063	24”	12	26.40
34064	26”	12	29.46
34065	30”	12	37.18



Water Heater Stand

Gas Water Heater Stand Features:

- Allows the placement of the water heater tanks 18” above the ground as required by National Fuel Gas Code.
- Constructed of 18 gauge spangled galvanized sheet metal, holds up to 50 gallon water heaters.

Part Number	Size	Ctn Qty	List Price
34057	21” x 21” x 18” high	4	$ 135.01

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Approvals:

Report #93126

File #2326

Thermoplastic Self-Seal Roof Flashing Features:

- Non fading and non cracking rigid black thermoplastic base.
- Slides over pipe - for pitch to 40 degrees.
- 3" self-seal flashing can be used on 3" plastic, copper, steel or cast iron.
- Matte finish blends in better with roof surfaces.

Uni-Seal Flex Self-Seal Flexible Roof Flashing Features:

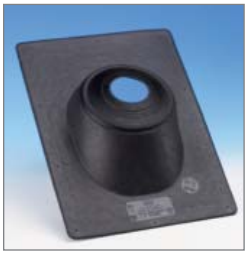
- Flexible base conforms to most flat or contoured roof surfaces including clay tile.
- No caulking needed.
- Slides over pipe - for pitch to 40 degrees.
- Unique dual bead configuration that seizes the vent pipe with a locking grip preventing leaking entirely.

Aluminum Self-Seal Roof Flashing Features:

- Rustproof 0.032 stamped aluminum standard base. Non fading sealing collar.
- Slides over pipe - for pitch to 40 degrees.

Galvanized Base Roof Flashing Features:

- Rustproof, stamped galvanized, 24 to 28 gauge. Non fading sealing collar.
- Slides over pipe - for pitch to 40 degrees.







New Part No	Old Part No.	Description	Size	Ctn Qty	List Price
Thermoplastic Self-Seal Roof Flashings					
11908	14101	Thermoplastic Flashing	1-1/4", 1-1/2"	12	$ 13.01
11909	14102	Thermoplastic Flashing	2"	12	12.80
11910	14103	Thermoplastic Flashing	3"	12	12.61
11919	14185	Thermoplastic Flashing	1 1/2, 2, 3"	12	11.14
11911	14104	Thermoplastic Flashing	4"	12	13.61
Aluminum Self-Seal Roof Flashings					
12920	12101	Aluminum Flashing	1-1/4", 1-1/2"	12	26.27
12933	12102	Aluminum Flashing	2"	12	26.15
12946	12103	Aluminum Flashing	3"	12	28.16
Galvanized Self-Seal Roof Flashings					
11840	12201	Galvanized Flashing	1 1/4", 1 1/2"	20	21.28
11853	12202	Galvanized Flashing	2"	20	21.01
11866	12203	Galvanized Flashing	3"	20	24.21
11871	12209	Galvanized Flashing	1 1/4, 1 1/2, 2, 3"	20	20.45
11879	12204	Galvanized Flashing	4"	20	24.46

Solder Preparation Accessories

Economy Fitting Brush Features:

- Galvanized stem wire with stainless steel bristles.

Standard Fitting Brush Features:

- High carbon crimped steel bristles.
- Two-wire galvanized stem with plastic hanging hole.



FB-E Series



FB Series

Part Number	Description	Ctn Qty	List Price
FB50E	1/2" Economy Fitting Brush	12	$ 2.64
FB75E	3/4" Economy Fitting Brush	12	2.68
FB100E	1" Economy Fitting Brush	12	2.96
FB125E	1-1/4" Economy Fitting Brush	8	3.99
FB150E	1-1/2" Economy Fitting Brush	6	4.33
FB200E	2" Economy Fitting Brush	6	4.76
FB50	1/2" Standard Fitting Brush	12	3.44
FB75	3/4" Standard Fitting Brush	12	3.62
FB100	1" Standard Fitting Brush	12	3.80
FB125	1-1/4" Standard Fitting Brush	8	4.63
FB150	1-1/2" Standard Fitting Brush	6	5.14
FB200	2" Standard Fitting Brush	6	5.48



AC310

Plumber's Abrasive Cloth Features:

- 120 grit.
- Water resistant abrasive cloth.
- Sspecially processed for cleaning copper tubing and fittings.
- As a utility cloth, plumbers find many uses on metal and wood.

Part Number	Description	Size	Ctn Qty	List Price
AC310	120 grit abrasive	11/2" x 10 yards	24 rolls	$ 9.42
OM5	Open Mesh cloth	1 1/2" x 5 yards	24 rolls	13.87
OM10	Open Mesh cloth	1 1/2" x 10 yards	24 rolls	22.96

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101 Series Galvanized Duct Tape

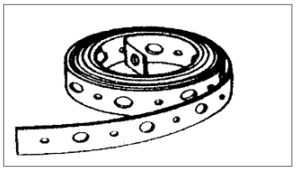
- 24 and 28 gauge
- Alternate 1/4” and 5/16” bolt and nail holes
- 3/4” width

102 Series Plastic Polypropylene Hanger Strapping

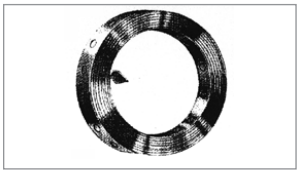
- 1/8” dia. holes
- Max working load - 15# @ 85° F
- Breaking Strength - 100# @ 68° F

100G Series Galvanized or Zinc Plated

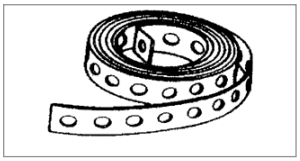
- Perforated hanger strapping
- 20 to 28 gauge
- 1/4” bolt holes
- 3/4” width



101 Series



102 Series



100G and 100S Series

Part Number	Size	Ctn Qty	List Price
101 Series - Galvanized Duct Tape			
101-10	3/4” x 10’ x 24 gauge	50	$ 2.70
101-50	3/4” x 50’ x 24 gauge	10	15.52
101-100	3/4” x 100’ x 24 gauge	5	30.03
101-10-28	3/4” x 10’ x 28 gauge	50	2.39
101-50-28	3/4” x 50’ x 28 gauge	10	14.24
101-100-28	3/4” x 100’ x 28 gauge	5	25.87
102 Series - Plastic Polypropylene			
102-10	3/4” x 10' x .05 gauge	BULK/100	2.42
102-25	3/4” x 25' x .05 gauge	1/40	4.71
102-50	3/4” x 50' x .05 gauge	1/20	12.59
102-100	3/4” x 100' x .05 gauge	1/10	22.50
100G Series - Galvanized or Zinc Plated			
100G-10-24	3/4” x 10’ x 24 gauge	50	2.69
100G-50-24	3/4” x 50’ x 24 gauge	10	15.52
100G-100-24	3/4” x 100’ x 24 gauge	5	30.03
100G-10-28	3/4” x 10’ x 28 gauge	50	2.23
100G-10-22	3/4” x 10’ x 22 gauge	50	3.37
100G-50-22	3/4” x 50’ x 22 gauge	10	18.48
100G-100-22	3/4” x 100’ x 22 gauge	5	34.56
100G-10-20	3/4” x 10’ x 20 gauge	50	3.94
100G-50-20	3/4” x 50’ x 20 gauge	10	20.19
100G-100-20	3/4” x 100’ x 20 gauge	5	23.42
100S Series - Steel Plain			
100S-10-24	3/4” x 10’ x 24 gauge	50	2.39

Clip & Van Hangers

AMTROL INC.

604 Series Insulated Glide Clip Features:

- Specially compounded material wrapped around copper clad steel permits smooth, silent pipe movement.
- Prevents electrolysis and corrosion.
- Resists temperature up to 280° F(137° C). Ideal for hot water heating or supply lines -- eliminates creaking noises made by pipe expanding and contracting against wood surfaces.

606 Series Van Hanger Features:

- Unique design for applications that require space between pipe and mounting surface.
- Copper clad steel, heavy duty metal construction.

608 Series Copper Tube Strap Features:

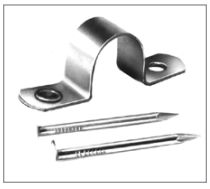
- Copper clad steel; heavy duty metal construction.



604 Series



606 Series



608 Series

Part Number	Size	Mounting Hardware (incl)	Ctn Qty	List Price
Insulated Glide Clips				
604-1/2	1/2"	Copper Clad Nails	10	$ 5.21
604-3/4	3/4"	Copper Clad Nails	10	5.58
604-1	1"	Copper Clad Nails	10	6.99
604-11/4	1-1/4"	Copper Clad Nails	10	7.89
Copper Clad Van Hangers				
606-1/2	1/2"	Copper Clad Screw	20	4.03
606-3/4	3/4"	Copper Clad Screw	20	4.33
606-1	1"	Copper Clad Screw	20	4.72
Copper Tube Straps				
608-1/2	1/2"	Copper Clad Nails	100	0.58
608-3/4	3/4"	Copper Clad Nails	50	0.66
608-1	1"	Copper Clad Nails	50	0.86
608-11/4	1-1/4"	Copper Clad Nails	50	1.03

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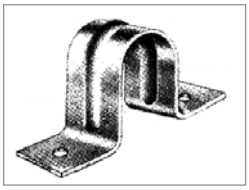
500 Series Copper Clad Tube Straps
- 2 ear and one ear styles

510 Series Copper Clad Tube Straps
- One ear styles

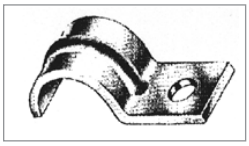
511 Series Plastic Tube Tallon
- Made of polyethylene
- 1/2, 3/4 and 1" sizes available

513 Series Single Shot Hanger
- Plastic with nail

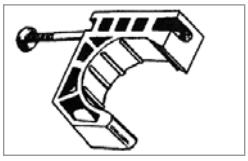
515 Series Suspension Clamp
- Made of polyethylene



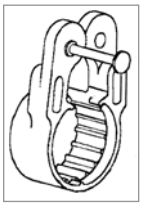
500 Series



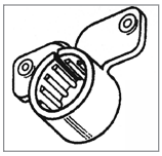
510 Series



511 Series



513 Series



515 Series

Part Number	Size	Ctn Qty	List Price
Copper Clad Tube Straps, TWO HOLE			
500-1/2	1/2"	100	$ **0.14**
500-3/4	3/4"	100	**0.17**
500-1	1"	100	**0.20**
500-11/4	1 1/4"	100	**0.49**
Copper Clad Tube Straps, ONE HOLE			
510-1/4	1/4"	100	0.43
510-3/8	3/8"	100	0.43
510-1/2	1/2"	100	**0.46**
510-3/4	3/4"	100	**0.50**
510-1	1"	100	0.96
510-11/2	1 1/2"	50	2.27
510-2	2"	50	2.65
Tube Tallon Clamp			
511-1/2	1/2"	100	0.23
511-3/4	3/4"	100	0.32
511-1	1"	50	0.86
Suspension Clamp			
513-1/2	1/2"	50	**0.96**
513-3/4	3/4"	50	**1.22**
Suspension Clamp			
515-1/2	1/2"	100	0.47
515-3/4	3/4"	100	0.50
515-1	1"	50	1.45

Pipe Straps

600 Series Galvanized Pipe Straps

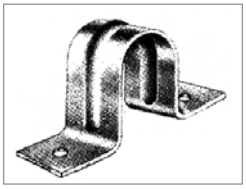
- 2 ear
- 1/2 - 2” sizes available

603 Series Plastic Coated Pipe Straps

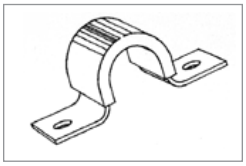
- 2 ear
- 1” - 2” sizes available

610 and 620 Series Galvanized Pipe Straps

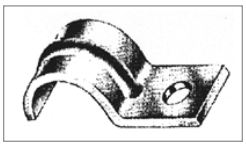
- 1 ear
- 1” - 2” sizes available



600 Series



603 Series



610/620 Series

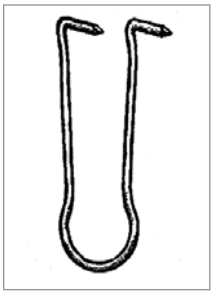
Part Number	Size	Ctn Qty	List Price
Galvanized Pipe Straps			
600-1/4	1/4”	100	$ 0.18
600-3/8	3/8”	100	0.18
600-1/2	1/2”	100	**0.16**
600-3/4	3/4”	100	0.21
600-1	1”	100	**0.36**
600-11/4	1 1/4”	50	**0.46**
600-11/2	1 1/2”	50	**0.54**
600-2	2”	50	**0.81**
600-21/2	2 1/2”	25	**1.34**
600-3	3”	25	**1.69**
600-4	4”	25	2.73
Plastic Coated Pipe Straps			
603-1	1”	50	4.02
603-11/4	1 1/4”	50	4.28
603-11/2	1 1/2”	50	**4.73**
603-2	2”	50	**4.91**
603-3	3”	25	8.57
603-4	4”	25	10.71
603-6	6”	10	28.39
One Hole Pipe Straps			
610-1/4	1/4” Pipe	100	0.25
610-3/8	3/8” Pipe	100	0.32
610-1/2	1/2” Pipe	100	0.37
610-3/4	3/4” Pipe	100	**0.62**
610-1	1” Pipe	100	**0.71**
610-11/4	1 1/4” Pipe	100	1.13
610-11/2	1 1/2” Pipe	50	1.94
610-2	2” Pipe	50	2.27
One Hole EMT Straps			
620-1/2	1/2” EMT	100	**0.35**
620-3/4	3/4” EMT	100	**0.39**
620-1	1” EMT	100	0.48
620-11/4	1 1/4” EMT	100	0.83
620-11/2	1 1/2” EMT	50	**1.15**
620-2	2” EMT	50	2.27

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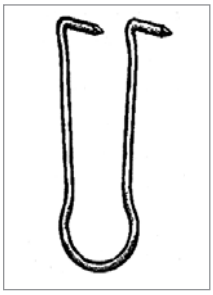
In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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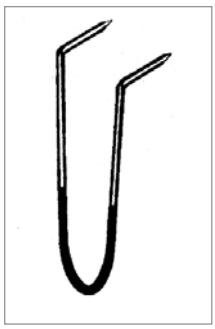
200 S Series Bright Steel
200 C Series Copper Clad
200 P Series Plastic Coated



200S Series



200C Series



200P Series

Part Number	Size (pipe x length)	Ctn Qty	List Price
Bright Steel			
200S-1/2X4	1/2" X 4"	50	$ 0.53
200S-1/2X6	1/2" X 6"	50	0.61
200S-1/2X8	1/2" X 8"	50	0.67
200S-3/4X4	3/4" X 4"	50	0.53
200S-3/4X6	3/4" X 6"	50	0.61
200S-1X4	1" X 4"	50	0.53
200S-1X6	1" X 6"	50	0.61
200S-1X8	1" X 8"	50	0.71
200S-11/4X6	1 1/4" X 6"	50	0.97
200S-11/4X8	1 1/4" X 8"	50	1.09
200S-11/2X6	1 1/2" X 6"	50	0.97
200S-11/2X8	1 1/2" X 8"	50	1.09
200S-2X6	2" X 6"	50	0.97
200S-2X8	2" X 8"	50	1.10
Copper Clad			
200C-1/2X4	1/2" X 4"	50	0.60
200C-1/2X6	1/2" X 6"	50	0.68
200C-1/2X8	1/2" X 8"	50	0.81
200C-3/4X4	3/4" X 4"	50	0.63
200C-3/4X6	3/4"X 6"	50	0.68
200C-3/4X8	3/4" X 8"	50	0.86
200C-1X4	1" X 4"	50	0.63
200C-1X6	1" X 6"	50	0.69
200C-1X8	1" X 8"	50	0.86
200C-11/4X6	1 1/4" X 6"	50	0.68
200C-11/4X8	1 1/4" X 8"	50	0.81
200C-11/2X6	1 1/2" X 6"	50	1.13
200C-11/2X8	1 1/2" X 8"	50	1.17
200C-2X6	2" X 6"	50	1.13
200C-2X8	2" X 8"	50	1.17
Plastic Coated			
200P-1/2X4	1/2" X 4"	50	1.86
200P-1/2X6	1/2" X 6"	50	1.97
200P-3/4X4	1/2" Pipe* x 4"	50	1.86
200P-3/4X6	1/2" Pipe* x 6"	50	1.97
200P-3/4X8	1/2" Pipe* x 8"	50	2.86
200P-1x4	3/4" Pipe* x 4"	50	1.86
200P-1X6	3/4" Pipe* x 6"	50	1.97
200P-1X8	3/4" Pipe* x 8"	50	2.86
200P-11/4X6	1" Pipe * x 6"	50	3.65

* For plastic coated steel pipe hooks, order tube hook of next larger size.
Ex: For 3/4" x 6" pipe use 1" x 6" hook.

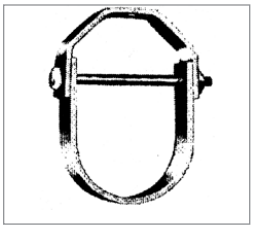
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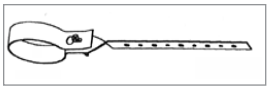
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

DWV Hanger - Galvanized

- Not plastic coated



Clevis



DWV Hanger

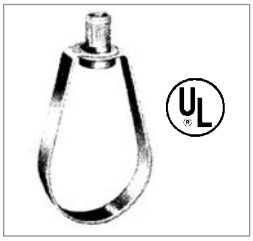
Part Number	Size	Ctn Qty	List Price
Light Clevis			
104-1/2	1/2”	100	$ 1.73
104-3/4	3/4”	100	1.77
104-1	1”	100	1.82
104-11/4	1 1/4”	100	1.94
104-11/2	1 1/2”	100	2.10
104-2	2”	50	2.24
104-21/2	2 1/2”	25	3.91
104-3	3”	25	4.32
104-4	4”	25	5.85
Copperclad Clevis			
406-1/2	1/2”	100	1.99
406-3/4	3/4”	100	2.04
406-1	1”	100	2.38
406-11/4	1 1/4”	100	2.54
406-11/2	1 1/2”	100	2.81
406-2	2”	50	3.37
Standard Clevis, Black			
204-1/2	1/2”	100	1.97
204-3/4	3/4”	100	1.97
204-1	1”	100	2.08
204-11/4	1 1/4”	100	2.38
204-11/2	1 1/2”	100	2.57
204-2	2”	50	2.82
204-21/2	2 1/2”	25	5.52
204-3	3”	25	5.96
204-4	4”	25	7.37
204-5	5”	15	14.10
204-6	6”	10	15.58
204-8	8”	8	24.38
204-10	10”	BULK	65.57
204-12	12”	BULK	71.93
DWV Hanger - Galvanized			
120-11/2	1 1/2”	50	2.47
120-2	2”	50	2.59
120-3	3”	50	2.70
120-4	4”	50	3.10

Adjustable Swivel Ring

- Galvanized, or copperclad
- 1/2" to 4" - 3/8" rod
- 5" to 8" - 1/2" rod

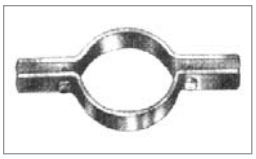
900 All Thread Rod

- 6' length, plain

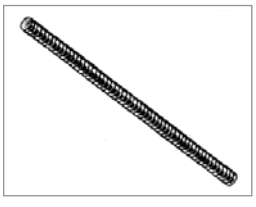


300 Swivel Ring

Part Number	Size	Ctn Qty	List Price
Adjustable Swivel Ring, Galvanized			
300-1/2	1/2"	100	$ 1.60
300-3/4	3/4"	100	1.60
300-1	1"	100	1.69
300-11/4	1 1/4"	100	1.69
300-11/2	1 1/2"	100	1.99
300-2	2"	100	2.15
300-21/2	2 1/2"	50	3.86
300-3	3"	50	4.57
300-4	4"	25	5.85
300-5	5"	20	8.44
300-6	6"	20	9.59
300-8	8"	10	**12.62**
Adjustable Swivel Ring, Copperclad			
301-1/2	1/2"	100	2.67
301-3/4	3/4"	100	2.72
301-1	1"	100	2.82
301-11/4	1 1/4"	100	2.87
301-11/2	1 1/2"	100	2.92
301-2	2"	100	3.20
Riser Clamp, Black			
108-1	1"	25	5.85
108-11/4	1 1/4"	25	6.07
108-11/2	1 1/2"	25	6.85
108-2	2"	25	7.61
108-21/2	2 1/2"	25	8.39
108-3	3"	25	10.16
108-4	4"	25	12.97
108-5	5"	15	19.03
108-6	6"	10	20.03
108-8	8"	BULK	50.36
108-10	10"	BULK	62.95
All Thread Rod			
900-1/4	1/4"	50	5.46
900-3/8	3/8"	25	9.80
900-1/2	1/2"	15	18.52
900-5/8	5/8"	9	31.12
900-3/4	3/4"	6	47.96



108 Riser Clamp



900 Rod

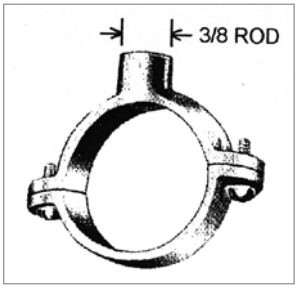
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Split Ring Hangers - Malleable Iron

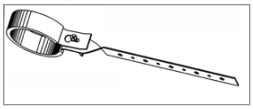
- Galvanized, black or copper clad
- 3/8” to 2” - 3/8” rod
- 2 1/2” to 4” - 1/2” rod



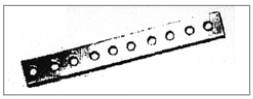
Split Ring Hangers

Part Number	Size	Rod Size	Ctn Qty	List Price
Split Ring Pipe Hanger, Black malleable				
202-3/8	3/8”	3/8"	50	$ 3.71
202-1/2	1/2”	3/8"	50	3.39
202-3/4	3/4”	3/8"	50	3.53
202-1	1”	3/8"	50	3.93
202-11/4	1 1/4”	3/8"	25	4.85
202-11/2	1 1/2”	3/8"	25	6.01
202-2	2’	3/8"	25	6.29
Split Ring Pipe Hanger, Galvanized malleable				
385-3/8	3/8”	3/8"	50	4.15
385-1/2	1/2”	3/8"	50	3.79
385-3/4	3/4”	3/8"	50	4.04
385-1	1”	3/8"	50	4.64
385-11/4	1 1/4”	3/8"	25	5.55
385-11/2	1 1/2”	3/8"	25	7.78
385-2	2”	3/8"	25	7.19
385-21/2	2 1/2”	1/2"	25	16.34
385-3	3”	1/2"	25	19.61
385-4	4”	1/2"	25	26.16
Split Ring Pipe Hanger, Copper Clad, Malleable				
485-3/8	3/8”	3/8"	50	3.30
485-1/2	1/2”	3/8"	50	3.01
485-3/4	3/4”	3/8"	50	3.07
485-1	1”	3/8"	50	3.47
485-11/4	1 1/4”	3/8"	25	4.12
485-11/2	1 1/2”	3/8"	25	4.25
485-2	2”	3/8"	25	5.03
485-21/2	2 1/2”	1/2"	25	16.34
485-3	3”	1/2"	25	19.61
485-4	4”	1/2"	25	26.16

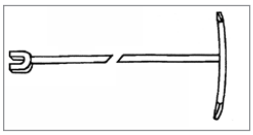
Plastic Pipe Hangers & Accessories



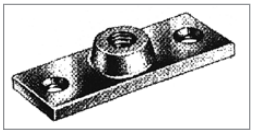
DWV Hanger



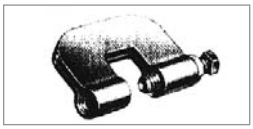
DWV Extension Bar



Stop Keys



Flanges



C Clamps



Top Beam Clamp

Part Number	Size		Ctn Qty	List Price
DWV Hanger Plastic Coated				
220-11/2	1 1/2”		50	$ 5.63
220-2	2”		50	5.89
220-3	3”		50	6.56
220-4	4”		50	7.37
220-6	6”		25	22.02
DWV Extension Bar				
221-3	16 gauge x 3’		25	2.72
Stop Keys				
413-6	6’		6	101.79
413-8	8’		6	145.40
413-10	10’		6	166.55
Ceiling Flanges				
208-3/8BT	3/8” bolt thread, malleable iron		100	**2.01**
389-3/8BT	3/8” bolt thread, galvanized		100	**2.13**
389-1/2BT	1/2” bolt thread, galvanized		100	**5.53**
489-3/8BT	3/8” bolt thread, copper clad		100	**2.48**
C Clamps	**For Pipe Sizes**	**Fits Rods Size**		
122-1/4		1/4” without locknut	50	4.03
122-3/8	1/2" - 2"	3/8” without locknut	100	**4.49**
122-1/2	2 1/2" - 3 1/2"	1/2” without locknut	100	4.91
123-3/8	1/2" - 2"	3/8” with locknut	100	**4.16**
123-1/2	2 1/2" - 3 1/2"	1/2” with locknut	100	**4.74**
123-5/8	4" - 5"	5/8” with locknut	50	**22.13**
123-3/4	6"	3/4” with locknut	50	18.86
Top Beam Clamp , 3/4” Standard Opening				
125-3/8	3/8” rod		100	**3.21**
125-1/2	1/2”rod		100	**4.15**

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601 Series American Tube Hanger Features:

- Designed to utilize scrap 1/2" copper tube for extension.
- Packaged 10 sets (hanger clamp and tube brace).
- Copper clad wood mounting screws are included.

602 Series Insulated Strap Hanger Features:

- Specially compounded material prevents pipe noise from reaching the floor joists.
- Copper clad steel with mounted machine screw and fiber washer.
- Copper clad nails are included.



601 Series



602 Series

Part Number	Pipe Diameter	Fits Extension Tube Size	Mounting Hardware Included	Ctn Qty	List Price
American Tube Hangers					
601-1/2	1/2"	1/2"	Wood Screws	10	$ 4.96
601-3/4	3/4"	1/2"	Wood Screws	10	6.15
601-1	1"	1/2"	Wood Screws	10	7.07
601-11/4	1-1/4"	1/2"	Wood Screws	10	8.58
601-11/2	1-1/2"	1/2"	Wood Screws	10	9.30
601-2	2"	1/2"	Wood Screws	10	9.86
Insulated Strap Hangers	**Hanger Length**				
602-1/2x6	1/2"	6"	Copper Clad Nails	25	7.27
602-1/2x12	1/2"	12"	Copper Clad Nails	25	8.43
602-3/4x6	3/4"	6"	Copper Clad Nails	25	7.42
602-3/4x12	3/4"	12"	Copper Clad Nails	25	8.52
602-1x6	1"	6"	Copper Clad Nails	25	7.61
602-1x12	1"	12"	Copper Clad Nails	25	8.76
602-11/4x6	1-1/4"	6"	Copper Clad Nails	25	7.86
602-11/4x12	1-1/4"	12"	Copper Clad Nails	25	8.81

J-Hook Features:

- Made of high impact ABS for increased load capacity.
- Supports copper, CPVC, drain, waste and vent plastic pipe from joists and rafters.



337 Series

Part Number	Description	Bag/Ctn Qty	List Price
J-Hooks			
33745	1/2" x 4" CTS	25/300	$ 2.07
33746	3/4" x 4" CTS	25/300	2.05
33747	1" x 4" CTS	25/200	2.44
33740	1 1/2" x 7 1/2" DWV	25/300	2.83
33741	2" x 7 1/2" DWV	25/300	2.97
33742	3" x 7 1/2" DWV	25/300	2.93

AMTROL INC.

603 Series Natick Strap Hanger Features:

- Made from copper clad steel, will not rust or rot.
- A tapered end, copper clad machine screw with fiber washer is mounted on every hanger for quick, tumble free installations.
- Can be mounted cross beam or along the beam.
- Copper clad mounting nails are included.



603 Series

Part Number	For Pipe Size	Hanger Length	Mounting Hardware Included	Ctn Qty	List Price
Natick Strap Hangers					
603-1/2x6	1/2”	6”	Copper Clad Nails	25	$ 4.14
603-1/2x12	1/2”	12”	Copper Clad Nails	25	5.08
603-3/4x6	3/4”	6”	Copper Clad Nails	25	4.17
603-3/4x12	3/4”	12”	Copper Clad Nails	25	5.08
603-1x6	1”	6”	Copper Clad Nails	25	4.18
603-1x12	1”	12”	Copper Clad Nails	25	5.31
603-11/4x6	1-1/4”	6”	Copper Clad Nails	25	4.22
603-11/4x12	1-1/4”	12”	Copper Clad Nails	25	5.31

918, 919, 916 and 913 FHA Plates

- 1 1/2" width and 3" width in 18 gauge
- 18, 16 and 13 gauge

530 Stud Guards

- Triangle points
- 1 1/2" width
- 18 gauge

531 Stud Guards

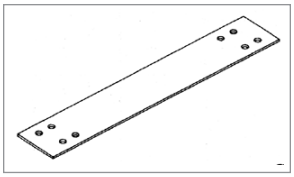
- Triangle points
- 1 1/2" width
- 20 gauge

920 Stud Guards

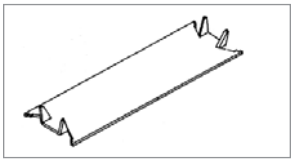
- Twist points
- 1 1/2" width
- 19 gauge

922 Stud Guards

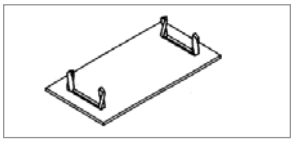
- Interlocking
- 1 1/2" width
- 20 gauge



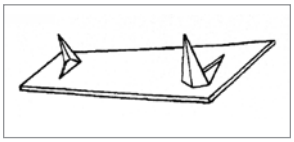
918/916/913 FHA Plates



530 & 531 Stud Guards



920 Stud Guards



922 Stud Guards

Part Number	Size and Gauge	Ctn Qty	List Price
FHA Plates			
918-11/2X9	1 1/2" X 9", 18 gauge	50	$ 0.90
918-11/2X12	1 1/2" X 12", 18 gauge	50	1.13
918-11/2X18	1 1/2" X 18", 18 gauge	50	1.71
916-11/2X9	1 1/2" X 9", 16 gauge	50	1.11
916-11/2X12	1 1/2" X 12", 16 gauge	50	1.56
916-11/2X18	1 1/2" X 18", 16 gauge	50	2.32
913-11/2X9	1 1/2" X 9", 13 gauge	50	1.47
913-11/2X12	1 1/2" X 12", 13 gauge	25	2.19
913-11/2X18	1 1/2" X 18", 13 gauge	25	3.28
919-3X9	3" X 9", 18 gauge	50	1.59
919-3X12	3" X 12", 18 gauge	50	2.12
919-3X18	3" X 18", 18 gauge	50	3.21
Stud Guards			
530-11/2X3	1 1/2" X 3", 18 gauge	100	0.28
530-11/2x5	1 1/2" x 5", 18 gauge	100	0.42
530-11/2X6	1 1/2" X 6", 18 gauge	100	0.46
531-11/2X3	1 1/2" X 3", 20 gauge	100	0.23
531-11/2x5	1 1/2" x 5", 20 gauge	100	0.37
531-11/2X6	1 1/2" X 6", 20 gauge	100	0.39
920-11/2X3	1 1/2" x 3", 19 gauge	100	0.24
920-11/2X6	1 1/2" X 6", 19 gauge	100	0.41
922-11/2X6	1 1/2" X 6", 20 gauge	100	0.42

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SECTION 6A
PEX & RADIANT TUBING, FITTINGS & ACCESSORIES

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Vipert™ Potable Tubing 3
Vipert™ Radiant Tubing 4

- STANDARD AGI DISCOUNTS DO NOT APPLY.
  Contact your sales representative for pricing.

CANPEX™ UV Plus Tubing

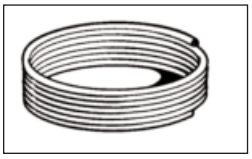


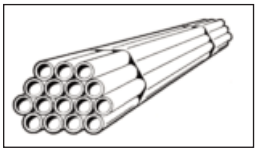
PEX Tubing

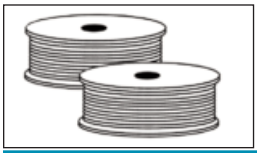
CANPEX™ UV PLUS Tubing Features:

- Single layer PEX in white, red and blue.
- NSF-PW PEX 5306 certification for maximum protection against UV radiation and chlorine resistance.
- 100% continuous hot water recirculation up to 140°F.
- Includes metal deactivation additive to protect against polymer degradation.
- 100 PSI@180°F, 160 PSI@73°F SDR-9
- CSA B137.5
- ASTM F876/F877/F2023
- CL-R/CL-TD
- CAN/ULC S101/UL263, CAN/ULC S102.2-03/UL E84, CTS-OD Coils
- **STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.**

CB PRODUCT CODE #1.
Potable CANPEX PEX Tubing







Part Number WHITE	RED	BLUE	Nominal Size	Coil Length	List Price
CANPEX™ UV PLUS TUBING - COILS					
PX1C1			1/4" (3/8" OD)	100'	$0.50/ft
PX1C5			1/4" (3/8" OD)	500'	0.50/ft
PX1C10			1/4" (3/8" OD)	1000'	0.50/ft
PX2C1	PXR2C1	PXB2C1	3/8" (1/2" OD)	100'	0.67/ft
PX2C2.5	PXR2C2.5	PXB2C2.5	3/8" (1/2" OD)	250'	0.67/ft
PX2C5	PXR2C5	PXB2C5	3/8" (1/2" OD)	500'	0.67/ft
PX2C10	PXR2C10	PXB2C10	3/8" (1/2" OD)	1000'	0.67/ft
PX3C1	PXR3C1	PXB3C1	1/2" (5/8" OD)	100'	0.76/ft
PX3C2.5	PXR3C2.5	PXB3C2.5	1/2" (5/8" OD)	250'	0.76/ft
PX3C3	PXR3C3	PXB3C3	1/2" (5/8" OD)	300'	0.76/ft
PX3C5	PXR3C5	PXB3C5	1/2" (5/8" OD)	500'	0.76/ft
PX3C10	PXR3C10	PXB3C10	1/2" (5/8" OD)	1000'	0.76/ft
PX4C1	PXR4C1	PXB4C1	3/4" (7/8" OD)	100'	1.38/ft
PX4C2.5	PXR4C2.5	PXB4C2.5	3/4" (7/8" OD)	250'	1.38/ft
PX4C3	PXR4C3	PXB4C3	3/4" (7/8" OD)	300'	1.38/ft
PX4C5	PXR4C5	PXB4C5	3/4" (7/8" OD)	500'	1.38/ft
PX4C10	PXR4C10	PXB4C10	3/4" (7/8" OD)	1000'	1.38/ft
PX5C1	PXR5C1	PXB5C1	1" (1 1/8" OD)	100'	2.40/ft
PX5C2.5	PXR5C2.5	PXB5C2.5	1" (1 1/8" OD)	250'	2.40/ft
PX5C3	PXR5C3	PXB5C3	1" (1 1/8" OD)	300'	2.40/ft
PX5C5	PXR5C5	PXB5C5	1" (1 1/8" OD)	500'	2.40/ft
PX5C10			1" (1 1/8" OD)	1000'	2.40/ft
CANPEX™ UV PLUS TUBING - BUNDLED STRAIGHT LENGTHS of 10' or 20'					
	PXR2L10	PXB2L10	3/8"x 20' (1/2" OD)	1000' BDL	0.67/ft
PX3L-S	PXR3L-S	PXB3L-S	1/2"x 10' (5/8" OD)	500' BDL	0.76/ft
PX3L10	PXR3L10	PXB3L10	1/2" x 20' (5/8" OD)	1000' BDL	0.76/ft
PX4L-S	PXR4L-S	PXB4L-S	3/4" x 10' (7/8" OD)	250' BDL	1.38/ft
PX4L5	PXR4L5	PXB4L5	3/4" x 20' (7/8" OD)	500' BDL	1.38/ft
PX5L-S		PXB5L-S	1" x 10' (1 1/8" OD)	100' BDL	2.40/ft
PX5L1	PXR5L1	PXB5L1	1" x 20' (1 1/8" OD)	100' BDL	2.40/ft
PX6L1			11/4" x 20'	100' BDL	**5.10/ft**
CANPEX™ UV PLUS TUBING - MANAPAC REELS				**Price per reel**	
	PXM2R5	PXM2B5	3/8" (1/2" OD)	500'	351.00/reel
	PXM3R3	PXM3B3	1/2" (5/8" OD)	300'	293.37/reel
	PXM4R1	PXM4B1	3/4" (7/8" OD)	100'	248.29/reel

CANPEX™ OXY Oxygen Barrier Radiant PEX



PEX OXY Tubing

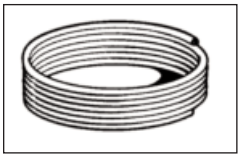
CANPEX™ OXY Oxygen Barrier Tubing Features:

- For use in both residential and commercial hydronic radiant heating systems.
- Extruded with an oxygen barrier layer to prevent system component corrosion.
- Manufactured and tested to the requirements of ASTM F876/F877/F2023 and to CSA B137.5.
- 100 PSI@180°F, 160 PSI@73°F SDR-9 CTS-OD Coils
- DIN 4726 Standard
- Third Party Certified
- CAN/ELC S101/UL 263, CAN/ULC S102.2-3/E84

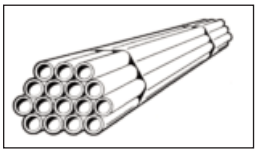
NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

- **STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.**

CB PRODUCT CODE #6.
Radiant CANPEX OXY Tubing



Part Number	Color	Nominal Size	Description	Coil Length	List Price
CANPEX™ OXY Oxygen Barrier Red PEX TUBING - COILS					
PXOB2C3	Red	3/8”	CANPEX™ OXY Tubing	300’	$ 0.77/ft
PXOB2C10	Red	3/8”	CANPEX™ OXY Tubing	1000’	0.77/ft
PXOB3C1	Red	1/2"	CANPEX™ OXY Tubing (5/8" OD)	100'	$ 0.87/ft
PXOB3C2.5	Red	1/2"	CANPEX™ OXY Tubing (5/8" OD)	250'	0.87/ft
PXOB3C3	Red	1/2"	CANPEX™ OXY Tubing (5/8" OD)	300'	0.87/ft
PXOB3C5	Red	1/2"	CANPEX™ OXY Tubing (5/8" OD)	500'	0.87/ft
PXOB3C6	Red	1/2"	CANPEX™ OXY Tubing (5/8" OD)	600'	0.87/ft
PXOB3C10	Red	1/2"	CANPEX™ OXY Tubing (5/8" OD)	1000'	0.87/ft
PXOB3C12	Red	1/2"	CANPEX™ OXY Tubing (5/8" OD)	1200’	0.87/ft
PXOB58C1	Red	5/8”	CANPEX™ OXY Tubing (3/4” OD)	100’	1.46/ft
PXOB58C3	Red	5/8“	CANPEX™ OXY Tubing (3/4" OD)	300'	1.46/ft
PXOB58C4	Red	5/8“	CANPEX™ OXY Tubing (3/4" OD)	400'	1.46/ft
PXOB58C5	Red	5/8“	CANPEX™ OXY Tubing (3/4" OD)	500'	1.46/ft
PXOB58C10	Red	5/8”	CANPEX™ OXY Tubing (3/4" OD)	1000'	1.46/ft
PXOB4C1	Red	3/4"	CANPEX™ OXY Tubing (7/8" OD)	100'	1.74/ft
PXOB4C2.5	Red	3/4"	CANPEX™ OXY Tubing (7/8" OD)	250'	1.74/ft
PXOB4C3	Red	3/4"	CANPEX™ OXY Tubing (7/8" OD)	300'	1.74/ft
PXOB4C5	Red	3/4"	CANPEX™ OXY Tubing (7/8" OD)	500'	1.74/ft
PXOB4C10	Red	3/4"	CANPEX™ OXY Tubing (7/8" OD)	1000'	1.74/ft
PXOB5C1	Red	1"	CANPEX™ OXY Tubing (1 1/8" OD)	100'	3.42/ft
PXOB5C2.5	Red	1"	CANPEX™ OXY Tubing (1 1/8" OD)	250'	3.42/ft
PXOB5C3	Red	1"	CANPEX™ OXY Tubing (1 1/8" OD)	300'	3.42/ft
PXOB5C5	Red	1"	CANPEX™ OXY Tubing (1 1/8" OD)	500'	3.42/ft
PXOB5C10	Red	1"	CANPEX™ OXY Tubing (1 1/8" OD)	1000'	3.42/ft
CANPEX™ OXY Oxygen Barrier Red PEX TUBING - BUNDLED 20’ STRAIGHT LENGTHS					
PXOB3L5	Red	1/2”x20’	CANPEX™ OXY Tubing	500’ BDL	0.87/ft
PXOB4L2	Red	3/4”x20’	CANPEX™ OXY Tubing	200’ BDL	1.74/ft
PXOB5L1	Red	1”x20’	CANPEX™ OXY Tubing	100’ BDL	3.42/ft



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VIPERT™ Potable Tubing



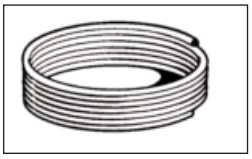
VIPERT™ Potable Tubing Features:

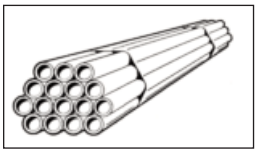
- VIPERT polyethylene raised temperature tubing is based on patented technology and made with Hypertherm PE-RT resins from The Dow Chemical Company.
- VIPERT provides increased flexibility and excellent hydrostatic strength at high temperatures and burst pressures that surpass required industry standards.
- Offers improved flexibility with relaxed memory for less spring back than PEX. Maintains excellent flexibility in extreme cold or hot environments.
- Compatible with all popular fittings systems: F-1960, F-2080, F-1807 and F-2159
- Can be used with cold expansion, crimp, brass and push fittings.
- VIPERT is recyclable and requires less energy to produce than PEX.
- 25 year warranty.
- 100 PSI@180°F, 200 PSI@73°F SDR-9
- CSA B137.18
- ASTM D2769, ASTM E84
- CAN/ULC S101/UL263, CAN/ULC S102.2-03

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

- **STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.**

CB PRODUCT CODE #1.
Potable Tubing





Part Number WHITE	RED	BLUE	Nominal Size	Coil Length	List Price
VIPERT™ POTABLE TUBING - COILS					
PRT3C1	PRTR3C1	PRTB3C1	1/2”	100’	0.76/ft
	PRTR3C2.5	PRTB3C2.5	1/2”	250’	0.76/ft
PRT3C3	PRTR3C3	PRTB3C3	1/2”	300’	0.76/ft
PRT3C5	PRTR3C5	PRTB3C5	1/2”	500’	0.76/ft
PRT3C10	PRTR3C10	PRTB3C10	1/2”	1000	0.76/ft
PRT4C1	PRTR4C1	PRTB4C1	3/4”	100’	1.38/ft
	PRTR4C2.5	PRTB4C2.5	3/4”	250’	1.38/ft
PRT4C3	PRTR4C3	PRTB4C3	3/4”	300’	1.38/ft
PRT4C5	PRTR4C5	PRTB4C5	3/4”	500’	1.38/ft
PRT4C10	PRTR4C10	PRTB4C10	3/4”	1000’	1.38/ft
PRT5C1	PRTR5C1	PRTB5C1	1”	100’	2.40/ft
PRT5C3	PRTR5C3	PRTB5C3	1”	300’	2.40/ft
PRT5C5	PRTR5C5	PRTB5C5	1”	500’	2.40/ft
PRT5C10			1”	1000’	2.40/ft
VIPERT™ POTABLE TUBING - BUNDLED STRAIGHT LENGTHS of 10’ or 20’					
PRT3L-S	PRTR3L-S	PRTB3L-S	1/2” X 10’	500’ BDL	0.76/ft
PRT3L10	PRTR3L10	PRTB3L10	1/2” X 20’	1000’ BDL	0.76/ft
PRT4L-S	PRTR4L-S	PRTB4L-S	3/4” X 10’	250’ BDL	1.38/ft
PRT4L5	PRTR4L5	PRTB4L5	3/4” X 20’	500’ BDL	1.38/ft
PRT5L-S		PRTB5L-S	1” X 10’	100’ BDL	2.40/ft
PRT5L1	PRTR5L1	PRTB5L1	1” X 20’	100’ BDL	2.40/ft
PRT6L1		PRTB6L1	11/4” X 20’	100’ BDL	**5.10/ft**

VIPERT™ Oxy Barrier Radiant Tubing

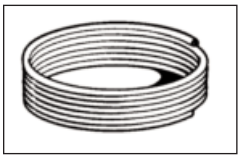


VIPERT™ Oxy Barrier Radiant Tubing Features:

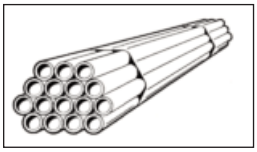
- VIPERT Radiant tubing is polyethylene raised temperature with oxy-barrier. Made with Dowlex PE-RT resins based on patented technology from The Dow Chemical Company.
- It is Ideal for hydronic radiant heating, cooling and snow melting systems utilizing water or a water/glycol mix as the heat or cold transfer medium.
- Offers improved flexibility with relaxed memory for less spring back than PEX. Maintains excellent flexibility in extreme cold or hot environments.
- Compatible with F-1960 and F-2080 cold expansion, crimp or push fittings systems.
- VIPERT is recyclable and requires less energy to produce than PEX.
- 25 year warranty.
- 100 PSI@180°F, 160 PSI@73°F SDR-9 CTS-OD Coils.
- Meets the requirements of ASTM F2623, ASTM E84.
- CAN/ULC-S101, UL 263, CAN/ULC S102.2.

- **STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.**

CB PRODUCT CODE #6.
Radiant Tubing



Part Number	Color	Nominal Size	Description	Coil Length	List Price
VIPERT™ Oxygen Barrier TUBING - COILS					
PRT0B3C1	Green	1/2”	VIPERT Oxy Barrier Radiant	100’	0.87/ft
PRT0B3C2.5	Green	1/2”	VIPERT Oxy Barrier Radiant	250’	0.87/ft
PRT0B3C3	Green	1/2”	VIPERT Oxy Barrier Radiant	300’	0.87/ft
PRT0B3C5	Green	1/2”	VIPERT Oxy Barrier Radiant	500’	0.87/ft
PRT0B3C6	Green	1/2”	VIPERT Oxy Barrier Radiant	600’	0.87/ft
PRT0B3C10	Green	1/2”	VIPERT Oxy Barrier Radiant	1000’	0.87/ft
PRT0B3C12	Green	1/2”	VIPERT Oxy Barrier Radiant	1200’	0.87/ft
PRT0B58C3	Green	5/8”	VIPERT Oxy Barrier Radiant	300’	1.46/ft
PRT0B58C5	Green	5/8”	VIPERT Oxy Barrier Radiant	500’	1.46/ft
PRT0B58C10	Green	5/8”	VIPERT Oxy Barrier Radiant	1000’	1.46/ft
PRT0B4C1	Green	3/4”	VIPERT Oxy Barrier Radiant	100’	1.74/ft
PRT0B4C2.5	Green	3/4”	VIPERT Oxy Barrier Radiant	250’	1.74/ft
PRT0B4C3	Green	3/4”	VIPERT Oxy Barrier Radiant	300’	1.74/ft
PRT0B4C5	Green	3/4”	VIPERT Oxy Barrier Radiant	500’	1.74/ft
PRT0B4C10	Green	3/4”	VIPERT Oxy Barrier Radiant	1000’	1.74/ft
PRT0B5C1	Green	1”	VIPERT Oxy Barrier Radiant	100’	3.42/ft
PRT0B5C3	Green	1”	VIPERT Oxy Barrier Radiant	300’	3.42/ft
PRT0B5C5	Green	1”	VIPERT Oxy Barrier Radiant	500’	3.42/ft
VIPERT™ Oxygen Barrier TUBING - BUNDLED 20’ STRAIGHT LENGTHS					
PRT0B3L5	Green	1/2”x20’	VIPERT Oxy Barrier Radiant	500’ BDL	0.87/ft
PRT0B4L2	Green	3/4”x20’	VIPERT Oxy Barrier Radiant	200’ BDL	1.74/ft
PRT0B5L1	Green	1”x20’	VIPERT Oxy Barrier Radiant	100’ BDL	3.42/ft



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PEX Tubing Installation Accessories

PEX Accessories:

- Approved for use with ASTM F876/F877 SDR-9 PEX plumbing and hydronic radiant heating systems incorporating ASTM F-1807 insert fittings.
- Copper crimp rings manufactured from UNS C10200 or UNS C12200 copper alloy and are annealed to 35-45 Rockwell 15T scale for ease of crimping.



Crimp Rings

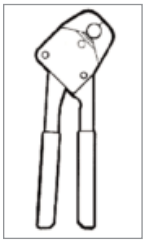


Crimp Sleeves

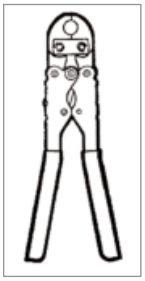
• STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB PRODUCT CODE #7.
Crimp Rings

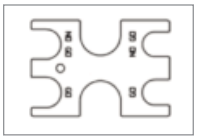
Part Number	Size Description	Bag/Ctn Qty	List Price
COPPER CRIMP RINGS			
CBXCR2	Copper Crimp Ring for 3/8" PEX Tubing	100/2000	$ 0.29
CBXCR3	Copper Crimp Ring for 1/2" PEX Tubing	100/4000	0.47
CBXCR58-B	Copper Crimp Ring Black for 5/8" PEX Tubing	100	0.80
CBXCR4	Copper Crimp Ring for 3/4" PEX Tubing	100/2000	0.65
CBXCR5	Copper Crimp Ring for 1" PEX Tubing	50/250	0.78
CBXCR6	Copper Crimp Ring for 1 1/4" PEX Tubing	100/400	**3.72**
CBXSS3	Stainless Steel Crimp Sleeve 1/2" PEX	50/5000	**0.62**
CBXSS4	Stainless Steel Crimp Sleeve 3/4" PEX	50/3200	**1.12**
CBXSS5	Stainless Steel Crimp Sleeve 1" PEX	25/1600	**1.87**



HCM Crimper



HAD Crimper



HAC34 Caliper



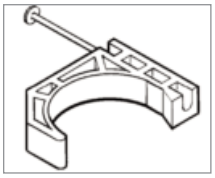
Uncoiler

• STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

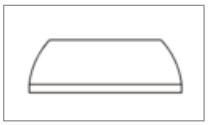
CB PRODUCT CODE #3.
Tools

Part Number	Size Description	Bag/Ctn Qty	List Price
CRIMP TOOLS			
HCM2	3/8" SINGLE HAND CRIMPER	1	**202.90**
HCM3	1/2" SINGLE HAND CRIMPER	1	**202.90**
HCM4	3/4" SINGLE HAND CRIMPER	1	**202.90**
HCM5	1" SINGLE HAND CRIMPER	1	**280.61**
HAD3	1/2" CRIMP TOOL PEX	1	190.00
HAD4	3/4" CRIMP TOOL PEX	1	215.00
HAD5	1" CRIMP TOOL PEX	1	387.00
HAD34	1/2 X 3/4" CRIMP TOOL PEX	1	300.00
HADSS3	1/2" STAINLESS STEEL RATCHET CRIMPER	1	195.00
HADSS4	3/4" STAINLESS STEEL RATCHET CRIMPER	1	195.00
HADSS5	1" STAINLESS STEEL RATCHET CRIMPER	1	195.00
PEX CRIMP RING GAUGE			
HAC34	3/8, 1/2 and 3/4 GO-NO GO RING GAUGE	1	11.11
HAC5	1" CRIMP RING GAUGE	1	11.11
UNCOILER			
TATK200	Tubing Uncoiler	1	565.00

PEX Tubing Installation Accessories



Tube Clamps



Cone Seals



Risers

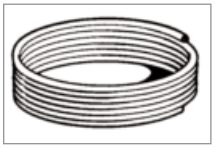


PTO Bend Support

- STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.

CB PRODUCT CODE #3.
PAL Accessories, Clamps, Tubes

Part Number	Size Description	Bag/Ctn Qty	List Price
TUBE CLAMPS			
CLJ2	3/8" J-Clamp with Nail	100/500	$ **0.11**
CLJ3	1/2" J-Clamp with Nail	100/500	**0.11**
CLJ4	3/4" J-Clamp with Nail	100/500	**0.14**
CLJ5	1" J-Clamp with Nail	50/250	**0.22**
CONE SEALS			
RXTC2	1/2 ID CLOSET CONE	100/1000	0.29
RXTL2	1/2 ID LAV CONE	100/1000	0.14
RXTL3	3/4 ID LAV CONE	100/1000	0.29
RISERS			
RLX112	3/8” x 12” LAV Riser w/ compression ferrule	100	1.04
RLX115	3/8” x 15” LAV Riser w/ compression ferrule	100	1.25
RLX120	3/8" x 20" LAV Riser w/ compression ferrule	100	1.37
RLX130	3/8" x 30" LAV Riser w/ compression ferrule	100	1.93
RLX136	3/8" x 36" LAV Riser w/ compression ferrule	100	2.23
RKX112	3/8" x 12" CLOSET Riser w/ compression ferrule	100	1.04
RKX115	3/8” x 15” CLOSET Riser w/ compression ferrule	100	1.25
RKX120	3/8" x 20" CLOSET Riser w/ compression ferrule	100	1.37
RXF1	FERRULE FOR 3/8 OD RISER"	100	0.11
RX9S2	INSERT STIFFENER FOR 3/8 TUBE"	10	0.35
BEND SUPPORT			
PT03	1/2” Bend Support	50	2.94
PT04	3/4” Bend Support	50	4.07



Ice Maker Tubing

- STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.

CB PRODUCT CODE #1.
Potable CANPEX PEX Tubing

Part Number	Size Description	Bag/Ctn Qty	List Price
ICE MAKER TUBING 200 psi, CTS-OD SDR-11			
TB0C1	1/8" Nominal (1/4" OD) Natural PE	100'	41.00

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- *STANDARD AGI DISCOUNTS DO APPLY to items on this page.*



T Series Cutter

Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
T100	Black	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	$ 22.61
YT100	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	22.61
T100SS	Black	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	23.60
YT100SS	Yellow	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	23.60
T135	Black	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	25.36
YT135	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	25.36
T135SS	Black	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	26.36
YT135SS	Yellow	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	26.36

HARVARD CONTRACTOR Replacement Blades (includes one knock out pin)				DP is DOUBLE PACK
BT100	PTFE Coated Hardened Steel Blade	T100, YT100	100	8.61
BT100SS	Stainless Steel Blade	T100SS, YT100SS	100	9.62
BT135	PTFE Coated Hardened Steel Blade	T135, YT135	100	9.42
BT135DP	PTFE Coated Hardened Steel Blades (2)	T135, YT135	100	18.29
BT135SS	Stainless Steel Blade	T135SS, YT135SS	100	10.41
BT135DPSS	Stainless Steel Blades (2)	T135SS, YT135SS	100	20.25

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PEX & Radiant Tubing Installation Valves

** STANDARD AGI DISCOUNTS APPLY to items on this page.*



HFBV4-PEXNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Packing	PTFE
Packing Nut	Brass
Ball	Chrome Plated NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass FULL Port Ball Valve with PEX Connections Features:

- Heavy pattern, full port, forged NO LEAD brass constuction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- PEX ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn/Case Qty	List Price*
HFBV4-50PEXNL	1/2"	25/100	$ 8.26
HFBV4-75PEXNL	3/4"	10/60	13.17
HFBV4-100PEXNL	1"	10/40	20.13



HFBV4-PEXSWNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	ZInc Coated Steel
Handle	Zinc Coated Steel
Stem O-ring (2)	NBR
Ball	NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass STANDARD Port Ball Valve with PEX x SWEAT Connections Features:

- Heavy pattern, standard port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- PEX x SWEAT ends for use with PEX tubing to copper tubing connections.
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn/Case Qty	List Price*
HFBV4-50PEXSWNL	1/2"	25/100	$ 11.59
HFBV4-75PEXSWNL	3/4"	10/60	15.56



HFBV4-CENL Series

MATERIAL SPECIFICATIONS	
Handle Nut	ZInc Coated Steel
Handle	Zinc Coated Steel
Stem O-ring (2)	NBR
Ball	NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass STANDARD Port Ball Valves with F1960 Cold Expansion Connections Features:

- Heavy pattern, standard port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- F1960 Cold Expansion ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn/Case Qty	List Price
HFBV4-50CENL	1/2"	25/100	$8.06
HFBV4-75CENL	3/4"	10/60	11.44
HFBV4-100CENL	1"	10/40	20.39

Supply Valves - NO LEAD PEX & Cold Expansion

** STANDARD AGI DISCOUNTS APPLY to items on this page.*

NO LEAD Brass Chrome Plated Supply Valve with PEX and F1960 COLD EXPANSION Connections Features:

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW LEAD

- Chrome Plated No Lead DZR Brass.
- 1/4 Turn Plastic Oval Handle.
- For use with PEX and Cold Expansion tubing connections.
- Maximum pressure rating: 125 psi
- Maximum temperature rating: 180°F (82°C)
- Stem Packing: Double NBR o-ring.
- Seat Material: PTFE
- **Third party certified to NSF/ANSI 372.**



Angle Stop Valve



Straight Stop Valve



CE Angle Stop Valve



CE Straight Stop Valve

Part Number	Old Part Number	Size Description	Inner/Ctn Qty	List Price
ANGLE STOP Valve		**PEX Insert x Compression**		
CPSVA1/2PX1/4CNL	70-30-10-072NL	1/2 x 1/4 Angle Stop Ch Plated NL	12/144	$ 7.32
CPSVA1/2PX3/8CNL	70-20-20-074NL	1/2 x 3/8 Angle Stop Ch Plated NL	12/144	7.87
STRAIGHT STOP Valve		**PEX Insert x Compression**		
CPSVS1/2PX3/8CNL	70-20-10-074NL	1/2 x 3/8 Straight Stop Ch Plated NL	12/144	7.52
ANGLE STOP Valve	NEW	**F1960 Cold Expansion Insert x Compression**		
CPSVA1/2CEX1/4CNL		1/2 x 1/4 Angle Stop Ch Plated NL	12/144	6.44
CPSVA1/2CEX3/8CNL		1/2 x 3/8 Angle Stop Ch Plated NL	12/144	6.93
STRAIGHT STOP Valve		**F1960 Cold Expansion Insert x Compression**		
CPSVS1/2CEX3/8CNL		1/2 x 3/8 Straight Stop Ch Plated NL	12/144	6.62

Radiant Manifold Pre-assembled Kit Features:

- Suitable for distributing and controlling water in radiant floor heating systems at low and high temperatures.
- Includes flow balancing/metering devices and return shut-off valves.
- Built in mounting bracket support included.

*** NON STOCK ITEMS ***
ALLOW 3 WEEKS for DELIVERY

- STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.

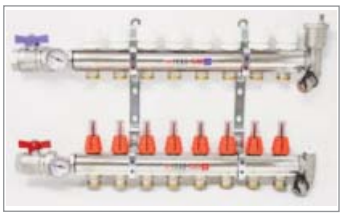
CB PRODUCT CODE #8.
Hydronic Heating Manifolds & Accessories



SS Manifold



NP Brass Manifold



NP Brass Manifold

Part Number	Size Description	Ctn	List Price
RADIANT MANIFOLDS - 1" Stainless Steel			
763510002-S	1" SS 2 LOOP Manifold w/ valve & meter	1	285.40
763510003-S	1" SS 3 LOOP Manifold w/ valve & meter	1	306.95
763510004-S	1" SS 4 LOOP Manifold w/ valve & meter	1	349.80
763510005-S	1" SS 5 LOOP Manifold w/ valve & meter	1	393.42
763510006-S	1" SS 6 LOOP Manifold w/ valve & meter	1	439.39
763510007-S	1" SS 7 LOOP Manifold w/ valve & meter	1	483.80
763510008-S	1" SS 8 LOOP Manifold w/ valve & meter	1	532.88
763510009-S	1" SS 9 LOOP Manifold w/ valve & meter	1	574.95
763510010-S	1" SS 10 LOOP Manifold w/ valve & meter	1	643.50
763510011-S	1" SS 11 LOOP Manifold w/ valve & meter	1	682.46
763510012-S	1" SS 12 LOOP Manifold w/ valve & meter	1	753.35
RADIANT MANIFOLDS - 1" Nickle Plated Brass			
763510002	1" NP Brass 2 LOOP Manifold w/ valve & meter	1	260.98
763510003	1" NP Brass 3 LOOP Manifold w/ valve & meter	1	367.72
763510004	1" NP Brass 4 LOOP Manifold w/ valve & meter	1	424.59
763510005	1" NP Brass 5 LOOP Manifold w/ valve & meter	1	494.70
763510006	1" NP Brass 6 LOOP Manifold w/ valve & meter	1	539.11
763510007	1" NP Brass 7 LOOP Manifold w/ valve & meter	1	633.47
763510008	1" NP Brass 8 LOOP Manifold w/ valve & meter	1	677.00
763510009	1" NP Brass 9 LOOP Manifold w/ valve & meter	1	758.80
763510010	1" NP Brass 10 LOOP Manifold w/ valve & meter	1	824.24
763510011	1" NP Brass 11 LOOP Manifold w/ valve & meter	1	870.21
763510012	1" NP Brass 12 LOOP Manifold w/ valve & meter	1	916.17
RADIANT MANIFOLDS - 1 1/4" Nickle Plated Brass			
763512006	11/4" NP Brass 6 LOOP Manifold w/ valve+meter	1	678.56
763512007	11/4" NP Brass 7 LOOP Manifold w/ valve+meter	1	748.68
763512008	11/4" NP Brass 8 LOOP Manifold w/ valve+meter	1	826.58
763512009	11/4" NP Brass 9 LOOP Manifold w/ valve+meter	1	893.58
763512010	11/4" NP Brass 10 LOOP Manifold w/ valve+meter	1	871.49
763512011	11/4" NP Brass 11 LOOP Manifold w/ valve+meter	1	1052.51
763512012	11/4" NP Brass 12 LOOP Manifold w/ valve+meter	1	1118.73

Radiant Installation Accessories

Radiant Accessories

*** NON STOCK ITEMS ***
ALLOW 3 WEEKS for DELIVERY

- STANDARD AGI DISCOUNTS DO NOT APPLY.
  Contact your sales representative for pricing.

CB PRODUCT CODE #8.
Hydronic Heating Manifolds & Accessories



Adapter



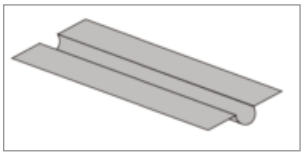
Extension Nipple



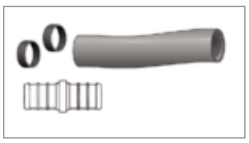
Circuit Actuator



Digital Thermostat



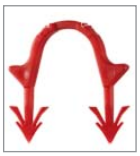
HRTP



In-Slab Repair Kit



In-Slab Elbow



Staples





Tacker Tool



Manifold Cabinet

Part Number	Size Description	Ctn	List Price
ADAPTERS			
763500005	Set of 2 Adapters 1/2” COMP x manifold	1	12.46
763500006	Set of 2 Adapters 5/8” COMP x manifold	1	17.53
763500007	Set of 2 Adapters 3/4” COMP x manifold	1	60.77
EXTENSION NIPPLE			
763590010	1” BSP x 1” BSP	1	9.35
763590012	1 1/4” BSP x 1 1/4” BSP	1	12.46
CIRCUIT ACTUATORS			
763580000	Actuator 24V 2-Wire Telestat switch IVAR	1	52.98
763580001	Actuator 24V 4-Wire Telestat switch IVAR	1	67.00
Digital Thermostat			
TH114A024T	Non-Programmable Ambient Thermostat	1	137.89
TH114AF024T	Non-Programmable Ambient Floor Thermostat	1	168.28
Heat Transfer Plates			
HRTP3	Aluminum Heat Transfer Plates 19” x 5”	25	2.42
In-Slab Repair Kit			
CBXRK33HR	In-slab repair kit 1/2”	1	6.93
CBXRK44HR	In-slab repair kit 3/4''	1	9.97
In-Slab Slip-on Elbow			
HRSL3	1/2" PEX Plastic In-slab Slip On Elbow	1	3.19
HRSL4	3/4" PEX Plastic In-slab Slip On Elbow	1	4.83
763006010	1” PEX Plastic in-slab Slip On Elbow	1	7.17
Foam Staples			
STAP1	1 1/2" Staple 300/box	1	73.30
STAP2	2 1/2” Staple 300/box	1	94.55
Tools			
950430200	Multi Tacker Tool for R1PP/L PANL	1	671.55
950430300	Rider gun for WR16	1	805.55
763599001	Steel Manifold Cabinet 28H x 24W x 3-5D	1	307.73
763599002	Steel Manifold cabinet 28H x 43W x 3-5D	1	422.48

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

NO LEAD Brass PEX Insert Fittings

NO LEAD Brass PEX Insert Fitting Features:

- Approved for use with ASTM F876/F877 SDR-9 PEX tubing/PEX distribution systems.
- No Lead Brass PEX fittings are manufactured and certified to ASTM F1807 requirements.
- Certified lead free to NSF/ANSI 372.

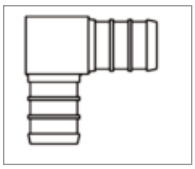
CB SUPPLIES

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

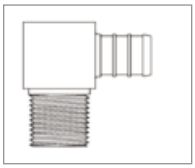
- STANDARD AGI DISCOUNTS DO NOT APPLY.

Contact your sales representative for pricing.

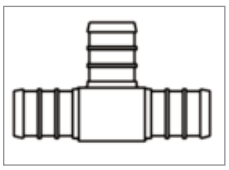
CB PRODUCT CODE #2.
PEX NL Brass Insert Fittings



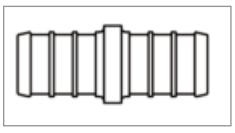
NLCBXE Elbow



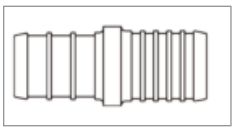
NLCBXME Male Elbow



NLCBXT Tee



NLCBXC Coupling



NLCBXBC Transition Coupling

Part Number	Size Description	Bag Qty	List Price
ELBOWS	**Ins x Ins**		
NLCBXE22	3/8 PEX 90 Elbow - NL	50	$ 2.99
NLCBXE33	1/2 PEX 90 Elbow - NL	50	2.96
NLCBXE43	3/4 x 1/2 PEX 90 Elbow -NL	25	3.50
NLCBXE44	3/4 PEX 90 Elbow - NL	25	4.17
NLCBXE55	1 PEX 90 Elbow - NL	10	**6.82**
NLCBXE66	1 1/4 PEX 90 Elbow - NL	10	**33.10**
	Ins x MIP		
NLCBXME32	1/2 PEX x 3/8 MPT 90 Elbow - NL	50	**5.55**
NLCBXME33	1/2 PEX x 1/2 MPT 90 Elbow - NL	50	**7.04**
NLCBXME44	3/4 PEX x 3/4 MPT 90 Elbow - NL	25	**13.34**
NLCBXME55	1 PEX x 1 MPT 90 Elbow - NL	25	**16.49**
NLCBXME66	1 1/4 PEX x 1 1/4 MPT 90 Elbow - NL	10	**61.45**
TEES	**Ins x Ins x Ins**		
NLCBXT222	3/8 PEX Tee - NL	25	3.70
NLCBXT333	1/2 PEX Tee - NL	50	3.17
NLCBXT334	1/2 x 1/2 x 3/4 PEX Tee - NL	25	6.65
NLCBXT433	3/4 x 1/2 x 1/2 PEX Tee - NL	25	**5.72**
NLCBXT434	3/4 x 1/2 x 3/4 PEX Tee - NL	25	5.51
NLCBXT443	3/4 x 3/4 x 1/2 PEX Tee - NL	25	**4.55**
NLCBXT444	3/4 PEX Tee - NL	25	5.34
NLCBXT445	3/4 x 3/4 x 1 PEX Tee - NL	10	8.17
NLCBXT534	1 x 1/2 x 3/4 PEX Tee - NL	10	**7.12**
NLCBXT543	1 x 3/4 x 1/2 PEX Tee - NL	10	**12.08**
NLCBXT544	1 x 3/4 x 3/4 PEX Tee - NL	10	10.81
NLCBXT545	1 x 3/4 x 1 PEX Tee - NL	10	**7.91**
NLCBXT553	1 x 1 x 1/2 PEX Tee - NL	10	**10.55**
NLCBXT554	1 x 1 x 3/4 PEX Tee - NL	10	**11.07**
NLCBXT555	1 PEX Tee - NL	25	10.46
NLCBXT666	1 1/4 PEX Tee - NL	10	**40.11**
COUPLINGS	**Ins x Ins**		
NLCBXC22	3/8 PEX Coupling - NL	100	**1.57**
NLCBXC32	1/2 x 3/8 PEX Coupling - NL	50	1.89
NLCBXC33	1/2 PEX Coupling - NL	100	1.64
NLCBXC43	3/ 4 x 1/2 PEX Coupling - NL	50	**2.80**
NLCBXC44	3/4 PEX Coupling - NL	50	**3.04**
NLCBXC54	1 x 3/4 PEX Coupling - NL	25	5.01
NLCBXC55	1 PEX Coupling - NL	25	**5.55**
NLCBXC66	1 1/4 PEX Coupling - NL	10	**18.14**
TRANSITION COUPLINGS	**Ins PEX x Ins Polybutylene - includes crimp rings**		
NLCBXBC22	3/8 PEX x 3/8 PB Transition Coupling - NL	100	3.39
NLCBXBC33	1/2 PEX x 1/2 PB Transition Coupling - NL	100	3.62
NLCBXBC44	3/4 PEX x 3/4 PB Transition Coupling - NL	25	5.62
NLCBXBC55	1 PEX x 1 PB Transition Coupling - NL	10	**8.31**

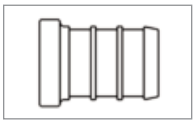
NO LEAD Brass PEX Insert Fittings

• STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

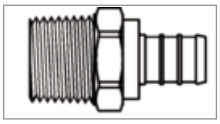
CB PRODUCT CODE #2.
PEX NL Brass Insert Fittings

CB SUPPLIES

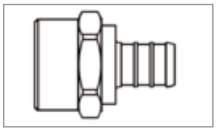
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



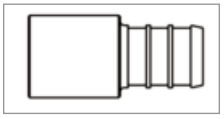
NLCBP Plug



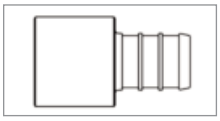
NLCBXMC Male Adapter



NLCBXFC Female Adapter



NLCBXCM Male Sweat Adapter



NLCBXCF Female Sweat Adapter

Part Number	Size Description	Bag Qty	List Price
PLUGS			
NLCBXP2B	3/8 PEX Plug - NL	100	$ 1.09
NLCBXP3B	1/2 PEX Plug - NL	100	**1.23**
NLCBXP4B	3/4 PEX Plug - NL	50	**2.36**
NLCBXP5B	1 PEX Plug - NL	50	3.69
NLCBXP6B	1 1/4 PEX Plug NL	10	**16.89**
MALE ADAPTERS	**Ins x MPT**		
NLCBXMC23	3/8 PEX x 1/2 MPT Adapter - NL	25	4.67
NLCBXMC33	1/2 PEX x 1/2 MPT Adapter - NL	50	3.99
NLCBXMC34	1/2 PEX x 3/4 MPT Adapter - NL	25	6.10
NLCBXMC43	3/4 PEX x 1/2 MPT Adapter - NL	25	4.35
NLCBXMC44	3/4 PEX x 3/4 MPT Adapter - NL	25	**6.22**
NLCBXMC45	3/4 PEX x 1 MPT Adapter - NL	10	11.60
NLCBXMC54	1 PEX x 3/4 MPT Adapter - NL	10	7.74
NLCBXMC55	1 PEX x 1 MPT Adapter - NL	10	11.97
NLCBXMC66	1 1/4 PEX x 1 1/4 MPT Adapter NL	10	**39.87**
FEMALE ADAPTERS	**Ins x FPT**		
NLCBXFC23	3/8 PEX x 1/2 FPT Adapter - NL	25	**6.10**
NLCBXFC33	1/2 PEX x 1/2 FPT Adapter - NL	25	4.87
NLCBXFC43	3/4 PEX x 1/2 FPT Adapter - NL	25	7.24
NLCBXFC34	1/2 PEX x 3/4 FPT Adapter - NL	25	7.61
NLCBXFC44	3/4 PEX x 3/4 FPT Adapter - NL	25	6.77
NLCBXFC45	3/4 PEX x 1 FPT Adapter - NL	25	**13.32**
NLCBXFC54	1 PEX x 3/4 FPT Adapter - NL	25	**6.97**
NLCBXFC55	1 PEX x 1 FPT Adapter - NL	50	13.98
NLCBXFC66	1 1/4 PEX x 1 1/4 FPT Adapter - NL	10	**46.41**
MALE SWEAT ADAPTERS	**Ins x Male Sweat**		
NLCBXC23M	3/8 PEX x 1/2 Male Sweat Adapter - NL	50	**2.73**
NLCBXC33M	1/2 PEX x 1/2 Male Sweat Adapter - NL	50	**2.06**
NLCBXC34M	1/2 PEX x 3/4 Male Sweat Adapter - NL	25	**4.31**
NLCBXC44M	3/4 PEX x 3/4 Male Sweat Adapter - NL	25	3.96
NLCBXC55M	1 PEX x 1 Male Sweat Adapter - NL	25	7.22
NLCBXC66M	1 1/4 PEX x 1 Male Sweat Adapter NL	10	**20.87**
FEMALE SWEAT ADAPTER	**Ins x Female Sweat**		
NLCBXC23F	3/8 PEX x 1/2 Female Sweat Adapter - NL	50	**2.76**
NLCBXC33F	1/2 PEX x 1/2 Female Sweat Adapter - NL	50	2.26
NLCBXC44F	3/4 PEX x 3/4 Female Sweat Adapter - NL	25	**4.06**
NLCBXC55F	1 PEX x 1 Female Sweat Adapter - NL	10	7.41
NLCBXC66F	1 1/4 PEX x 1 1/4 Female Sweat Adapter NL	10	**24.16**

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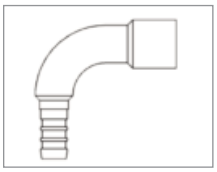
NO LEAD Brass PEX Insert Fittings

• STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

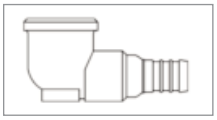
CB PRODUCT CODE #2.
PEX NL Brass Insert Fittings

CB SUPPLIES

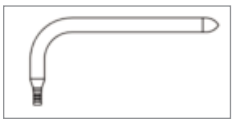
NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



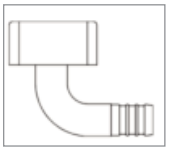
NLCBXE Sweat Elbows



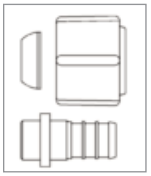
NLCBXDE Drop Ear Elbows



CBXE Stubout Elbows



NLCBXSE Swivel Elbows



NLCBXSA Transition Ftg

Part Number	Size Description	Bag Qty	List Price
MALE SWEAT ELBOWS	**Ins x Male Sweat**		
NLCBXE33MC	1/2 PEX x 1/2 Male Sweat Elbow - NL	25	$ **4.30**
NLCBXE44MC	3/4 PEX x 3/4 Male Sweat Elbow - NL	10	**8.58**
FEMALE SWEAT ELBOWS	**Ins x Female Sweat**		
NLCBXE33FC	1/2 PEX x 1/2 Female Sweat Elbow - NL	10	4.86
NLCBXE44FC	3/4 PEX x 3/4 Female Sweat Elbow - NL	10	**8.33**
NLCBXE55FC	1 PEX x 1 Female Sweat Elbow - NL	25	**14.46**
DROP EAR ELBOWS	**Ins x FPT**		
NLCBXDE33C	1/2 PEX x 1/2 FPT Drop Ear Elbow - NL	10	10.22
NLCBXDE43C	3/4 PEX x 1/2 FPT Drop Ear Elbow - NL	25	16.11
NLCBXDE44C	3/4 PEX x 3/4 FPT Drop Ear Elbow - NL	10	16.37
STUB OUT ELBOWS	**Ins x Closed**		
CBXE33SO	4" x 6" Ins x 1/2 Closed End Copper	50	9.00
CBXE33SO8	4" x 8" Ins x 1/2 Closed End Copper	50	**8.15**
CBXE33SOE	4" x 6" Ins x 1/2 Closed End w/ Ear Copper	25	**13.18**
CBXE33SOE8	4" x 8" Ins x 1/2 Closed End w/ Ear Copper	25	14.67
SWIVEL ELBOWS	**Ins x FPT**		
NLCBXSE23C	3/8 PEX x 1/2 FPT Swivel Elbow-NL	50	**4.70**
NLCBXSE33C	1/2 PEX x 1/2 FPT Swivel Elbow-NL (plastic nut)	50	4.20
NLCBXSE44C	3/4 PEX x 3/4 FPT Swivel Elbow-NL (plastic nut)	25	9.26
TRANSITION SWIVEL ADAPTER	**Ins x Female Swivel**		
NLCBXSA23	3/8 PEX x 1/2 FPT Thrd Swivel Adapter NL (pl nut)	25	2.61
NLCBXSA33	1/2 PEX x 1/2 FPT Thrd Swivel Adapter NL(pl nut)	25	**2.55**
NLCBXSA34	1/2 PEX x 3/4 FPT Thrd Swivel Adapter NL (pl nut)	10	**4.08**
NLCBXSA44	3/4 PEX x 3/4 FPT Thrd Swivel Adapter NL (pl nut)	10	4.96
NLCBXSA33B	1/2 PEX x 1/2 FPT Thrd Swivel Adapter NL (BR nut)	25	7.12
NLCBXSA44B	3/4 PEX x 3/4 FPT Thrd Swivel Adapter NL (BR nut)	10	12.06

NO LEAD PAL PEX Insert Fittings

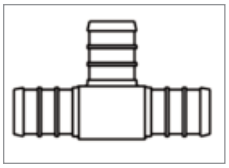
Polyalloy PAL PEX Insert Fitting Features:

- Approved for use with ASTM F876/F877 SDR-9 PEX tubing/PEX distribution systems.
- PAL fittings are marked with ASTM F877 and/or F2159 and NSF PW.
- Certified lead free to NSF/ANSI 372.

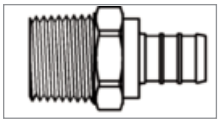
• STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB PRODUCT CODE #3.
PAL Insert Fittings

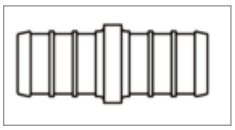
NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



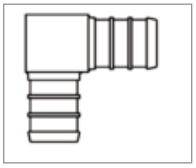
XPT Tee



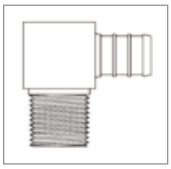
XPMC Male Adapter



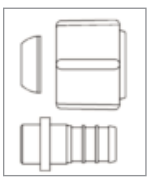
XPC Coupling



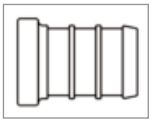
XPE Elbow



XPME Male Elbow



XPSA Transition Swivel Adapter



CBXP Plug

Part Number	Size Description	Bag/Box Qty	List Price
TEES	**Ins x Ins x Ins**		
XPT333	1/2 PAL TEE	50/500	$ 0.90
XPT334	1/2 X 1/2 X 3/4 PAL TEE	25/675	1.28
XPT433	3/4 X 1/2 X 1/2 PAL TEE	25/600	1.28
XPT434	3/4 X 1/2 X 3/4 PAL TEE	25/500	1.28
XPT443	3/4 X 3/4 X 1/2 PAL TEE	25/500	1.14
XPT445	3/4 x 3/4 x 1 PAL TEE	25/500	2.85
XPT444	3/4 PAL TEE	25/250	1.28
XPT544	1 X 3/4 x 3/4 PAL TEE	25/325	2.85
XPT545	1 x 3/4 x 1 PAL TEE	25/250	2.85
XPT553	1 X 1 X 1/2 PAL TEE	25/300	2.85
XPT554	1 x 1 x 3/4 PAL TEE	25/300	2.85
XPT555	1 PAL TEE	25/200	3.55
MALE ADAPTERS	**Ins x MPT**		
XPMC33	1/2 PAL MPT ADAPTER	25/1000	1.16
XPMC34	1/2 X 3/4 PAL MPT ADAPTER	25/200	1.55
XPMC44	3/4 PAL MPT ADAPTER	25/600	1.55
XPMC43	3/4 X 1/2 PAL MPT ADAPTER	25/600	1.55
XPMC55	1 x 1 PAL MPT ADAPTER	25/300	2.97
COUPLINGS	**Ins x Ins**		
XPC32	1/2 x 3/8 PAL COUPLING	25/1500	0.52
XPC33	1/2 PAL COUPLING	100/800	0.52
XPC43	3/4x1/2 PAL COUPLING	25/1250	0.84
XPC44	3/4 PAL COUPLING	50/400	0.76
XPC55	1 PAL COUPLING	50/600	1.69
XPC54	1X3/4 PAL COUPLING	25/700	1.69
ELBOWS	**Ins x Ins**		
XPE33	1/2 PAL ELBOW	50/500	0.71
XPE43	3/4X1/2 PAL ELBOW	25/750	1.05
XPE44	3/4 PAL ELBOW	50/400	1.02
XPE55	1 PAL ELBOW	25/350	2.94
MALE THREADED ELBOWS	**Ins x MPT**		
XPME32	1/2 X 3/8 PAL MPT ELBOW	10/200	1.25
XPME33	1/2 PAL MPT ELBOW	10/600	1.10
XPME43	3/4 X 1/2 PAL MPT ELBOW	25/400	1.82
XPME44	3/4 PAL MPT ELBOW	25/500	1.65
TRANSITION SWIVEL ADAPTER	**Ins x FPT**		
XPSA44	3/4 PAL SWIVEL ADAPT	100/500	2.21
PLUGS			
CBXP2	3/8 PLASTIC INSERT TEST PLUG	100/6000	0.37
CBXP3	1/2 PLASTIC INSERT TEST PLUG	100/3500	0.37
CBXP4	3/4 PLASTIC INSERT TEST PLUG	25/2000	0.47
CBXP5	1 PLASTIC INSERT TEST PLUG	25/1000	0.70

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Cold Expansion PEX PAL Fittings

• STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUPPLIES

Cold Expansion PEX Rings:

• ASTM F1960

CB PRODUCT CODE #2.
Cold Expansion PEX Fittings



F1960 Rings

Part Number	Size Description	Bag/Ctn Qty	List Price
COLD EXPANSION RINGS - F1960			
CBXCER3	Cold Expansion Ring for 1/2" PEX Tubing	50/500	$ 0.47
CBXCER4	Cold Expansion Ring for 3/4" PEX Tubing	25/250	0.81
CBXCER5	Cold Expansion Ring for 1" PEX Tubing	10/100	1.12

Cold Expansion Polyalloy PAL PEX Fittings:

- Use with ASTM F1960 certified cold expansion PEX and PERT tubing using PEX rings.
- PPSU resin provides chemical resistance.
- Max system temperature/pressure 180°F @ 100 psi
- No lead NSF/ANSI 372 certified. ANSI/NSF 61 certified.
- **Only use cordless power expander tool for installation.**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

CB PRODUCT CODE #2.
Cold Expansion PEX Fittings



CEXPT Tee



CEXPMC Male Adapter



CEXPC Coupling



CEXPE Elbow



CEXPME Male Elbow



CEXPP Plug

Part Number	Size Description	Bag/Box Qty	List Price
CE PAL TEES	**Ins x Ins x Ins**		
CEXPT333	1/2 CE PAL TEE	25/500	$ 3.18
CEXPT334	1/2 X 1/2 X 3/4 CE PAL TEE	25/400	4.32
CEXPT433	3/4 X 1/2 X 1/2 CE PAL TEE	25/350	4.43
CEXPT434	3/4 X 1/2 X 3/4 CE PAL TEE	25/250	5.04
CEXPT443	3/4 X 3/4 X 1/2 CE PAL TEE	25/250	5.12
CEXPT445	3/4 x 3/4 x 1 CE PAL TEE	25/150	9.36
CEXPT444	3/4 CE PAL TEE	25/200	5.48
CEXPT544	1 X 3/4 x 3/4 CE PAL TEE	25/150	7.62
CEXPT545	1 x 3/4 x 1 CE PAL TEE	25/100	8.87
CEXPT553	1 X 1 X 1/2 CE PAL TEE	25/150	8.37
CEXPT554	1 x 1 x 3/4 CE PAL TEE	25/125	9.02
CEXPT555	1 CE PAL TEE	25/100	9.14
CE PAL MALE ADAPTERS	**Ins x MPT**		
CEXPMC33	1/2 CE PAL MPT ADAPTER	25/850	3.72
CEXPMC44	3/4 CE PAL MPT ADAPTER	25/500	3.36
CE PAL COUPLINGS	**Ins x Ins**		
CEXPC33	1/2 CE PAL COUPLING	25/1250	2.10
CEXPC43	3/4x1/2 CE PAL COUPLING	25/600	2.63
CEXPC44	3/4 CE PAL COUPLING	25/500	3.17
CEXPC55	1 CE PAL COUPLING	50/250	4.94
CEXPC54	1X3/4 CE PAL COUPLING	25/250	4.69
CE PAL ELBOWS	**Ins x Ins**		
CEXPE33	1/2 CE PAL ELBOW	25/900	2.82
CEXPE43	3/4X1/2 CE PAL ELBOW	25/550	3.72
CEXPE44	3/4 CE PAL ELBOW	25/350	4.26
CEXPE55	1 CE PAL ELBOW	25/150	7.67
CE PAL MALE THREADED ELBOWS	**Ins x MPT**		
CEXPME33	1/2 CE PAL MPT ELBOW	10/600	4.68
CE PAL PLUGS			
CEXPP3	1/2 CE PAL INSERT PLUG	100/2000	1.50
CEXPP4	3/4 CE PAL INSERT PLUG	25/900	2.40
CEXPP5	1 CE PAL INSERT PLUG	25/500	3.77

Cold Expansion PEX NL Brass Fittings

• STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

Cold Expansion PEX NL Brass Fittings:

- Use with ASTM F1960 certified cold expansion PEX and PERT tubing using PEX rings.
- Max system temperature/pressure 180°F @ 100 psi
- No lead NSF/ANSI 372 certified brass. ANSI/NSF 61 certified.
- **Only use cordless power expander tool for installation.**

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

CB PRODUCT CODE #2.
Cold Expansion PEX Fittings


NLCECBXMC Male Adapter


NLCECBXFC Female Adapter


NLCECBXCM Male Sweat Adapter


NLCECBXCF Female Sweat Adapter


NLCECBXE Sweat Elbows


NLCECBXDE Drop Ear Elbows

Part Number	Size Description	Bag Qty	List Price
CE MALE ADAPTERS Ins x MPT			
NLCECBXMC33	1/2 NL CE PEX x 1/2 MPT Adapter	50/300	$ 9.55
NLCECBXMC34	1/2 NL CE PEX x 3/4 MPT Adapter	25/200	13.60
NLCECBXMC43	3/4 NL CE PEX x 1/2 MPT Adapter	25/250	13.72
NLCECBXMC44	3/4 NL CE PEX x 3/4 MPT Adapter	25/200	14.89
NLCECBXMC45	3/4 NL CE PEX x 1 MPT Adapter	10/150	23.06
NLCECBXMC54	1 NL CE PEX x 3/4 MPT Adapter	10/150	24.34
NLCECBXMC55	1 NL CE PEX x 1 MPT Adapter	10/200	25.32
CE FEMALE ADAPTERS Ins x FPT			
NLCECBXFC33	1/2 NL CE PEX x 1/2 FPT Adapter	20/200	9.99
NLCECBXFC43	3/4 NL CE PEX x 1/2 FPT Adapter	25/300	14.28
NLCECBXFC34	1/2 NL CE PEX x 3/4 FPT Adapter	25/150	16.64
NLCECBXFC44	3/4 NL CE PEX x 3/4 FPT Adapter	25/150	15.03
NLCECBXFC45	3/4 NL CE PEX x 1 FPT Adapter	25/150	24.22
NLCECBXFC55	1 NL CE PEX x 1 FPT Adapter	50/100	24.34
CE MALE SWEAT ADAPTERS Ins x Male Sweat			
NLCECBXC33M	1/2 NL CE PEX x 1/2 Male Sweat Adapter	50/500	6.48
NLCECBXC34M	1/2 NL CE PEX x 3/4 Male Sweat Adapter	25/500	**10.32**
NLCECBXC44M	3/4 NL CE PEX x 3/4 Male Sweat Adapter	25/300	**12.30**
NLCECBXC55M	1 NL CE PEX x 1 Male Sweat Adapter	25/200	22.27
CE FEMALE SWEAT ADAPTER Ins x Female Sweat			
NLCECBXC33F	1/2 NL CE PEX x 1/2 Female Sweat Adapter	50/600	6.35
NLCECBXC44F	3/4 NL CE PEX x 3/4 Female Sweat Adapter	25/250	12.08
NLCECBXC45F	3/4 NL CE PEX x 1 Female Sweat Adapter	10/100	18.68
NLCECBXC55F	1 NL CE PEX x 1 Female Sweat Adapter	10/100	22.56
CE FEMALE SWEAT ELBOWS Ins x Female Sweat			
NLCECBXE33FC	1/2 NL CE PEX x 1/2 Female Sweat Elbow	10/150	**9.07**
CE DROP EAR ELBOWS Ins x FPT			
NLCECBXDE33C	1/2 NL CE PEX x 1/2 FPT Drop Ear Elbow	10/100	19.46
NLCECBXDE43C	3/4 NL CE PEX x 1/2 FPT Drop Ear Elbow	10/50	30.68
NLCECBXDE44C	3/4 NL CE PEX x 3/4 FPT Drop Ear Elbow	10/50	30.37

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Cold Expansion Polyalloy PAL Manifolds

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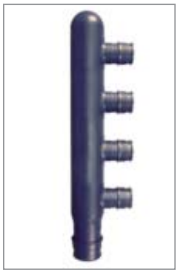
Cold Expansion Polyalloy PAL Multiport Manifolds:

- Use with ASTM F1960 certified cold expansion PEX and PERT tubing using PEX rings.
- PPSU resin provides chemical resistance.
- Max system temperature/pressure 180°F @ 100 psi
- No lead NSF/ANSI 372 certified. ANSI/NSF 61 certified.
- **Only use cordless power expander tool for installation.**

NEW

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

CB PRODUCT CODE #2.
Cold Expansion PEX Fittings



Closed End



Flow Through



Opposite Branch Flow Through



Opposite Branch Closed End

Part Number	PEX Inlet	1/2" PEX Ports	Outlet	Box Qty	List Price
PEX CE Inlet Multiport Manifolds - Closed End ASTM F1960					
8921070003	3/4	3	Closed	10	$ 17.39
8921070004	3/4	4	Closed	10	20.99
8921070006	3/4	6	Closed	10	29.82
8921100004	1	4	Closed	10	30.67
8921100006	1	6	Closed	10	68.98
PEX CE Inlet Multiport Manifolds - Flow Through ASTM F1960					
8920070702	3/4	2	3/4	10	12.36
8920070703	3/4	3	3/4	10	17.18
8920070704	3/4	4	3/4	10	22.77
8920070706	3/4	6	3/4	10	28.65
8920101004	1	4	1	10	45.83
8920101006	1	6	1	10	41.50
8920100704	1	4	3/4	10	45.31
8920100706	1	6	3/4	10	61.76
PEX CE Inlet Multiport Manifolds - Opposite Branches Flow Through ASTM F1960					
89200707030	3/4	3	3/4	10	22.17
89200707040	3/4	4	3/4	10	22.54
89200707060	3/4	6	3/4	10	28.33
PEX CE Inlet Multiport Manifolds - Opposite Branches Closed End ASTM F1960					
89210700030	3/4	3	Closed	10	$ 22.04
89210700040	3/4	4	Closed	10	22.46
89210700080	3/4	8	Closed	10	28.06

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NO LEAD Brass Push Fittings

HARVARD NO LEAD Brass Push Fitting Features:

- Use for above ground potable water, hydronic heating and other plumbing systems.
- No soldering, clamps, unions or glue needed.
- For use with copper, CPVC, PEX and PERT tubing in any combination.
- Integral tube liner (stiffener) for PEX/PERT installation.
- Easy disconnect with special removal tool.
- Lead free, forged brass body construction.
- Full fluid flow without PEX/PERT stiffeners.
- Fittings can be rotated 360° after assembly for easier installation.
- Max working pressure at max working temperature: 200 psi at 200°F water. (Caution: may exceed the max service pressure/temperature of PEX/PERT or CPVC.)
- Not suitable for steam service.
- Tested, certified and listed in accordance with ASSE1061-2006.
- cUPC listed.
- Certified lead free to NSF/ANSI 372.

HARVARD

LOW LEAD

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

MATERIAL SPECIFICATIONS	
Body	Forged NL Brass
Oring:	EPDM
Gripper Ring	SS304
Push Ring	Acetal
Locking Ring	Acetal
Seat Ring	Acetal
Stiffener	Polysulfone

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.

• STANDARD AGI DISCOUNTS DO APPLY to items on this page.



BPCNL



BPRCNL



BPMANL



BPRMANL



BPFANL



BPRFANL



BPWHK

NEW

Part Number	Description & Size	Ctn Qty	List Price
Couplings			
BPC3/8NL	BRS PUSH CPL NL FITXFIT 3/8x3/8	60/240	$ 6.91
BPC1/2NL	BRS PUSH CPL NL FITXFIT 1/2x1/2	50/200	7.17
BPC3/4NL	BRS PUSH CPL NL FITXFIT 3/4X3/4	30/120	9.53
BPC1NL	BRS PUSH CPL NL FITXFIT 1X1	15/60	19.07
Reducing Coupling			
BPRC1/2X3/8NL	BRS PUSH CPL NL FITXFIT 1/2X3/8	45/180	7.44
BPRC3/4X1/2NL	BRS PUSH CPL NL FITXFIT 3/4X1/2	35/140	9.27
BPRC1X3/4NL	BRS PUSH CPL NL FITXFIT 1X3/4	20/80	17.76
Male Adapters			
BPMA3/8NL	BRS PUSH M/A NL FITXMPT 3/8x3/8	60/240	6.12
BPMA1/2NL	BRS PUSH M/A NL FITXMPT 1/2X1/2	60/240	6.74
BPMA3/4NL	BRS PUSH M/A NL FITXMPT 3/4X3/4	40/160	9.88
BPMA1NL	BRS PUSH M/A NL FITXMPT 1X1	20/80	17.85
Reducing Male Adapter			
BPRMA3/8x1/2NL	BRS PUSH M/A NL FITXMT 3/8x1/2	52/208	6.90
BPRMA1/2X3/8NL	BRS PUSH M/A NL FITXMT 1/2X3/8	60/240	6.90
BPRMA1/2X3/4NL	BRS PUSH M/A NL FITXMT 1/2X3/4	50/200	9.79
BPRMA3/4X1/2NL	BRS PUSH M/A NL FITXMT 3/4X1/2	40/160	11.33
Female Adapters			
BPFA3/8NL	BRS PUSH F/A NL FITXFPT 3/8x3/8	60/240	6.32
BPFA1/2NL	BRS PUSH F/A NL FITXFPT 1/2X1/2	60/240	6.83
BPFA3/4NL	BRS PUSH F/A NL FITXFPT 3/4X3/4	40/160	10.41
BPFA1NL	BRS PUSH F/A NL FITXFPT 1X1	20/80	16.79
Reducing Female Adapter			
BPRFA3/8X1/2NL	BRS PUSH F/A NL FITXFPT 3/8X1/2	52/208	7.47
BPRFA1/2X3/4NL	BRS PUSH F/A NL FITXFPT 1/2X3/4	40/160	10.33
BPRFA3/4X1/2NL	BRS PUSH F/A NL FITXFPT 3/4X1/2	40/160	11.81
BPRFA3/4X1NL	BRS PUSH F/A NL FITXFPT 3/4X1	25/100	17.84
BPRFA1X3/4NL	BRS PUSH F/A NL FITXFPT 1X3/4	25/100	17.84
Water Heater Kit (includes 2 female adapters and 1 removal tool)			
BPWHK1/2X3/4NL	BRS PUSH WTHRT FITXFPT 1/2x3/4	20/160	23.65
BPWHK3/4NL	BRS PUSH WTHRT FITXFPT 3/4x3/4	15/120	24.32
BPWHK3/4X1/2NL	BRS PUSH WTHRT FITXFPT 3/4x1/2	15/120	23.65

NO LEAD Brass Push Fittings

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.

• *STANDARD AGI DISCOUNTS DO APPLY to items on this page.*



BPENL



BPRENL



BPFENL



BPMENL



BPTNL



BPRTNL



BPFTNL



BPMTNL



BPDENL



BPWPENL



BPECANL



BPSRCNL

Part Number	Description & Size	Ctn Qty	List Price
Elbows			
BPE3/8NL	BRS PUSH ELL NL FITXFIT 3/8x3/8	60/240	$ 8.94
BPE1/2NL	BRS PUSH ELL NL FITXFIT 1/2X1/2	40/160	9.97
BPE3/4NL	BRS PUSH ELL NL FITXFIT 3/4X3/4	20/80	14.09
BPE1NL	BRS PUSH ELL NL FITXFIT 1X1	12/48	27.82
Reducing Elbows			
BPRE1/2X3/8NL	BRS PUSH ELL NL FITXFIT 1/2X3/8	37/148	9.53
BPRE3/4X1/2NL	BRS PUSH ELL NL FITXFIT 3/4X1/2	25/100	13.92
BPRE3/4X1NL	BRS PUSH ELL NL FITXFIT 3/4X1	15/60	28.57
Female Elbow			
BPFE3/8NL	BRS PUSH FEM ELBOW NL FITXFPT 3/8	60/240	8.92
BPFE1/2NL	BRS PUSH FEM ELBOW NL FITXFPT 1/2	40/160	10.41
BPFE3/4NL	BRS PUSH FEM ELBOW NL FITXFPT 3/4	20/80	14.52
BPFE1NL	BRS PUSH FEM ELBOW NL FITXFPT 1	13/52	23.86
Male Elbow			
BPME3/8NL	BRS PUSH MALE ELBOW NL FITXMPT 3/8x3/8	60/240	7.95
BPME1/2NL	BRS PUSH MALE ELBOW NL FITXMPT 1/2X1/2	40/160	9.01
BPME3/4NL	BRS PUSH MALE ELBOW NL FITXMPT 3/4X3/4	20/80	14.78
BPME1NL	BRS PUSH MALE ELBOW NL FITXMPT 1X1	13/52	26.32
Tees			
BPT3/8NL	BRS PUSH TEE NL FITXFIT 3/8x3/8x3/x	45/180	11.46
BPT1/2NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X1/2	30/120	14.52
BPT3/4NL	BRS PUSH TEE NL FITXFIT 3/4X3/4X3/4	15/60	21.44
BPT1NL	BRS PUSH TEE NL FITXFIT 1X1X1	7/28	37.19
Reducing Tee			
BPRT3/8x3/8x1/2NL	BRS PUSH TEE NL FITXFIT 3/8x3/8x1/2	30/120	14.70
BPRT1/2X1/2X3/8NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X3/8	30/120	15.19
BPRT1/2X1/2X3/4NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X3/4	20/80	24.91
BPRT1/2X1/2X1NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X1	15/60	32.06
BPRT1/2X3/4X3/4NL	BRS PUSH TEE NL FITXFIT 1/2X3/4X3/4	15/60	27.75
BPRT3/4X1/2X1/2NL	BRS PUSH TEE NL FITXFIT 3/4X1/2X1/2	20/80	19.16
BPRT3/4X3/4X1/2NL	BRS PUSH TEE NL FITXFIT 3/4X3/4X1/2	15/60	21.70
BPRT1X1X3/4NL	BRS PUSH TEE NL FITXFIT 1X1X3/4	8/32	34.83
Female Tee			
BPFT1/2NL	BRS PUSH FEM TEE NL FITXFITXFPT 1/2X1/2X1/2	30/120	19.07
BPFT3/4NL	BRS PUSH FEM TEE NL FITXFITXFPT 3/4X3/4X3/4	15/60	28.18
Male Tee			
BPMT1/2NL	BRS PUSH MALE TEE NL FITXFIT 1/2X1/2X1/2	30/120	19.07
BPMT3/4NL	BRS PUSH MALE TEE NL FITXFIT 3/4X3/4X3/4	15/60	28.18
Drop Elbow			
BPDE1/2NL	BRS PUSH DROP ELBOW NL FITXFPT 1/2X1/2	30/120	12.77
Wall Plate Elbow			
BPWPE1/2NL	BRS PUSH WALL PLATE EL NL FITXFPT 1/2X1/2	30/120	16.35
End Cap			
BPECA3/8NL	BRS PUSH END CAP NL FIT 3/8	82/328	3.50
BPECA1/2NL	BRS PUSH END CAP NL FIT 1/2	100/400	4.54
BPECA3/4NL	BRS PUSH END CAP NL FIT 3/4	60/240	6.83
BPECA1NL	BRS PUSH END CAP NL FIT 1	30/120	11.20
Slip Repair Coupling			
BPSRC1/2NL	BRS PUSH REPAIR CPL NL FITXFIT 1/2X1/2	20/80	14.09
BPSRC3/4NL	BRS PUSH REPAIR CPL NL FITXFIT 3/4X3/4	15/60	21.08
BPRSC1NL	BRS PUSH REPAIR CPL NL FITXFIT 1X1	10/40	35.01

American Granby™

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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NO LEAD Brass Push Fittings

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.

• *STANDARD AGI DISCOUNTS DO APPLY to items on this page.*



BPBVNL



BPTOOLNL



BPSTIFFNL

Part Number	Description & Size	Ctn Qty	List Price
Ball Valve			
BPBV1/2NL	BRS PUSH BALL VALVE NL FITXFIT 1/2X1/2	10/40	$ **18.99**
BPBV3/4NL	BRS PUSH BALL VALVE NL FITXFIT 3/4X3/4	7/28	**29.07**
BPBV1NL	BRS PUSH BALL VALVE NL FITXFIT 1X1	5/20	**46.46**
Removal Tool			
BPTOOL3/8NL	BRS PUSH REMOVAL TOOL NL 3/8	150/600	**0.17**
BPTOOL1/2NL	BRS PUSH REMOVAL TOOL NL 1/2	150/600	**0.20**
BPTOOL3/4NL	BRS PUSH REMOVAL TOOL NL 3/4	100/400	**0.35**
BPTOOL1NL	BRS PUSH REMOVAL TOOL NL 1	50/200	**0.45**
Stiffener for PEX			
BPSTIFF3/8NL	BRS PUSH PEX STIFFENER NL 3/8	400/1600	**0.35**
BPSTIFF1/2NL	BRS PUSH PEX STIFFENER NL 1/2	400/1600	**0.35**
BPSTIFF3/4NL	BRS PUSH PEX STIFFENER NL 3/4	200/800	**0.50**
BPSTIFF1NL	BRS PUSH PEX STIFFENER NL 1	150/600	**0.70**

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SECTION 7
TAPES, SEALANTS & SOLVENT CEMENTS

PRODUCT LINE	PAGE
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HTST Series

NO LEAD LEAD-FREE

Imported PTFE Thread Seal Tape Features:

- Medium density thread seal tape requires fewer wraps.
- Manufactured from 100% virgin PTFE.
- 3.5 mil thick.
- Mil. Spec. T-27730A.
- Meets ASTM D-3308.
- Not for use on oxygen lines.

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Width	Length	Color	Ctn/Case Qty	List Price
HTST260-1/2	1/2”	260 inches	White	144/576	$ 1.50
HTST260-3/4	3/4”	260 inches	White	144/576	2.16
HTST260-1	1”	260 inches	White	144/576	2.26
HTST520-1/2	1/2”	520 inches	White	144/576	2.23
HTST520-3/4	3/4”	520 inches	White	144/576	2.62
HTST520-1	1”	520 inches	White	144/576	3.40



HTST SS Series

NO LEAD LEAD-FREE

HARVARD® Master Contractor™ Imported PTFE Thread Seal Tape For Stainless Steel Threads Features:

HARVARD MASTER CONTRACTOR™

- High density thread seal tape for stainless steel threads.
- Silver color. 4 mil thick.
- Impregnated with nickel for smooth thread connections.
- Prevents galling and seizing during assembly.
- No need for additional thread seal paste.
- Meets ASTM D-3308. Mil. Spec. T-27730A.
- Not for use on oxygen lines.

Part Number	Width	Length	Color	Ctn/Case Qty	List Price
HTST120-1/2SS	1/2”	120 inches	Silver	144/576	2.54
HTST260-1/2SS	1/2”	260 inches	Silver	144/576	4.76
HTST520-1/2SS	1/2”	520 inches	Silver	144/576	10.21



HTST XHD Series

NO LEAD LEAD-FREE



HARVARD® Master Contractor™ Imported Extra High Density PTFE Thread Seal Tape Features:

HARVARD MASTER CONTRACTOR™

- Professional grade density.
- Thickness 3.5 mil, density 0.8g/cm^3
- Same as Blue Monster™ and Hercules® Megatape.
- Use on steel, stainless steel, brass, aluminum, copper and all plastics.
- No need for additional thread seal paste.
- White color.
- Mil. Spec. T-27730A. Meets ASTM D-3308. UL Listed.
- Counter display packed.
- Not for use on oxygen lines.

Blue Monster™ is a trademark of The Mill Rose Company. Hercules® is a registered trademark of Oatey.

Part Number	Width	Length	Color	Display Ctn/Case Qty	List Price
HTST260-1/2XHD	1/2”	260”	White	150/900	$ 1.42
HTST520-1/2XHD	1/2”	520”	White	100/600	2.14
HTST1429-1/2XHD	1/2”	1429”	White	45/270	5.04
HTST260-3/4XHD	3/4”	260”	White	100/600	2.07
HTST520-3/4XHD	3/4”	520”	White	100/600	3.07
HTST1429-3/4XHD	3/4”	1429”	White	27/162	7.36

Tapes - PTFE Thread Seal



HTT Series

NO LEAD ✓ LEAD-FREE

Made in USA PTFE Thread Seal Tape Features:

- UL Listed.
- 100% virgin PTFE.

HTT260/HTT520 Medium Density PTFE Tape
- White general purpose
- Medium density.

HTT260-1/2SS Gray Stainless Steel PTFE Tape
- Nickel pigment added for use on all stainless steel threads.
- Prevents galling, seizing and corrosion.
- High density for course SS threads.

HTT260-1/2PP Pink Plumbers PTFE Tape
- For plumbers and pipe fitters.
- Pink to signify heavier than standard or medium density.

HTT260-1/2GAS Yellow Gas Service PTFE Tape
- For gas lines of all types- Natural gas, butane, propane.

HTT260-1/20XY Green Oxygen PTFE Tape
- Green for oxygen applications. Grease free.
- For all oxygen lines. Will not support combustion.

HTT260-1/2XHD White Extra High Density PTFE Tape
- For all industrial applications.
- Can be used for water, oil, chemical, medical or food processing.

Part Number	Color	Usage	Thickness	Density	Temp Range	Specs
HTT260	White	General	3.5 mil	.90	-450°F to +550°F	Mil T-27730A
HTT520	White	General	3.5 mil	.90	-450°F to +550°F	Mil T-27730A
HTT260-1/20XY	Green	Oxygen lines	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA58092
HTT260-1/2PP	Pink	Plumbing	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA
HTT260-1/2XHD	White	Industrial	3.5 mil	1.20	-450°F to +550°F	Mil T-27730A
HTT260-1/2SS	Light Gray	Stainless Steel	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA58092
HTT260-1/2GAS	Yellow	Gas lines	3.5 mil	1.20	-450°F to +550°F	Mil T-27730A

Part Number	Width	Length	Color	Case Qty	List Price
HTT260	1/2"	260 in	White	144	$ 2.98
HTT520	1/2"	520 in	White	144	4.26
HTT520-3/4	3/4"	520 in	White	144	5.90
HTT520-1	1"	520 in	White	144	7.50
HTT260-1/20XY	1/2"	260 in	Green	144	7.03
HTT260-1/2PP	1/2"	260 in	Pink	144	7.03
HTT260-1/2XHD	1/2"	260 in	White	144	7.03
HTT260-1/2SS	1/2"	260 in	Light Gray	144	7.03
HTT260-1/2GAS	1/2"	260 in	Yellow	144	7.03



T60NL

General Purpose NO LEAD Vinyl Electrical Tape Features:

- **Third party certified to NSF/ANSI 372.**
- Economical, flexible, general purpose electrical tape.
- Use for insulation, protective jacketing and harnessing.
- 7 mil thickness.
- Temperature Range 32ºF and 176ºF.
- Meets mil spec. MIL-I-7798A.
- Imported

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
T60NL	7 mil	3/4" x 60 feet	Black	64	$ 2.12



AWT60NL Series

Premium All Weather NO LEAD Vinyl Electrical and Pipe Wrap Tape Features:

- **Third party certified to NSF/ANSI 372.**
- For use in **all weather** applications.
- Use for insulation, protective jacketing and harnessing and pipe wrap.
- 7 mil thickness, 3/4" or 2" width.
- Temperature range 14°F and 176°F.
- Meets Mil. Spec. MIL-1-7798A.
- Tested to ASTM D-1000
- Imported

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
AWT60NL	7 mil	3/4" x 60 feet	Black	64	$ 2.39
AWT60-2NL	7 mil	2" x 60 feet	Black	48	6.07

Tapes - 3M Vinyl, Rubber



1700

LISTED 539H
Insulating Tape

LR48769

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

3M® 1700 Temflex™ Vinyl Electrical Tape Features:

- Economical, flexible, general purpose electrical tape.
- Use for protective jacketing and harnessing.
- 7 mil thickness.
- Temperature rating to 176°F, 80°C.
- Meets ASTM D-2301 Type 1.
- Imported

Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
1700	7 mil	3/4" x 60 feet	Black	100	$ **4.49**



TS Series

ISO 900 X

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

• Scotch® is a 3M registered trademark

3M® Scotch® Professional Use Premium Vinyl Plastic Tape Features:

- Highly comformable, super stretchy in **all weather** applications.
- Resists UV rays, abrasion, corrosion, alkalies and acids.
- Flame Retardent.
- 7 mil tape thickness Super 33+. 8.5 mil thickness Super 88
- Temperature range 0°F to 220°F.
- Use as a primary insulation for wire cable splices up to 600V.
- Use as protective jacketing.
- Made in USA. Made for AGI in a ISO 900X facility.

Super 33+
ASTM D-3005 Type I
UL273 & CSA LR48769

Super 88
MIL-I-24391C
ASTM D-3005 Type I
UL 539H & CSA LR48769

Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
TS33-20	7 mil	3/4" x 20 feet	Black	10/100	$ 6.67
TS33-44	7 mil	3/4" x 44 feet	Black	10/100	11.68
TS33-66	7 mil	3/4" x 66 feet	Black	10/100	15.59
TS88-66	8.5 mil	3/4" x 66 feet	Black	10/100	19.77



2242

ISO 900 X

NO LEAD
LEAD-FREE

3M® 2242 Linerless Electrical Rubber Tape Features:

- Multi-purpose rubber insulating tape.
- Designed for use in splicing and terminating wires and cables.
- Rated up to 194°F (90°C) continuous.
- Highly comformable, linerless EPR (Ethylene Propylene Rubber) based tape.
- No Liner for easier handling.
- Excellent thermal dissipation for longer cable life.
- Excellent moisture seal.
- With Flame retartant.
- Meets HH-I-553C and ASTM D-4388 Type I, II, III.

Part Number	Thickness	WidthxLength	Ctn Qty	List Price
2242	30 mil	3/4" x 15 feet	24	$ 23.35

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AGDUCT / HDT / EDT Series

Meets UL723

ISO 9001

Contractor/Industrial Grade Cloth Reinforced Duct Tape Features:

- Multi-purpose duct tapes.
- Polyethylene coated cloth backing.
- Natural rubber based adhesive.
- Temperature range: 40°F to 200°F.
- Superior tensile strength, adhesion and tack.
- For seaming, sealing and hanging polyethylene or vinyl.
- HDT Series recommended for pool liner installations.
- Conformable and will not curl or twist during application.
- Manufactured for AGI in an ISO9001 facility.

Part Number	Thickness	Width x Length	Color	Ctn Qty	List Price
EDT260	7.5 mil	48mm x 55m (2" x 60 yds)	Silver	24	$ 13.72
AGDUCT	9 mil	48mm x 55m (2" x 60 yds)	Silver	24	21.90
HDT260	10 mil	48mm x 55m (2" x 60 yds)	Silver	24	25.91
HDT260 BLUE	10 mil	48mm x 55m (2" x 60 yds)	Blue	24	25.91
HDT260 RED	10 mil	48mm x 55m (2" x 60 yds)	Red	24	25.91
HDT260 BLACK	10 mil	48mm x 55m (2" x 60 yds)	Black	24	25.91
HDT260 WHITE	10 mil	48mm x 55m (2" x 60 yds)	White	24	25.91

Part Number	Adhesive	Total Thickness (mil)	Tensile Strength (lb/in)	Adhesion to Steel (oz/in)	Flame Spread	Smoked Developed Index
EDT260	Rubber	7.5	19.0	28	--	--
AGDUCT	Rubber	9.0	29.0	45	--	--
HDT260	Rubber	10.0	24.0	60	10	5

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

BOSS® Expanding Foam Sealant



BOSS® 333 Expanding Foam Sealant Features:

- Easy to use, multi-purpose urethane foam.
- Unlike ordinary sealants, it expands **three** times it's original volume.
- Adheres to all building materials except PTFE, silicone and polyethelene.
- Seals by expanding into gaps, cracks and crevices.
- Uses including insulating, sealing and filling gaps around pipes, plumbing fixtures,ductwork and foundations.
- UL classified.

DIRECTIONS FOR USE:

1. Shake can before and during use.
2. Surface must be clean and free of grease and oil.
3. Can must be held UPSIDE DOWN during application.
4. Insert straw into void and depress the trigger. The use of protective gloves is highly recommended.
5. Fill void 50% full to allow for expansion.
6. Uncured foam can be cleaned with acetone or paint thinner.
7. Cured foam can be trimmed, sanded, painted r stained. Foam MUST be painted or coverred if application is exposed to UV light.

R19028
CAULKING AND SEALANTS
SURFACE BURNING CHARACTERISTICS
APPLIED TO INORGANIC REINFORCED
CEMENT BOARD*
FLAME SPREAD: 5 SMOKE DEVELOPED: 20
38FN

* Tested as applied in three 3/4" beads 5" on center covering 12.5% of the exposed test sample area.

Part Number	Description	Ctn Qty	List Price
33316B *	Expanding Foam Sealant, 12 oz can w/ application tip	12	$ 16.62
33324B *	Expanding Foam Sealant, 24 oz can w/ application tip	12	32.51

* SHIPPING NOTE: Ground shipping only. Can NOT be shipped via air.

BOSS® Adhesives, Lubricants & Sealants

BOSS® line of adhesives, grouts and lubricants are specifically formulated for use with pools and whirlpool baths.





BOSS® 801 Neutral Cure Silicone Adhesive Features:

NO LEAD ✓ LEAD-FREE

- A one part, low odor, non-corrosive, oxime cure adhesive and sealant.
- Provides excellant adhesion to ceramic tile, spa jets, skimmers, lighting fixtures, plumbing and fiber optic lighting.
- Adheres well to fiberglass, ABS, acrylic, PVC, wood and masonry.

BOSS® 802 Acetoxy Cure Silicone General Purpose Adhesive Features:

- A one part, acetoxy cure, adhesive/sealant.
- Performs well in jet sealing applications.
- Designed for many other pool and spa maintenance and repair needs.

BOSS® 804 Neutral Cure Silicone Ceramic Tile Grout Features:

- A one part, low odor, non-corrosive, oxime cure silicone grout.
- Spreads easily and provides ample tooling time.
- Excellent ahdesion to all ceramic tiles.







BOSS® 820 Pool & Spa Silicone Lubricant Features:

- Water washout resistant and non-solidifying compound.
- Provides superb lubricant for rubber o-rings.
- Non-corrosive, silicone lubricant compound.

BOSS® 315 RTV 100% Silicone Sealant Features:

- 100% Silicone rubber clear adhesive/sealant.
- Paste-like one component material cures to a tough, rubbery solid when exposed to moisture in the air. Can be applied overhead or on walls without sagging.
- Adheres to clean metal, glass, wood, ceramic and painted or plastic surfaces.

BOSS® 370 HVAC/R Silicone SealantFeatures:

- For sealing heating, ventilation or air conditioning duct work.
- A one part acetoxy cure adhesive/sealant.
- Adheres well clean metal, glass, wood, silicone resins, rubber, ceramics & plastics.

Part Number	Description	Ctn Qty	List Price
80100B	Silicone Adhesive Clear, 10.3 oz cart	12	$ 21.65
80101B	Silicone Adhesive White, 10.3 oz cart	12	21.65
80200B	Silicone Adhesive Gen Purpose, Clear 10.3 oz. cart	12	**15.29**
80201B	Silicone Adhesive Gen Purpose, White 10.3 oz cart	12	**15.29**
80131B	Silicone Adhesive Grout, Clear 3 oz. tube	12	10.82
80401B	Silicone Ceramic Tile Grout, White 10.3 oz cart	12	21.44
82001B	Pool & Spa Lubricant Clear, 1 oz tube bulk	288	6.88
82002B	Pool & Spa Lubricant Clear, 1 oz tube 36 pc tub	36	330.89
82030B	Pool & Spa Lubricant Clear, 3 oz tube	12	10.44
82000B	Pool & Spa Lubricant Clear, 5.3 oz tube	12	17.49
31500B	RTV Silicone Seal CLR 10.0 oz tube	12	**20.81**
31580B	RTV Silicone Seal CLR 8 oz pressurized can	12	**37.67**
37000B	HVAC/R Silicone Sealant Clear cartridge	12	**19.13**
37001B	HVAC/R Silicone Sealant White cartridge	12	**19.13**
37003B	HVAC/R Silicone Sealant Aluminum cartridge	12	**19.13**

NEW

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In the United States: **Phone (800) 776-2266** **Fax (800) 729-3299**

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Dow Corning® General Purpose Silicone Sealant



PLB 90 Series

NO LEAD LEAD-FREE

Dow Corning ® General Purpose Silicone Sealant Features:

- Cures to 100% silicone rubber.
- One part, ready to use. Fast cure, high strength.
- Resistant to sunlight & weather extremes.
- Remains flexible; will not become brittle, crack or tear.
- Removable, reusable, resealable nozzle.
- Meets the requirements of FDA Regulation No. 21CFR177.2600.

Dow Corning General Purpose Silicone Sealant is a one-part acetoxy cure silicone sealant for general purpose applications. Provides a flexible bond and will not harden or crack. Trademate General Purpose Silicone Sealant is a high performance sealant, with +/- 25% movement capability when properly applied.

It can be used as a bedding material, formed-in-place gaskets and bumpers. Adhere trim, name plates, signs. Seal around sinks, faucets, showers, tubs, toilets and vents. It can be used for most marine applications. Seal between hull and deck, most boat decks, windows, port lights, windshields and hatches.

Product Properties:

Tooling Time *	5-10 minutes
Tack Free Time *	15-20 minutes
Complete Set-up time *	24 hours (1/8")
Cure System	Acetoxy
Application Temperture Range	-20°F to 122°F
	-29°C to 50°C
As Cured (after 7 days)	
Durometer hardness Shore A	27 points
Tensile Strength	350 psi
Elongation	600 %
Temperture Range - continuous	-40°F to 350°F
	-40°C to 176°C
Movement capability	+/- 25%

* At 77°F (25°C) and 50% relative humidity

Approval/Specifications:

- ASTM C920 Type S, Grade NS, Class 25, Use NT, G and A.
- Federal Specification TT-S-001543A, Type non-sag, Class A,
- Federal Specificaiton TT-S-00230C, Type II, Class A

Storage:

- Store below 90° F (32°C) in a dry place.
- To store short term, replace cap.
- To store long term, unscrew nozzle, screw cap in cartridge and store nozzle in cap.

Limitations:

- Not for structural glazing
- Not paintable
- Not suited for prolonged submersion in water or below-grade applications.
- May not adhere to oily woods or be compatible with substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluroethylene.
- Not suitable for surfaces that might bleed oils, plasticizers or solvents or porous surfaces such as cement-like materials, stone or surfaces prone to attack by weak acids.
- May not cure properly if used in spaces confined from atmospheric moisture.
- May cause corrosion on some brass, copper, zinc or zinc-alloy containing fixtures (galvanized).
- This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
- Not for use where abrasion and physical abuse are encountered.



9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty	List Price
PLB90C	10.3 oz. cartridge	Clear	12	$ **13.22**
CG9	9" Ratchet	Blue	20	7.11

Dow Corning® Tub, Tile & Ceramic Silicone Sealant



PLB 100 Series

Dow Corning® Tub, Tile & Ceramic Silicone Sealant Features:

- Cures to 100% silicone rubber.
- One part, ready to use. Fast cure, high strength.
- **Cured silicone is mildew resistant**
- Remains flexible; will not become brittle, crack or tear.
- Removable, reusable, resealable nozzle.
- Clear & almond colors meet the requirements of FDA Regulation No. 21CFR177.2600.

Dow Corning Tub, Tile & Ceramic Silicone Sealant is a one-part acetoxy cure silicone sealant for non-porous surface applications requiring a **mildew-resistant** sealant. This versatile material can be used as an adhesive, selant, or grout for repairing or replacing ceramic tiles as well as in many other plumbing applications. It can be used for tub and shower enclosures.

It can be used to form watertight seals around bathtubs, shower enclosures, sink vanities, countertops, lavatories, faucets, saunas, hot tubs, plumbing fixtures, drains, piping, shower doors and floor seams.

NO LEAD LEAD-FREE

Product Properties:

Tooling Time *	5-10 minutes
Tack Free Time *	15-20 minutes
Complete Set-up time *	24 hours (1/8")
Cure System	Acetoxy
Application Temperture Range	-20°F to 122°F
	-29°C to 50°C
As Cured (after 7 days)	
Durometer hardness Shore A	27 points
Tensile Strength	325 psi
Elongation	600 %
Temperture Range - continuous	-40°F to 350°F
	-40°C to 176°C
Movement capability	+/- 25%

* At 77°F (25°C) and 50% relative humidity

Approval/Specifications:

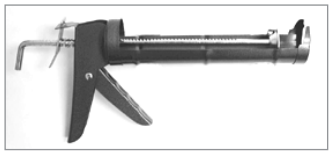
- ASTM C920 Type S, Grade NS, Class 25, Use NT, G and A.
- Federal Specification TT-S-001543A, Type non-sag, Class A,
- Federal Specificaiton TT-S-00230C, Type II, Class A

Storage:

- Store below 90° F (32°C) in a dry place.
- To store short term, replace cap.
- To store long term, unscrew nozzle, screw cap in cartridge and store nozzle in cap.

Limitations:

- Not for structural glazing
- Not paintable
- Not suited for prolonged submersion in water or below-grade applications. Not for aquarium use as product contains a fungicide.
- May not adhere to oily woods or be compatible with substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluroethylene.
- Not suitable for surfaces that might bleed oils, plasticizers or solvents or porous surfaces such as cement-like materials, stone or surfaces prone to attack by weak acids.
- May not cure properly if used in spaces confined from atmospheric moisture.
- May cause corrosion on some brass, copper, zinc or zinc-alloy, containing fixtures (galvanized).
- This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
- Not for use where abrasion and physical abuse are encountered.



9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty	List Price
PLB103C	3 oz tube	Clear	12	$ **10.86**
PLB103W	3 oz tube	White	12	**10.86**
PLB100C	10.3 oz cartridge	Clear	12	**14.69**
PLB100W	10.3 oz cartridge	White	12	**14.69**
CG9	9" Ratchet	Blue	20	7.11

American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Boss® 136 Firestop/Draft Sealant



BOSS® 136 Firestop/Draft Sealant is a single component fire rated sealant and is a noncombustible filler caulking used for firestopping applications in the annular space around wires, pipes, ducts, vents, cable lines and other penetrations to the building envelope. It is a non-slumping sealant that sets to form a hard surface. **BOSS® 136** can be applied to any gap or penetration where the specification is noncombustible and/or ASTM-E136 rated. **BOSS® 136** is to be used for interior applications only.

The noncombustible specification is common to one and two family construction and to non-rated penetrations in multifamily and commercial construction. **BOSS® 136** is colored red for ease of inspection.

In the event of a fire **BOSS® 136** will prevent the spread of fire, smoke and toxic gases through penetration openings.

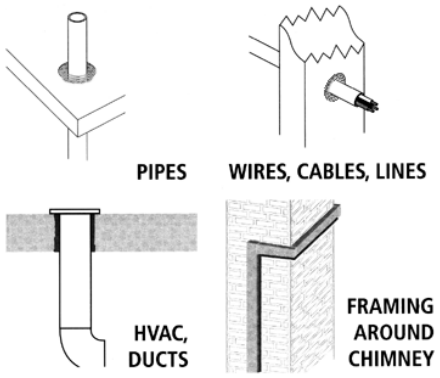
BOSS® 136 serves to form a "gasket or seal against air infiltration" as required by the Model Energy Code in both performance and prescriptive versions.

REQUIRED AREAS OF USAGE FOR FIRESTOPPING*

Seal ALL areas of penetration as shown in the illustration below.

- ALL - Exterior wall studs (including horizontal penetrations.)
- ALL - Floor penetrations.
- ALL - Ceiling penetrations.
- ALL - Framing around chimneys (at ceiling and floor levels.)

* Always consult local buliding codes.



FEATURES:

- Completely non-toxic and contains no asbestos or PCB's.
- Noncombustible.
- Applied with a conventional caulking gun.
- Easily applied sealant with water cleanup capabilities.
- An accredited fire block/smoke seal caulk.
- Single component system, no mixing necessary and no additions required.
- Meets residential construction code approvals including I.R.C.
- For interior applications only.
- Available in traditional cartridge and NEW aerosol can.
- Excellent adhesion to a wide variety of substrate material.

APPLICABLE STANDARDS

- UBC Page 1-378, 1997 edition.
- CABO Section 602.7, Item 4 of the 1995 edition.
- BOCA (NBC) regulation 704.4.1.1 1996.
- ASTM E-136.

Part Number	Description	Ctn Qty	List Price
BOSS136	10.1 oz cartridge	12	$ **13.06**

Boss® 136 Firestop/Draft Sealant

HOW TO USE

- Cut nozzle to desired bead size. Insert cartridge into standard caulking gun.
- For a smooth seal, hold at 45°angle and apply by pushing sealant ahead of nozzle.
- Apply at 40°F or above.
- To ensure good adhesion, all surfaces should be clean and free of dust, oil, loose materials or any other substances.
- Make sure that BOSS® 136 makes complete contact with the entire surface of the opening and also the surface of the penetrating item.

Always follow cartridge directions. Clean the area to be treated so that it is free of all particles and debris. For large openings, mineral wool fibers can be used as a backer to help hold the product in place until cured. Steel screen wire can be stapled in place over the material when a large opening is overhead or configured such that the material will not support it's own weight during cure.

TEMPERATURE RANGE

BOSS® 136 freezes in the cartridge at temperatures below 32° F. The product can be warmed and applied at any temperature but will not cure below 40° F. Freeze thaw cycles do not alter the cured product. Cure time may exceed 72 hours at non-freezing temperature.

CAUTION

- Keep from freezing
- Do not take internally
- Keep out of reach of children.

CONTAINS

- Sodium Silicate CAS# 1344-09-8.

COLOR

Boss® 136 Fire/Smoke and Draft Sealant is red in color for ease of inspection.

PACKAGING

Boss® 136 Firestop/Draft Sealant is available in standard 10.1 fl. oz cartridges and 11.0 oz. net wt. aerosol cans.

STORAGE & SHELF LIFE

Boss® 136 should not be stored where the ambient temperatures exceed 120°F or below 35°F. Should freezing occur, insure that product is defrosted fully prior to use. Shelf life is 12 months from the date of shipment. Ensure stock is rotated.

SPECIFICATIONS

Meets or exceeds ASTM E-136 for noncombustible building materials. Conforms to BOCA National Building Code (1996), CABO one and two family dwelling code (1995), Uniform Building Code (1997), Section 796, Fire Block and Draft Stop. BOCA-SBCCI-ICBO-NFPA Building Codes. Consult you local code official for the proper use of product.

CLASSIFIED c UL us

NONCOMBUSTIBLE BUILDING MATERIALS IN ACCORDANCE WITH ASTM E-136
<9NA6>

ALSO CLASSIFIED IN ACCORDANCE WITH ASTM E 136-96a, "Standard test method for the behavior of materials in a vertical tube furnace at 750°C."

American Granby™

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



DP600

Horizontal Concrete Repair Features:

Hardens in as little at 5 minutes,

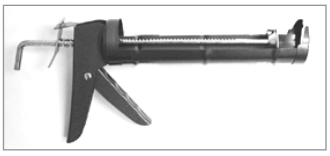
Cracks and spalls in concrete floors are an eyesore as well as a potential safety risk. Fixing them has meant either hiring and waiting for an outside contractor or doing it youself with a repair method that takes the floor out of service for up to 24 hours. Now with 3M Concrete Repair, you save money and time.

- Self-leveling urethane flows smoothly into cleaned cracks and gaps and hardens in as little as 5 minutes. A fork lift can pass over a repair in as few as 15 minutes.
- Hardens to any depth without cracking or shrinking.
- Flexible urethane expands and contracts for durability that outlasts repairs made with concrete.
- Do it yourself with a common caulking gun and eliminate the cost and wait for an outside contractor.
- *Easy to use - Just clean damaged area and fill. With every squeeze of the caulking gun trigger, cartridge nozzle meters and mixes precise proportions for optimum performance.*





Part Number	Description	Ctn Qty	List Price
DP600	Concrete Repair, 8.4 fl oz cartridge supplied with 2 nozzles	6	$ 161.46



9” Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty	List Price
CG9	9” Ratchet	Blue	20	$ 7.11

Concrete Repair



Horizontal Concrete Repair Specifications:

- Gray, self-leveling urethane concrete repair.
- 8.4 fl oz. cartridge of concrete repair and 2 nozzles.
- Work life of 70 sec.
- Handling time of 5 minutes
- Cure time of 60 minutes

Applications:

- Repairing cracks and spalls on concrete floors or horizontal surfaces.
- Setting anchors in concrete floors or horizontal surfaces.
- Light-duty custom threading and anchoring.
- Use outdoors or in highly ventilated area.

Approximate coverage:

Crack Width	Crack Depth	Lineat Feet per 8.4 fl. oz.
1/4”	1/4”	19.3
1/2”	1/4”	9.9
3/4”	1/4”	6.4
1”	1/4”	4.9
1/4”	1/2”	9.9
1/2”	1/2”	4.9
3/4”	1/2”	3.0
1”	1/2”	2.0

Bead Size dimension	Linear Feet per 8.4 fl oz.
1/16”	815.0
1/8”	205.0
1/4”	51.9
3/8”	22.2
1/2”	12.4

Quick and Easy Spall Repair



Clean
Remove all loose material from area to be filled. Concrete should be dry and grease-free.



Fill
Dispense product into deepest part of repair areas, slightly overfilling. Product self-levels and is tack-free in as little as one minute.



Finish
In as little as 15 minutes, product can be sanded to remove rough edges. It can be painted within one hour.

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3M™ BLUE 72 Spray Adhesives

ISO 9002

- Pressure sensitive repositionable adhesive
- Aggressive tack and low soak-in.
- Use it for temporarily positioning and holding many fabrics.
- Precise spray control with a wide spray pattern.
- Ideal for pool liner installation
- Manufactured for AGI in an ISO 900 facility.



3M™ ORANGE FOAM FAST 74 Spray Adhesives

- 74 Foam Fast Adhesive gives fast tack with foam-tearing strength and a soft, non-dimpling glue line.
- Bonds foam to foam, foam to metal.
- Non-misting, precise spray pattern.
- Not for sale in California. Does not meet Aerosol Consumer Products VOC limits.
- Manufactured for AGI in an ISO 900 facility.

Product	Bond Type	Bonding Time	Spray Width	Spray Pattern	Color	Temperature Resistance	Coverage
72	Temp or Permanent	One side-8 hrs Two sides-7 days	3-3.5 in	Controlled Lace	Blue	120°F 48°C	100 sq ft. 9.3 m^2
74	Permanent	One side -not recommended Two sides-15 minutes	1-3 in variable	Lace	Light Orange	120°F 48°C	260 sq ft. 25 m^2

Part Number	Can Size	Ctn/Pallet Qty	List Price
BLUE 72	Blue Spray Adhesive 24 fl oz. can 17.33 oz. net	12/768	$ **45.17**
ORANGE74	Orange spray adhesive 24 fl oz. can 17.33 oz. net	12/768	**54.80**

Pallet pricing available. Call your Sales Representative.

Hand Cleaning Towels



SCRUBS® WATERLESS HAND CLEANING TOWELS

Rough Touch SCRUBS IN-A-BUCKET

Scrubs® is registered by Dymon Inc.

So unique they needed a patent! Powerful yet safe cleaning agents work together with an absorbent, non scratching abrasive hand cleaning towel. The result is hands that are clean and protected, with a pleasant fragrance...and are residue free. These shop size, durable towels quickly remove tough to clean substances including: Dirt, Heavy Grease, Adhesives, Lubricants, Oils, Ink, Tar, Wax, Caulk, Sealants, Paint and more.

Features:

- Pre-moistened, heavy duty towel with pumice scrubbing power.
- Works fast to loosen, dissolve and absorb dirt & grease.
- Deep cleaning scrubbers remove embedded grime easily.
- Conditions and softens hands... *No rinsing. No drying. No residue.*

Part Number	Description	Ctn Qty	List Price
SCRB72	Scrubs 72 Count Bucket	6	$ 51.50

American Granby

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204





Oatey Great Blue® and Great White® (with PTFE) Pipe Joint Compounds are non-separating thread sealant compounds formulated to seal threaded connections against leakage on metal and plastic pipe and fittings.

- Can be used on pipe made of: ABS, Aluminum, Iron, Brass, Copper, CPVC, Fiberglass, **PVC**, Polypropylene, Polyethylene and **STAINLESS STEEL**.
- Compounds permit a tighter assembly with lower torque, secure permanent sealing of threaded connections and allow for easy disassembly without stripping or damaging threads.
- For use on pipe up to and including 2" diameter.
- Soft set, flexible, non-hardening paste.
- Non-toxic, lead free, non-staining.
- Brush top applicator included.

Product Properties:	GREAT BLUE	GREAT WHITE W/ PTFE
Pressure Rating		
Liquids	10,000 psi	10,000 psi
Gases	3,000 psi	3,000 psi
Temperature Rating	-50°F to 400°F	-50°F to 400°F
Required Dry Time	Up to 125 psi, no wait	Up to 125 psi, no wait
	Over 125 psi, 4 hours	Over 125 psi, 4 hours
Appearance	Blue Paste	White Paste
Shelf Life	2 years from mfg	2 years from mfg

Approvals & Listings:

NO LEAD ✓ LEAD-FREE

CSA C US — Requirement 4-90

NSF — Standard 61 for potable water

IAPMO listed

NSF — Standard 61 for potable water

FGG-BM SYSTEM COMPATIBLE

FGG/BM System Compatible indicates that this product has been tested and is monitored on an ongoing basis to assure its chemical compatibility with FlowGuard Gold® water distribution and Blazemaster® fire sprinkler systems.

Directions for Use:

Clean all pipe threads. Be sure all joints are free from rust, scale, grease or other contamination. Remove any debris with a clean cloth or wire brush. Stir contents throughly and apply evenly to male threads.

Part Number	Description	Size	Color	Ctn Qty	List Price
31261	Great Blue Pipe Joint Compound	4 oz.	Blue	12	$ 11.24
31262	Great Blue Pipe Joint Compound	8 oz.	Blue	12	20.51
31263	Great Blue Pipe Joint Compound	16 oz.	Blue	24	32.16
31230	Great White PTFE Pipe Joint Compound	4 oz.	White	12	12.48
31231	Great White PTFE Pipe Joint Compound	8 oz.	White	12	24.37
31232	Great White PTFE Pipe Joint Compound	16 oz.	White	24	38.22
31233	Great White PTFE Pipe Joint Compound	32 oz.	White	12	67.98

PVC Solvent Cements

United Elchem
UNI-WELD

PVC REGULAR CLEAR CEMENTS LO-VOC



2200 Series
CLEAR

- Regular bodied, clear cement for use on PVC pipe and fittings. Up to 4" for DWV Sch 40 and up to 2" for Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Sets up quickly.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
2256S	8 oz.	24	14.18
2246S	16 oz.	24	21.23
2236S	32 oz.	12	37.41
2224	1 gallon	6	137.14

PVC REGULAR CLEAR ADVANCED CEMENTS LO-VOC



2800 Series
CLEAR

- Regular bodied, clear cement for use on PVC pipe and fittings. Up to 4" for DWV Sch 40 and up to 2" for Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe, gas, conduit and DWV.
- Sets up quickly.
- Recommended application temperature 40°F to 100°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
2866S	4 oz.	24	$ 8.60
2856S	8 oz.	24	14.45
2836S	32 oz.	12	44.49
2824	1 gallon	6	156.44

PVC MEDIUM CLEAR CEMENTS LO-VOC



1200 Series
CLEAR

- Medium bodied, clear cement for use on PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, drain, waste and vent pipe, and potable water
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
1256S	8 oz.	24	14.23
1246S	16 oz.	24	24.93
1236S	32 oz.	12	38.88
1224	1 gallon	6	131.34

American Granby
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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

United Elchem
UNI-WELD

PVC MEDIUM GRAY CEMENTS — LO-VOC



1600 Series
GRAY

- Medium bodied, gray colored cement for use on PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
1636S	32 oz.	12	48.28
1624	1 gallon	6	152.12

PVC MEDIUM "HOT" BLUE CEMENTS — LO-VOC — PLUMB-TITE™



2000 Series
BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Blue color fades to clear in direct sunlight.
- No primer needed on non-pressure DWV, where local codes permit.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
2066S	4 oz.	24	$ 11.12
2056S	8 oz.	24	17.37
2046S	16 oz.	24	26.42
2036S	32 oz.	12	47.71
2024	1 gallon	6	214.63

PVC Solvent Cements

United Elchem
UNI-WELD

PVC ALL WEATHER CEMENTS LO-VOC POLAR-WELD



2600 Series
CLEAR

- Medium bodied, clear cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Non-pressure DWV, up through 4" diameter: No primer needed, where local codes permit.
- **Formulated for fast initial set-up at temperatures down to -15°F to 110°F.**
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
2656S	8 oz.	24	15.30
2646S	16 oz.	24	26.23
2636S	32 oz.	12	41.32

PVC MEDIUM RAIN-R-SHINE® BLUE CEMENTS LO-VOC



308 Series
BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Pool/Irrigation installations.
- **No primer needed on non-pressure DWV, where local codes permit.**
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
30890	4 oz.	24	$ 10.53
30891	8 oz.	24	17.02
30893	16 oz.	24	24.41
30894	32 oz.	12	49.29
30895	1 gallon	6	162.84

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United Elchem
UNI-WELD

PVC MEDIUM "HOT" BLUE CEMENTS LO-VOC TURF-TITE



2400 Series BLUE

- Medium bodied, blue colored cement for PVC pipe and fitting. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Irrigation installations.
- Fades to clear in sunlight.
- No primer needed on non-pressure DWV, where local codes permit.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
2466S	4 oz.	24	$ 11.12
2456S	8 oz.	24	17.37
2446S	16 oz.	24	26.42
2436S	32 oz.	12	47.71
2424	1 gallon	6	149.62

PVC MEDIUM "HOT" BLUE CEMENTS LO-VOC POOL-TITE



2300 Series BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe, gas, conduit, PVC flex pipe and DWV.
- **Color fades to clear in sunlight.**
- **No primer needed on non-pressure DWV, where local codes permit.**
- Recommended application temperature 40°F to 100°F.
- Works on flex to rigid pipe applications.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
2366S	4 oz.	24	$ 11.12
2356S	8 oz.	24	17.37
2346S	16 oz.	24	25.62
2336S	32 oz.	12	46.27
2324	1 gallon	6	149.62

PVC, CPVC Solvent Cements

United Elchem
UNI-WELD

PVC MEDIUM CLEAR FAST SET CEMENTS LO-VOC POOL-CLEAR



2900 Series
CLEAR

- Medium bodied, clear cement for PVC pipe and fitting. Up to 6”
- Recommended for Sch 40 and Sch 80 pipe and fittings.
- Also recommended for PVC flex pipe.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
30875	4 oz.	24	$ 10.61
2946S	16 oz.	24	25.91
2936S	32 oz.	12	46.08

CPVC MEDIUM ORANGE CEMENTS LO-VOC



3200 Series
ORANGE

- Medium bodied, orange colored cement for use on CPVC pipe and fittings. Up to 6”.
- For copper tube size (CTS) and Sch 80, potable water pressure pipe.
- Recommended application temperatures down to 40°F to 110°F.
- Meets ASTM F-493.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
3256S	8 oz.	24	20.45
3236S	32 oz.	12	54.15

CPVC FLOWGUARD® GOLD™ LO-VOC 1-STEP YELLOW CEMENTS



319 Series

- Exceeds new environmental requirements and meets various CA district rules.
- For copper tube size (CTS) CPVC hot and cold potable water pipe and fittings up to 2” interference fit only.
- May be used without primer where local codes permit.
- For cold water systems and hot water systems up to 180°F.
- Faster cure time/reduced installation time.
- Meets ASTM F-493.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
31910	4 oz.	24	$ 14.31
31911	8 oz.	24	22.88
31912	16 oz.	24	41.25

American Granby
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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

PVC and Multipurpose Solvent Cements

United Elchem
UNI-WELD

PVC HEAVY DUTY CLEAR CEMENTS LO-VOC



1500 Series
CLEAR

- Heavy bodied, clear cement for PVC pipe and fittings. Up to 18" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Thick formula fills gaps in large diameter pipe and loose fitting joints.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
1546S	16 oz.	24	28.92
1536S	32 oz.	12	47.20
1524	1 gallon	6	145.35

PVC HEAVY DUTY GRAY CEMENTS LO-VOC



1700 Series
GRAY

- Heavy bodied, gray colored cement for use on PVC pipe and fittings. Up to 18" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Thick formula fills gaps in large diameter pipe and fitting.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
1746S	16 oz.	24	$ 32.78
1736S	32 oz.	12	53.87
1724	1 gallon	6	201.21

ALL PURPOSE MEDIUM MILKY CLEAR CEMENTS LO-VOC



308 Series
MILKY CLEAR

- Medium bodied, milky clear cement for **ABS, PVC or CPVC** up to 6".
- Recommended for pipe and fittings Sch 40 and Sch 80, potable water, conduit pipe and DWV.
- Recommended application temperature 40°F to 110°F.
- Meets performance requirements of ASTM D-2564, D-2235, F-493.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
30818	4 oz.	24	$ 11.76
30821	8 oz.	24	19.69
30834	16 oz.	24	27.66
30847	32 oz.	12	53.84
30848	1 gallon	6	166.16

ABS Solvent Cements

United Elchem
UNI-WELD

ABS MEDIUM BLACK CEMENTS LO-VOC



4400 Series BLACK

- Medium bodied, black cement for ABS pipe and fittings. Up to 6".
- For ALL types and grades or ABS pipe and fittings for DWV.
- **For all non-pressure applications.**
- Recommended application temperatures 40°F to 110°F.
- Meets ASTM D-2235.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
4466S	4 oz.	24	$ 9.35
4456S	8 oz.	24	14.46
4446S	16 oz.	24	27.51
4436S	32 oz.	12	40.78

ABS TO PVC TRANSITION GREEN CEMENTS LO-VOC



309 Series
GREEN

- Medium bodied, green colored cement for use in joining **ABS to PVC in non-pressure transition joints.**
- All schedules up to 6" pipe fittings.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-3138.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
30900	4 oz.	24	$ 9.11
30925	16 oz.	24	30.34
30926	32 oz.	12	53.78

American Granby
www.americangranby.com
In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

United Elchem
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CLEAR PRIMER - NSF LISTED LO-VOC



9300 Series
CLEAR

- A clear aggresive primer for use on PVC and CPVC pipe and fittings.
- All schedules and diameters.
- Removes all surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.
- Meets ASTM F-656.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
9366S	4 oz.	24	$ 10.43
9356S	8 oz.	24	13.57
9346S	16 oz.	24	24.72
9336S	32 oz.	12	35.32
9324	1 gallon	6	127.73

PURPLE PRIMER - NSF LISTED LO-VOC



8700 Series
PURPLE

- A purple tinted aggresive primer for use on PVC and CPVC pipe and fittings.
- **Exceeds new environmental requirements and meets various CA district rules.**
- For use in areas where plumbing code calls for verification that a primer has been used.
- Removes all surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.

Part Number	Size	Case Qty	List Price
8766S	4 oz.	24	$ 10.19
8756S	8 oz.	24	16.39
8746S	16 oz.	24	28.88
8736S	32 oz.	12	37.11
8724	1 gallon	6	153.28

BLUE PRIMER - NSF LISTED LO-VOC PRIME-TITE™



8000 Series
BLUE

- A blue-tinted aggresive primer for use on PVC and CPVC pipe and fittings.
- **Blue color fades to clear in direct sunlight.**
- Formulated to work with "TITE" products.
- Meets ASTM F-656.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty	List Price
8046S	16 oz.	24	32.80
8036S	32 oz.	12	58.17

Primers and Cleaners

United Elchem
UNI-WELD

PURPLE PRIMER/CLEANER LO-VOC



307 Series
PURPLE

- Purple tinted all purpose primer/cleaner for PVC and CPVC pipe and fittings.
- Removes surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.
- Less aggressive than clear primer and purple primer.
- Purple tint for verification for code.
- **Exceeds new environmental requirements and meets various CA district rules.**

Part Number	Size	Case Qty	List Price
30780	4 oz.	24	$ 10.26
30783	8 oz.	24	15.02
30796	16 oz.	24	24.79
30806	32 oz.	12	35.65
30768	1 gallon	6	118.35

CLEANER LO-VOC



7300 Series
CLEAR

- Clear cleaner for ABS, PVC and CPVC pipe and fittings.
- All schedules and diameters.
- **Exceeds new environmental requirements and meets various CA district rules.**
- Fast-acting cleaner removes surface dirt, grease and grime.
- Flows freely and evaporates quickly.

Part Number	Size	Case Qty	List Price
7366S	4 oz.	24	$ 8.50
7356S	8 oz.	24	11.81
7346S	16 oz.	24	19.55
7336S	32 oz.	12	27.15
7324	1 gallon	6	97.70

DAUBERS, APPLICATORS and EMPTY CANS





31275



31276

- Replacement product daubers and applicators.
- Reusable cone top metal containers.

Part Number	Size	Case Qty	List Price
DAUBERS & APPLICATOR			
31312	Dauber 32 oz quart can	48	$ 2.56
31310	Dauber 16 oz pint can	48	3.75
31309	Duaber 8 oz 1/2 pint can	24	3.71
31275	Roller applicator gallon can	12	36.73
31276	Swab applicator gallon can	12	36.73
EMPTY CANS			
30901	Gallon 2 7/8" mouth	6	26.15

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SECTION 8
SUPER LUBE®
DEVCON/PERMATEX®

PRODUCT LINE	PAGE
Devcon/Permatex® Industrial Products	Permatex 1-4
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www.americangranby.com

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Super Lube® is a patented, multi-purpose synthetic lubricant, containing SYNCOLON® (PTFE) particles held in suspension. Super Lube lasts longer and outperforms convential petroleum-based greases and oils. Packaging includes tubes, grease cartridges, aerosols, bottles, pails and drums.

How does the chemistry of SuperLube differ from conventional petroleum-based greases and mineral oils? Super Lube grease and oils are exceptionally pure lubricants because they are synthetic. This gives SuperLube very stable and predictable chemical properties. Petroleum-based machine and gear oils are made from refined crude oil and contain impurities which cannot be removed. These impurities interfere with film strength and wear protection. They also form deposits at high temperatures and solidify at low temperatures. Petroleum-based greases are formulated by adding lithium, calcium or sodium thickeners to petroleum-based oil.



31110

Super Lube Aerosol

NSF

A multi-purpose PTFE based synthetic lubricant available in aerosol form. Super Lube aerosol disperses and penetrates while lubricating & loosening rust and dirt. Super Lube aerosol offers continuous protection as it "sets up" and forms a grease film barrier that defends against oxidation. This barrier helps extend the life of equipment and reduces maintenance.

Super Lube Non-Aerosol Pump

NSF

Because of environmental concerns, many industrial facilities do not allow the use of aerosol products. Super Lube Oil with PTFE is available in a one quart trigger spray container to address these needs.



51600

Benefits:

- Synthetic with PTFE
- Provides more reliable lubrication and outlasts petroleum based greases & oils
- Non-toxic, odorless
- USDA H–1 for use in federally inspected meat & poultry plants.
- Remains free flowing in freezing temperatures
- High dielectric strength
- Water and saltwater waterproof
- Will not stain or harm wood, rubber, leather, plastics, fabric & paint
- Won't drip, run or evaporate
- 1A copper corrosion
- Excellent salt spray performance
- Repels dirt, dust, grit and grime
- Prevents rust and corrosion while reducing friction
- Reduces maintenance for longer machinery life

Applications:

- Plain & anti-friction bearings
- Ball & roller bearings
- Wheel bearings
- Chassis points
- Fifth wheels
- Electric motor bearings
- Disc brake assemblies
- Pumps
- Blowers
- Cams
- Slides
- Conveyors
- Chains
- Water pumps
- Valves
- Open gears

NO LEAD
LEAD-FREE

Super Lube ® and SYNCOLON ® are trademarks of SYNCO Chemical Corp.

Part Number (old)	Description	Case Qty	List Price
31040 (23755)	6 oz. aerosol	12	$ 15.76
31110 (20029)	11 oz. aerosol	12	17.75
51600 (24575)	32 oz. non-aerosol trigger spray	12	40.52

Lubricants - Super Lube®



11016

NO LEAD
LEAD-FREE

Super Lube Dri Lube (Dri-Film)

Super Lube Dri-Lube is a self-cleaning lubricant that actually cleans while lubricating. Super Lube Dri-Lube leaves behind a protective shield lubricant that will not attract dust. The dry coating provides a low coefficient of friction which gives excellent lubrication and release properties. Dri-Lube can be used on wood, metal and most plastics not under stress and has excellent thermal and chemical stability, forming a natural insulating barrier when used on electronics.

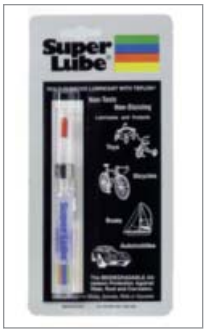
Benefits:

- Clean, non-staining
- For uses from -40°F to +500°F
- Non-conducting
- Easy to use
- Resists acid attacks
- Dries on contact
- Effective mold release agent
- Not affected by oil, water or solvents
- Long lasting lubrication
- Cleans while lubricating
- Stops squeaking, sticking
- Prevents corrosion

Applications:

- Industrial slides and glides
- High speed machinery
- Precision instruments
- Door and trunk hinges
- Pipe fittings
- Electronic & electrical equipment
- Chains
- Tools
- Zippers
- Lock cylinders
- Rusted nuts and bolts
- Cable pivots

Part Number	Description	Case Qty	List Price
11016	11 oz. aerosol	12	$ 20.19



51010

Super Lube Oil with PTFE

Super Lube Oil with PTFE is a premium synthetic oil with suspended PTFE particles that bond to surfaces to add lubricity to moving parts. Super Lube Oil with PTFE is used for applications which allow parts to be confined (ie. gear box). Use it as a general purpose lubricant for industrial machinery and equipment. Super Lube Oil with PTFE provides long life protection against friction, wear, rust and corrosion. Machinery lasts longer, downtime is reduced, and productivity is increased. Super Lube Oil with PTFE is safe on metal, rubber, plastic, wood, leather, fabric & painted surfaces.

Benefits:

- Waterproof
- Non-toxic (USDA rating H1)
- Synthetic with PTFE
- Reduces friction and wear
- Extends machinery & equipment life
- Reduces maintenance
- Viscosity stable
- Long-lasting

Applications:

- Plain, anti-friction & roller bearings
- Enclosed industrial gears
- Enclosed chains
- Gearhead motors
- Paper machines
- Conveyors
- Machine ways
- Reciprocating compressor lubricant additive
- Machine tools
- Centralized systems
- Straight, helical, bevel & spiral gears

Typical Properties:

Color: Translucent white
Viscosity tested to ASTM D445
cSt@ 100°F: 14-17
cSt @ 40°F: 118-122
ISO grade: 220
Replaces ISO grade: 150-320
Replaces SAE grade gear oils: 90
Viscosity index: 145
Shelf Life: 24 months

Part Number (old)	Description	Case Qty	List Price
51010SL (82333)	7 ml precision oiler	12	$ 8.07
51040 (82334)	1 gallon	4	150.96

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41150 21030

NO LEAD
LEAD-FREE

TYPICAL PROPERTIES
Color: Translucent white
Operating Temperature Range: -45° to 450°F
NLGI Grade (ASTM D1092): 2
Dropping point (ASTM D566): >500°F (260C)
Four ball test (ASTM D2783):
Load wear index: 81.73 kg
Weld point: 400 kg
Oxidation stability 100 hrs. (ASTM D942): 0 psi
Wheel bearing leakage (ASTM D1263): 0.2g
Copper corrosion 24 hrs @ 100°C (ASTM D4048): 1B, shiny
Shelf life: 24 months

Super Lube Grease

NSF

Super Lube is a patented synthetic NLGI grade 2 heavy-duty, multi-purpose lubricant with PTFE. Synthetic base fluids and the addition of PTFE micro powders combine to form a premium lubricant that provides long life protection against friction, wear, rust and corrosion. Machinery lasts longer, downtime is reduced, and productivity is increased.

Super Lube is a USDA listed Food Grade Lubricant, rated H1 for incidental food contact.

Super Lube will not run or drip, does not evaporate or form gummy deposits and will not dry out, melt or separate.

Super Lube is a synthetic, heavy duty lubricant that is compatible with most other lubricants. Super Lube Grease outlasts conventional greases 50-100% and has excellent adhesion.

Benefits:
- Clean
- Non-toxic
- Non-staining
- Dielectric
- USDA Rating H1
- Will not drip, run or evaporate
- Impervious to salt water, safe in potable water
- Long lasting
- Prevents rust & corrosion while reducing friction
- Compatible with conventional lubricants
- Repels dirt, dust, grit & grime
- Extends machinery and equipment life
- Reduces maintenance while saving time & money
- Reduces friction and wear
- Will not stain or harm wood, rubber, leather, plastic, fabrics and paint.

Super Lube Grease Replaces
- Lithium, Bentone, Calcium or Aluminim complex grease
- High & low temperature greases
- Electric motor grease
- Food grade grease
- Bearing, wheel bearing grease
- Multi-purpose grease
- Dielectric grease
- Valve sealant
- O-ring lubricant

Applications:
- Plain and anti-friction bearings
- Ball and roller bearings
- Wheel bearings
- Chassis points
- Fifth wheels
- Electric motor bearings
- Disc brake assemblies
- Pumps
- Blowers
- Cams
- Slides
- Conveyors
- Chains
- Water pumps
- Valves
- Open gears
- Switch assemblies
- Cables
- Fans
- Electronic equipment
- Deep drawing application

Part Number (old)	Description	Case Qty	List Price
21010 (82324)	1/2 oz. tube	12	$ 6.99
21030 (82325)	3 oz. tube	12	**11.80**
72350 (41150)	400 g cartridge	12	**25.46**
41160 (82329)	400 g jar	12	**26.00**
41050 (82330)	5 lb. pail	4	**135.30**
41030 (82331)	30 lb. pail	1	**762.38**

Lubricants - Super Lube®



NO LEAD
LEAD-FREE

Super Lube Air Tool Lubricant

Super Lube Air Tool Lubricant is formulated to meet the special requirements for industrial, household and agricultural tools. It absorbs water and eliminates any ice buildup and frost in air tools. Blended rust and corrosion inhibitors and a special base fluid oil minimizes wear and allows operation of air tools at temperatures as low as -40°F.

Applications:

- Air impact tools
- Drills
- Grinders
- Screwdrivers
- Sanders
- Percussion tools
- Household shop tools
- All air tool oil lubricated

Benefits:

- Wide temperture range
- Works on types of pneumatic equipment
- Prevents rust and corrosion
- Can be used as a light oil
- Gives worn tools new life
- Less friction and wear
- Protects against corrosives
- Less tendancy for bubbles
- Absorbs moisture
- Eliminates ice buildup and frost in air tools.

Part Number	Description	Case Qty	List Price
12004	4 oz. bottle	6	$ 9.76
12016	16 oz. bottle	12	21.46



NO LEAD
LEAD-FREE

Super Lube Syncopen

Super LubeSynthetic Penetrant is a super fast acting, penetrating, synthetic oil that cuts through rust or corrosion. Syncopen penetrates hard to reach areas to allow easy removal of rusted and corroded screws, nuts or bolts. Syncopen penetrates, lubricates and leaves a protective film to help prevent future rusting or corrosion.

Benefits:

- Cleans and Penetrates
- Loosens rusted parts
- Frees sticky mechanisms
- Stops squeaks
- Protects against rust & corrosion
- Drives out moisture
- Leaves a protective lubricating film

Typical Properties:

TEST	METHOD	SYNCOPEN
Color		Translucent Brown
Specific Gravity	ASTM D1298	.85
Pour Point	ASTM D97	-40°F
Salt Spray Test (500 hrs)	ASTM B117	Pass
Copper Corrosion 24 hrs @ 100°C	ASTM D130	1A
USDA Rating	NSF	H1
Shelf Life		24 months

Part Number	Description	Case Qty	List Price
85011	11 oz. aerosol	12	$ 18.09
85010	1 gallon	4	144.92

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21013 and 51013

NO LEAD ✓ LEAD-FREE

Super Lube Grease w/ PTFE Counter display NSF

- Packaged in a cardboard counter display
- Contains 40, 1/2 oz. tubes Super Lube w/ PTFE grease

Super Lube Precision Oiler w/ PTFE Counter display NSF

- Packaged in a cardboard counter display
- Contains 48, 7 ml precision oiler pens of Super Lube w/ PTFE

Part Number	Description	Display Qty	List Price
21013	Counter display w/ Grease	40	271.82
51013	Counter display w/ Oiler	48	385.38

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User Price Schedule ID-030119-US

Effective 3/1/19 - Supersedes all previous published price schedules

Contact AGI Toll Free at 1-800-776-2266 or www.americangranby.com for technical information or name and number of your nearest distributor or sales representative.

Stock No.	Brand	Product Description	Stock Class*	Items Per Case	Gross. Wt. Per Case (lbs)	AGI LIST Price (each)
10050	DV	DEVCON® Carbide Putty - 3 lb	1	6	23.00	$614.96
10080	DV	DEVCON® Carbide Putty - 20 lb	1	1	24.00	$3,096.37
10110	DV	DEVCON® Plastic Steel® Putty (A) - 1 lb	1	6	9.00	$154.11
10120	DV	DEVCON® Plastic Steel® Putty (A) - 4 lb	1	6	29.00	$578.52
10130	DV	DEVCON® Plastic Steel® Putty (A) - 25 lb	1	1	28.00	$2,158.03
10210	DV	DEVCON® Plastic Steel® Liquid (B) - 1 lb	1	6	9.00	$153.81
10220	DV	DEVCON® Plastic Steel® Liquid (B) - 4 lb	1	6	26.00	$611.46
10230	DV	DEVCON® Plastic Steel® Liquid (B) - 25 lb	1	1	26.00	$2,199.91
10240	DV	DEVCON® Plastic Steel® 5 Minute® Putty (SF) - 1 lb	1	6	9.00	$191.12
10260	DV	DEVCON® Bronze Putty (BR) - 1 lb	1	6	9.00	$306.84
10270	DV	DEVCON® Stainless Steel Putty (ST) - 1 lb	1	6	9.00	$282.35
10610	DV	DEVCON® Aluminum Putty (F) - 1 lb	1	6	9.00	$222.89
10620	DV	DEVCON® Aluminum Putty (F) - 3 lb	1	6	22.00	$613.48
10710	DV	DEVCON® Aluminum Liquid (F-2) - 1 lb	1	6	9.00	$222.47
10720	DV	DEVCON® Aluminum Liquid (F-2) - 3 lb	1	6	22.00	$607.59
10760	DV	DEVCON® Titanium Putty - 1 lb	1	6	9.00	$395.91
10770	DV	DEVCON® Titanium Putty - 2 lb	1	6	17.00	$750.73
10780	DV	DEVCON® FasMetal™ - 3/4 lb	1	6	6.00	$266.00
11320	DV	DEVCON® DFense Blok™ Quick Patch- 1 lb	1	6	10.60	$294.28
11330	DV	DEVCON® DFense Blok™ - 30 lb	1	1	34.00	$2,405.60
11340	DV	DEVCON® DFense Blok™ Surface Wetting Agent - 1 lb	1	2	3.45	$239.50
11350	DV	DEVCON® DFense Blok™ Fast Cure (FC) - 9 lb	1	1	11.00	$1,254.52
11410	DV	DEVCON® Wear Resistant Putty (WR-2) - 1 lb	1	6	9.00	$239.60
11420	DV	DEVCON® Wear Resistant Putty (WR-2) - 3 lb	1	6	23.00	$648.29
11450	DV	DEVCON® Combowear FC (Fast Cure) - 9 lb	1	1	11.00	$798.49
11460	DV	DEVCON® Wear Guard™ (High Impact) - 30 lb	1	1	34.00	$1,781.73
11470	DV	DEVCON® Wear Guard™ (Fine Load) - 30 lb	1	1	34.00	$2,276.05
11475	DV	DEVCON® Wear Guard™ Ultra - 30 lb	1	1	37.00	$4,651.57
11480	DV	DEVCON® Wear Guard™ High Temp - 30 lb	1	1	34.00	$2,704.18
11489	DV	DEVCON® HV Tile Adhesive - 20 lb	1	1	23.00	$1,050.66
11490	DV	DEVCON® Wear Guard™ High Load - 30 lb	1	1	34.00	$1,338.33
11495	DV	DEVCON® Tile Adhesive - 20 lb	1	1	23.00	$1,010.50
11500	DV	DEVCON® Zip Patch™ - 4"x9" patch	1	6	2.58	$200.53
11700	DV	DEVCON® Ceramic Repair Putty - 3 lb	1	6	23.00	$691.75
11730	DV	DEVCON® Ceramic Repair Putty - 32 lb	1	1	37.00	$3,436.36
11760	DV	DEVCON® Brushable Ceramic red - 2 lb	1	6	17.00	$595.93
11762	DV	DEVCON® Brushable Ceramic red - 12 lb	1	1	15.00	$1,347.58
11765	DV	DEVCON® Brushable Ceramic blue - 2 lb	1	6	17.00	$590.26
11767	DV	DEVCON® Brushable Ceramic blue - 12 lb	1	1	15.00	$1,347.68
11770	DV	DEVCON® Brushable Ceramic white - 2 lb	1	6	17.00	$639.69

Stock No.	Brand	Product Description	Stock Class*	Items Per Case	Gross. Wt. Per Case (lbs)	AGI LIST Price (each)
11800	DV	DEVCON® Underwater Repair Putty (UW) - 1 lb	1	6	9.00	$283.73
12560	DV	DEVCON® Epoxy Concrete Sealer - 2 gal	1	1	29.00	$1,540.83
12710	DV	DEVCON® Epoxy Coat™ 7000 Non VOC - 2 gal	1	1	26.00	$1,321.91
12750	DV	DEVCON® Epoxy Coat™ 7000 AR (Acid Resistant) - 2 gal	1	1	23.00	$1,517.00
13090	DV	DEVCON® Floor Grip™ - 2 gal	1	1	28.00	$1,369.67
13100	DV	DEVCON® Floor Patch™ - 10 lb	1	1	12.00	$328.09
13110	DV	DEVCON® Floor Patch™ FC (Fast-Cure) - 10 lb	1	1	13.00	$364.73
13120	DV	DEVCON® Floor Patch™ - 40 lb	1	1	44.00	$894.28
13130	DV	DEVCON® Floor Patch™ Resurfacer - 41 lb	1	1	44.00	$893.35
13550	DV	DEVCON® Ultra Quartz™ - 35 lb	1	1	39.00	$1,194.00
13800	DV	DEVCON® Deep Pour Grout™ - 50 lb.	1	1	50.00	$933.01
14250	DV	DEVCON® 5 Minute® Epoxy (1-1) - 25ml Dev-Tube™	1	24	4.00	$19.33
14251	DV	DEVCON® 10 Minute™ Epoxy clear (1-1) - 50ml	1	12	2.00	$51.41
14255	DV	DEVCON® 10 Minute™ Epoxy Black (1-1) - 50ml	1	12	2.00	$50.42
14260	DV	DEVCON® 2 Ton® Epoxy (1-1) - 50ml	1	12	2.00	$46.85
14265	DV	DEVCON® 5 Minute® Epoxy Gel opaque (1-1) - 50ml	1	12	3.00	$47.90
14270	DV	DEVCON® 5 Minute® Epoxy (1-1) - 50ml	1	12	3.00	$42.89
14277	DV	DEVCON® 1 Minute™ Epoxy Gel amber (1-1) - 50ml	1	12	3.00	$56.13
14278	DV	DEVCON® Epoxy Plus™ 25 grey (1-1) - 50 ml cartridge	1	12	2.00	$56.28
14310	DV	DEVCON® 2 Ton® Epoxy (1-1) - 25ml Dev-Tube™	1	24	4.00	$22.38
14315	DV	DEVCON® HP250 (2-1 ratio) straw - use with 74001 GP Manual Gun	1	12	3.00	$56.54
14350	DV	DEVCON® Epoxy Plus™ 25 grey (1-1) - 400ml	1	12	18.00	$217.49
14355	DV	DEVCON® 2 Ton® Epoxy (1-1) - 400ml	1	12	17.00	$208.68
14360	DV	DEVCON® 2 Ton® Epoxy (1-1) - 9 lb	1	1	10.00	$1,150.82
14415	DV	DEVCON® HP250 straw [2-1] - 400ml	1	12	17.00	$210.82
14500	DV	DEVCON® Dev-Thane 5™ grey (1-1) - 400ml	1	10	4.30	$213.91
14503	DV	DEVCON® Dev-Thane 5™ grey (1-1) - 50ml	1	12	3.00	$52.89
14630	DV	DEVCON® 5 Minute® Epoxy (1-1) - 9 lb	1	1	10.00	$1,083.90
15049	DV	DEVCON® Flexane® Fast Cure Putty [4-1] - 400ml	1	4	6.00	$219.77
15050	DV	DEVCON® Flexane ® Fast Cure Liquid [4-1] - 400ml	1	4	6.00	$213.88
15250	DV	DEVCON® Flexane® 94 Liquid - 1 lb	1	6	19.00	$190.84
15260	DV	DEVCON® Flexane® 94 Liquid - 10 lb	1	1	13.00	$1,379.37
15330	DV	DEVCON® Flexane® High Performance Putty - 1 lb	1	6	19.00	$290.50
15350	DV	DEVCON® Flexane® Brushable - 1 lb	1	6	19.00	$285.52
15550	DV	DEVCON® R-Flex® Belt Repair Kit - 4lb	1	1	6.00	$1,351.56
15565	DV	DEVCON® R-Flex® Belt Repair Kit - 1.5lb	1	1	9.750	$573.58
15800	DV	DEVCON® Flexane® 80 Liquid - 1 lb	1	6	19.00	$190.84
15810	DV	DEVCON® Flexane® 80 Liquid - 10 lb	1	1	15.00	$1,379.37
15820	DV	DEVCON® Flexane® 80 Putty - 1 lb	1	6	15.00	$190.84
15850	DV	DEVCON® Flexane® 80 Putty - 4 lb	1	1	6.00	$649.87
15940	DV	DEVCON® Flex-Add™ - 8 oz	1	6	5.00	$92.08
15980	DV	DEVCON® FL-10 Flexane® Primer - 4 oz	1	6	2.58	$75.91
15985	DV	DEVCON® FL-20 Flexane® Primer - 4 oz	1	6	2.58	$77.16
15990	DV	DEVCON® Flexane Accelerator - 12 oz	1	6	1.00	$91.68
17100	DV	DEVCON® Silite® RTV Silicone clear - 3 oz	1	24	8.00	$13.96
17130	DV	DEVCON® Silite® RTV Silicone red - 10.3 fl oz	1	12	10.00	$40.81
17140	DV	DEVCON® Silite® RTV Silicone* white - 10.3 fl oz	1	12	10.00	$26.38
17150	DV	DEVCON® Silite® RTV Silicone* clear - 10.3 fl oz	1	12	8.00	$25.39
19510	DV	DEVCON® Cleaner Blend 300 - 1 pt	1	6	7.00	$123.60
19600	DV	DEVCON® Liquid Release Agent - 1 pt	1	6	6.00	$199.33
19770	DV	DEVCON® FasMetal™ 10 HVAC Repair (Special F) - 6-1/2 oz tube	1	12	5.26	$115.07

Stock No.	Brand	Product Description	Stock Class*	Items Per Case	Gross. Wt. Per Case (lbs)	AGI LIST Price (each)
81091	DV	DEVCON® Concave Sealer - 250 ml Cartridge	1	6	6.00	$118.31
81095	DV	DEVCON® HP Backing Compound	1	1	23.00	$359.67
DA051	DV	DEVCON® 5 Minute® Epoxy (1-1) - 400ml	1	12	17.00	$186.57
DA052	DV	DEVCON® 5 Minute® Epoxy Gel opaque (1-1) - 400ml	1	12	17.00	$207.58
DA160	DV	DEVCON® Plastic Welder™ white (1-1) - 400ml	1	12	17.00	$190.81
DA291	DV	DEVCON® Plastic Welder™ white (1-1) - 47ml	1	12	3.00	$51.95
DA999	DV	DEVCON® Food Grade Pot & Seal white (1-1) - 400ml	1	6	17.00	$205.45
DF039	DV	DEVCON® Edge & Seal T-35 black [4-1] - 400ml	1	4	6.00	$222.54
09128	PX	PERMATEX® Copper Anti-Seize Lubricant - 8 oz. brush top bottle	1	6	4.34	$40.04
23218	PX	PERMATEX® FAST ORANGE® Hand Cleaner (Smooth Lotion) - 1 gal. plastic bottle with pump	1	4	36.24	$74.88
24010	PX	PERMATEX® Medium Strength Threadlocker Blue GEL - 10 gm GEL TWIST™ tube, carded	1	6	0.72	$39.21
24105	PX	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 13 oz. cartridge	1	12	11.59	$67.38
24210	PX	PERMATEX® Medium Strength Threadlocker Blue - 10 ml bottle, carded	1	6	0.57	$36.10
24225	PX	PERMATEX® Medium Strength Threadlocker Blue - 250 ml bottle	1	2	1.53	$347.45
24250	PX	PERMATEX® Medium Strength Threadlocker Blue - 50 ml bottle	1	6	1.33	$103.14
24325	PX	PERMATEX® Surface Insensitive Threadlocker Blue - 250 ml bottle	1	2	1.56	$364.82
24350	PX	PERMATEX® Surface Insensitive Threadlocker Blue - 50 ml bottle	1	6	1.33	$109.39
25219	PX	PERMATEX® FAST ORANGE® Hand Cleaner (Pumice Lotion) - 1 gal. plastic bottle with pump	1	4	36.24	$72.78
25224	PX	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 7 oz net wt. pressurized can	1	6	4.29	$74.19
26210	PX	PERMATEX® Permanent Strength Threadlocker Red - 10 ml bottle, carded	1	6	0.59	$36.10
26225	PX	PERMATEX® Permanent Strength Threadlocker Red - 250 ml bottle	1	2	1.56	$347.45
26250	PX	PERMATEX® Permanent Strength Threadlocker Red - 50 ml bottle	1	6	1.62	$103.14
27010	PX	PERMATEX® High Strength Threadlocker Red GEL - 10 gm GEL TWIST™ tube, carded	1	6	0.66	$39.21
27110	PX	PERMATEX® High Strength Threadlocker Red - 10 ml bottle, carded	1	6	0.72	$36.10
27125	PX	PERMATEX® High Strength Threadlocker Red - 250 ml bottle	1	2	1.61	$347.45
27150	PX	PERMATEX® High Strength Threadlocker Red - 50 ml bottle	1	6	1.32	$103.14
27250	PX	PERMATEX® High Temperature Threadlocker Red - 50 ml bottle	1	6	1.27	$105.26
27725	PX	PERMATEX® Large Diameter Threadlocker Red - 250 ml bottle	1	2	1.59	$361.08
29050	PX	PERMATEX® Penetrating Grade Threadlocker Green - 50 ml bottle	1	6	1.24	$100.22
31163	PX	PERMATEX® Copper Anti-Seize Lubricant - 1 lb. bottle	1	12	14.85	$67.15
33694	PX	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 10.1 fl. oz. cartridge	1	6	6.33	$92.57
51531	PX	PERMATEX® Anaerobic Flange Sealant - 50 ml tube	1	10	1.76	$46.85
51580	PX	PERMATEX® Anaerobic Flange Sealant - 300 ml cartridge	1	10	9.09	$197.19
51813	PX	PERMATEX® Anaerobic Gasket Maker - 50 ml tube, carded	1	6	1.33	$46.85
51845	PX	PERMATEX® Anaerobic Gasket Maker - 300 ml cartridge	1	10	10.00	$197.19
54550	PX	PERMATEX® Pneumatic / Hydraulic Sealant - 50 ml bottle	1	6	1.33	$100.24
56521	PX	PERMATEX® High Performance Thread Sealant - 50 ml tube, carded	1	6	1.30	$45.75
56750	PX	PERMATEX® Maximum Temperature Thread Sealant - 50 ml tube, carded	1	6	1.36	$45.75
59235	PX	PERMATEX® High Temperature Thread Sealant - 50 ml tube, carded	1	6	1.36	$45.75
59713	PX	PERMATEX® #101 ULTRA COPPER® Maximum Temperature Gasket Maker - 300 ml cartridge	1	6	6.00	$68.19
60950	PX	PERMATEX® Bearing Mount for Close Fits - 50 ml bottle	1	6	1.33	$104.15
68050	PX	PERMATEX® Bearing Mount for Relaxed Fits - 50 ml bottle	1	6	1.25	$109.39
70144	PX	PERMATEX® ZipGrip® GPE 3 Wicking - 14 gm bottle	1	12	1.00	$49.22
70213	PX	PERMATEX® ZipGrip® GPE 15 Rubber Bonder - 1/3 oz. bottle	1	12	1.00	$56.04
70350	PX	PERMATEX® ZipGrip® GPE 30 All Purpose - 1 oz. bottle	1	10	1.30	$54.48
70450	PX	PERMATEX® ZipGrip® GPE 100 All Purpose MV - 1 oz. bottle	1	10	1.30	$56.05
72161	PX	PERMATEX® ZipGrip® TE 1000 Gap Filling - 1 lb. bottle	1	1	1.25	$624.57
72250	PX	PERMATEX® ZipGrip® TE 2400 Gap Filling - High Temp - 1 oz. bottle	1	10	1.30	$70.87
72261	PX	PERMATEX® ZipGrip® TE 2400 Gap Filling - High Temp - 1 lb. bottle	1	1	1.25	$618.78
77124	PX	PERMATEX® #771 Nickel Anti-Seize (Maximum Temperature) - 8 oz. brush top bottle	1	12	7.57	$61.98

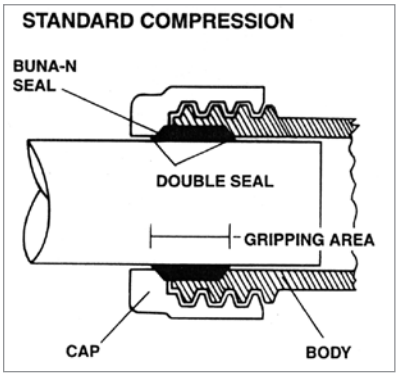
Stock No.	Brand	Product Description	Stock Class*	Items Per Case	Gross. Wt. Per Case (lbs)	AGI LIST Price (each)
77164	PX	PERMATEX® #771 Nickel Anti-Seize (Maximum Temperature) - 1 lb. brush top bottle	1	10	11.70	$116.13
80003	PX	PERMATEX® FORM-A-GASKET® #1 Sealant - 11 oz. tube, boxed	1	12	10.03	$28.28
80011	PX	PERMATEX® FORM-A-GASKET® #2 Sealant - 11 oz. tube, boxed	1	12	9.87	$26.70
80015	PX	PERMATEX® FORM-A-GASKET® #2 Sealant - 1.5 oz. tube, carded	1	12	1.82	$10.73
80016	PX	PERMATEX® FORM-A-GASKET® #2 Sealant - 3 oz. tube, carded	1	12	3.10	$12.88
80017	PX	PERMATEX® Aviation FORM-A-GASKET® #3 Sealant - 16 fl. oz. bottle	1	12	15.36	$35.47
80022	PX	PERMATEX® #6 Sensor Safe Blue LO RTV Silicone Gasket Maker - 3 oz. tube, carded	1	12	3.25	$15.00
80045	PX	PERMATEX® #51 Pipe Joint Compound (N/A in California) - 16 oz. bottle	1	12	18.41	$27.08
80050	PX	PERMATEX® #66 Clear Silicone Adhesive Sealant - 3 oz. tube, carded	1	12	3.25	$14.83
80071	PX	PERMATEX® #133 Anti-Seize Lubricant - 4 oz. brush top bottle	1	12	4.57	$21.09
80078	PX	PERMATEX® #133 Anti-Seize Lubricant - 8 oz. brush top bottle	1	12	9.33	$37.91
80208	PX	PERMATEX® #767 Anti-Seize Lubricant - 1 lb. brush top bottle	1	12	14.19	$64.06
80628	PX	PERMATEX® #6 Sensor Safe Blue LO RTV Silicone Gasket Maker - 12.9 oz. cartridge	1	12	11.48	$48.70
80632	PX	PERMATEX® #14 Thread Sealant with TEFLON® - 4 oz. bottle	1	12	4.30	$19.55
80633	PX	PERMATEX® #14 Thread Sealant with TEFLON® - 16 oz. bottle	1	12	15.43	$44.74
80855	PX	PERMATEX® #66 Clear Silicone Adhesive Sealant - 11 oz. cartridge	1	12	10.01	$46.42
81160	PX	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 3 oz. tube, carded	1	12	3.25	$19.20
81173	PX	PERMATEX® #16 Black LO Silicone Adhesive Sealant - 12.9 oz. cartridge	1	12	11.48	$46.89
81409	PX	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 11 oz. cartridge	1	12	9.92	$53.03
81724	PX	PERMATEX® #77 ULTRA BLUE® Multi-Purpose Gasket Maker - 3.35 oz. tube, carded	1	12	3.50	$21.34
81725	PX	PERMATEX® #77 ULTRA BLUE® Multi-Purpose Gasket Maker - 13 oz. cartridge	1	12	11.51	$63.80
81860	PX	PERMATEX® #6 Sensor Safe Blue LO RTV Silicone Gasket Maker - 7.25 oz. net wt. pressurized can	1	6	4.31	$48.13
81878	PX	PERMATEX® #101 ULTRA COPPER® Maximum Temperature Gasket Maker - 3 oz. tube, carded	1	12	3.26	$20.56
81913	PX	PERMATEX® #66 Clear Silicone Adhesive Sealant - 7.25 oz. net wt. pressurized can	1	12	8.49	$47.68
81915	PX	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 7.25 oz. net wt. pressurized can	1	12	8.58	$51.99
82080	PX	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 8.75 oz. net wt. pressurized can	1	6	4.82	$67.65
82180	PX	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 3.35 oz. tube, carded	1	12	5.15	$21.77
82194	PX	PERMATEX® #599 ULTRA GREY® Rigid Assembly Gasket Maker - 3.5 oz. tube, carded	1	12	3.59	$22.59
82195	PX	PERMATEX® #599 ULTRA GREY® Rigid Assembly Gasket Maker - 13 oz. cartridge	1	6	5.90	$66.73
85080	PX	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 9.5 oz net wt. PowerBead™ can	1	6	5.32	$76.54
85224	PX	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 7.5 oz net wt. PowerBead™ can	1	6	4.63	$83.39
85519	PX	PERMATEX® #77 ULTRA BLUE® Multi-Purpose Gasket Maker - 9.5 oz net wt. PowerBead™ can	1	6	5.32	$72.53
85913	PX	PERMATEX® #66 Clear Silicone Adhesive Sealant - 7.25 oz net wt. PowerBead™ can	1	6	4.46	$51.48
85915	PX	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 7.25 oz net wt. PowerBead™ can	1	6	4.47	$56.95
11301	EQ	DEVCON® DFense Blok™ Power Mixer with Paddle	1	1	80.50	$3,834.92
11302	EQ	DEVCON® DFense Blok™ Power Mixer Replacement Paddle	1	1	10.00	$601.09
14280	EQ	DEVCON® Mark V™ Gun (1-1 and 10-1 ratio) - use with 50ml - Applicator Gun	1	1	1.00	$119.49
14285	EQ	DEVCON® Mark V™ 1-1 Mix Nozzle for 50ml - Mix Nozzle	1	12	1.00	$3.12
15043	EQ	DEVCON® Manual Gun (4-1 ratio) - Applicator gun	1	1	4.00	$690.05
15047	EQ	DEVCON® Mix Nozzle - use with 15049, 15050 - .394" dia/ 24 element	1	20	1.00	$4.65
30020	EQ	PLEXUS® Manual Cartridge Dispensing gun- 400ml 1:1 Ratio Applicator	1	1	4.70	$680.77
30010	EQ	PLEXUS® Pneumatic Cartridge Dispensing gun- 400ml 1:1 Ratio Applicator	1	1	7.45	$1,614.68
30013	EQ	PLEXUS® Pneumatic Cartridge Dispensing gun- 490ml 10:1 Ratio Applicator	1	1	8.00	$1,800.44
30016	EQ	PLEXUS® Manual Cartridge Dispensing gun- 490ml 10:1 Ratio Applicator	1	1	4.70	$641.62
30076	EQ	PLEXUS® Static Mix Nozzles- 490ml 10:1 Mix Nozzle	1	12	0.50	$4.27
30077	EQ	PLEXUS® Static Mix Nozzles- 490ml 10:1 Mix Nozzle Bulk	1	600	0.50	$4.27
30079	EQ	PLEXUS® Static Mix Nozzles- 250ml 1:1 Mix Nozzle	1	12	0.50	$4.50
3333	EQ	PLEXUS® Static Mix Nozzles- 380ml 10:1 Mix Nozzle	1	12	5.40	$2.32
30095	EQ	PLEXUS® Static Mix Nozzles- 400ml 1:1 Mix Nozzle (13mm)	1	200	11.10	$4.45

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SECTION 9
FLO CONTROL® / NDS®
FITTINGS, VALVES, DRAINAGE

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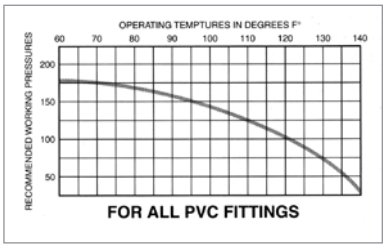


PVC Compression Fitting Features:

- Iron pipe size
- For use with cold water only.
- Buna-N gasket seals
- Rated at 150 PSI static pressure @ 72°F

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Certified to NSF/ANSI 61+372

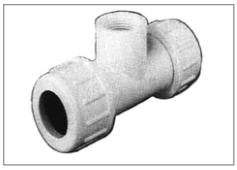




CPC Series IPS

NSF/ANSI 61+372

UPC



CPT-T Series IPS

NSF/ANSI 61+372



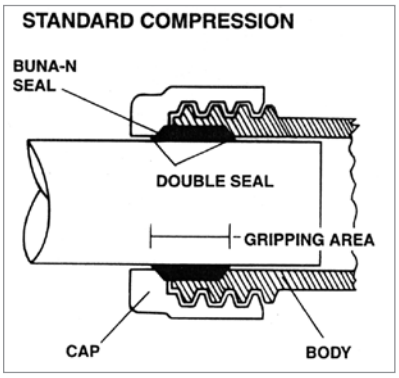
CPT-S Series IPS

NSF/ANSI 61+372

UPC

NEW Part Number	OLD Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC IPS Compression Couplings, comp x comp					
CPC0500	110-05	1/2"	4"	28	$ 5.82
CPC0750	110-07	3/4"	4-1/4"	24	7.62
CPC1000	110-10	1"	4-1/2"	15	9.90
CPC1250	110-12	1-1/4"	5"	10	15.19
CPC1500	110-15	1-1/2"	5-1/2"	16	15.69
CPC2000	110-20	2"	6"	12	20.41
CPC2500	110-25	2-1/2"	8"	3	38.38
CPC3000	110-30	3"	9"	3	50.23
CPC4000	110-40	4"	10"	3	82.61
CPC6000	110-60	6"	10"	1	191.90
PVC IPS Threaded Tee, comp x comp x fipt					
CPT0500T	120-05	1/2"	4"	24	8.88
CPT0750T	120-07	3/4"	4-1/4"	20	11.56
CPT1000T	120-10	1"	4-1/2"	15	15.29
CPT1250T	120-12	1-1/4"	5"	15	19.34
CPT1500T	120-15	1-1/2"	5-1/2"	12	22.20
CPT2000T	120-20	2"	6"	10	31.63
PVC IPS Slip Tees, comp x comp x slip					
CPT0500S	121-05	1/2"	4"	24	8.88
CPT0750S	121-07	3/4"	4-1/4"	20	11.56
CPT1000S	121-10	1"	4-1/2"	15	15.29
CPT1250S	121-12	1-1/4"	5"	15	19.34
CPT1500S	121-15	1-1/2"	5-1/2"	12	20.20
CPT2000S	121-20	2"	6"	10	31.63

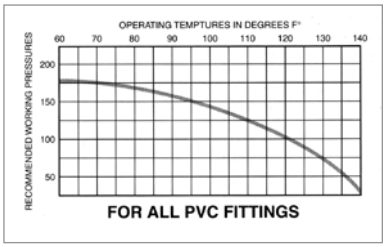
PVC Compression Fittings - IPS, CTS



PVC Compression Fitting Features:

- Iron pipe size
- For use with cold water only.
- Buna-N gasket seals
- Rated at 150 PSI static pressure @ 72°F

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372





CPA Series IPS

NSF/ANSI 61+372

UPC

NEW Part Number	Previous Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC IPS Male Adapter, comp x mipt					
CPA0750	130-07	3/4"	2 7/8"	20	$ 6.51
CPA1000	130-10	1"	3 1/8"	30	7.58
CPA1250	130-12	1-1/4"	3 5/16"	20	8.92
CPA1500	130-15	1-1/2"	3 1/2"	16	10.61
CPA2000	130-20	2"	3 3/4"	12	14.81



CCC Series CTS

NSF/ANSI 61+372

UPC



CCT Series CTS

NSF/ANSI 61+372

NEW Part Number	Previous Part Number	CTS Size	Body Length	Ctn Qty	List Price
PVC CTS Compression Coupling, comp x comp					
CCC0500	210-05	1/2"	4"	25	$ 11.99
CCC0750	210-07	3/4"	4"	28	13.44
CCC1000	210-10	1"	4-1/4"	24	14.14
CCC1500	210-15	1 1/2"	5"	10	26.84
PVC CTS Threaded Tee, comp x comp x fipt					
CCT0500	220-05	1/2"	4"	36	12.52
CCT0750	220-07	3/4"	4"	24	13.96
CCT1000	220-10	1"	4-1/4"	18	16.05
CCT1250	220-12	1 1/4"	4-1/2"	12	21.07
CCT1500	220-15	1 1/2"	5"	15	39.98
CCT2000	220-20	2"	6"	10	28.73

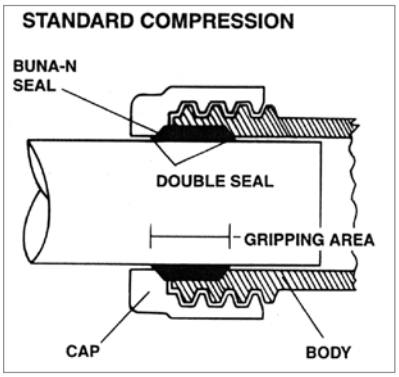
American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

CPVC Compression Fittings - IPS & CTS



CPVC Compression Fitting Features:

- Iron pipe size & copper tube size
- For hot water use.
- Not to exceed 100 psi at 180°F
- Buna-N gasket seals
- Rated at 150 PSI static pressure @ 72°F

NO LEAD
LEAD-FREE



410 Series CTS

Part Number	Size	Description	Body Length	Ctn Qty	List Price
CPVC CTS Compression Couplings, comp x comp					
410-05	1/2”	1/2" cts x 1/2" cts	4”	25	$ **9.74**
410-07	3/4”	3/4" cts x 3/4" cts	4”	28	12.17

TECHNICAL DATA
FOR ALL FLO CONTROL FITTINGS & VALVES

1. PVC MATERIAL SPECIFICATION: PVC Type I, Grade I, Cell class 12454-B meeting requirements of ASTM D-1784-75 is used in the manufacturing of all fittings recommended for use of potable cold water (see temperature vs. pressure chart). Not recommended for use on systems exceeding 100 psi @ 120°F.

2. CPVC MATERIAL SPECIFICATION: CPVC Type IV, Grade I, cell Class 23447-B meeting requirements of ASTM D-1784-75 is used in the manufacturing of all fittings recommended for use on potable hot water systems in accordance with ASTM D-2846-73. Not recommended for use on systems that will exceed 100 psi @ 180°F.

3. BUNA-N SEALS: The gasket seal material is made of high quality Buna-N elastomeric compound which meets the requirements of ASTM D-2000. It is generally resistant to many hydrocarbons, fats, oils, greases, hydraulic fluids and chemicals. It is generally attacked by Ozone, Ketones, Esters, Aldehydes, chlorinated and nitro hydrocarbons. Reference chemical resistance under NBR (Nitrile) elastomers for specific listings.

4. EPDM O-RINGS: The o-ring material is made of high quality EPDM (Ethylene Popylene Copolymer) which meets the requirements of ASTM D-2000. EPDM has exceptionally goood weather aging and ozone resistance, excellent water and chemical resitance and excellent aging resistance for most applications. EPDM is a polymer where oil and solvent resistance is poor. However, it is fairly good in ketones and alcohols. Reference chemical resistance under EPDM, EPT or EPR Elastomers for specific listings.

5. DOUBLE SEAL of standard compression fittings. A compressive action is created as the cap is tightened squeezing the Buna-N seals into the tapered recessed areas of the cap and body. This process creates a highly concentrated pressure at the two “double seal” points, thus providing positive protection against leakage.

6. COMPRESSION CONNECTIONS: Compression cap should be drawn up hand tight to insure proper alignment and seating of gasket, then tighten 3/4 to 1 turn with a Flo Spanner Wrench of strap wrench. Average torque should be approximately 25 foot pounds on 1/2” through 2” IPS and 35 foot pounds on 2 1/2” and larger. Compression fittings are not recommended for use on compressed air lines or natual gas lines.

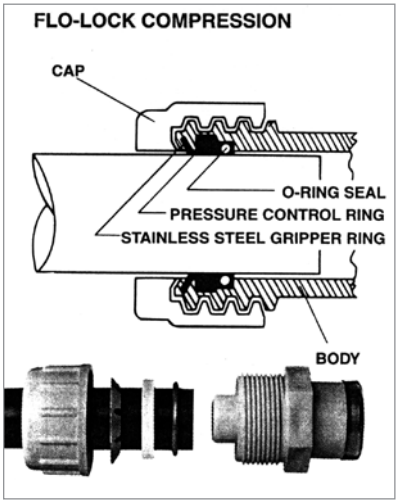
7. THREAD CONNECTIONS: Use PTFE thread seal tape on all IPS thread connections. IPS thread connections should be made hand tight plus 1/2 to 3/4 turn with a wrench.

8. THRUST BLOCKING: When installing the standard compression seal fittings the pipe line must be restrained from lateral movement by thorough soil compaction on straight runs and thrust blocking at change of direction ro reduction in size. Not recommended for use on pipe lines suspended on hangers.

9. FLO LOCK COMPRESSION ADAPTERS: Recommended for use on PVC pipe with wall thickness of SDR-26, Class 160 or greater and copper tubing. Not recommended for use on galvanized pipe unless surface is sanded smooth. The gripper ring is made of stainless steel.

10. ALL SPRINGS made of Series 300 stainless steel.

Flo-Lock Fittings - PVC & CPVC



PVC/CPVC Flo-Lock Fitting Features:

- Iron pipe and copper tube size
- For cold (PVC) or hot (CPVC) water use.
- Built in stiffener to insure grip.
- EPDM o-ring seal
- PVC ring for controlling o-ring pressure.
- Stainless steel gripping ring prevents pull-out.
- Rated at 160 psi static pressure @ 72°F.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



NSF/ANSI 61+372

UPC

135 Series IPS



NSF/ANSI 61+372

136 Series IPS

Part Number	IPS Size	IPS Connection	Ctn Qty	List Price
PVC IPS Male Adapter with Flo-Lock, flo lock x mipt				
135-05	1/2"	1/2" mipt	25	$ 12.18
135-07	3/4"	3/4"mipt	20	14.51
135-10	1"	1" mipt	30	17.29
135-12	1-1/4"	1-1/4" mipt	20	23.27
135-15	1-1/2"	1-1/2" mipt	16	27.97
135-20	2"	2" mipt	12	36.28
PVC IPS Female Adapter with Flo-Lock, flo lock x fipt				
136-05	1/2"	1/2" fipt	25	14.91
136-07	3/4"	3/4" fipt	20	17.40
136-10	1"	1" fipt	14	20.25
136-12	1-1/4"	1-1/4" fipt	18	26.48
136-15	1-1/2"	1-1/2" fipt	16	30.24
136-20	2"	2" fipt	10	43.97



NSF/ANSI 61+372

UPC
* No UPC

235 Series CTS



NSF/ANSI 61+372

435 Series CTS

Part Number	CTS Size	IPS Connection	Ctn Qty	List Price
PVC CTS Male Adapter with Flo-Lock, flo lock x mipt				
235-05	1/2"	1/2" mipt	50	$ 13.92
235-07	3/4"	3/4" mipt	25	14.22
235-10	1"	1" mipt	18	15.09
235-12	1-1/4"	1-1/4" mipt	24	20.45
235-20 *	2"	2" mipt	12	31.39
CPVC CTS Male Adapter with Flo-Lock, flo lock x mipt				
435-05	1/2"	1/2" cts x 1/2" mipt	50	12.92
435-07	3/4"	3/4" cts x 3/4" mipt	25	17.01

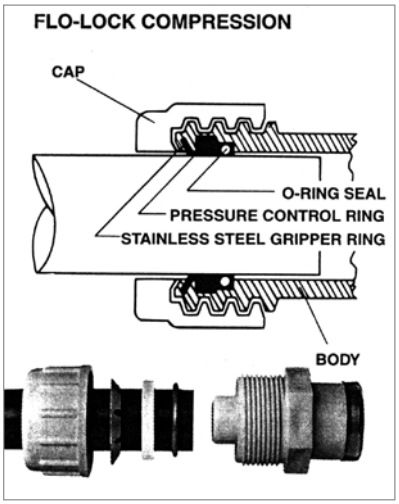
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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

PVC Flo-Lock Fittings - SDR9 polyethylene pipe



PVC Flo-Lock Series 700 Features:

- For water service line installations.
- Use on polyethylene pipe - tube size SDR-9, ASTM D2737.
- Reliable connections for polyethylene or copper tube.
- PVC type I material - 160 psi at 72°F.
- Dry pull test exceeds 400 psi.
- Quick burst test exceeds 600 psi.
- Stainless steel band to reinforce female thread.
- Not for use with compressed air or natual gas lines.

NSF LISTED SE-14: ALL
Compression fittings are listed by the National Sanitation Foundation as acceptable for use with potable water.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

IAPMO LISTED: Listed by the International Association of Plumbing and Mechanical Officials Research Committee as meeting the requirements set forth by the Uniform Plumbing Code for potable water systems. * Female threaded fittings are no longer IAPMO approved.

Series 700 Fittings for:
Polyethylene tubing SDR-9 CTS - OD - ASTM-2666 & ASTM-2737 dimensions.

Tubing Size	Nominal OD	Nominal ID	Pressure Rating - PSI
3/4"	0.875	0.675	160
1"	1.125	0.865	160
1 1/4"	1.375	1.059	160
1 1/2"	1.625	1.253	160
2"	2.125	1.629	160



NSF/ANSI 61+372

UPC

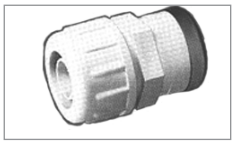
710 Series



NSF/ANSI 61+372

UPC

730 Series



NSF/ANSI 61+372

731 Series



NSF/ANSI 61+372

UPC

733 Series

☺Insert stiffener supplied must be used with this fitting

Part Number	Tube Size	Description	Length	Ctn Qty	List Price
PVC Couplings, ts x ts					
710-07	3/4"	3/4" x 3/4"	4"	35	$ 29.01
710-10	1"	1" x 1"	4"	24	34.30
710-17	1"	SDR9 x 3/4" SDR11	4"	36	42.21
710-12	1 1/4"	1 1/4" x 1 1/4"	4 1/2"	15	53.96
710-15 ☺	1 1/2"	1 1/2" X 1 1/2"	5"	15	61.42
710-20 ☺	2"	2" x 2"	5"	12	82.43
PVC Male Adapters, mipt x ts					
730-07	3/4"	3/4" x 3/4"	2 5/8"	25	18.28
730-10	1"	1" x 1"	2 7/8"	18	22.27
730-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18	40.71
730-20 ☺	2"	2" x 2"	3 1/2"	12	65.23
730-71	3/4" x 1"	3/4" x 1"	2 7/8"	18	22.48
PVC Female Adapters, fipt x ts					
731-07	3/4"	3/4" x 3/4"	2 5/8"	25	20.25
731-10	1"	1" x 1"	2 7/8"	15	30.47
731-12	1 1/4"	1 1/4" x 1 1/4"	2 7/8	12	39.95
731-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18	46.74
731-20 ☺	2"	2" x 2"	4"	12	69.06
731-71	3/4" x 1"	3/4" x 1"	2 7/8"	15	29.28
PVC Spigot Adapters, ips spigot x ts, (For use with Sch 40 PVC tees, ells)					
733-07	3/4"	3/4" x 3/4"	2 7/8"	18	17.45
733-10	1"	1" x 1"	2 7/8"	18	18.22
733-12	1 1/4"	1 1/4" x 1 1/4"	2 7/8"	12	33.60
733-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18	38.87
733-20 ☺	2"	2" x 2"	3 1/2"	12	62.25
733-71	3/4" x 1"	3/4" x 1"	3 1/2"	18	17.45



118 Series

NO LEAD LEAD-FREE

NSF/ANSI 14

Pro-Span™ Expandable Repair Coupling Features:

- Double EPDM o-ring seal gives more protection from posible leakage due to deflection of piston in the extended position.
- EPDM o-ring seal also protects against contamination on the cylinder wall.
- Solvent cement trap located in cap to capture excess solvent cement.
- Made from PVC type I grade I material meeting ASTM D-1784
- 118 Series does not have union end.

NEW Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Flo-Span Expansion Couplings - NO UNION S x SPG				
118-05	1/2"	7 1/2"	28	$ **7.62**
118-07	3/4"	7 3/4"	24	**8.45**
118-10	1"	9 1/2"	15	**9.79**
118-12	1-1/4"	10 3/4"	10	**18.41**
118-15	1-1/2"	12 3/4"	16	**20.18**
118-20	2"	13 1/2"	12	**30.85**
118-25	2-1/2"	18 3/4"	3	**47.94**
118-30	3"	21"	3	**59.89**
118-40	4"	22 3/4"	3	**104.70**
QF-6000	6" S x S	26 1/4"	1	**520.90**



SW Series

Part Number	For Use with Coupling Sizes	Ctn Qty	List Price
Adjustable Strap Wrench			
SW400	1/2" through 4"	60	$ 20.39
SW600	1/2" through 6"	60	23.18

American Granby™

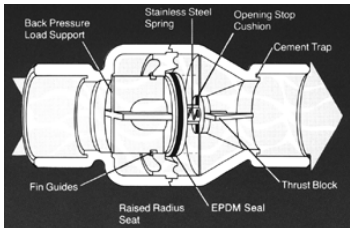
www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

PVC Spring Check Valve Features:

- To stop backflow and syphoning.
- All water applications.
- Maintenance free operation.
- Tapered valve body design & enlarged valve chamber reduces chatter & turbulence.
- Raised radius valve seat, EPDM Seal for positive seal.
- Stainless steel spring load of 1/2 lb. or 2 lb.
- Solvent weld or male and female thread connections.
- 200 P.S.I. static pressure rating @ 72° F.
- Excess sovent cement trap - Designed to help prevent excess cement or softened material from entering into the body and sealing area during installation.
- NSF/ANSI 61+372.



NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

NSF — Certified to NSF/ANSI 61+372



NSF/ANSI 61+372

1001, 1011, 1012 Series



NSF/ANSI 61+372

1011C Series

NSF/ANSI 61+372



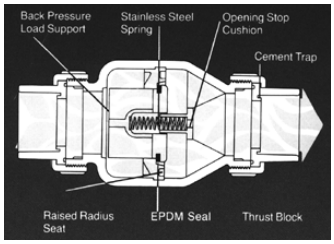
1800 Series (hex and round)

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Spring Check Valves (fipt x fipt)				**Spring Tension 1/2 lb**
1001-05	1/2"	4-1/8"	20	$ 21.78
1001-07	3/4"	4-1/8"	20	22.54
1001-10	1"	5-1/4"	20	32.67
1001-12	1-1/4"	6-3/16"	15	43.56
1001-15	1-1/2"	6-3/16"	15	46.43
1001-20	2"	7"	10	66.78
PVC Spring Check Valves (slip x slip)				**Spring Tension 1/2 lb**
1011-05	1/2"	4-/18"	20	21.78
1011-07	3/4"	4-1/8"	20	22.54
1011-10	1"	5-1/4"	20	32.67
1011-12	1-1/4"	6-3/16	15	43.56
1011-15	1-1/2"	6-3/16"	15	46.43
1011-20	2"	7"	10	66.78
1011-25	2 1/2"		8	102.56
1011-30	3"		8	120.26
Clear				
1011C-15	1-1/2"	6-3/16"	10	59.98
1011C-20	2"	7"	10	77.95
PVC Spring Check Valve, (slip x slip)				**Spring Tension 2 lbs.**
1012-10	1"		20	33.74
1012-12	1-1/4"		15	44.98
1012-15	1-1/2"		15	47.93
1012-20	2"		10	68.97
Foot Valve Screen (polyethylene, 100 mesh)				
1800-07	3/4" hex style	2-2/5"	1	3.76
1800-10	1" round style	2-4/5"	1	4.37
1800-12	1-1/4" hex style	3"	1	6.25
1800-15	1-1/2" round style	3-2/5"	1	7.55
1800-20	2" round style	3-4/5"	1	8.76

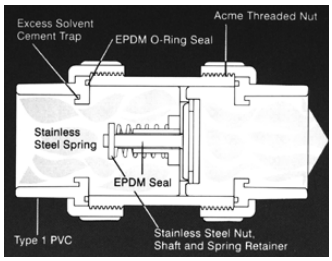
PVC True Union Spring Check Valve Features:

- Designed for easy body removal.
- Tail pieces remain in place.
- 1/2 lb. psi spring tension. 2 lb. spring tension available by special order.
- EPDM seal and o-rings.
- 200 P.S.I. static pressure rating @ 72° F.
- Stainless steel spring.
- Excess solvent cement trap.
- NSF/ANSI 61+372.

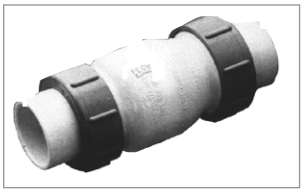
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372 — NSF Certified to NSF/ANSI 61+372 — NO LEAD LEAD-FREE



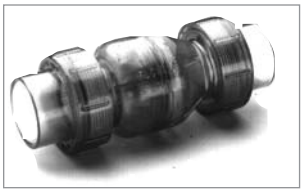
1700 Series



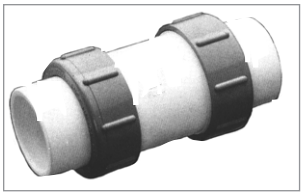
1790 Series



1700 Series



1700C Series



1790 Series



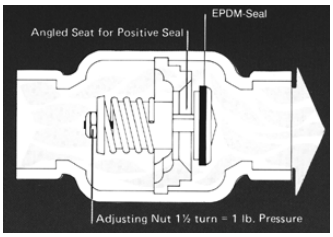
1790C Series

Part Number	Description	Body Length	Ctn Qty	List Price
True Union Spring Check Valves – WHITE				**1/2# Spring Tension**
1700-15	11/2" spring check	8.345"	12	$ 54.88
1700-20	2" spring check	9.735"	12	77.00
True Union Spring Check Valves – CLEAR				**1/2# Spring Tension**
1700C-15	11/2" spring check	8.345"	12	66.92
1700C-20	2" spring check	9.735"	12	91.61
Compact True Union Spring Check Valves - WHITE				**1/2# Spring Tension**
1790-15	11/2" compact valve	6.54"	15	54.19
1790-20	2" compact valve	7.35"	10	68.40
Compact True Union Spring Check Valves - CLEAR				**1/2# Spring Tension**
1790C-15	11/2" compact valve	6.54"	15	58.98
1790C-20	2" compact valve	7.35"	10	80.32

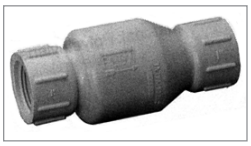
NSF/ANSI 61+372

PVC Adjustable Spring Check Valve Features:

- Use to restrain pressure in elevated pipelines.
- Ideal for preventing syphoning.
- Male or female threaded connection.
- 200 psi static pressure rating @ 72°F.
- Adjustable from 5 lb to 15 lb spring tension to retain a column of water 12 to 36 foot head.
- EPDM seal.
- NSF/ANSI 61+372.



NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372 — NSF Certified to NSF/ANSI 61+372



NSF/ANSI 61+372

1205 Series



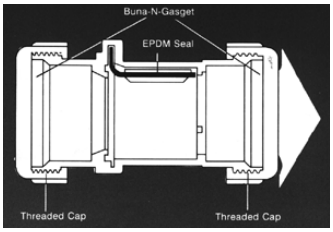
NSF/ANSI 61+372

1235 Series

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Adjustable Spring Check Valves (fipt x fipt)				**Spring Tension 5 lb***
1205-05	1/2"	4-1/8"	20	$ **25.03**
1205-07	3/4"	4-1/8"	20	**26.60**
1205-10	1"	5-1/4"	20	**34.73**
1205-12	1-1/4"	6-3/16"	15	**44.50**
1205-15	1-1/2"	6-3/16"	15	**47.37**
PVC Adjustable Spring Check Valves (fipt x mipt)				**Spring Tension 5 lb***
1235-05	1/2"	4-1/8"	20	**25.79**
1235-07	3/4"	4-1/8"	20	**26.35**
1235-10	1"	5-1/4"	20	**34.73**

* 1 1/2 turn = 1 lb. force

PVC SUMP CHECK Valve Features:



- Positive seal with long lasting EPDM weighted flapper and Buna-N gaskets.
- Easy installation and removal with compression seal connections. No hose clamps, cementing or threading necessary
- Allows 1 3/4" vertical movement of discharge pipe for easy removal of pump.
- Unitized body construction using spin welded process with permanent interlock of Buna-N flapper.
- Valve fits either 1 1/4" or 1 1/2" IPS size. Gaskets for both provided with each valve.
- Sump pumps with larger volume output use 1500 or 1520 series swing check. (see next page)
- Rated at 125 psi @ 72°F.



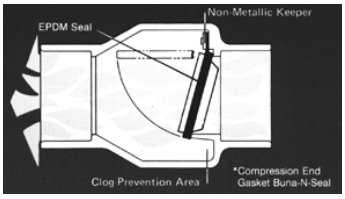
SUMP CHECK

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Sump Check Valve				
BUNA-N gaskets are included for both the 1 1/4" and 1 1/2" applications				
SUMP CHECK	1-1/4"-1-1/2"	5 1/4"	12	$ **32.39**

Check Valves - Flo Control

PVC Swing Check Valve Features:

- No metalic parts, corrosion resistant..
- Full flow design.
- Angle seat and weighted flapper designed for low pressure seal.
- PVC weighted and shielded flapper will retain backpressure up to 125 psi.
- Iron pipe sized 1/2" - 4".
- Compression style for IPS sized plastic or metal pipe 1 1/4" - 3"
- Ideal for close working areas, easy pipe alignment.
- Compression ends can be used as union connections.
- Designed for both horizontal and vertical use.
- Pressure rated 125 psi @ 72°F.
- NSF/ANSI 61+372.



NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

NSF Certified to NSF/ANSI 61+372

NO LEAD LEAD-FREE



1500 Series

NSF/ANSI 61+372

1520 Series



1520C Series

NSF/ANSI 61+372



1720 Series

NSF/ANSI 61+372



1720C Series

NSF/ANSI 61+372

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Swing Check Valve - WHITE comp x comp				
1500-12	1-1/4"	7-1/2"	12	$ 48.20
1500-15	1-1/2"	7-1/2"	12	50.88
1500-20	2"	9-3/4"	12	71.59
1500-30	3"	14"	2	193.98
PVC Swing Check Valve - CLEAR comp x comp				
1500C-15	1-1/2"	7-1/2"	5	62.78
1500C-20	2"	9-3/4"	8	93.06
PVC Swing Check Valve - WHITE slip x slip				
1520-05	1/2"	4-1/2"	25	31.07
1520-07	3/4"	4-1/2"	25	31.63
1520-10	1"	5-1/8"	25	32.76
1520-12	1-1/4"	5-1/4"	12	34.85
1520-15	1-1/2"	5-3/4"	12	35.95
1520-20	2"	6"	12	54.96
1520-30	3"	9"	4	97.96
1520-40	4"	9-1/2"	4	138.43
PVC Swing Check Valve - CLEAR slip x slip				
1520C-10	1"	5-1/8"	1	45.26
1520C-12	1-1/4"	5 1/4"	1	48.00
1520C-15	1-1/2"	5 3/4"	12	51.55
1520C-20	2"	6"	12	74.33
True Union Swing Check Valves - WHITE slip x slip				
1720-15	11/2"		12	39.36
1720-20	2"		12	57.50
True Union Swing Check Valves - CLEAR BODY, WHITE NUTS/TAILS slip x slip				
1720C-10	1"		20	44.63
1720C-15	11/2"		12	56.68
1720C-20	2"		12	77.24
1720C-30	3"		20	153.18

American Granby

www.americangranby.com

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

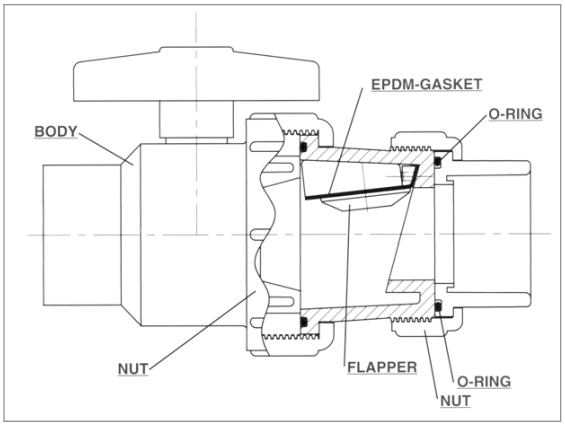


2200 Series

2200 Series Checkmate Features:

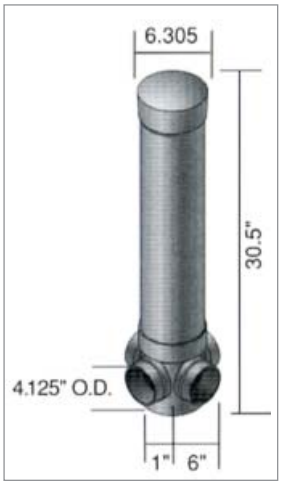
- One piece ball/check valve combination.
- Save time, labor and hassle to applications requiring in-line ball valves and check valves.
- True union or compression design allows for removal of check valve for cleaning or repairs.
- May be installed in vertical or horizontal position.
- Made of PVC type 1 grade 1 material meeting ASTM-D1784.
- Rated at 125 PSI static pressure @ 72°F

NO LEAD ✓ LEAD-FREE



Part Number	Description	Ctn Qty	List Price
2200-15	1 1/2" Union x Slip	12	$ 57.23
2200-20	2" Union x Slip	12	86.57
2200-15TU	1 1/2" Union x Union	12	75.83
2200-20TU	2" Union x Union	12	102.09
2200-15UC	1 1/2" Compression x Compression	12	69.22
2200-20UC	2" Compression x Compression	12	92.54

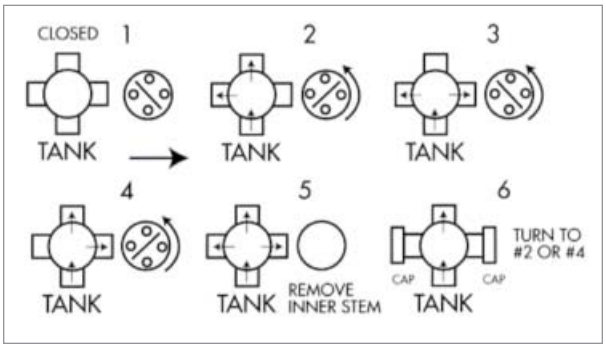
Diverter Valves, Sch 40 White Unions



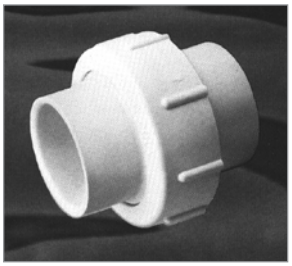
575 Series

Diverter Valve Features:

- For septic tank leach fields.
- Made of tough molded plastic that will not shatter, bend, rust or corrode.
- Light in weight, easier to handle and less expensive to ship.
- Stem flow may be controlled to individual or up to 3 fields in any combination. With a 3-way stem, flow may be diverted to any two outlets. To allow flow through all outlets, the valve stem may be removed from the assembly.
- ABS is IAPMO listed.



Part Number	Description	Ctn Qty	List Price
575	4" ABS Diverter Valve, Black	4	$ 273.73
575P	4" PVC Diverter Valve, White	4	270.78



1600 Series

NO LEAD
LEAD-FREE

Part Number	IPS Size	Ctn Qty	List Price
SCHEDULE 40 - MADE IN USA			
SLIP X SLIP			
1600-15	1 1/2" Socket both ends, 2" spigot one end	24	$ 20.69
1600-20	2" Socket both ends, 2 1/2" spigot one end	20	28.62

American Granby
www.americangranby.com
In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

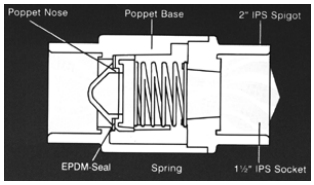
Check Valves - PVC Spa, By-Pass



1050 Series

PVC Spa Air Valve Features:

- Drip proof seal at low pressure.
- 1 1/2" IPS deep socket connection with 2" IPS OD spigot
- Excess solvent cement trap at base of socket to help prevent solvents from entering sealing area.
- Minimum restriction of air flow, using 1/4 lb. spring resulting in less burden on blower motor.
- Domed shaped seat for even air flow.
- EPDM seal.
- Stainless steel spring.
- Rated at 200 PSI static pressure @ 72°F



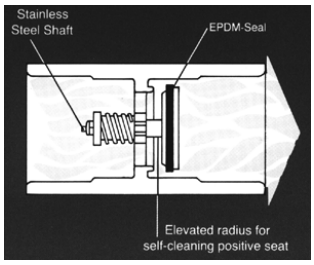


1095 Series

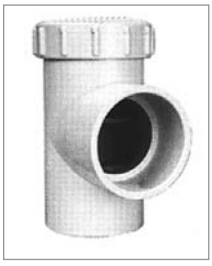
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

NSF
Certified to NSF/ANSI 61+372

PVC In-Line By-Pass Check Valve Features:



- In-line shape takes less space.
- Raised valve seat prevents excess cement of solvent from affecting the seal area.
- Poppet is equipped with non-adjustable EPDM seal.
- Body is made of Type 1 PVC.
- All metal parts are stainless steel.
- Valve stem is reinforced w/ full length stainless steel shaft.
- Static pressure tested: 200 psi @ 72°F. Back pressure tested at 150 psi.
- Quick burst test proves in excess of 500 psi
- 2" iron pipe size
- Valve can be used on 1-1 1/2" pipe by use of a PVC Sch 40 bushing.
- Begins to open 5 lbs - Fully open 17 lbs.
- NSF/ANSI 61+372.



1901/1903 Series

CPVC 90° Spring Check Valve Features:



- Use in pool, spa applications.
- CPVC body with corrosion proof poppet.
- Spring made of 302 stainless.
- Available with 1 lb. or 3 lb. spring tension.
- Rated at 125 PSI static pressure @ 160°F

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Spa Air Valve - 1-1/2" ips socket / 2" ips o.d. spigot				
1050-20	2"	5-1/8"	12	$ **36.87**
PVC In Line By-Pass Check Valve				
1095-20	2" w/ 5# spring	5"	12	**43.85**
CPVC 90° Spring Check Valve, w/ stainless steel poppet				
1901-15	1 1/2" check valve, 1 lb. tension		12	**112.05**
1903-15	1 1/2" check valve, 3 lb. tension		12	**112.05**
1901-20	2" socket x 2 1/2" spigot valve, 1 lb. tension		12	**112.05**
1903-20	1" socket x 2 1/2" spigot valve, 3 lb. tension		12	**112.05**

Valves - PVC Single Union, 3-way CPVC



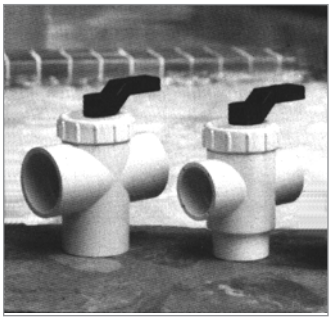
1350 Series

NO LEAD ✓ LEAD-FREE

PVC Single Union Ball Valve Features:

- PVC Type 1 construction for compatibility in joining rigid PVC and flex vinyl pipes.
- **Buna "N" O-Ring seal; HDPE seats.**
- 1-1/4 deep sockets on both ends for extra cementing surface area.
- Tee handle for quarter turn on/off with stops.
- Working pressure: 150 PSI at 72ºF.
- Threaded or socket.

Part Number	Threaded/Socket	Size	Ctn Qty	List Price
1350-15	Socket	1-1/2"	12	$ 39.97
1350-20	Socket	2"	6	64.50



1930 Series



CPVC Three-Way Valve Features:

- For pool & spa applications.
- Made of CPVC plastic
- Diverts water anywhere diversion is required.
- Positive seal diverter prevents reverse flow.
- Diverter seals are made of a special lubricated EPDM material
- Available 1 1/2" - 2" slip with 2" and 2 1/2" spigot.
- Rated at 125 PSI static pressure @ 160°F.

Part Number	Description	Body Length	Ctn Qty	List Price
1930-15	1 1/2" slip x 2" spigot	7"	12	$ 100.56

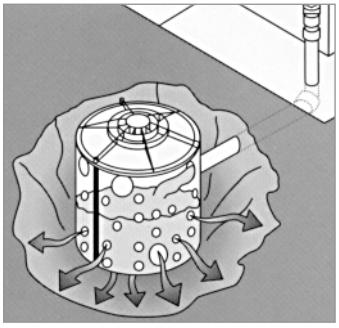
American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Flo-Well® Storm Water Leaching System



Flo-Well Storm Water Leaching System

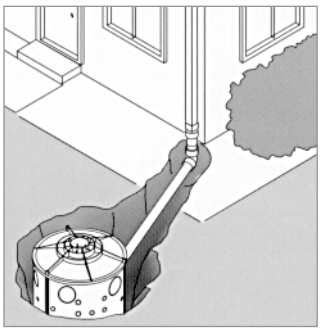
- Discharge water into the subsoil rapidly and easily.
- No need for piping systems to transport stormwater to a far-off point, large heavy equipment, considerable excavation of current landscape areas or large labor costs that those systems incur.

Materials:

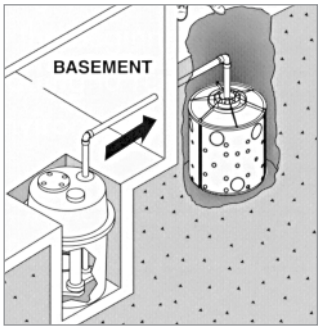
- Structural foam polyolefin with UV inhibitors.

Applications:

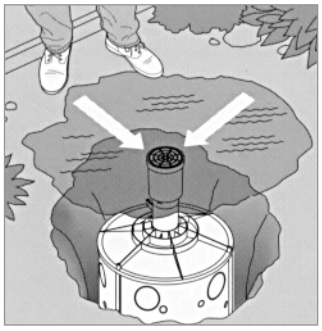
Flo-Well systems should be placed at least 10 feet from a structure or foundation.



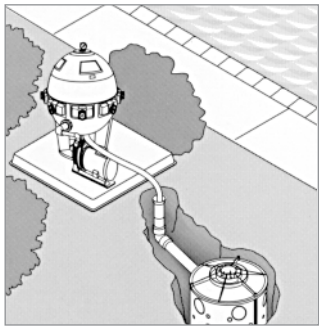
For gutters & downspouts



For sump pumps

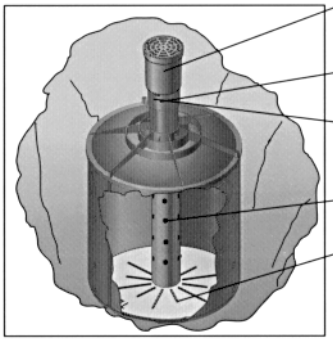


For low grade areas

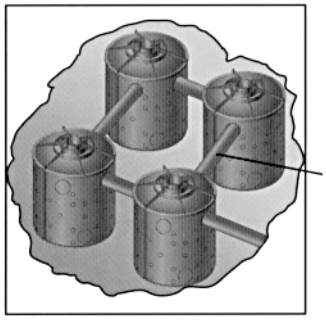


For pool backwash tanks

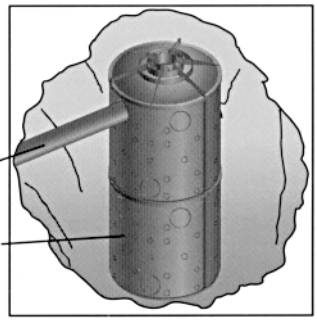
Options



For additional support

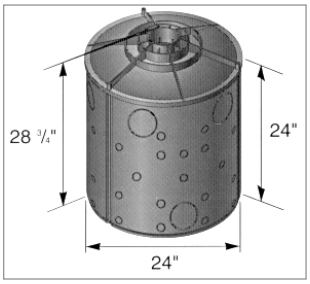


Can be connected



Can be stacked

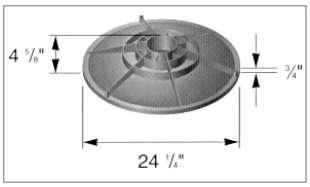
Flo-Well® Storm Water Leaching System



Flo-Well Storm water leaching system

- Includes 3 side panels, 1 top component
- 18 - 1 1/2" knockout leaching ports and 3 - 4 1/2" knockout inlet/outlet ports per panel.
- 49 gal capacity
- Fits 4" Sch 40 pipe and 4" DWV pipe

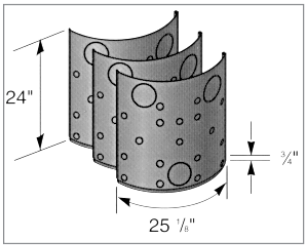
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWAS24	24 x 28 3/4" round system	Black	25.15	1	$ 298.40



Flo-Well Cover

- Fits FWAS24 and FWSPS3

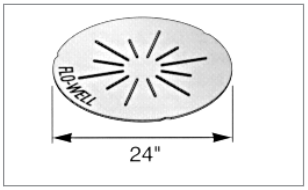
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWAS24C	24" dia cover	Black	8.0	2	119.01



Flo-Well Side Panels/ Extension Only

- Includes 3 side panels, 24" high, with 3/4" lip for stacking.
- Fits FWSA24
- 18 - 1 1/2" knockout leaching ports and 3 - 4 1/2" knockout inlet/outlet ports per panel.

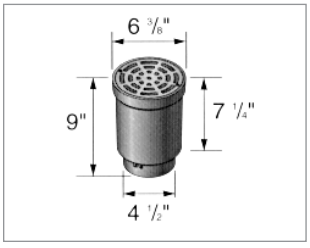
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWSPS3	side panels	Black	5.0	1	284.90



Flo-Well Bottom

- Six 1 1/2" leaching ports
- Fits FWAS24

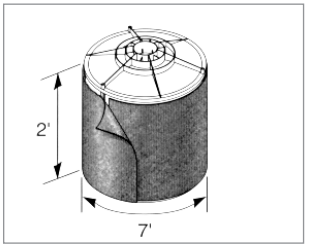
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWBP24	24" dia bottom	Black	3.5	5	96.41



Flo-Well Surface Drain Inlet with Grate

- 6" grate with 4" inlet.
- Fits FWAS24 and FWFWAS24C, PVC Sch 40 fittings

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWSD69	4" Sch 40 Inlet	Black	1.85	8	108.02



Porus Filter Fabric Wrap for FloWell

- 7' long x 2' wide to surround drywell system
- Non woven fabric
- Weight 1 oz. Mullen burst 175 psi, 200 gpm flow through.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWFF67	7' x 2' Porus Filter Fabric Wrap	Black	0.35	20	26.90

American Granby™

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

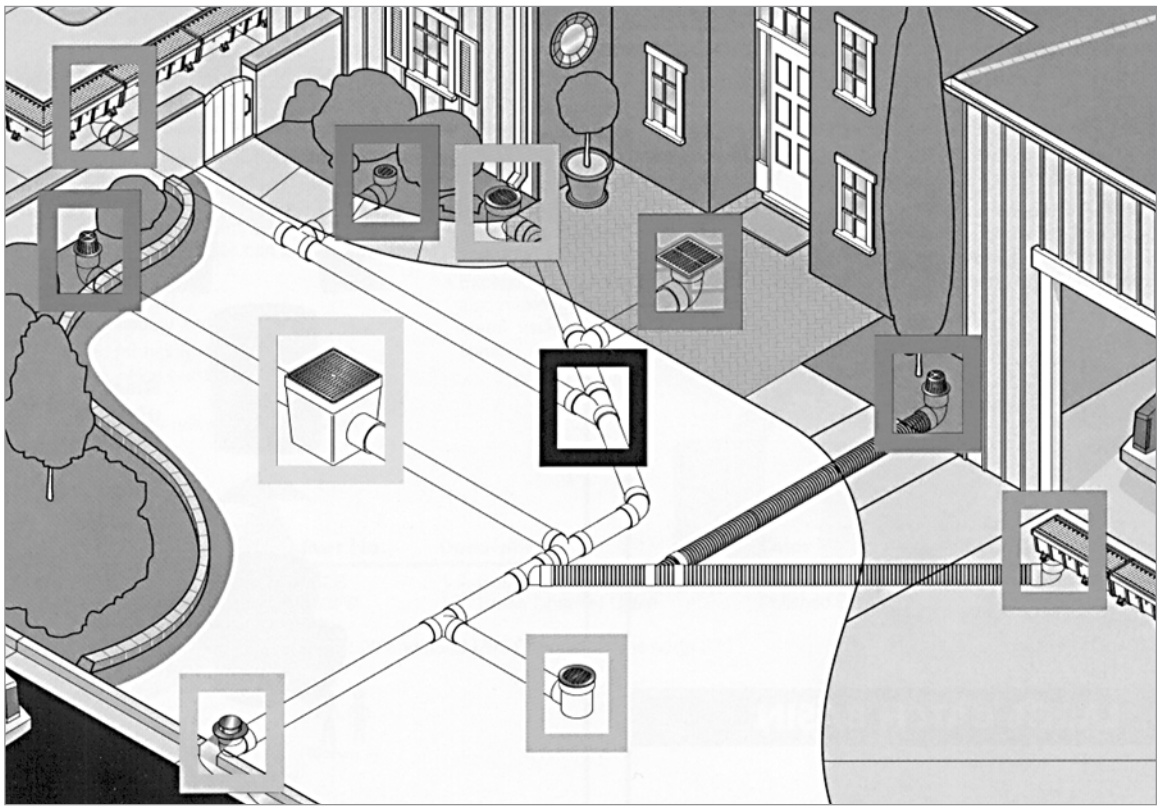
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

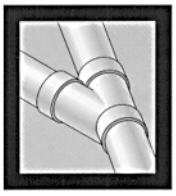
Catch Basin & Grate Features:

- Eliminates standing water and flooding on paved areas and lawns.
- Easy to install, sized to fit your project with catch basins from 6" to 24" and grates from 2" to 24".
- Prohibits structural damage to building foundations.
- Choose from a wide variety of products to fit every need.

Materials and Standards:

- Ultraviolet-resistant one piece injection-molded structural foam polyolefin for maximum strength.
- Installed properly, some plastic grates are suitable for light vehicular traffic. Standards vary per product. See individual product section for details.





Sewer & Drain Fittings for piping systems and downspouts.



Channel Drains for driveways, pools, spas, patios, sidewalks and wash-down areas.



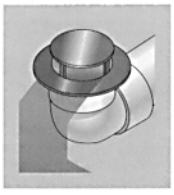
Large Catch Basins for large lawn or landscape areas, residential driveways and garages.



Small Catch Basins for lawn and landscape areas.



Small Grates for small lawn and landscape areas, patios and atriums.

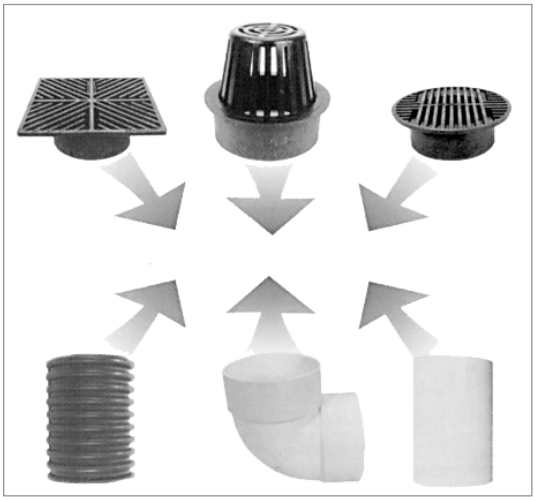


Pop-up Emitters for discharging water on the surface.

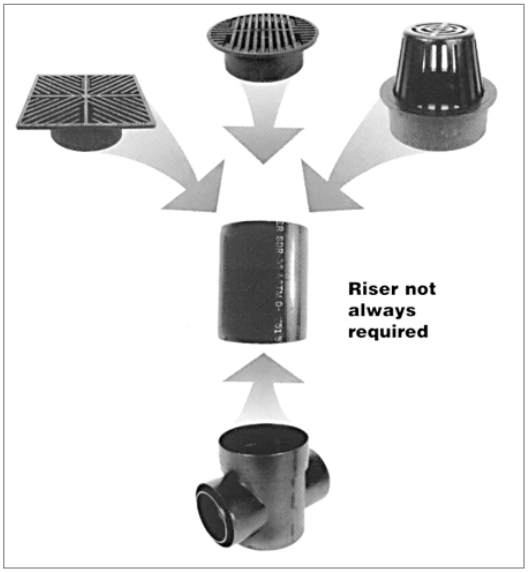
Catch Basins & Grates

Flexible by Design

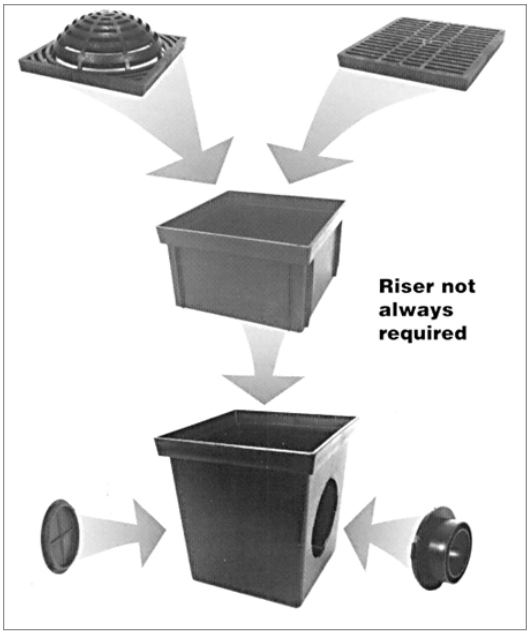
SMALL GRATES



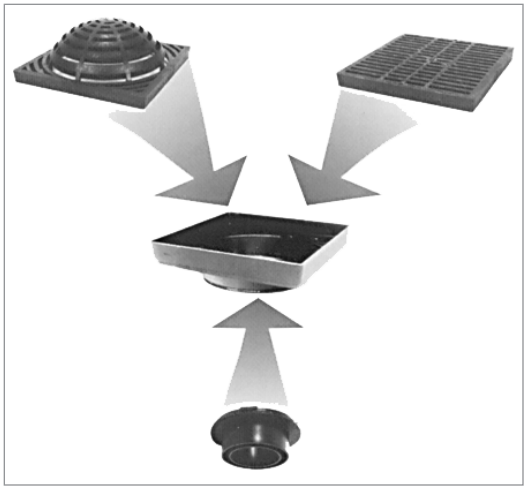
SPEE-D BASIN



LARGE CATCH BASIN



ADAPTER



Load Recommendations:

Class A

- Loads of 1-60 psi.
- Recommended for pedestrians, bicycles and wheel chair traffic.

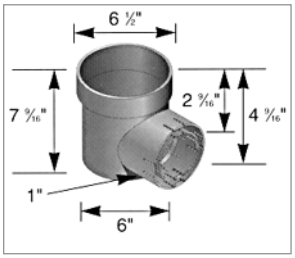
Class B

- Loads of 61-175 psi.
- Recommended for medium-duty pneumatic tire traffic, autos and light trucks at speeds less than 20 mph.

www.americangranby.com

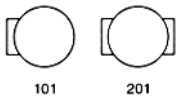
In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

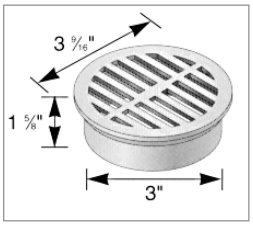


6" Spee-D Basin with 3" and 4" Locking Outlet

- **Locking outlet snaps on to most 3" and 4" corrugated pipe.**
- Outlets fit 3" or 4" sewer & drain pipe, corrugated pipe.



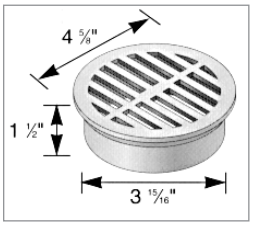
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
101	1 - 3" and 4" locking outlet	Black	1.60	10	$ 32.31
201	2 - 3" and 4" locking outlets	Black	1.90	10	32.31



3" Round Grate

- 3" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 2.6 sq. in.. 3.41 gpm
- 3/16" grate opening.
- Fits 3" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

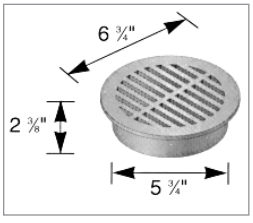
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
14	3" round grate	Black	0.15	40	$ 6.49
15	3" round grate	Gray	0.15	40	6.49
16	3" round grate	Green	0.15	40	6.49



4" Round Grate

- 4" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 3.85 sq. in.. 5.04 gpm
- 1/4" grate opening.
- Fits 4" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
11	4" round grate	Black	0.20	25	$ 6.82
12	4" round grate	Gray	0.20	25	6.82
13	4" round grate	Green	0.20	25	6.82



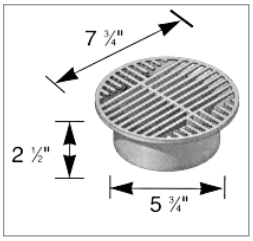
6" Round Grate

- 6" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 9.10 sq. in.. 11.92 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
40	6" round grate	Black	0.80	10	$ 18.95
50	6" round grate	Green	0.80	10	18.95
60	6" round grate	Gray	0.80	10	18.95

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

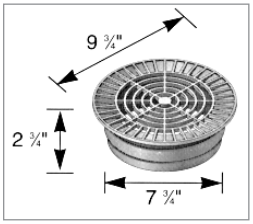
Round Grates



8" Round Grate

- 8" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 11.50 sq. in.. 15.07 gpm
- 5/16" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.

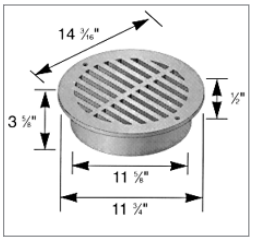
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
10	8" round grate	Black	0.80	10	$ 24.06
20	8" round grate	Green	0.80	10	24.06
30	8" round grate	Gray	0.80	10	24.06



10" Round Grate

- 10" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 17.46 sq. in.. 22.87 gpm
- 5/16" grate opening.
- Fits 8" sewer and drain pipe and fittings, corrugated pipe.

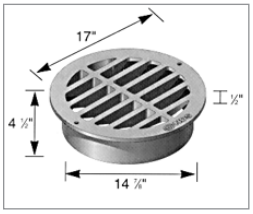
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1040	10" round grate	Black	1.50	10	$ 38.36
1050	10" round grate	Green	1.50	10	38.36
1060 ☺	10" round grate	Gray	1.50	10	38.36



12" Round Grate

- 12" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 46.00 sq. in.. 60.26 gpm
- 9/16" grate opening.
- Fits 12" sewer and drain pipe, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1240	12" round grate	Black	3.35	6	$ 119.91
1250	12" round grate	Green	3.35	6	119.91



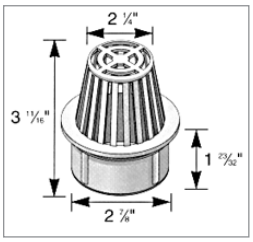
15" Round Grate

- 15" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 85.60 sq. in.. 112.14 gpm
- 1 1/4" grate opening.
- Fits 15" sewer and drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1511	15" round grate	Black	6.15	1	$ 231.27
1512	15" round grate	Green	6.15	1	231.27

☺ Non-stock item, available on a special order basis.
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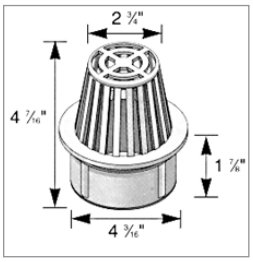
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3" Atrium Grate

- 3" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 9.5 sq. in.. 12.45 gpm
- 1/4" grate opening.
- Fits 3" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

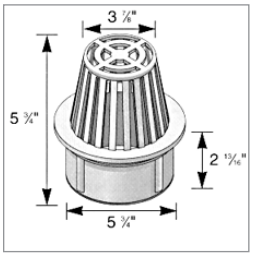
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
70	3" atrium grate	Green	0.25	20	$ 15.02
72 ☺	3" atrium grate	Gray	0.25	20	15.02
74	3" atrium grate	Black	0.25	20	15.02



4" Atrium Grate

- 4" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 14.5 sq. in.. 19.0 gpm
- 1/4" grate opening.
- Fits 4" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
75	4" atrium grate	Green	0.30	20	$ 22.63
76 ☺	4" atrium grate	Gray	0.30	20	22.63
78	4" atrium grate	Black	0.30	20	22.63



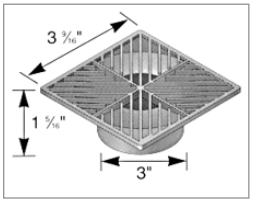
6" Atrium Grate

- 6" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 25.5 sq. in.. 33.41 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
80	6" atrium grate	Green	0.70	10	$ 30.33
81 ☺	6" atrium grate	Gray	0.70	10	30.33
90	6" atrium grate	Black	0.70	10	30.33

☺ Non-stock item, available on a special order basis.
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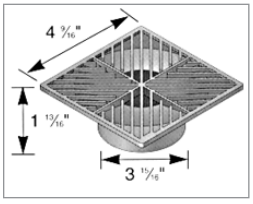
Square Grates



4" Square Grate

- 4" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 3.45 sq. in.. 4.52 gpm
- 3/16" grate opening.
- Fits 3" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.

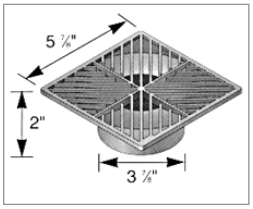
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
01	4" square grate	Green	0.11	40	$ 8.70
02	4" square grate	Black	0.11	40	8.70



5" Square Grate

- 5" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 4.25 sq. in.. 5.57 gpm
- 3/16" grate opening.
- Fits 4" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.

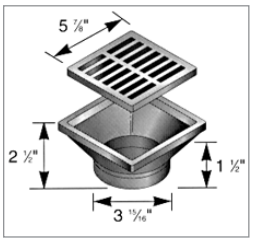
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
07	5" square grate	Green	0.20	25	$ 9.57
08	5" square grate	Black	0.20	25	9.57



6" Square Grate

- 6" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 10.40 sq. in.. 13.62 gpm
- 1/4" grate opening.
- Fits 3" or 4" sewer & drain pipe, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
04	6" square grate	Black	0.40	10	$ 13.51
05	6" square grate	Green	0.40	10	13.51



6" x 6" x 4" Square Grate and Adapter

- 6" x 6" low profile adapter and structural foam polyolefin removable grate with UV inhibitor & stainless steel screws.
- Open surface area 13.61 sq. in.. 17.83 gpm
- 1/4" grate opening.
- Fits 3" or 4" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
640	6" x 6" x 4" square grate & adapter	Black	0.88	8	$ 45.91
641	6" x 6" x 4" square grate & adapter	Green	0.88	8	45.91

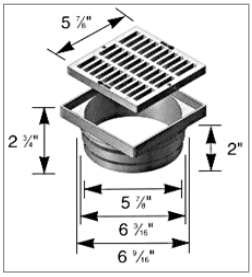
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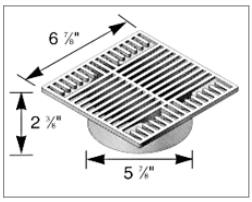
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



6" x 6" x 6" Square Grate and Adapter

- 6" x 6" low profile adapter and structural foam polyolefin removable grate with UV inhibitor & stainless steel screws.
- Open surface area 13.61 sq. in.. 17.83 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings.

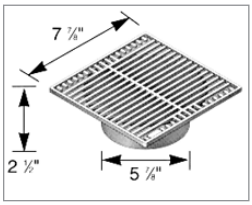
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
637	6" x 6" x 6" square grate & adapter	Black	0.88	8	$ 45.91
639	6" x 6" x 6" square grate & adapter	Gray	0.88	8	45.91



7" Square Grate

- 7" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 13.60 sq. in.. 17.83 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.

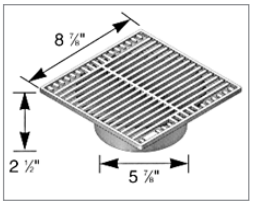
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
771	7" square grate	Black	0.70	10	$ 22.00
772	7" square grate	Green	0.70	10	22.00
773	7" square grate	Gray	0.70	10	22.00



8" Square Grate

- 8" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 17.16 sq. in.. 22.48 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
881	8" square grate	Black	0.80	10	$ 23.00
882	8" square grate	Green	0.80	10	23.00



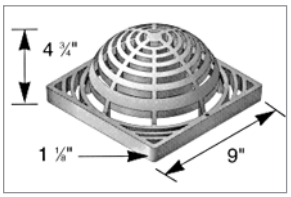
9" Square Grate

- 9" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 28.40 sq. in.. 37.20 gpm
- 5/16" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
950	9" square grate	Green	1.90	10	$ 34.92
960	9" square grate	Gray	1.90	10	34.92

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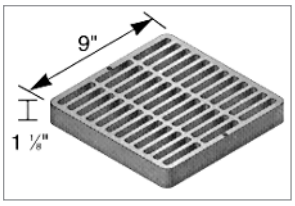
9" Catch Basin Series



9" Catch Basin Atrium Grate

- 9" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 30.28 sq in.. 39.67 gpm.
- 3/8" grate opening.
- Use with 9" x 9" catch basin series.

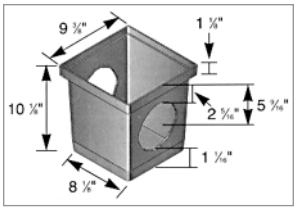
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
981	9" x 9" atrium grate	Black	0.87	6	$ 70.28
991	9" x 9" atrium grate	Green	0.87	6	70.28



9" Catch Basin Square Grate

- 9" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 39.50 sq in.. 51.75 gpm.
- 7/16" grate opening.
- Use with 9" x 9" catch basin series.

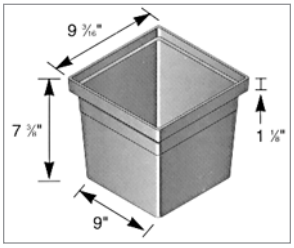
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
980	9" x 9" square grate	Black	1.50	8	$ 54.34
990	9" x 9" square grate	Green	1.50	8	54.34
999	9" x 9" square grate	Gray	1.50	8	54.34



9" x 9" Tapered Catch Basin

- Requires universal outlet (1206, 1242, 1243, 1245, 1266 or 1889) for each opening.
- 900BLKIT includes 2 opening basin and black grate in a kit.

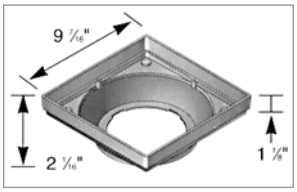
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
900	9" x 9" catch basin 2-opening	Black	3.00	4	$ 42.03
900-4	9" x 9" catch basin 4-opening	Black	2.00	4	54.60
900BLKIT	9“ x 9”catch basin with black grate	Black	4.25	4	117.31



6" Riser for 9" x 9" Catch Basin

- Bottomless
- Use with 9" x 9" catch basin series

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
916	9" x 9" catch basin riser	Black	1.75	4	$ 45.89



9" x 9" Low Profile Adapter

- Bayonet bottom outlet.
- Requires universal outlet (1243, 1245, 1266, 1889).
- Fits corrugated, sewer and drain pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
930	9" x 9" low profile adapter	Black	0.75	8	$ 42.41

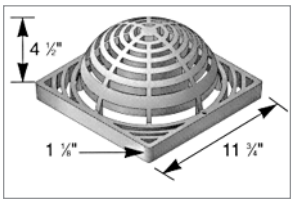
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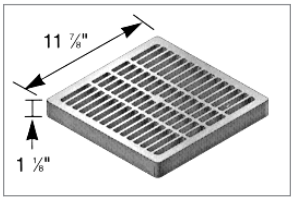
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12" x 12" Atrium Grate

- 12" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 60.00 sq. in.. 78.60 gpm.
- 3/8" grate opening.
- Use with 12" x 12" catch basin series.

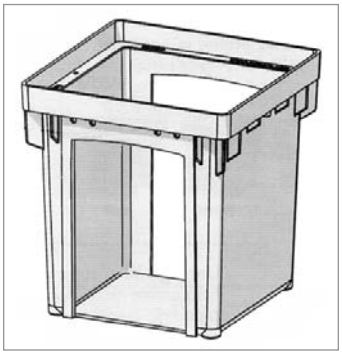
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1280	12" x 12" atrium grate	Green	2.00	8	$ 103.22
1290	12" x 12" atrium grate	Black	2.00	8	103.22



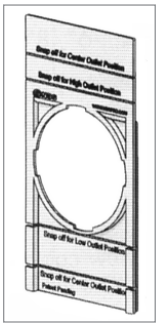
12" x 12" Square Grate

- 12" square structural foam polyolefin grate with UV inhibitor or heavy duty cast iron.
- Open surface area 50.76 sq. in. 66.50 gpm.
- Cast Iron open surface area 59.5 sq. in.. 77.95 gpm.
- 3/8" grate opening.
- Use with 12" x 12" catch basin series.

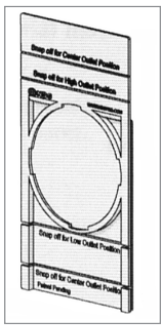
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1210	12" x 12" square grate	Gray	2.00	8	$ 80.63
1211	12" x 12" square grate	Black	2.00	8	80.63
1212	12" x 12" square grate	Green	2.00	8	80.63
1213	12" x 12" Cast Iron square grate	Black	7.00	1	$ 258.03



1200NGB



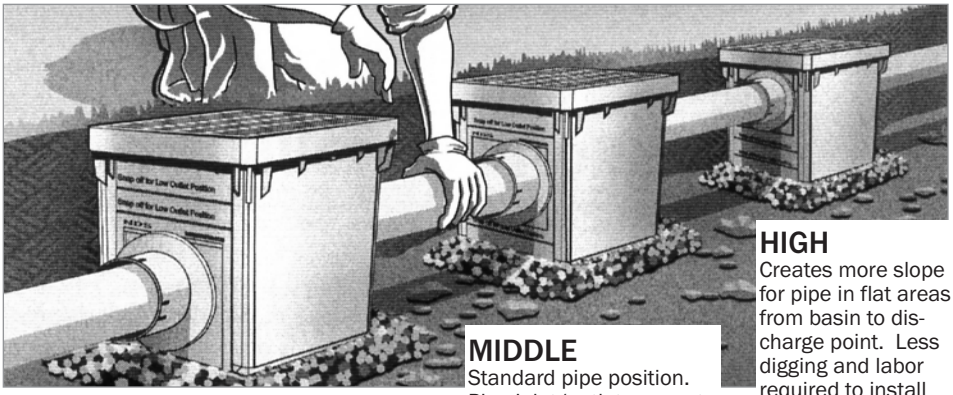
1207



1208

Next Generation Catch Basin

- Adjustable height inlet and outlets; just snap off slide tabs.
- Kit includes catch basin with 2 open slides.
- Faster and easier to install.



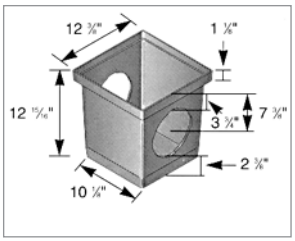
LOW
Reduces standing water in the bottom of the basin, especially in clay soils where water won't drain out of the bottom.

MIDDLE
Standard pipe position. Pipe inlet/outlet connects to the middle of the basin.

HIGH
Creates more slope for pipe in flat areas from basin to discharge point. Less digging and labor required to install pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1200NGBKIT	12" catch basin kit w/ 2 slides	Black	4.65	4	$ 97.21
1200NGB	12" catch basin	Black	3.45	4	89.18
1207	Open Slide for 1200NGB	Black	.60	8	8.02
1208	Plug Slide for 1200NGB	Black	.76	8	8.02

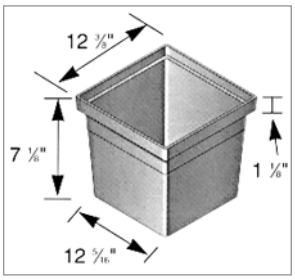
12" Catch Basin Series



12" x 12" Tapered Catch Basin

- Requires universal outlet (1206, 1242, 1243, 1245, 1266, or 1889) for each opening.
- Use bottom cutout for additional outlet.
- 1200BLKIT includes 2 opening basin and black grate in a kit.

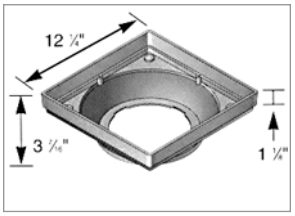
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1200	12" x 12" catch basin 2-opening	Black	4.25	4	$ 71.81
1203	12" x 12" catch basin 3-opening	Black	3.75	4	103.51
1204	12" x 12" catch basin 4-opening	Black	3.75	4	109.11
1200BLKIT	12" x 12" catch basin with black grate	Black	8.00	4	165.18



6" Riser for 12" x 12" Catch Basin

- Bottomless
- Use with 12" x 12" catch basin series

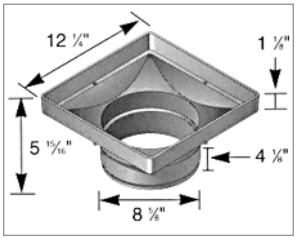
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1216	12" x 12" catch basin riser	Black	2.75	8	$ 47.07



12" x 12" Low Profile Adapter

- Bayonet bottom outlet
- Requires universal outlet for connection to 3", 4" or 6" sewer and drain or corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1230	12" x 12" low profile adapter	Black	1.25	5	$ 56.68



12" x 12" Square Low Profile Adapter

- Fits 8" sewer and drain pipe
- Use with #1222 spigot adapter to adapt to 8" corrugated pipe.

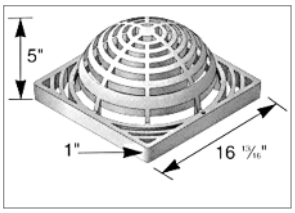
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1221	12" x 12" low profile adapter	Black	1.92	12	$ 71.49
1222	12" x 12" low profile spigot adapter	Black	1.92	12	71.49

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

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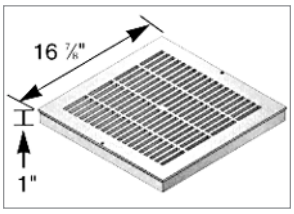
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



18" x 18" Atrium Grate

- 18" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 64.51 sq. in.. 84.51 gpm.
- 1/2" grate opening.
- Use with 18" x 18" catch basin series.

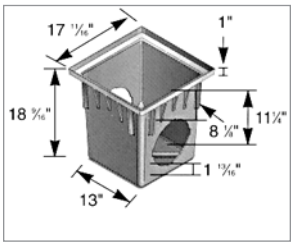
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1881	18" x 18" atrium grate	Black	3.50	4	$ 193.65
1891	18" x 18" atrium grate	Green	3.50	4	193.65



18" x 18" Square Grate

- 18" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 104.00 sq. in.. 136.24 gpm.
- 7/16" grate opening.
- Use with 18" x 18" catch basin series.

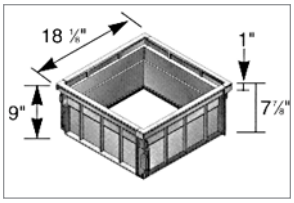
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1810	18" x 18" square grate	Gray	5.50	4	$ 270.18
1811	18" x 18" square grate	Black	5.50	4	270.18
1812	18" x 18" square grate	Green	5.50	4	270.18



18" x 18" One Piece Tapered Catch Basin

- Requires universal outlet for each opening.
- Includes 2 or 4 #1890 reducing rings.

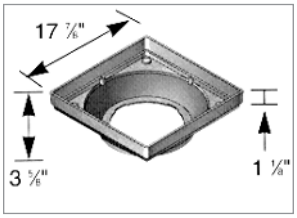
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1882	18" 1 piece catch basin 2-openings	Black	10.00	4	$ 407.29
1884	18" 1 piece catch basin 4-openings	Black	9.50	4	427.53



8" Riser for 18" x 18" Catch Basin

- Use with 18" one piece or expandable catch basins.
- 7 7/8" nesting height.
- Assembly required. Includes 4 riser sides.
- **NOTE: Use roof tar or silicone to seal joints.**

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1816	8" catch basin riser	Black	6.00	1	$ 195.07



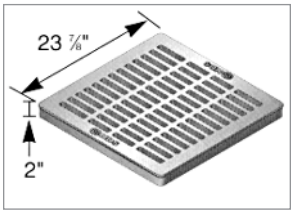
18" x 18" Low Profile Adapter

- Bayonet bottom outlet.
- Includes #1890 reducer ring.
- Requires universal outlet (1243, 1245, 1266, or 1888).
- Fits corrugated pipe and sewer and drain pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1830	18" x 18" low profile adapter	Black	4.75	4	$ 170.79

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

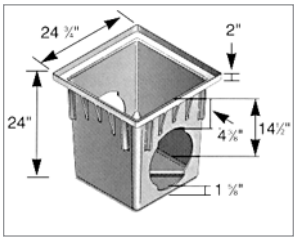
24" Catch Basin Series



24" x 24" Square Grate

- 24" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 231.69 sq. in.. 303.51 gpm.
- 7/8" grate opening.
- Use with 24" x 24" catch basin series.

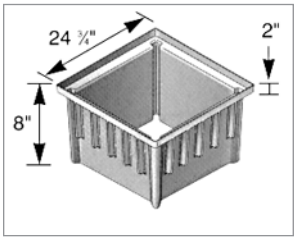
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2411	24" x 24" square grate	Black	9.00	4	$ 705.72
2412	24" x 24" square grate	Green	9.00	4	705.72



24" x 24" One Piece Tapered Catch Basin

- Requires 2 or 4 #2410 universal outlets.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2400	24" 1 piece catch basin 2-opening	Black	18.00	4	$ 746.03
2404	24" 1 piece catch basin 4-opening	Black	15.00	4	859.14



8" Extension for 24" x 24" Catch Basin

- Bottomless
- Use with 24" x 24" catch basin series

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2418	24"x 24" catch basin extension	Black	14.00	10	$ 493.67

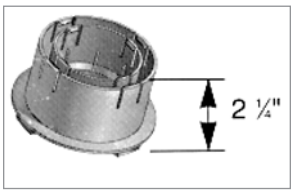
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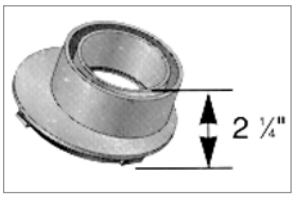
Catch Basin Universal Outlets



3" and 4" Universal Locking Outlet

- **New locking outlet snaps on to most 3" and 4" corrugated pipe.**
- Fits 3" & 4" corrugated pipe and sewer & drain pipe and triple wall pipe, 4" sch 40 pipe.
- Use with 9", 12" 18" and 24" (with #2410) catch basin series and adapters.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1243	3" & 4" universal locking outlet	Black	0.70	20	$ **10.97**



3" and 4" Offset Universal Outlet

- Fits 3" & 4" corrugated pipe and sewer & drain pipe, 4" sch 40 pipe and triple wall pipe.
- Allows for adjustable inlet height.
- Use with 9", 12", 18" and 24" (with #2410) catch basin series.

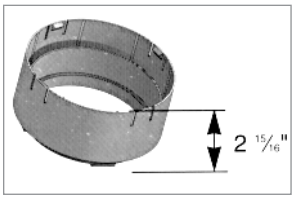
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1245	3" & 4" offset universal outlet	Black	0.55	20	$ **12.77**



3" and 4" Universal Adapter w/ 4" spigot

- Fits 3" & 4" corrugated pipe, sewer & drain pipe, triple wall pipe and 4" sch 40 pipe.
- Use with 3" and 4" sewer and drain fittings.

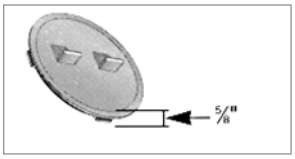
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1241	3" & 4" universal adapter	Black	0.70	20	$ **12.43**



6" Universal Locking Outlet

- **New locking outlet snaps on to most 3" and 4" corrugated pipe.**
- Fits 6" corrugated pipe and sewer & drain pipe.
- Use with 9", 12", 18" and 24" (with #2410) catch basin series and adapters.

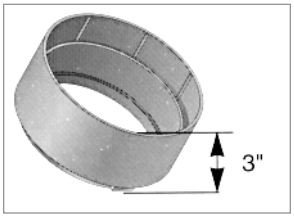
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1266	6" universal locking outlet	Black	0.75	20	$ **14.32**



6" Universal Plug Adapter

- Use with 9", 12", 18" and 24" (with #2410) catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1206	6" universal plug adapter	Black	0.35	20	$ **8.80**



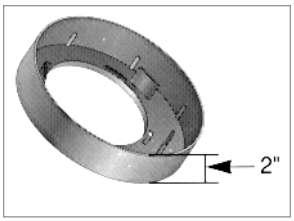
8" Universal Outlet

- Fits 8" corrugated pipe and sewer & drain pipe.
- Use with 18" and 24" (with #2410) catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1888	8" universal outlet	Black	1.25	8	$ **29.77**

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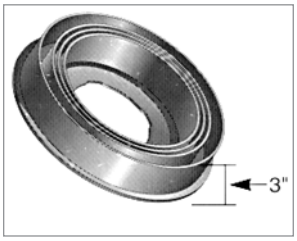
Catch Basin Universal Outlets



8" Offset Universal Adapter

- Fits 8" corrugated pipe and sewer & drain pipe.
- Use with 12" catch basin series.
- Use with #1890 reducer ring for 18" catch basin series.
- Reducer ring required on #1821 basin side, 18" catch basin series to adapt to universal outlets (#1206, 1243, 1245, 1266 or 1889.)

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1889	8" offset universal outlet	Black	0.80	10	$ **33.64**
1890	Universal outlet reducer ring	Black	0.50	8	**15.46**



10" and 12" Universal Adapter

- Includes universal outlet reducer ring (#1890).
- Fits 10" and 12" corrugated pipe and sewer & drain pipe.
- Fits 3", 4", 6" and 8" corrugated, sewer & drain pipe, 4" Sch. 40 pipe by using corresponding adapter.
- Use with 24" catch basins.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2410	10" and 12" universal adapter	Black	5.50	2	$ **80.66**

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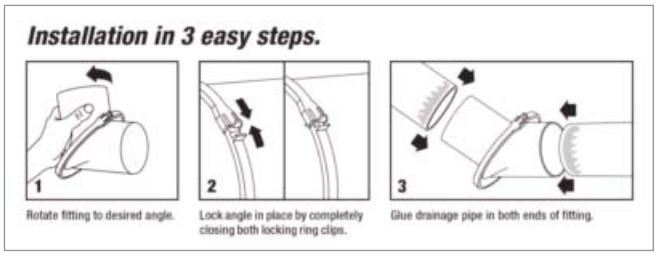


4PVAF



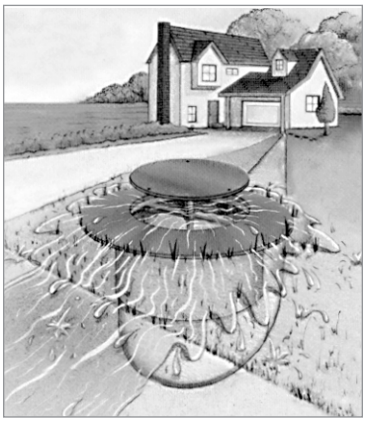
Swivel Fit® Variable Angle Fitting

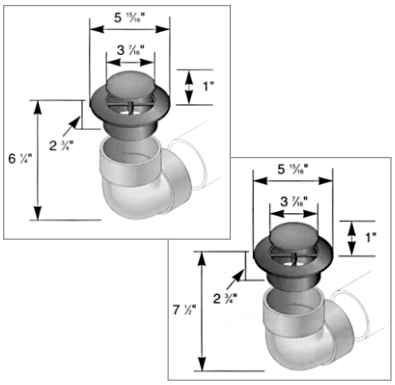
- Multiple fittings in one. Can be set and locked in place to any angle from 0° to 90°.
- Convenient for misaligned pipes and routing around corners and obstacles.
- Patent pending design.
- Installs in 3 easy steps.
- Fits 4" drain pipe SDR-35, Triple wall and ASTM-D2729.
- Not for sewer use.



Part Number	Description	Ctn Qty	List Price
4PVAF	Swivel Fit Fitting	12	$ 84.29

Drainage Emitter





The Pop-Up Drainage Emitter is an easy, safe & efficient solution.

It allows water to be diverted and released to water-safe areas away from structures, erosion-prone landscapes and poor drainage areas.

- It allows water captured by grates, catch basins, channel drains, downspouts and roof gutter systems to flow through the drainage pipe and away from structural foundations to safe or useful areas. For example, water can be routed from a low area next to a foundation to a water safe area such as a curbside drainage system.
- It is opened by the hydrostatic pressure of water flowing through the drain pipe. As flow diminishes the emitter closes again. The special patented design allows the emitter to open with a negligible amount of pressure. Since the emitter is closed during dry weather, debris and rodents cannot enter the drain pipes.
- It does not rise high enough to interfere with mowers.
- It blends into the surrounding landscapes.

3" and 4" Emitter

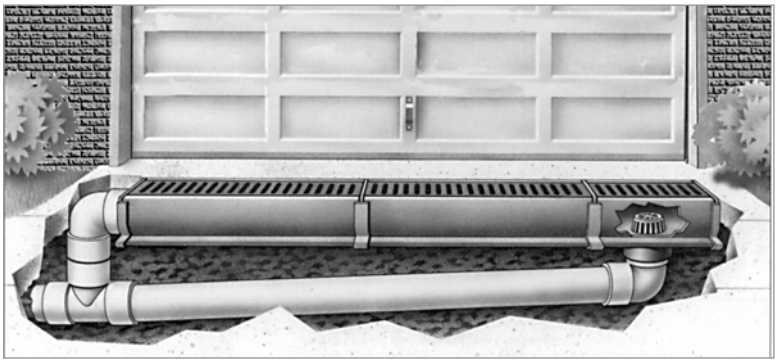
- 3" and 4" PVC pop-up drainage emitter.
- Center drive pop-up with UV inhibitor.
- PVC 90° elbow with 1/4" drain hole.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
321	3" emitter with elbow	Green	0.60	25	$ **42.23**
421	4" emitter with elbow	Green	0.85	20	**49.32**

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Durable

Designed for maximum durability and drainage, NDS channel drains are a proven alternative to traditional concrete drains. UV inhibitors in the grates, channels and component parts prevent fading and cracking from the sun. All plastic grate and channel components are chemically resistant, rust proof and maintenance free.

Simple

NDS channel is light-weight and easy to install. Grates are removable for easy clean-out and replacement. Channel grates may be held in place with NDS screws or hold down clips. A complete line of accessories is available for each channel.

NDS channel systems operate on the same principle as a roof gutter. All NDS channel easily connects to sewer and drain pipe and fittings or Sch 40 pipe and fittings.

Versatile

To blend with surrounding surfaces, channel grates are available in six colors. The channel system also offers a choice of outlets. Water can be evacuated from the bottom of the channel or from the end or sides of the channel.

Efficient

Channel drain eliminates the need for grading a deck surface to a low area. Instead, the deck is gradually sloped in one direction or plane, and the channel drain acts as a perimeter drain at the edge of the slope. Most hardscapes experience more runoff than landscapes due to the lack of water absorption. Channel drain systems provide more overall surface area than conventional area grates.

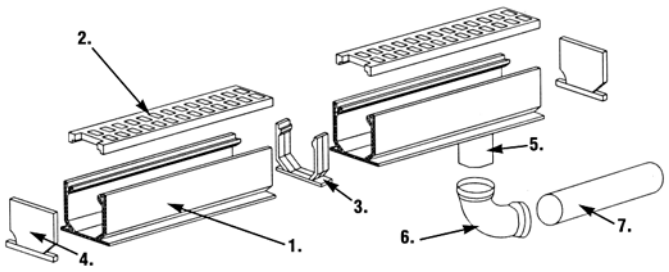
Non-Sloped Channel System Advantages

NDS offers non-sloped channel system advantages; less expensive, simplifies inventory, eliminates need to stock various sloping channel sections. Multiple outlets provide safety through redundancy, should any individual outlet become clogged. Proper flow is assured by use of sloped drain pipe.

Recommended Applications

- Driveways
- Parking Lots
- Warehouses
- Swimming pools & spas
- Washdown areas
- Tennis Courts
- Sidewalks
- Patios
- Sports Facilities
- Nurseries & greenhouses

Mini and Spee-D Channel System Components



1. Channel
2. Grate
3. Coupling
4. End Cap or End Outlet
5. Channel Bottom Outlet
6. Sewer and Drain Fitting
7. Drain Pipe

Installation:

1. Standard Installation

Excavate a trench to accommodate the channel and bedding concrete. Erect a string line at each end of the drain run as a guide for laying the channels to the required level. Begin channel installation at the evacuation or discharge end of the run where the outlet or outlets are located.

Install channel end-to-end PVC cementing sections together. Design bottom or end outlets into the channel run in the appropriate location and glue to the drain pipe or fittings. PVC cement end caps where appropriate.

Using either NDS stakes, 1/2" or 5/8" rebar or wood stakes, anchor channel to the trench bed every 24" on each side of channel. Backfill with either concrete, sand or soil depending on the application. Pour slab to grade and finish concrete.

Figure 1A illustrates a light vehicular installation in which a concrete base may not be required. Compacted soil and a 1" sand base may be used in place of concrete.

Figure 1B illustrates a concrete base underneath the channel recommended for heavy load applications or freeze/thaw zones where heaving may be a problem.

Figure 1A

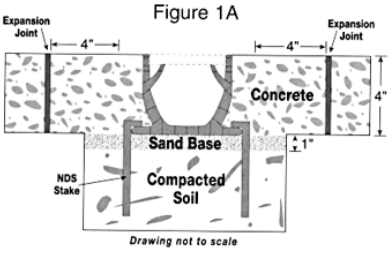
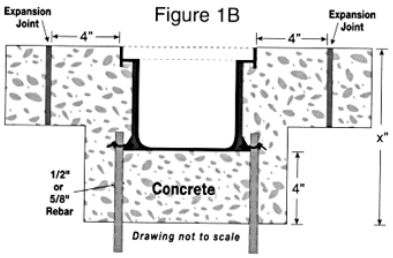


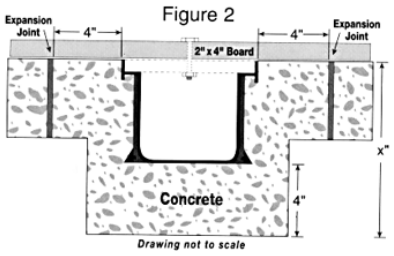
Figure 1B



2. Suspended Installation

Suspended installation is ideal for retrofit installations with an existing concrete slab or new construction where forms can be used to suspend the channels. Prepare the trench excavation. Using 2" x 4" boards, span the width of the trench and bolt the channel grates to the boards. Pour and compact concrete under and around the channels. Finish to the proper grade. Figure 2.

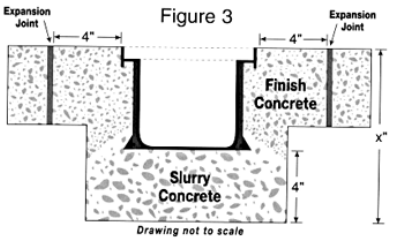
Figure 2



3. Slurry Installation

This installation may be used in lieu of the standard installation. Prepare the trench excavation and pull a stringline to the proper elevation. Pour a slurry of concrete in the trench to a depth that will insure at least 4" of concrete underneath the channels. Lay the channels in the bedding slurry. Check the channel alignment and grade again. After the slurry sets, concrete can be poured around the channel and finished to the proper grade. Figure 3.

Figure 3



Notes:

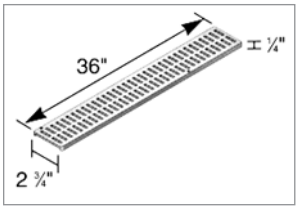
1. Grate must be installed prior to pouring concrete or backfill.
2. **Grate should be recessed 1/8" below finish grade in non traffic applications. Grate should be recessed 1/4" in traffic applications.**
3. In asphalt or hot mastic applications, the channels must be encased in concrete for strength and to prevent distortion of the channel.
4. Grates should be taped prior to pouring concrete to prevent debris from entering channel during installation.
5. Refer to load classification chart for proper application.
6. Expansion joints must be provided parallel, but not immediately adjacent to each side of the drain run and crack control joints utilized at right angles to the channel for installation in concrete.
7. PVC primer and medium body fast set PVC solvent cement must be used to cement all components.
8. Grate must be installed on channel at all times except for cleaning.

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Mini Channel™ Drain Features:

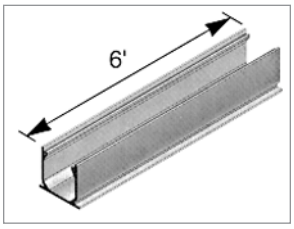
- Patented
- Low-cost alternative to Spee-D Channel.
- Excellent for light duty applications including residential pools, patios, spas and tennis courts.



3' Channel Grate

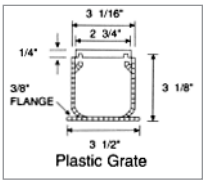
- Structural foam polyolefin channel grate with UV inhibitors.
- Open surface area 11.3 sq. in.. 14.8 gpm per foot.
- 1/4" x 5/16" grate opening.
- Requires 4 screws per grate.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
541	3' channel grate	Gray	0.688	48 ft	$ 34.86
542	3' channel grate	Green	0.688	48 ft	34.86
543	3' channel grate	Black	0.688	48 ft	34.86
544	3' channel grate	Sand	0.688	48 ft	34.86
551	3' channel grate	Brick Red	0.688	48 ft	34.86



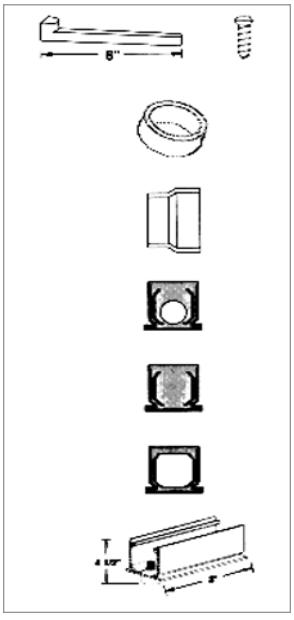
6' Mini Channel Drain

- 6' PVC Mini channel drain with inverse flying butress design, bottom flange, patented honeycomb reinforced walls and UV inhibitor.
- **Grates should be recessed 1/8" below finish grade in non traffic applications. Grate should be recessed 1/4" in traffic applications.**



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
500-6	6' Mini Channel Drain	Gray	4.00	48 ft	$ 105.67

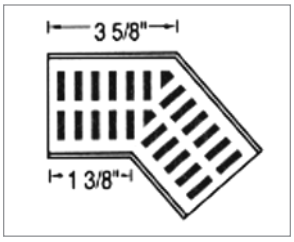
Mini Channel™ Drain Accessories:



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
529	Stainless Steel Screws type FH-#4 x 3/8"	Steel	0.10	64	$ 0.65
230	6" channel installation stake	Gray	0.40	24	2.35
532	2" Sch 40 hub to 3" S&D spigot adapter	White	0.20	20	49.27
533	2" Sch 40 hub to 4" S&D spigot adapter	White	0.35	20	44.89
546	Spigot end outlet for 2" Sch. 40 pipe	Gray	0.30	10	18.45
547	3" Channel end cap	Gray	0.15	20	14.60
548	3" Channel Coupling	Gray	0.20	20	15.23
550	3' channel w/ 2" Sch 40 spg bottom outlet	Gray	2.17	6	71.10

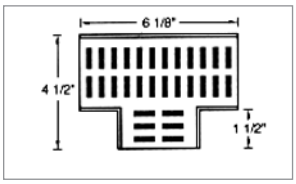
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Mini Channel™ Drains



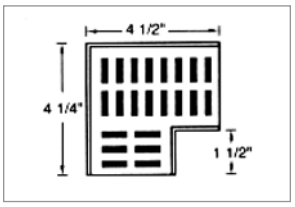
Fabricated 45° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
5300	Fabricated 45° elbow w/ grate	Gray	0.40	1	$ 58.52
5301 ☺	Fabricated 45° elbow w/ grate	Green	0.40	1	58.52
5302 ☺	Fabricated 45° elbow w/ grate	Black	0.40	1	58.52
5303 ☺	Fabricated 45° elbow w/ grate	Sand	0.40	1	58.52
5304 ☺	Fabricated 45° elbow w/ grate	Brick Red	0.40	1	58.52



Fabricated Tee with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
5370	Fabricated tee w/ grate	Gray	0.50	1	$ 56.86
5371 ☺	Fabricated tee w/ grate	Green	0.50	1	56.86
5372 ☺	Fabricated tee w/ grate	Black	0.50	1	56.86
5374 ☺	Fabricated tee w/ grate	Brick Red	0.50	1	56.86



Fabricated 90° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
5380	Fabricated 90° elbow w/ grate	Gray	0.40	1	$ 60.50
5383 ☺	Fabricated 90° elbow w/ grate	Sand	0.40	1	60.50
5384 ☺	Fabricated 90° elbow w/ grate	Brick Red	0.40	1	60.50

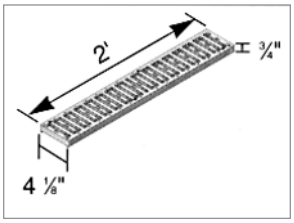
☺ Non-stock item, available on a special order basis.
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Spee-D Channel™ Drains

Spee-D Channel™ Drain Features:

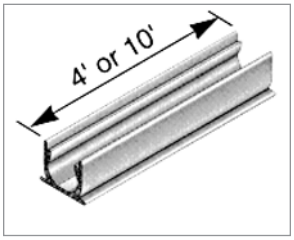
- Patented.
- Ideal for commercial as well as residential applications.
- Effective in everything from patios to light vehicular traffic areas.



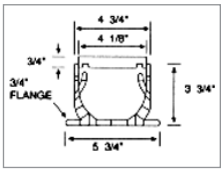
2' Channel Grate

- 2' Structural foam polyolefin secured channel grate with UV inhibitors.
- Open surface area 19.3 sq. in..
- 3/8" x 3 1/4" grate opening.
- Requires 4 screws per grate.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
241	2' channel grate	Gray	1.42	24 ft	$ 47.05
242	2' channel grate	Green	1.42	24 ft	47.05
243	2' channel grate	Black	1.42	24 ft	47.05
244	2' channel grate	Sand	1.42	24 ft	47.05
251	2' channel grate	Brick Red	1.42	24 ft	47.05



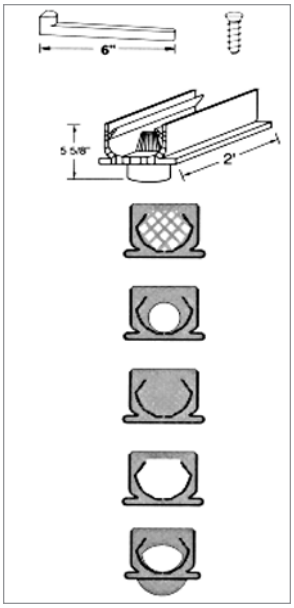
4' Channel Drain



- 4' PVC Spee-D channel drain with inverse flying butress design, bottom flange, patented honeycomb reinforced walls and UV inhibitor.
- **Grate should be recessed 1/8" below finish grade in non traffic applications. Grate should be recessed 1/4" in traffic applications.**
- **10' Length ships via truck only.**

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
400	4' Channel Drain	Gray	4.83	24 ft	$ 64.32
400-10	10' Channel Drain *	Gray	1.10	60 ft	162.65

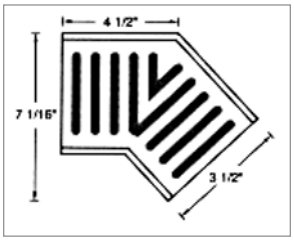
Spee-D Channel™ Drain Accessories:



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
229	Stainless Steel Screws	Steel	0.06	48	$ 0.89
230	6" channel installation stake	Gray	0.40	24	2.35
234	2' fabricated 3" & 4" spigot bottom outlet w/ strainer. Fits 3" or 4" S&D ftg. Grate not included	Gray	2.67	1	77.17
245	Channel strainer coupling	Gray	0.35	20	19.02
246	2" Sch. 40 spigot end outlet	Gray	0.40	10	17.91
247	Channel end cap	Gray	0.40	10	14.03
248	Channel Coupling	Gray	0.40	20	14.17
249	3" & 4" offset end outlet Connects to 3" S&D pipe, 4" S&D fittings	Gray	0.50	10	16.58

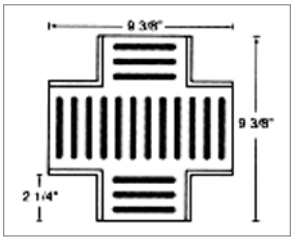
AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

Spee-D Channel™ Drains



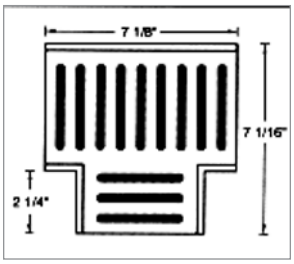
Fabricated 45° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2301	Fabricated 45° elbow w/ grate	Gray	2.0	1	$ 112.67
2302 ☺	Fabricated 45° elbow w/ grate	Green	2.0	1	112.67
2303 ☺	Fabricated 45° elbow w/ grate	Black	2.0	1	112.67
2305 ☺	Fabricated 45° elbow w/ grate	Brick Red	2.0	1	112.67



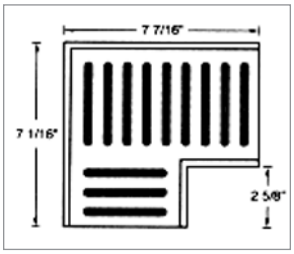
Fabricated Cross with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2361	Fabricated cross w/ grate	Gray	3.0	1	$ 160.84
2362 ☺	Fabricated cross w/ grate	Green	3.0	1	160.84
2364 ☺	Fabricated cross w/ grate	Sand	3.0	1	160.84
2365 ☺	Fabricated cross w/ grate	Brick Red	3.0	1	160.84



Fabricated Tee with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2371	Fabricated tee w/ grate	Gray	3.0	1	$ 119.17
2372 ☺	Fabricated tee w/ grate	Green	3.0	1	119.17



Fabricated 90° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2381	Fabricated 90° elbow w/ grate	Gray	3.0	1	$ 95.31
2382 ☺	Fabricated 90° elbow w/ grate	Green	3.0	1	95.31
2385 ☺	Fabricated 90° elbow w/ grate	Brick Red	3.0	1	95.31

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SECTION 10
TURF IRRIGATION

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RPS75

RPS75™ Rotor

The RPS75™ gear drive is designed for basic residential and light commercial applications and is a direct replacement for Hunter® PGP® rotors. The reversing mechanism, a K-Rain patented feature, is the same mechanism used in the Hunter PGP (K-Rain currently licenses this patent to Hunter.) With K-Rain's wide selection of standard and low angle nozzles, the RPS75 provides even water distribution.

Features:

- Direct Replacement for Hunter® PGP®.
- Right Position Start - Rotor rotates counterclockwise from fixed right start position.
- Riser Fits in Existing Hunter PGP Cans - Simply unscrew the existing riser from the PGP can and replace with the RPS75 riser.
- Top Adjustment - No training necessary, the RPS75 has the same adjustment procedure as the Hunter PGP.
- Full and Part Circle Rotation - Provides a full range of adjustment from 40° to 360°
- Non-Flushing Wiper Seal - Reduces leaks caused by debris trapped under seal.
- 3/4" Inlet - Replaces all standard rotors.
- Ideal for Low Flow Applications.
- Universal Adjustment Tool - Compatible with existing Hunter products.
- Rubber Cover - Seals out dirt and increases product durability.
- Wide Selection of Nozzles - Including standard and low angle, provides flexibility in system design.
- **Key and check disc also included in master cases.**
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**

ARC selection 40°- 360°.
Adjusts from RIGHT start.

Find performance data on following page.

Specifications:

- Inlet 3/4" female threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: 0.75 - 8.2 GPM
- Pressure Rating: 30-70 PSI
- Precipitation Rate: 0.12 to 1.16 inches/hour
- Overall height popped down : 7 3/8"
- Recommended spacing: 25' to 45'
- Radius: 22' to 51'
- Nozzle trajectory: 25°standard or 11°low angle
- 8 standard and 4 low angle nozzles included
- Riser Height: 4"

Part Number	Description	Ctn Qty	List Price
RPS75	RPS Standard Rotor	20	$ 18.54

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Rotors

RPS75™ Rotor Performance Data

	Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
STANDARD ANGLE	#0.75	30	29	0.7
		40	30	0.8
		50	30	0.9
		60	31	1.0
	#1	30	30	0.9
		40	31	1.0
		50	31	1.2
		60	32	1.3
	#1.5	30	32	1.2
		40	33	1.4
		50	34	1.6
		60	34	1.8
	#2	30	34	1.6
		40	36	1.8
		50	38	2.0
		60	38	2.2
	#3	30	36	2.0
	preinstalled	40	38	2.4
		50	40	2.7
		60	40	2.9
	#4	30	36	2.6
		40	40	3.0
		50	42	3.4
		60	42	3.7
	#6	30	38	4.2
		40	43	4.9
		50	46	5.5
		60	47	6.0
	#8	40	45	6.0
		50	48	6.8
		60	49	7.6
		70	51	8.2
LOW ANGLE	#1	30	22	1.2
		40	24	1.7
		50	26	1.8
		60	28	2.0
	#3	30	29	3.0
		40	32	3.1
		50	35	3.5
		60	37	3.8
	#4	30	31	3.4
		40	34	3.9
		50	37	4.4
		60	38	4.7
	#6	40	38	6.5
		50	40	7.3
		60	42	8.0
		70	44	8.6

Data represents test results in zero wind.

Adjust for local conditions.

Radius may be reduced with nozzle retention screw.

K-Rain products are not available for sale in NC, SC, TN, or MA.

American Granby™

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



RPS SELECT

RPS® SELECT Rotor

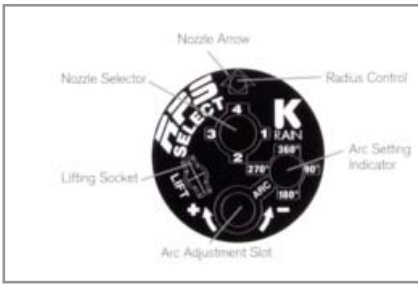
The RPS® SELECT rotary sprinkler is gear-driven for basic residential and light commercial applications. With 4 selectable built-in nozzles, matched precipitation is fast and easy without the need to change nozzles in the field.

Features:

- Four built-in selectable nozzles to match arc settings 90° to 360°
- Adjustable Arc (40° to 360°) made from the top with no special tools needed.
- Matched precipitation rate when nozzle setting matched to arc.
- 3/4" Inlet - Replaces all standard rotors.
- Low pressure operation.
- Standard Rubber Cover
- Proven gear-drive design common to the popular RPS75® series.
- Riser assembly interchanges with Hunter® PGP® rotors
- **Key and check disc also included in master cases.**
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**

Specifications:

- Inlet 3/4" female threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: 1.3 - 6.8 GPM
- Pressure Rating: 30-70 PSI
- Precipitation Rate: 0.23 to 0.71 inches/hour
- Overall height popped down: 7 3/8"
- Recommended spacing: 31' to 44'
- Radius: 33' to 46'



Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1 90°	30	33	1.3
	35	34	1.4
	40	37	1.5
	45	37	1.6
	50	37	1.8
#2 180°	30	37	2.6
	35	38	2.8
	40	39	3.0
	45	40	3.2
	50	40	3.6
#3 270°	30	37	3.8
	35	40	4.1
	40	41	4.5
	45	41	4.7
	50	43	4.9
#4 360°	30	38	5.2
	35	40	5.7
	40	44	6.0
	45	45	6.4
	50	46	6.8

Part Number	Description	Ctn Qty	List Price
RPS SELECT	RPS Select Rotor	20	$ **22.55**

K-Rain products are not available for sale in NC, SC, TN, or MA.

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299
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13003

MiniPro™ Rotor

Perfect for small lawn and landscape areas and for replacing fixed sprays. Direct replacement for the Toro Mini8.

Features:

- Gear driven, rotary type sprinkler capable of covering an area of 17' to 30'.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- Adjustable rotation provides a full range of adjustments from 40° to 360°. Patented arc set degree markings clearly indicate current watering pattern and simplifies adjustment
- Adjustable in all phases of installation - before, after while static or while in operation.
- Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 5 numerically coded interchangeable nozzles. Wide selection of nozzles provides flexibility in system design to achieve matched precipitation.
- Heavy duty rubber cover seals out durt and increases durability.
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**

5 YEAR WARRANTY



Find performance data on following page.



ARC selection 40°- 360°.
Adjusts from LEFT start.

Specifications:

- Inlet 1/2" NPT
- Arc adjustment range 40° to 360°
- Flow range: 0.75 - 3.3 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.22 to 0.41 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 6"
- Recommended spacing: 17' to 28'
- Radius: 17' to 30'
- Nozzle trajectory: 26°
- Riser Height: 4", 6" or 12".

Part Number	Description	Ctn Qty	List Price
13003	MiniPro short range rotor 4"	25	$ 17.16
13006	MiniPro short range rotor 6"	20	24.40
13012	MiniPro short range rotor 12"	12	42.34

K-Rain products are not available for sale in NC, SC, TN, or MA.

MiniPro™ Rotor Performance Data

STANDARD ANGLE

Red Nozzle

Performance Data:

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.75	30	17’	.75
	40	17’	.8
	50	18’	.9
#1	30	20’	.9
	40	21’	1.2
	50	21’	1.3
#1.5	30	23’	1.4
preinstalled	40	24’	1.7
	50	24’	1.9
#2	30	25’	1.8
	40	27’	2.1
	50	27’	2.4
#3	30	28’	2.7
	40	30’	3.0
	50	30’	3.3

K-Rain products are not available for sale in NC, SC, TN, or MA.

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



11003

ProPlus™ 11003 Rotor

Appropriate for medium to large landscape areas with high level risers and shrubs.
Direct replacement for the Toro Super800.

Features:

- Gear driven, rotary type sprinkler capable of covering an area of 22' to 50'.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- 2N1 adjustable or continuous rotation provides a full range of adjustments from 40° to a full 360°. Patented arc set degree markings show the degree of adjustment with the point of an arrow on the top cover.
- Arc memory clutch returns rotor to its preset position automatically even after being tampered with. Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 9 numerically coded interchangeable nozzles including 4 low angle nozzles. Wide selection of nozzles provides flexibility in system design to achieve matched precipitation.
- Heavy duty rubber cover seals our dirt and increases durability.
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**

5 YEAR WARRANTY



ARC selection 40° to continuous 360°. Adjusts from LEFT start.

Find performance data on following page.

Specifications:

- Inlet 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow range: 0.5 - 10.0 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.06 to 0.50 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 7 1/2"
  17" for High pop
- Recommended spacing: 28' to 44'
- Radius: 22' to 50'
- Nozzle trajectory: 26° standard or 12° low angle
- Riser Height: 5"

Part Number	Description	Ctn Qty	List Price
11003	ProPlus mid-range rotor	20	$ 22.97

K-Rain products are not available for sale in NC, SC, TN, or MA.

ProPlus™ 11003 Rotor Performance Data

STANDARD ANGLE
Red Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.5	30	28	0.5
	40	29	0.6
	50	29	0.7
	60	30	0.8
#0.75	30	29	0.7
	40	30	0.8
	50	31	0.9
	60	32	1.0
#1	30	32	1.3
	40	33	1.5
	50	34	1.6
	60	35	1.8
#2	30	37	2.4
	40	40	2.5
	50	42	3.0
	60	43	3.3
#2.5	30	38	2.5
preinstalled	40	39	2.8
	50	40	3.2
	60	41	3.5
#3	30	38	3.6
	40	39	4.2
	50	41	4.6
	60	42	5.0
#4	30	43	4.4
	40	44	5.1
	50	46	5.6
	60	49	5.9
#6	40	45	5.9
	50	46	6.0
	60	48	6.3
	70	49	6.7
#8	40	42	8.0
	50	45	8.5
	60	49	9.5
	70	50	10.0

LOW ANGLE
Green Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1	30	22	1.2
	40	24	1.7
	50	26	1.8
	60	28	2.0
#3	30	29	3.0
	40	32	3.1
	50	35	3.5
	60	37	3.8
#4	30	31	3.4
	40	34	3.9
	50	37	4.4
	60	38	4.7
#6	40	38	6.5
	50	40	7.3
	60	42	8.0
	70	44	8.6

K-Rain products are not available for sale in NC, SC, TN, or MA.

American Granby™

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



10003

SuperPro™ 10003 Rotor

With flow control, appropriate for residential or light commericial.
Direct replacement for the Toro Super 800.

Features:

- Riser fits in existing Toro Super800 cans.
- Gear driven, rotary type sprinkler capable of covering an area of 26' to 49'.
- Patented flow control valve inside the rotor allows individual head to be turned off or be partially closed to reduce the distance by up to 75%. Additionally it simultaneously reduces the flow rate creating an added water savings.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- 2N1 adjustable or continuous rotation provides a full range of adjustments from 40° to continuous 360°. Patented arc set degree markings show the degree of adjustment with the point of an arrow on the top cover.
- Arc memory clutch returns rotor to its preset position automatically even after being tampered with. Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 9 numerically coded interchangeable nozzles including 4 low angle nozzles.
- Heavy duty rubber cover seals our dirt and increases durability.
- 5 year limited warranty.



Specifications:

- Inlet 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow range: 0.5 - 10.0 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.05 to 0.74 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 7 1/2"
- Recommended spacing: 28' to 44'
- Radius: 26' to 49'
- Nozzle trajectory: 26°standard or 12°low angle
- Riser Height: 5"

Part Number	Description	Ctn Qty	List Price
10003	SuperPro rotor	20	$ **24.02**



ARC selection 40° to continuous 360°. Adjusts from LEFT start.

Find performance data on following page.

K-Rain products are not available for sale in NC, SC, TN, or MA.

SuperPro™ 10003 Rotor Performance Data

STANDARD ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.5	30	30	0.45
	40	29	0.5
	50	26	0.6
	60	26	0.7
#0.75	30	32	0.7
	40	32	0.8
	50	33	0.9
	60	33	1.0
#1	30	30	1.1
	40	32	1.3
	50	33	1.5
	60	33	1.6
#2	30	38	2.3
	40	38	2.5
	50	40	2.7
	60	42	3.0
#2.5	30	35	2.5
preinstalled	40	36	2.8
	50	37	3.2
	60	38	3.6
#3	30	35	3.4
	40	36	3.8
	50	38	4.2
	60	39	4.8
#4	30	42	4.1
	40	44	4.6
	50	45	5.1
	60	46	5.7
#6	40	46	5.8
	50	48	6.4
	60	49	7.0
	70	49	7.5
#8	40	42	7.5
	50	45	8.2
	60	48	9.0
	70	48	9.5

LOW ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1	30	26	1.3
	40	27	1.5
	50	27	1.7
	60	28	1.9
#3	30	29	2.9
	40	30	3.3
	50	31	3.4
	60	33	4.0
#4	30	28	4.0
	40	31	4.7
	50	34	5.0
	60	36	6.0
#6	40	30	6.0
	50	34	7.0
	60	37	7.8
	70	38	8.2

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American Granby™

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



K Spray Series

K-Spray Series Spray Bodies

Ideal for watering smaller areas, ground cover and shrub areas.

Features:

- Available in 3", 4" 6" and 12" models which provide flexibility in design.
- **Accepts MALE threaded nozzles.**
- Stainless steel retraction spring provides reliable retraction of the riser in all soil conditions.
- Ratchet riser allows for easy pattern alignment by turning the riser.
- Heavy duty wiper seal ensures leak free, full pop-up operation even under low pressure situations.

Specifications:

- Inlet 1/2" NPT female thread
- Flow range: 0.5 - 4.6 GPM
- Pressure Rating: 20-50 PSI
- Precipitation Rate: 0.4 to 1.91 inches/hour

Part Number	Description	Ctn Qty	List Price
73001	3" Pop-up Spray body (less nozzles)	100	$ **3.83**
74001	4" Pop-up Spray body (less nozzles)	50	3.79
76001	6" Pop-up Spray body (less nozzles)	50	**7.43**
71201	12" Pop-up Spray body (less nozzles)	25	**20.81**

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Sprays



PRO-S Spray

Pro-S Pop-Up Sprays

A rugged, contractor friendly spray line designed to be compatible with ALL standard female threaded nozzles.
Direct replacement for RainBird® 1800 Series sprays.

Features:

- Available in 2”, 3”, 4” 6” and 12” models which provide flexibility in design.
- **Accepts FEMALE threaded nozzles.**
- Co-Molded wiper seal ensures a leak free, full pop up operation under low pressure situations. Cartridge design allows for easy removal and cleaning. Treated with UV inhibitors for long life. Seal is microbe resistant to reduce degradation and stick ups.
- Ratcheting riser allows for easy pattern alignment by turning the riser.
- Heavy duty retraction spring for positive retraction in all soil conditions.
- Side and bottom inlet on 6” and 12” models.
- Pre-installed flush cap.
- 5 year Limited Warranty.

5 YEAR WARRANTY

Specifications:

- Inlet 1/2” NPT Female Thread
- Flo range: 0 @ 8 psi, 0.10 gpm
- Pressure Rating: 20-70 psi
- Precipitation Rate: 0.4-4 inches/hour
- Overall Body Height: 2” pop up - 4”
  3” pop up - 4 7/8”
  4” pop up - 6”
  6” pop up - 9 3/8”
  12” pop up - 16”





Co-molded wiper seal

Part Number	Description	Ctn Qty	List Price
78002	2” Pop up spray	50	$ 3.71
78003	3” Pop up spray	50	3.68
78004	4” Pop up spray	50	3.18
78004-PR	4” Pop up spray w/ pressure regulator	50	9.85
78006	6” Pop up spray	50	7.61
78006-PR	6” Pop up spray w/ pressure regulator	50	14.14
78012	12” Pop up spray	25	15.38
78012-PR	12” Pop up spray w/ pressure regulator	50	23.64
P53428	ProS Spray Check Disk	25	1.89

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American Granby™
www.americangranby.com
In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



RN Rotary Nozzle



Fixed Pattern Rotary Nozzle

Provides increased uniform coverage over conventional fized spray nozzles while delivering matched precipitation.

Features:

- Perfect for upgrading old irrigation systems by solving low pressure and coverage problems.
- Matched precipitation across various radii and patterns.
- Low precipitation rate reduces run off.
- Low flow rate means less material and fewer zones.
- 25% radius reduction for patented flow control, no tools required.
- Unique speed control maintains the speed of rotation over varying pressure ranges.
- Any pattern can be combined in the same zone with matched precipitation.
- Larger filter prolongs product life.
- 2 year Limited Warranty.

Specifications:

- Spacing: 13-17 ft
- Pressure Rating: 20-45 psi
- Precipitation Rate: 0.67 - 0.99 inches/hour depending on head spacing.

NEW

Part Number	Description	Color	Ctn Qty	List Price
RN100-ADJ	Rotary Nozzle - Adjustable 80-360° 10-17'		10	15.00
RN200-ADJ	Rotary Nozzle - Adjustable 80-360° 17-21'		10	15.00
RN300-ADJ	Rotary Nozzle - Adjustable 80-360° 21-26'		10	15.00

FIXED PATTERN ROTARY NOZZLES - PERFORMANCE SPECS

Part Number	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Flow GPH	Precip	Precip
RN200-90	90°	25	13	0.38		0.99	0.86
		30	14	0.41		0.93	0.81
		35	15	0.45		0.89	0.77
		40	16	0.48		0.84	0.72
		45	17	0.51		0.78	0.68
RN200-180	180°	25	13	0.74		0.97	0.84
		30	14	0.81		0.92	0.80
		35	15	0.90		0.89	0.77
		40	16	0.96		0.83	0.72
		45	17	1.00		0.77	0.67
RN200-360	270°	25	13	1.50		0.99	0.85
		30	14	1.70		0.96	0.83
		35	15	1.80		0.89	0.77
		40	16	2.00		0.87	0.75
		45	17	2.10		0.81	0.70

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KV Nozzles

KV Variable Arc Nozzles

KV adjustable nozzles have a MALE thread configuration to fit K-Spray bodies.

Features:

- Superior spray pattern ensures proper precipitation rates throughout the adjustment.
- Color coded by distance.
- Extra long filters provide longer time between cleaning.

Find performance data on following page.

Part Number	Description	Color	Ctn Qty	List Price
KV8	8' Variable arc nozzle male thread	Green	25	$ 1.74
KV10	10' Variable arc nozzle male thread	Blue	25	1.74
KV12	12' Variable arc nozzle male thread	Brown	25	1.74
KV15	15' Variable arc nozzle male thread	Black	25	1.74
KV17	17' Variable arc nozzle male thread	Gray	25	1.74



KVF Nozzles

KVF Variable Arc Nozzles

KVF adjustable nozzles have a FEMALE thread configuration to fit RPS and PRO-S spray bodies.

Features:

- Superior spray pattern ensures proper precipitation rates throughout the adjustment.
- Color coded by distance.
- Extra long filters provide longer time between cleaning.

Find performance data on following page.

Part Number	Description	Color	Ctn Qty	List Price
KVF8	8' Variable arc nozzle female thread	Green	25	$ 1.74
KVF10	10' Variable arc nozzle female thread	Blue	25	1.74
KVF12	12' Variable arc nozzle female thread	Brown	25	1.74
KVF15	15' Variable arc nozzle female thread	Black	25	1.74

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Nozzles

VARIABLE ARC NOZZLES - PERFORMANCE SPECS FOR KV NOZZLES



Arc	Pressure PSI	8' GREEN Radius Ft.	Flow GPM	10' BLUE Radius Ft.	Flow GPM	12' BROWN Radius Ft.	Flow GPM	15' BLACK Radius Ft.	Flow GPM	17' GRAY Radius Ft.	Flow GPM
90°	20	9	0.7	12	0.7	12	1.1	15	1.3	18	1.7
	30	9	1.1	12	1.1	13	1.3	17	1.6	18	1.8
	40	10	1.4	13	1.4	14	1.5	18	1.8	19	2.0
	50	11	1.5	14	1.5	15	1.7	19	2.0	20	2.2
180°	20	8	1.4	11	1.4	11	1.6	14	1.8	17	1.9
	30	8	1.6	11	1.6	12	1.8	15	2.3	18	2.4
	40	9	1.8	12	1.8	13	2.2	16	2.6	19	2.6
	50	10	2.0	13	2.0	14	2.4	18	2.8	19	2.6
270°	20	8	1.7	10	1.7	11	1.9	14	2.7	16	2.9
	30	8	2.0	10	2.0	12	2.4	15	3.2	17	3.4
	40	8	2.3	11	2.3	12	2.6	16	3.6	18	4.0
	50	9	2.6	12	2.6	13	3.0	16	4.0	18	4.0
360°	20	8	2.2	10	2.2	11	2.8	13	3.4	15	3.5
	30	8	2.7	10	2.7	12	3.1	15	4.2	17	4.4
	40	8	3.0	11	3.0	12	3.5	15	4.7	17	4.9
	50	8	3.5	12	3.5	13	3.9	16	5.3	18	5.4

VARIABLE ARC NOZZLES - PERFORMANCE SPECS FOR KVF NOZZLES



Arc	Pressure PSI	8' GREEN Radius Ft.	Flow GPM	10' BLUE Radius Ft.	Flow GPM	12' BROWN Radius Ft.	Flow GPM	15' BLACK Radius Ft.	Flow GPM	17' GRAY Radius Ft.	Flow GPM
90°	20	9	0.40	9	0.40	10	0.45	13	0.55	17	0.80
	25	9	0.42	9	0.42	11	0.52	14	0.63	18	0.94
	30	10	0.45	10	0.45	12	0.55	15	0.70	19	1.05
	40	10	0.50	10	0.50	12	0.60	16	0.80	19	1.30
180°	20	9	1.00	9	1.00	9	1.10	13	1.30	17	1.70
	25	9	1.10	9	1.10	10	1.21	14	1.49	17	1.92
	30	10	1.20	10	1.20	10	1.35	15	1.65	19	2.15
	40	10	1.25	10	1.25	11	1.53	16	2.00	19	2.50
270°	20	9	1.40	9	1.40	9	1.60	13	1.90	16	2.40
	25	10	1.59	10	1.59	10	1.74	15	2.15	16	2.82
	30	10	1.75	10	1.75	10	1.95	15	2.35	17	3.00
	40	10	2.05	10	2.05	11	2.05	16	2.70	18	3.50
360°	20	9	2.30	9	2.30	9	2.40	13	2.80	16	2.90
	25	10	2.51	10	2.51	10	2.61	14	3.26	17	3.40
	30	10	2.65	10	2.65	11	2.78	15	3.60	17	3.80
	40	11	2.75	11	2.75	12	3.03	15	4.10	17	4.40

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Fixed Nozzles

Fixed Pattern Female Nozzles

Matched precipitation female nozzles are compatible with ALL available male threaded bodies.

Features:

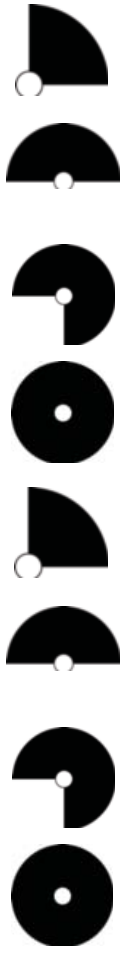
- Color coded for easy identification.
- Four distances plus eight fixed patterns provides an array of configurations.
- Matched precipitation allows for even water distribution.

Series Number	Description	Color	Ctn Qty	List Price
FN8 *	8' Fixed pattern female nozzle	Green	25	$ 1.74
FN10 *	10' Fixed pattern female nozzle	Blue	25	1.74
FN12 *	12' Fixed pattern female nozzle	Brown	25	1.74
FN15 *	15' Fixed pattern female nozzle	Black	25	1.74

*** Add nozzle pattern reference letter to complete part number.**

Fixed Pattern FEMALE THREADED Nozzles Performance & Pricing

8'



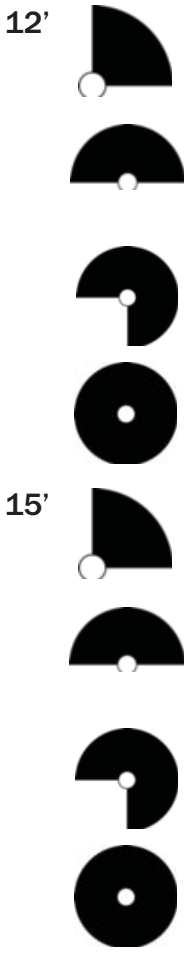
10'

Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	Part Number	List Price
Q	90°	15	5	0.18	25	FN8Q	$ 1.74
		20	6	0.21			
		25	7	0.24			
		30	8	0.26			
H	180°	15	5	0.37	25	FN8H	1.74
		20	6	0.41			
		25	7	0.47			
		30	8	0.52			
TQ	270°	15	5	0.55	25	FN8TQ	1.74
		20	6	0.63			
		25	7	0.71			
		30	8	0.78			
F	360°	15	5	0.74	25	FN8F	1.74
		20	6	0.86			
		25	7	0.95			
		30	8	1.05			
Q	90°	15	7	0.29	25	FN10Q	1.74
		20	8	0.33			
		25	9	0.36			
		30	10	0.39			
H	180°	15	7	0.58	25	FN10H	1.74
		20	8	0.65			
		25	9	0.72			
		30	10	0.79			
TQ	270°	15	7	0.87	25	FN10TQ	1.74
		20	8	0.98			
		25	9	1.08			
		30	10	1.18			
F	360°	15	7	1.16	25	FN10F	1.74
		20	8	1.30			
		25	9	1.44			
		30	10	1.58			

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Nozzles

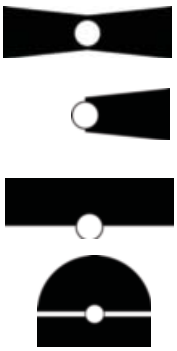
Fixed Pattern THREADED Nozzles Performance & Pricing



		MALE (P)			FEMALE (FN)					
Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	MALE/FEMALE Part No	List Price
Q	90°	20	11	0.5	15	9	0.45	25	P12Q	$ **1.74**
		25	12	0.7	20	10	0.53		FN12Q	1.74
		40	13	0.8	25	11	0.60			
		50	14	0.9	30	12	0.65			
H	180°	20	11	0.9	15	9	0.90	25	P12H	**1.74**
		25	12	1.1	20	10	1.05		FN12H	1.74
		40	13	1.4	25	11	1.20			
		50	14	1.5	30	12	1.30			
TQ	270°	20	12	1.2	15	9	1.35	25	P12TQ	**1.74**
		25	12	1.4	20	10	1.58		FN12TQ	1.74
		40	14	1.7	25	11	1.80			
		50	15	2.0	30	12	1.95			
F	360°	20	10	1.6	15	9	1.80	25	P12F	**1.74**
		25	12	1.8	20	10	2.10		FN12F	1.74
		40	13	2.1	25	11	2.40			
		50	14	2.4	30	12	2.60			
Q	90°	20	15	0.7	15	11	0.65	25	P15Q	**1.74**
		30	16	0.9	20	12	0.75		FN15Q	1.74
		40	17	1.1	25	14	0.82			
		50	18	1.2	30	15	0.92			
H	180°	20	14	1.4	15	11	1.30	25	P15H	**1.74**
		30	15	1.7	20	12	1.50		FN15H	1.74
		40	16	2.0	25	14	1.65			
		50	17	2.2	30	15	1.85			
TQ	270°	20	13	2.0	15	11	1.95	25	P15TQ	**1.74**
		30	15	2.5	20	12	2.25		FN15TQ	1.74
		40	16	2.9	25	14	2.48			
		50	16	3.2	30	15	2.78			
F	360°	20	13	2.9	15	11	2.60	25	P15F	**1.74**
		30	15	3.6	20	12	3.00		FN15F	1.74
		40	16	4.1	25	14	3.30			
		50	17	4.6	30	15	3.70			

Part Number	Description	Ctn Qty	List Price
PFRM	Filter for Fixed Nozzle	25	$ **0.72**

Special Pattern Nozzles Performance & Pricing



Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	MALE Part No	FEMALE Part No.	List Price
CS	CENTER	20	4' X 24'	0.8	25	P15CS		$ **1.74**
	STRIP	30	4' X 30'	1.0			FN15CS	1.74
ES	END	20	4' X 12'	0.4	25	P15ES		**1.74**
	STRIP	30	4' X 15'	0.5			FN15ES	1.74
SS	SIDE	20	4' X 28'	1.1	25	P15SS		**1.74**
	STRIP	30	4' X 32'	1.3			FN15SS	1.74
HL	HIGH	20	H 14' X L4'X28'	2.5	25	P15HL		**1.74**
	LOW	30	H 15' X L5'X32'	3.0			FN15HL	1.74

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American Granby™

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In the United States: **Phone (800) 776-2266** **Fax (800) 729-3299**

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K-Rain® Solenoid Valves



7001 Series



7001-NFC Series



7001-MXB Series
Designed for polyethylene piping systems, requires fewer fittings and can be installed quickly.



Flow Through | Self Cleaning Screen

Pro Series 100 Solenoid Valves

A contemporary tilt diaphragm makes this the perfect choice for residential, light commercial and dirty water applications.

Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- Combination 1" and 1 1/4" connections provide the option to increase the pipe size to the valve increasing the flow rate.
- Tilted diaphragm/piston assembly allows for a straight flow path of the water increasing the flow rate while reducing the friction loss.
- Debris tolerant design provides flexibility for use in potable or dirty water applications.
- Manual external bleed through bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Flow control with removable handle allows for precise flow adjustment, manual shut-off and allows you to remove the handle to prevent tampering.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- Self cleaning metering screen is in the turbulent flow of water allowing self cleaning action during operation.
- 5 year Limited Warranty.

Specifications:

- Dimensions: 4" H x 3" W x 5 1/4" L
- Flow range: 0.75-35 GPM
- Pressure Rating: 20-150 PSI
- Pressure Loss @ 30 gpm - 5 psi
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.43 Amps
- Holding Current: 0.25 Amps

Part Number	Description	Ctn Qty	List Price
7001	1" Female thread or 1 1/4" Male slip	12	$ 35.51
7001-SL	1" Female slip or 1 1/4" Male slip	12	**33.85**
7001-NFC	1" Female th or 1 1/4" Male sl NO FLOW CONTROL	12	33.19
7001-SL-NFC	1" Female sl or 1 1/4" Male sl NO FLOW CONTROL	12	33.19
7001-MXB	1" Male x Barb	12	34.14
7001-MXB-NFC	1" Male x Barb NO FLOW CONTROL	12	33.19

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Solenoid Valves



7101 and 7101-J Series

Pro Series 150 1" Solenoid Valves

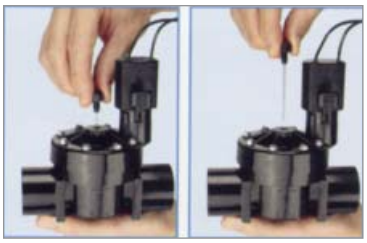
Offer the professional a wide array of features and benefits. Use for residential, light commercial, dirty water applications.

Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- External bleed screw with removable metering pin allows for cleaning of the pin without disassembling the valve.
- **Threaded jar top** allows for quick removal of the cap for easy servicing. The glass filled nylon screw cap increases durability.
- **7101-J Series is direct replacement for Irritrol 2400.**
- Manual external bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- 5 year Limited Warranty.



No tools needed with Jar Top



Manual External Bleed Screw

Specifications:

- Dimensions: 5 1/4" H x 3 1/8" W x 5"
  5 1/4" H x 3" W x 4 3/8" Jar Top
- Flow range: 0.25-30 GPM
- Pressure Rating: 10-150 PSI
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.4 Amps
- Holding Current: 0.2 Amps

Performance Data:

GPM	5	10	15	20	30
ProSeries 150 1" valve					
PSI LOSS	2.9	2.1	1.8	3.0	5.0
ProSeries 150 1" valve with jar top					
PSI LOSS	3.3	3.9	2.9	3.2	6.1

Part Number	Description	Ctn Qty	List Price
7101	1" Female thread NPT	12	$ 31.87
7101-SL	1" Female Slip	12	31.87
7101-J	1" Female Thread Jar Top, NPT	12	32.17
7101-J-SL	1" Female Slip Jar Top	12	31.87

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American Granby™

www.americangranby.com

In the United States: **Phone (800) 776-2266** **Fax (800) 729-3299**

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

K-Rain® Solenoid Valves



7102 and 7115 Series

Pro Series 150 1 1/2" and 2" Solenoid Valves

Feature a removable inlet cap to easily modify the configuration from globe to angle style.
Alternate to Irritrol 216b and 217b.

Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- External bleed screw with removable metering pin allows for cleaning of the pin without disassembling the valve.
- Manual external bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Removable inlet cap allows for easy conversion from globe to angle style valve.
- Flow control allows for precise flow adjustment and manual shutoff.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- Heavy duty santoprene diaphragm design improves durability.
- 5 year Limited Warranty.



System Flexibility

Specifications:

- Dimensions: 1 1/2" valve: 8" H x 4 1/4" W x 5 1/2" L
  2" valve: 8 7/8" H x 4 7/8" W x 6 1/3" L
- Flow range: 5-120 GPM
- Pressure Rating: 20-150 PSI
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.4 Amps
- Holding Current: 0.2 Amps

Performance Data:

GPM		20	30	40	50	60	80	100	120
ProSeries 150 1 1/2" valve									
PSI LOSS	globe	3.0	2.6	2.3	2.9	4.1	5.5		
	angle	2.7	2.2	1.9	2.2	3.0	4.4		
ProSeries 150 2" valve									
PSI LOSS	globe	2.0	1.9	1.7	1.5	1.6	2.9	4.8	6.2
	angle	1.9	1.9	1.7	1.5	1.5	2.1	3.2	4.6

Part Number	Description	Ctn Qty	List Price
7115	1 1/2" Female Thread, NPT	6	$ 99.63
7102	2" Female Thread, NPT	6	133.01

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Controllers



RPS46 Series

RPS46 Controller

Designed for residential applications the RPS46 has four individual programs to allow for efficient watering on separate programs.

Features:

- 4 and 6 station models for residential lawns.
- 4 fully independent programs allowing up to 4 starts per program, maximum of 16 starts per day.
- Indoor models with external transformer and plug.
- Seasonal adjustment allows adjustment of watering durations from 25% to 150%.
- Rain sensor ready - accepts rain sensor signal and is controlled by a bypass switch.
- Flexible manual operations to run a program, station or test.
- Battery back-up holds programs during power outages.
- 2 year Limited Warranty.

Specifications:

- Dimensions: 5.7” H x 4.5” W x 1.7” D
- Station run times: 1 min - 12 hours 59 min.
- Programs: 4
- Start Times: 4 per program
- Water Schedules:
  - 7 day calendar w/ individual day selection
  - Odd/Even day or interval watering.
- Rain sensor ready inhibits automatic watering when wet conditions are detected by a rain sensor.
- Master valve / pump start signal.
- Automatic, semi-automatic and single station manual operation.

Electrical Specifications:

- Electrical Power Supply: 110-120 VAC/ 60 Hz/ 230 VAC 50 Hz.
- Electrical Outputs: 24 Volt AC, 0.85 amp.
- To Solenoid Valves: 24 VAC 50/60 Hz 0.5 amp max.
- Total output load must not be exceeded by the valves and pump requirements.
- Overload protection: Standard 20mm 1 amp fuse.
- Power failure: 9 volt standard alkaline battery maintains clock and programs for up to 2 weeks.
- Wiring: The output circuits should be installed and protected in accordance with wiring rules.

Part Number	Description	Ctn Qty	List Price
3504	4 station, 110 volt external transformer	1	$ 121.73
3504-220	4 station, 220 volt external transformer	1	121.73
3506	6 station, 110 volt external transformer	1	124.97
3506-220	6 station, 220 volt external transformer	1	124.97

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K-Rain® Controllers



RPS469 Series

RPS469 Mid-Sized Controller

Designed for residential and light commercial applications the RPS469 has six individual programs to allow for efficient watering on separate programs.

Features:

- 4, 6 and 9 station models for residential and light commerical lawns.
- 6 fully independent programs allowing up to 6 starts per program, maximum of 36 starts per day.
- Indoor/Outdoor.
- Water conservation allows for quick adjustment of watering durations in 10% increments, from 10% to 200.
- Rain sensor ready - accepts rain sensors and allows individual stations to be set and controlled by the sensor.
- Flexible manual operations to run a program, station or test.
- System test allows for a full system check for valve operation.
- Battery back-up holds programs during power outages.
- Weatherproof enclosure ensures long product life.
- 2 year Limited Warranty.

Specifications:

- Dimensions: 8.8” H x 7.9” W x 2.9” D
- Station run times: 1 min - 12 hours 59 min.
- Programs: 6
- Start Times: 6 per program
- Water Schedules:
  7 day calendar w/ individual day selection or 1-15 day interval watering, or 365 day calendar for Odd/Even day watering.
- Rain sensor ready inhibits automatic watering when wet conditions are detected by a rain sensor.
- Master valve / pump can be enabled or disabled by station or program.
- Automatic, semi-automatic and single station manual operation.
- Capable of programming remotely using a standard 9 volt battery. Permanent memory saves all programs during power outages.

Electrical Specifications:

- Electrical Power Supply: 110-120 VAC/ 60 Hz/ 230 VAC 50 Hz.
- Electrical Outputs: 24 VOlt AC, 1 amp.
- To Solenoid Valve: 24 VAC 50/60 Hz 0.75 amp max.
- Total output load must not be exceeded by the valves and pump requirements.
- Overload protection: Standard 20mm 1 amp fuse.
- Power failure: 9 volt standard alkaline battery permanently maintains clock and programs. Has permanent memory so the data is always backed up during power outages.
- Wiring: The output circuits should be installed and protected in accordance with wiring rules.

Part Number	Description	Ctn Qty	List Price
3604	4 station, 110 volt internal transformer	1	$ 166.47
3604-220	4 station, 220 volt internal transformer	1	166.47
3606	6 station, 110 volt internal transformer	1	184.39

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Controllers



PRO LC Series

PRO LC Modular Controller

For residential and light commercial applications.

The Pro LC is available in fixed 4, 8, or 12 station outdoor models. Compact controllers offer an array of user-friendly features including easy to follow programming, full program screen display, large LCD display, rain/freeze sensor compatibility, seasonal adjust, buried valve locator and more.

Specifications:

- Dimensions: 7” H x 7” W x 3.5” D
- Station run times: 1 sec - 6 hours for all stations
- Programs: 3
- Automatic Start Times: 4 per program
- Program Water Schedule:
  - Custom (day of the week)
  - Odd or Even (calendar days)

Electrical Specifications:

- Power Input: 110 V AC +/- 10% 60 Hz
- Power Output: 24 V AC, 1.0 amp.
- Power Backup: Lithium coin-cell battery maintains time and date during primary power outages.
- Multi-Valve Operation: Up to 4 24V AC, 7VA solenoid valves.

Features:

- Patented Full Program Display with one screen shows watering days, start times, stations and special programing.
- Short Circuit protection identifies and isolates stations with short circuits while programs continue.
- Station delay/overlap programming permits additional time between stations or dual operation for maintenance issues.
- AM/PM or 24 hour clock settings.
- System Test allows a full system check for valve operation.
- Manual Start allows manual program operation.
- Permanent Memory saves programs during power outages.
- Location feature aids in locating buried valves.
- Sensor bypass switch for global override.
- Master valve/pump start relay permits individual station programming.
- Dedicated Sensor enables direct sensor installation for maximum watering control.
- Default programming saves and recalls programs.
- Permanent day off watering feature.
- Seasonal adjust of watering times from 10-200% conserves water.

Part Number	Description	Ctn Qty	List Price
3104	4 Station 110V AC internal transformer	1	$ 210.76
3108	8 Station 110V AC internal transformer	1	258.84
3112	12 Station 110V AC internal transformer	1	331.32

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www.americangranby.com

In the United States: **Phone (800) 776-2266** **Fax (800) 729-3299**

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



RPS1224 Series

RPS1224 Controller

Designed for residential and light commercial applications the RPS1224 covers all your needs regardless of the size or complexity of the project.

Features:

- 12, 18 and 24 station models for residential and light commerical applications.
- 8 fully independent programs allowing up to 8 starts per program, maximum of 64 starts per day.
- Indoor/Outdoor.
- Water conservation allows for quick adjustment of watering durations in 10% increments, from 10% to 200.
- Rain sensor ready - accepts rain sensors and allows individual stations to be set and controlled by the sensor.
- Flexible manual operations - automatic, semi-automatic and single station manual.
- System test allows for a full system check for valve operation.
- Permanent memory saves programs during power outages.
- Weatherproof enclosure ensures long product life.
- 2 year Limited Warranty.

Specifications:

- Dimensions: 9 3/8” H x 10 1/4” W x 4 1/8” D
- Station run times: 1 min - 12 hours 59 min.
- Programs: 8
- Start Times: 8 per program
- Water Schedule:
  7 day calendar w/ individual day selection or 1-15 day interval watering, or 365 day calendar for Odd/Even day watering.
- Rain sensor ready inhibits automatic watering when wet conditions are detected by a rain sensor.
- Two master valve / pump can be enabled or disabled by station or program.
- Automatic, semi-automatic and single station manual operation.
- Capable of programming remotely using a standard 9 volt battery. Permanent memory saves all programs during power outages.

Electrical Specifications:

- Electrical Power Supply: 110-120 VAC/ 60 Hz/ 230 VAC 50 Hz.
- Electrical Outputs: 24 Volt AC, 1.25 amp.
- To Solenoid Valve: 24 VAC 50/60 Hz 0.75 amp max.
- Total output load must not be exceeded by the valves and pump requirements.
- Overload protection: Standard 20mm 1 amp fuse.
- Power failure: 9 volt standard alkaline battery permanently maintains clock and programs. Has permanent memory so the data is always backed up during power outages.
- Wiring: The output circuits should be installed and protected in accordance with wiring rules.

Part Number	Description	Ctn Qty	List Price
3712	12 station, 110 volt internal transformer	1	$ 372.39
3718	18 station, 110 volt internal transformer	1	444.39

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Controllers



2000 Series

2000 Series Single Station Controller

Single station controllers stay safe with rain-tight enclosures.

Features:

- 24 hour programmable time dial with multiple start times and a wide variety of timing periods including skip-a-day 14 day program.
- UL approved components.
- Perfect for nursery or mist applications.
- 2200 models have 10 minute programmable dial with a wide variety of timing periods in multiples of 1.5, 3 and 6 seconds and multiple start times.
- 2500 models are prewired for easy connection of a rainswitch and allows manual overide of rainswitch from controller face.
- 2520 model allows operation of 24 volt rainswitch and 2 hp 220 volt pump with same controller.
- 2 year Limited Warranty.

Part Number	Voltage Input	Voltage Output	Rating	Ctn Qty	List Price
2100 Single Station Controllers					
2110	110 VAC, 60 Hz	110 VAC, 60 Hz	Single Pole, up to 1 HP	6	$ 183.26
2112	110 VAC, 60 Hz	110 VAC, 60 Hz	Double Pole, up to 2 HP	6	212.42
2114	110 VAC, 60 Hz	24 VAC, 30 VA	Built in Transformer	6	208.22
2120	220 VAC, 60 Hz	220 VAC, 60 Hz	Double Pole, up to 2 HP	6	212.42
2200 Short Duration Single Station Controllers					
2210	110 VAC, 60 Hz	110 VAC, 60 Hz	up to 1 HP	6	239.79
2214	110 VAC, 60 Hz	24 VAC, 30 VA	Built in transformer	6	244.99
2500 Rainswitch Ready Controllers					
2510	110 VAC, 60 Hz	110 VAC, 60 Hz	Double Pole, up to 2 HP	6	239.27
2514	110 VAC, 60 Hz	24 VAC, 30 VA	Built in transformer	6	319.65
2520	220 VAC, 60 Hz	220 VAC, 60 Hz	Double Pole, up to 2 HP	6	276.12

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K-Rain® Pump Start Relays



1500 Series

1500 Series Pump Start Relays

Features:

- Industrial, rain tight, secure, rustproof industrial grade enclosure ensures long product life and deters tampering. UV resistant and shockproof.
- UL approved components.
- Large easy access enclosure provides easy accessibility during wiring.
- Enclosure has 8 recessed knock-outs to provide easy connections from any direction.
- 24 or 110 VAC coils for applications up to 10 hp.
- 4 plastic inset cover screws provide extra system security reduces liability and deters tampering.
- 2 year Limited Warranty.

Specifications:

- Dimensions: 7" H x 5" W x 4 5/8" D
- 24 VAC, 60 Hz or 110 VAC, 60 Hz
- Double pole, single throw

	Model #1522	Model #1521	Model #1552	Model #1551
• Inrush:	35 VA	42 VA	60 VA	77 VA
• Sealed:	7.0 VA, 3 watts	8.5 VA, 3.6 watts	7 VA, 2.3 watts	10 VA, 4 watts
• Resistance (±10%):	11 ohms	210 ohms	5.61 ohms	89.5 ohms
• Inductive:	20 amp	20 amp	40 amp	40 amp
• Resistive:	30 amp	30 amp	50 amp	50 amp
• Input 120 V:	up to 3 hp	up to 3 hp	up to 3 hp	up to 3 hp
• Input 240 V:	up to 3 hp	up to 3 hp	up to 5 hp	up to 5 hp



Part Number	Description	Volts	Ctn Qty	List Price
1522	3 hp pump start relay	24 VAC	8	$ 136.46
1521	3 hp pump start relay	110 VAC	8	179.36
1552	5 hp pump start relay	24 VAC	8	195.38
1551	5 hp pump start relay	110 VAC	8	176.02

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K-Rain® Rain Sensor



3208



3208 Rain Sensor Features:

- Turns irrigation controllers into water managers by suspending watering during rain and/or freeze periods.
- Weather resistant. Made of UV resistant polymer for outdoor exposure.
- Maintenance free. No batteries to replace.
- 2 in 1 mounting provides flexible installation with standard flat and gutter mounting.
- HRFS includes a freeze sensor that prevents the system from starting when temperatures drop to 37° F or below.

Part Number	Description	List Price
3208-HRS	Hardwired Rain Sensor	$ 75.89
3208-HRFS	Hardwired Rain/Freeze Sensor	101.12

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K-Rain® Indexing Valves



4000 Series

4000 Series Indexing Valves

Features:

- Automates multiple zoned residential and small commerical irrigations systems.
- Ideally suited for both city water and pump applications.
- ABS Polymer body construction is high strength, non-corrosive for long product life.
- Available in 4 and 6 outlet models to easily change from two to six watering zones.
- Operates at low 10 gpm at pressures of 25-75 psi.
- Simplicity of design and few moving parts ensures easy maintenance and long life.
- 2 year Limited Warranty.

Specifications:

- ABS polymer construction
- Dimensions: 5 3/4" H x 5 3/4" W
- Flow Range: 10-40 gpm
- Pressure rating: 25-75 psi
- Pressure Loss

4 outlet valve	Flow gpm	10	20	30	40
	PSI loss	2.0	3.0	4.5	6.4
6 outlet valve	Flow gpm	10	20	30	
	PSI loss	2.5	4.5	7.5	

Part Number	Description	Zones	Ctn Qty	List Price
4400	4 outlet index valve	NO cam	8	$ 100.73
4402	4 outlet index valve	2 zones	8	113.03
4403	4 outlet index valve	3 zones	8	113.03
4404	4 outlet index valve	4 zones	8	113.03
P6107042	2 zone cam only		5	18.06
P6107043	3 zone cam only		5	18.06
P6107044	4 zone cam only		5	18.06
4600	6 outlet index valve	NO cam	8	100.73
4602	6 outlet index valve	2 zones	8	132.04
4603	6 outlet index valve	3 zones	8	132.04
4604	6 outlet index valve	4 zones	8	132.04
4605	6 outlet index valve	5 zones	8	132.04
4606	6 outlet index valve	6 zones	8	132.04
P6107063	3 zone cam only		5	18.06
P6107064	4 zone cam only		5	18.06
P6107065	5 zone cam only		5	18.06
P6107066	6 zone cam only		5	18.06
P6200400	Cam screws - set of 2 per bag		5	2.62

K-Rain products are not available for sale in NC, SC, TN, or MA.

K-Rain® Indexing Valves



KR6000 Series

KR6000 Series Indexing Valves

Features:

- Automates multiple zoned residential and small commerical irrigations systems with high pressure.
- Recommended for pump fed or high-flow city water systems.
- Metal die-cast body is durable, long lasting and capable of high pressure applications.
- Available in 4 and 6 outlet models to easily change from two to six watering zones.
- Operates at 15 gpm at pressures of 25-150 psi.
- Built-in atmospheric vacuum breaker releases any vacuum created between the pump and valve on shut down.
- 2 year Limited Warranty.



Specifications:

- Die-cast medal valve top/housing, ABS polymer outlets.
- Dimensions: 7” H x 8” W
- Inlet: 1 1/2” threaded NPT connection
- Outlet: Slip and glue connections to 1 1/2” PVC pipe
- Flow Range: 15-150 gpm
- Pressure rating: 25-150 psi
- Pressure Loss

4 outlet valve	Flow gpm	20	40	60	80	100
	PSI loss	2.5	3.5	5.0	7.5	10.0
6 outlet valve	Flow gpm	20	40	60	80	100
	PSI loss	3.0	4.0	6.0	9.0	11.0

Part Number	Description	Zones	Ctn Qty	List Price
KR6402	4 outlet index valve	2 zones	4	$ 261.30
KR6403	4 outlet index valve	3 zones	4	261.30
KR6404	4 outlet index valve	4 zones	4	261.30
KR6605	6 outlet index valve	5 zones	4	261.30
KR6606	6 outlet index valve	6 zones	4	261.30

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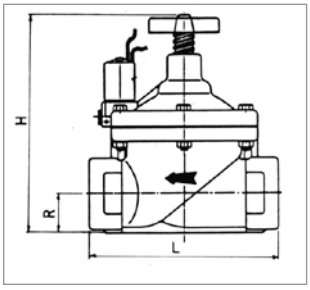
TFV Series

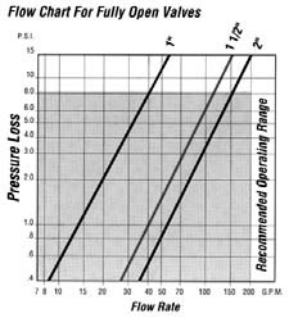
TFV Irrigation Solenoid Valve Features:

- Rugged glass-reinforced nylon construction.
- For residential, commercial and agricultural irrigation systems only.
- High strength, long life natural rubber diaphragm.
- In line globe design.
- Normally closed valve provides slow and smooth opening and closing.
- Quarter turn downstream bleed lever allows manual operation without external water spills.
- High flow rate with low head loss.
- Flow control available for exact water flow adjustment.
- Accurate operation over a wide range of pressure flows.
- In line maintenance - No need to remove valve from line for service.
- Standard and flow control models available.
- Available with standard 24 volt or optional 110 volt solenoid.

TFV Series irrigation solenoid valves are designed and intended for use in turf irrigation applications only. While these valves may operate in applications other than they are intended, the AGI warranty will not apply for those uses.

**** NO RETURNS on special order N/O valves.**





Specifications:

Voltage . . . . . .24 Volts AC 3 Watts
Current . . . . . .Inrush .48 AMPS;
. . . . . .Holding .24 AMPS
Max. Working Temp 180ºF
Max. Operating Pressure . . . . . .150 PSI
Min. Operating Pressure . . . . . .10 PSI
Recommended minimum
pressure differential . . . . . .7 PSI
Valve Body . . . . . .Glass reinforced Nylon
Inner Plastic Parts . . . . . .Acetal
Diaphragm . . . . . .Natural rubber
Seals . . . . . .Buna-N
Metal Parts and Screws . . . . . .Stainless Steel 303

Part Number	Size (FPT)	Volts	Flow Control	Weight	Dimensions L	H	R	Width	Ctn Qty	List Price
TFV100T	1"	24	No	12.5 oz	4 5/16	2 1/2	7/8	3 1/16	20	$ **99.52**
TFV100T110V	1"	110	No	12.5 oz	4 5/16	2 1/2	7/8	3 1/16	20	**112.92**
TFV100TF	1"	24	Yes	12.5 oz.	4 5/16	4 1/2	7/8	3 1/16	20	**110.51**
TFV100TF110V	1"	110	Yes	12.5 oz.	4 5/16	4 1/2	7/8	3 1/16	20	**123.93**
TFV150TF	1 1/2"	24	Yes	2.2 lbs.	6 5/16	7 3/16	15/16	5	5	**234.30**
TFV150TF110V	1 1/2"	110	Yes	2.2 lbs.	6 5/16	7 3/16	15/16	5	5	**247.44**
TFV200TF	2"	24	Yes	2.2 lbs,	6 3/4	7 3/8	1 1/2	5	5	**315.62**
TFV200TF110V	2"	110	Yes	2.2 lbs,	6 3/4	7 3/8	1 1/2	5	5	**329.14**

Replacement Solenoid Assemblies

H701-24	24 volt	37.85
H701-110	110 volt	51.99

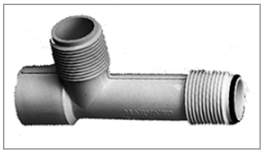
Irrigation Installation Accessories



94-11



1376-010



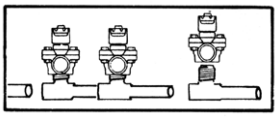
HMT70-1G



91-11

Irrigation Valve Manifold Tee Features:

- Uniformly spaced installation of manifolds for 1” irrigation valves.
- Designed to be mounted horizontally for electric globe valves or installed with the threaded outlet upright to accommodate angle valves.
- Schedule 40 PVC.



94-11, 1376 Series Manifold Tees:

- Aligns valves with integral notch and key design on 1376-010.
- Preset spacing of valves.
- Sch 40 wall thickness.
- Full flow 1” main line with 1” mpt (94-11) or 1” fpt (1376-010).
- Presure rated at 315 psi, tested to over 1000 psi.

HMT70-1G Manifold Tee:

- 1” IPS threads compatible with all 1” valves.
- Hand tight assembly in series for a uniformly spaced sprinkler manifold.
- Riser always positions correctly, self aligning when tightened until threads no longer show.
- Schedule 40 PVC with Buna N o-ring seal.

91 Series PVC Cross Tee Manifold:

- Uniformly spaced side by side installation.
- 1” mpt connections.
- Schedule 40 PVC.

Part Number	Description	Ctn Qty	List Price
94-11	1” soc x 1” slip x 1” mpt	50	$ 3.91
1376-010	1” soc x 1” slip x 1” fpt	6	8.21
HMT70-1G	1” fpt x 1” mpt x 1” mpt	12	5.25
91-11	1" soc x 1" mpt x 1" slip x 1" mpt	8	9.47



HMRA1/2x3/4

HMRA Adapter Features:

- 1/2” x 3/4” mipt Reducing Adapter

Part Number	Description	Ctn Qty	List Price
HMRA 1/2 x 3/4	1/2” x 3/4” MIPT Reducing Adapter	50	$ 1.70

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

P73 Cut-off Nipples Features:

- Patented design 4 in 1 nipple allows choice of length, excess becomes additional useable nipples.
- 100 PSI (max) and 201°F max temperature.
- Green

Poly Cut-off Nipple, Riser Extension and Poly Nipple Features:

- Black poly

SW500 Nipple Extractor Features:

- For 1/2" or 3/4" plastic nipples.
- Easy to remove broken plastic riser from sprinkler pipe and fittings.
- Insert tip and turn.



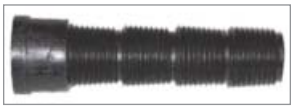
P-73 Series



PCO Series



RE Series



RECO Series



PN Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



SW500C

Part Number	Description	Ctn Qty	List Price
Cut-off Nipples			
P73-1/2	1/2" MIPT x 1/2" MIPT x 6"	50	$ 1.14
P73-3/4	3/4" mipt x 3/4" mipt x 6"	25	2.73
P73-3/4x1/2	Reducing, 3/4" mipt x 1/2" mipt, 6"	40	2.15
Poly Cut-off Nipples			
PC01/2X4	1/2" x 4" MPT x MPT	500	0.47
PC01/2X6	1/2" x 6" mpt x mpt	500	0.56
PC01/2X3/4X4	1/2" x 3/4" x 4" mpt x mpt	500	0.72
PC01/2X3/4X6	1/2" x 3/4" x 6" mpt x mpt	400	0.86
PC03/4X4	3/4" x 4" mpt x mpt	400	0.67
PC03/4X6	3/4" x 6" mpt x mpt	400	1.05
Riser Extensions			
RE1/2X1	1/2" x 1" fpt x mpt	1000	0.32
RE1/2X11/2	1/2" x 1 1/2" fpt x mpt	1000	0.34
REC01/2X4	1/2" x 4" fpt x mpt	500	0.70
REC03/4XSHORT	3/4" x Short fpt x mpt	500	0.82
REC03/4X4	3/4" x 4" fpt x mpt	400	0.93
Poly Nipples			
PN1/2XCLOSE	1/2" x close	1000	0.24
PN1/2X3/4XCLOSE	1/2" x 3/4" x close	1000	0.34
PN3/4XCLOSE	3/4" x close	1000	0.37
PN1/2X2	1/2" x 2"	1000	0.25
PN1/2X3	1/2" x 3"	500	0.32
PN1/2X4	1/2" x 4"	500	0.36
PN1/2X5	1/2" x 5"	500	0.47
PN1/2X6	1/2" x 6"	500	0.56
PN1/2X8	1/2" x 8"	50	1.58
PN1/2X10	1/2" x 10"	50	1.82
PN1/2X12	1/2" x 12"	50	2.05
PN1/2X18	1/2" x 18"	50	2.86
PN1/2X24	1/2" x 24"	50	3.72
Nipple Extractors			
SW500C	Stub Wrench	50	7.32



500

ISO 9001

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Mini Trol® Water Hammer Arrestor Features:

AMTROL INC.

- Mini Trol takes the bang out of water lines.
- Effectively intercepts surges in water lines.
- Prevents damage and shock waves by quick closing valves.
- Designed with pre-pressurized, permanent air chamber separated from water by a sealed-in heavy duty diaphragm.
- Chamber is polypropylene lined. Water never touches steel.
- Guaranteed not to waterlog or lose air.
- Manufactured for AGI in a ISO9001 facility.

Max. Supply Pressure:	90 psi
Max. Working Pressure:	150 psi
Max. Water Temperature:	200°F

Part Number	Description	Ctn Qty	List Price
500	Mini-Trol 4 1/2" H x 3 3/8" W x 1/2" MPT	24	$ 79.93

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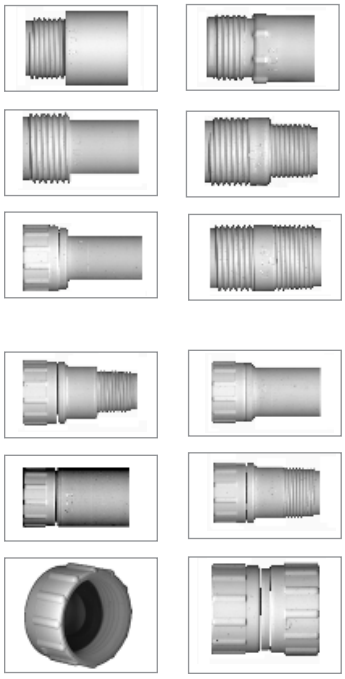
www.americangranby.com

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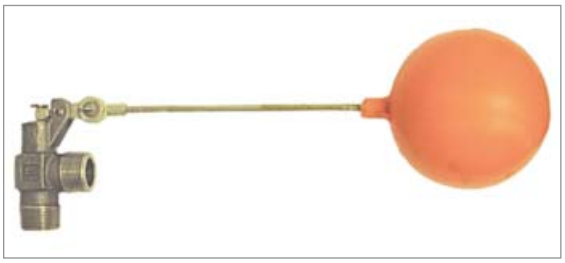
Garden Hose Thread Fittings

- Material: PVC Type I White, or brass



Part Number	Size	Connections	Ctn Qty	List Price
Garden Hose Thread Fittings - MALE				
MHT-101	3/4" x 1/2"	MHT x Slip	25/200	$ 1.18
MHT-102	3/4" x 1/2"	MHT x FIPT	25/200	1.18
MHT-103	3/4"	MHT x Slip	25/200	1.18
MHT-104	3/4" x 1/2"	MHT x MIPT	25/200	1.18
MHT-105	3/4" x 1/2"	MHT x Spigot	25/200	1.18
MHT-106	3/4"	MHT x MIPT	25/200	1.18
Garden Hose Thread Fittings - FEMALE				
FHT-201	3/4" x 1/2"	FHT x Spigot	25/200	1.80
FHT-202	3/4" x 1/2"	FHT x Slip	25/200	1.80
FHT-203	3/4" x 1/2"	FHT x MIPT	25/200	1.80
FHT-204	3/4"	FHT x MIPT	25/200	1.80
FHT-205	3/4"	FHT x Slip	25/200	1.80
FHT-206	3/4"	FHT x FIPT Swivel	25/200	1.80
BFHT-206	3/4"	FHT x FIPT Swivel BRASS	5/60	29.81
FHT-207	3/4"	FHT x FHT swivel	20/500	1.80
FHT-301	3/4"	FHT CAP	25/200	0.74

Irrigation Installation Accessories



NO LEAD Bronze Float Valve Features:

- NO LEAD bronze body
- Buna-N Disc
- Heavy Duty
- Tapped for 1/4-20SAE rod
- Threaded outlet
- Rated at 125 psi
- **Third party certified to NSF/ANSI 372.**



BFV Series

Part Number	Size	Inlet	Outlet	Tapped	Ctn Qty	List Price
BFVNL1/2	1/2”	1/2” mpt	1/2” mpt	1/4”-20SAE	10/100	$ 42.69
BFVNL3/4	3/4”	3/4” mpt	3/4” mpt	1/4”-20SAE	10/80	45.92
BFVNL1	1”	1” mpt	1” mpt	1/4”-20SAE	10/40	72.29



BFVR Series

Stainless Steel Rods Features:

- Stainless Steel SAE
- Male thread both ends
- **Third party certified to NSF/ANSI 372.**

Part Number	Length	Thread	Fits Valve Size	Ctn Qty	List Price
BFVR8	8”	1/4”-20SAE	1/2” - 1”	50/400	$ 6.62
BFVR10	10”	1/4”-20SAE	1/2” - 1”	50/300	7.67
BFVR12	12”	1/4”-20SAE	1/2” - 1”	50/300	8.59



BFVFP Series

Plastic Float Features:

- PVC, Corrosion resistant.
- Lightweight
- Up to 175°F
- For open tank service only
- Bronze or NO LEAD bronze threaded connection.
- **Third party certified to NSF/ANSI 372.**

Part Number	Float Diam.	Buoyancy	Female Connection	Ctn Qty	List Price
BFVFPNL5	5”	2.17 lbs.	1/4”-20SAE	100	$ 21.23
BFVFPNL6	6”	3.8 lbs.	1/4”-20SAE	100	25.00
BFVFPNL8	8”	9.87 lbs.	1/4”-20SAE	20	31.08

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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Saddle Tees - Bronze, Plastic for Poly Pipe



DST Saddle Tee

HARVARD CONTRACTOR'S Plastic Saddle Tees for Polyethylene Pipe:

- Heavy duty PVC saddle tee bodies with glass-reinforced nylon T-bolts and nuts.
- Molded barb seal for superior sealing to poly pipe. Barb seals deeper and tighter as the poly pipe pressurizes. No o-rings or gaskets needed.
- Withstands over 400 psi without leaking.
- 2 1/2" length protects seal area if pipe is kinked or damaged near saddle tee.
- **NO FLOW RESTRICTION**
- **NOT for use on RIGID PVC Pipe.**

Part Number	Pipe Size	Color	Outlet FPT	Bag/Ctn Qty	List Price
HARVARD CONTRACTOR'S Plastic Saddle Tees					
DST3/4x1/2	3/4"	Gray	1/2"	10/250	$ 2.84
DST3/4x3/4	3/4"	Gray	3/4"	10/250	2.96
DST1x1/2	1"	White	1/2"	10/250	3.01
DST1x3/4	1"	White	3/4"	10/250	3.21
DST11/4x1/2	1-1/4"	White	1/2"	10/250	4.55
DST11/4x3/4	1-1/4"	White	3/4"	10/200	4.77



ND Series



HC Series

HARVARD CONTRACTOR'S Plastic Saddle Tee Installation Tool Features:

ND Series Nut Driver:

- Glass-reinforced nylon for durability and strength.

HC Series Coring Tool:

- Spring-loaded self-retracting blade.
- Cuts a clean, burr-free, sawdust-free hole in seconds.

Part Number	Description	Ctn Qty	List Price
Coring Tools/Nut Driver (for DST Series)			
ND375	9/16" Nut Driver	1	$ 4.63
HC45	Coring Tool for DST Saddle Tees w/1/2" fipt outlet	1	21.18
HC55	Coring Tool for DST Saddle Tees w/3/4" fipt outlet	1	21.18



HBST Saddle Tee

HARVARD BRONZE Saddle Tees for Polyethylene Pipe:

- Bronze (81% copper) body to prevent material breakdown when buried.
- Stainless steel slotted screws.
- Leakproof, rubber gasket seal.
- **NOT for use on RIGID PVC pipe.**

Part Number	Pipe Size	Color	Outlet FPT	Bag/Ctn Qty	List Price
HARVARD Bronze Saddle Tees					
HBST 3/4x3/4	3/4"		3/4 "	200	9.35
HBST 1x1/2	1"		1/2"	200	9.91
HBST 1x3/4	1"		3/4"	200	10.21
HBST 11/4x1/2	1-1/4"		1/2"	120	14.96
HBST 11/4x3/4	1-1/4"		3/4"	100	15.64
HBST 11/2x1/2	1-1/2"		1/2"	100	19.03
HBST 11/2x1	1-1/2"		1"	72	22.14
HBST 2x1/2	2"		1/2"	80	24.44

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Saddle Tees - PVC for Rigid Plastic Pipe



Clamp-It™ PVC Saddle Tee

Clamp-It™ PVC Saddle Tees for Rigid Pipe Features:

- Use for turf and irrigation systems, golf courses, athletic fields.
- Use for water service lines, mines, landfills.
- Provides full and equal support around the entire circumference of the pipe.
- Easy to install hinge and clamping wedge eliminates need for metal screws.
- Made of high impact type II PVC.
- EPDM O-ring seal.
- Rated at 200 PSI at 72°F.
- For use on cold water lines only, 2" - 8" PVC.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

Saddle Drill Sizes:

Outlet size over 2 1/2" pipe	Drill Size
3/4" IPS Slip & Fipt	3/4"
1" IPS Slip & Fipt	1"
1 1/4" IPS Slip & Fipt	1 1/4"
1 1/2" IPS Slip & Fipt	1 3/8"

* For 2 1/2" IPS saddle with a 2" outlet - Drill size must be 1 3/4" due to pipe restriction.



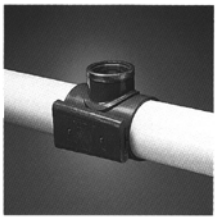
1. Place saddle on desired location and mark. Drill hole according to Drill Chart and deburr.



2. Place saddle over hole and attach easy clamping hinge around pipe.



3. Apply wedge half way by hand and finish off with a slight tap of a rubber mallett. Ideal for new installations or additions.



4. Saddle should be pressure tested prior to burial to assure system integrity. Long lasting EPDM o-ring seal assures a leak free installation. Note: wedge does not need to be flush with saddle body to seal.

Part Number	IPS Pipe Size	Tap Size	Ctn Qty	List Price
Clamp-It™ PVC Saddle Tees				
421507	1 1/2	3/4 fipt	5	$ 52.17
421510	1 1/2	1 fpt	5	52.17
422007	2	3/4 fipt	5	60.43
422010	2	1 fipt	5	62.40
422012	2	1-1/4 fipt	5	62.40
422015	2	1-1/2 fipt	5	62.40
432010	2	1 slip	5	55.84
432012	2	1-1/4 slip	5	55.84
432015	2	1-1/2 slip	5	55.84
422507	2-1/2	3/4 fipt	5	71.39
422515	2-1/2	1-1/2 fipt	5	71.39
422520	2-1/2	2 fipt	5	71.39
432510	2-1/2	1 slip	5	75.70
432515	2-1/2	1-1/2 slip	5	75.70
432520	2-1/2	2 slip	5	75.70

See next page for 3" - 8" CLAMP IT Saddle Tees.

Saddle Tees - PVC for Rigid Plastic Pipe

Part Number	IPS Pipe Size	Tap Size	Ctn Qty	List Price
453007	3	3/4 slip	5	$ 75.70
453010	3	1 slip	5	75.70
453012	3	1-1/4 slip	5	75.70
453015	3	1-1/2 slip	5	75.70
453020	3	2 slip	5	75.70
443007	3	3/4 fipt	5	85.31
443010	3	1 fipt	5	85.31
443012	3	1-1/4 fipt	5	85.31
443015	3	1-1/2 fipt	5	85.31
443020	3	2 fipt	5	85.31
454007	4	3/4 slip	5	97.00
454010	4	1 slip	5	97.00
454015	4	1-1/2 slip	5	97.00
454020	4	2 slip	5	97.00
444007	4	3/4 fipt	5	104.06
444010	4	1 fipt	5	107.44
444012	4	1-1/4 fipt	5	107.44
444015	4	1-1/2 fipt	5	107.44
444020	4	2 fipt	5	107.44
456007	6	3/4 slip	5	156.58
456010	6	1 slip	5	156.58
456015	6	1-1/2 slip	5	156.58
456020	6	2 slip	5	156.12
446007	6	3/4 fipt	5	156.58
446010	6	1 fipt	5	156.58
446012	6	1-1/4 fipt	5	156.58
446015	6	1-1/2 fipt	5	156.58
446020	6	2 fipt	5	151.12
458010	8	1slip	5	190.03
458015	8	1-1/2 slip	5	190.03
458020	8	2 slip	5	184.11
448007	8	3/4 fipt	5	190.03
448010	8	1 fipt	5	190.03
448020	8	2 fipt	5	184.11



Clamp-It™ PVC
Saddle Tee

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

NSF
Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

Part Number	Description	Ctn Qty	List Price
WEDGE 225	Wedge, Fits 2” and 2-1/2” Saddles	1	$ 14.02
WEDGE 380	Wedge, Fits 3” and 4” Saddles	1	14.76
WEDGE 480	Wedge, Fits 6” and 8” Saddles	1	15.30

Replacement O-rings available for all size PVC Saddle Tees.
Contact your customer service representative for sizing and pricing.

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204









Swing Riser Fittings for Funny Pipe

- For use with Funny Pipe and other thick walled 1/2" ID tubing.
- Use in drip irrigation, home sprinkler systems & other residential irr. applications.
- Spiral barb design allows quicker twist-on installation.
- Made of Celcon® plastic resin providing long term durability.

Part Number	Size	Connections	Ctn Qty	List Price
90° Elbow				
SRE1/2	1/2" x 1/2"	MIPT x funny pipe barb (FPB)	100/1500	$ 0.38
SRE3/4	3/4" x 1/2"	MIPT x FPB	50/1000	0.38
Male Adapter				
SRMA1/2	1/2" x 1/2"	MIPT x FPB	100/500	0.38
SRMA3/4	3/4" x 1/2"	MIPT x FPB	50/500	0.38
Coupling				
SRC1/2	1/2" x 1/2"	FPB x FPB	50/500	0.38
Tee				
SRT1/2	1/2" x 1/2"	FPB x FPB x FPB	50/250	1.00

Lasco Swing Riser Fittings for Funny Pipe with Double Helix design

Part Number	Size	Connections	Ctn Qty	List Price
90° Elbow				
3300-005	1/2" x 1/2"	MIPT x funny pipe barb	500	$ **0.79**
3300-007	3/4" x 1/2"	MIPT x funny pipe barb	500	**0.79**
Male Adapter				
3400-005	1/2" x 1/2"	MIPT x funny pipe barb	100	**0.84**
3400-007	3/4" x 1/2"	MIPT x funny pipe barb	100	**0.84**



TRANSITION FITTINGS MARLEX™ STREET ELBOWS

- Ideal for use in swing joints.
- More than 27% heavier than other elbows, providing added strength & durability.

Part Number	Size	Connection	Ctn Qty	List Price
MSE1/2	1/2" x 1/2"	mipt x fipt	50/500	$ 0.40
MSE3/4	3/4" x 3/4"	mipt x fipt	25/350	0.67
MSE1	1" x 1"	mipt x fipt	25/100	1.04





LASCO Double Helix
SW Series

Transition Fittings for Irrigation Applications

- Save money on material and labor cost.
- Faster, easier installation.
- Retaining spikes to prevent movement on Dawn fittings.
- Double helix design on LASCO fittings.

LASCO Double Helix / KWIKADAPT SW Series Fitting Features:

- One piece design to go from Poly to swing/funny pipe.
- Use instead of a combo insert tee and a swing elbow.
- Available in 3/4" and 1".
- LASCO double helix fitting pipe connection.

Part Number	Description	Ctn Qty	List Price
LASCO - Poly to Swing/Funny Pipe Double Helix Design			
1429-099	3/4" Insert x Swing /Funny Pipe Coupling	10	$ **2.00**
1429-129	1" Insert x Swing /Funny Pipe Coupling	10	**2.09**
1401-099	3/4" Insert x Swing/Funny Pipe Tee	10	**2.29**
1401-129	1' Insert x Swing/Funny Pipe Tee	10	**2.35**

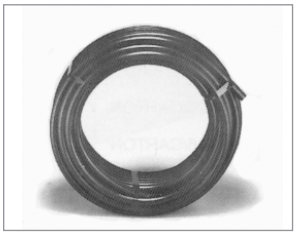
Swing Joint Assemblies, Poly Swing Pipe



SWING JOINT ASSEMBLIES

- Fully assembled swing assemblies with funny pipe.
- Includes marlex elbow.
- Available in additional lengths or without marlex elbow by special order.

Part Number	Size x Length	Connection	Ctn Qty	List Price
SA125050	1/2" x 1/2" x 12"	mipt x mipt (marlex ell)	50	$ 2.93
SA125075	1/2" x 3/4" x 12"	mipt x mipt (marlex ell)	50	3.40
SA127575	3/4" x 3/4" x 12"	mipt x mipt (marlex ell)	50	3.47



POLY SWING PIPE

NOW EVEN MORE FLEXIBLE

- Highly flexible.
- Use with swing riser fittings for a flexible swing joint assembly.
- LLDPE for increased flexibility.
- Up to 100 psi working pressure at 72°F.
- Shrink wrapped coils.

Part Number	Size	Ctn Qty	List Price
PSP50-100	1/2" x 100' roll	1	$ **70.74**

American Granby™

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

3M® DBO/B-6 and DBR/Y-6 Direct Burial Splice Connector Features:

ISO 9002

UL Listed for Direct Burial, Rated for 600V.
Replaces existing 3M DBY, DBR, DBY6, DBR6, DBR/Y.



HDBR/Y-6 Splice Tube and Connector

- Electrically connects two or more pre-stripped copper wires
- Provides moisture seal of the connections for the direct burial.
- Ideal for splicing wires and cables in irrigation and low voltage lighting systems.
- For residential, commercial, golf andother green industry applications.
- Smaller profile DBO/B-6 Series connectors are used when a larger size range of wires is not needed.
- May be installed above or below ground, inside a valve box or buried next to a valve-in-head sprinkler or light fixture.
- Not recommended for submersible applications.
- Each kit includes a 3M Performance Plus quick biting wire connector O/B+ or R/Y+ and a high impact, UV resistant polypropylene tube prefilled with moisture-resistant grease.
- The gel filled tube includes a lid that compresses the wire insulation when closed. This applies pressure, known as “strain relief” that keeps the connection inside the tube when the wires are pulled-upon. The conenctor tube includes channels for three sets of wires.
- 3M Electrical products are manufactured for AGI in an ISO 9002 facility.

c UL us LISTED 98U1 CE RoHS

Common AWG Wire Combinations - CV only

DBO		DBR	
2-3 #16 sol/str	1 #18 to 1-2 #14 sol/str	2 - 7 #18	1-3 #12 w/ 1 #18
2-3 #14 sol/str	1 #18 to 1-2 #12 sol/str	2 - 6 #16	1-2 #10 w/ 1 #18
2 #12 sol/str	1 #16 to 1-2 #14 sol/str	2 - 4 #14	1-3 #12 w/ 1 #16
1 #14 to 1 #12 sol/str	1 #16 to 1-2 #12 sol/str	2 - 4 #12	1-2 #10 w/ 1 #12
		2 - 3 #10	1-2 #14 w/ 1 #18

See complete chart of combinations on reverse.

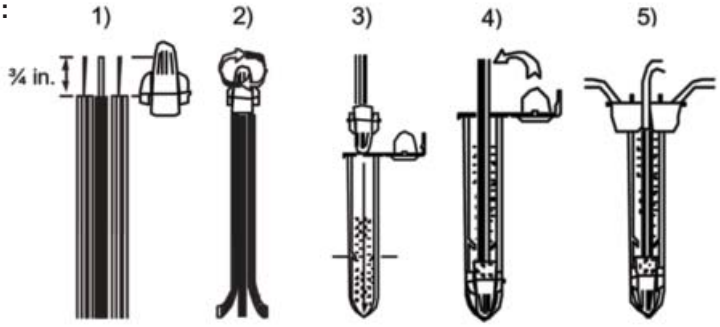
Specifications:

Maximum voltage rating:
600 volts.
UL Listed, File No. E102356
UL Listed 98U1
UL Standard 486D
Application temperature:
32°F to 120°F
Operating temperature:
-40°F to 221°F.

Construction:

Tube: Impact and UV Resistant Polypropylene
Grease: 711B (DBO) Mineral Oil Based, EG3 (DBR)
O/B+ or R/Y+ Connector: Steel Spring, Flame Retardant Insulator

Installation:



Part Number	Description	Ctn Qty	Pallet Qty	List Price
CHDBO/B-6	3M® Direct Bury Splice Kit, Bulk	100		$ 3.19
CHDBR/Y-6	3M® Direct Bury Splice Kit, Bulk	100	7500	**3.68**
HDBR/Y2-6	3M® Direct Bury Splice Kit, 2 per package	25	-	**8.74**

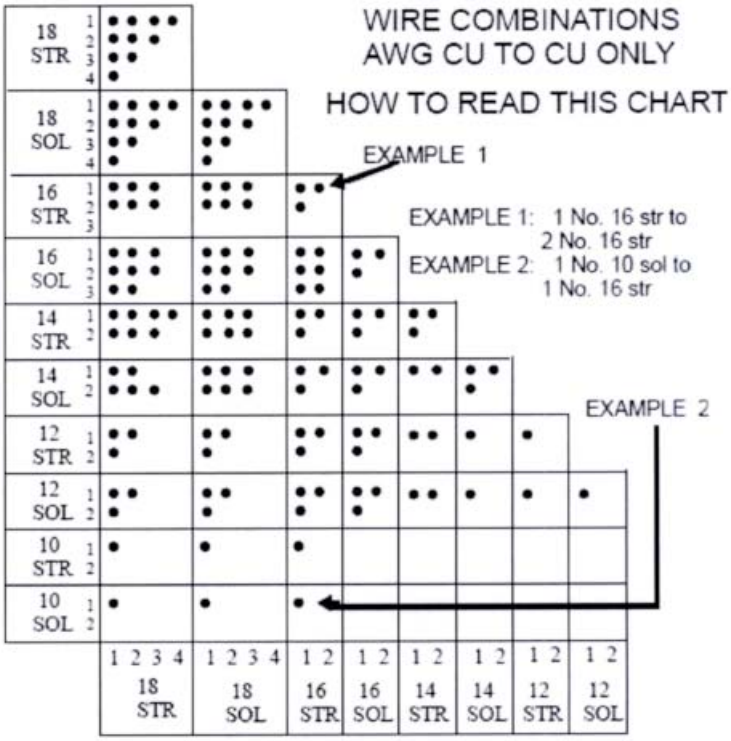
Direct Bury Splice Connectors

Combination Chart

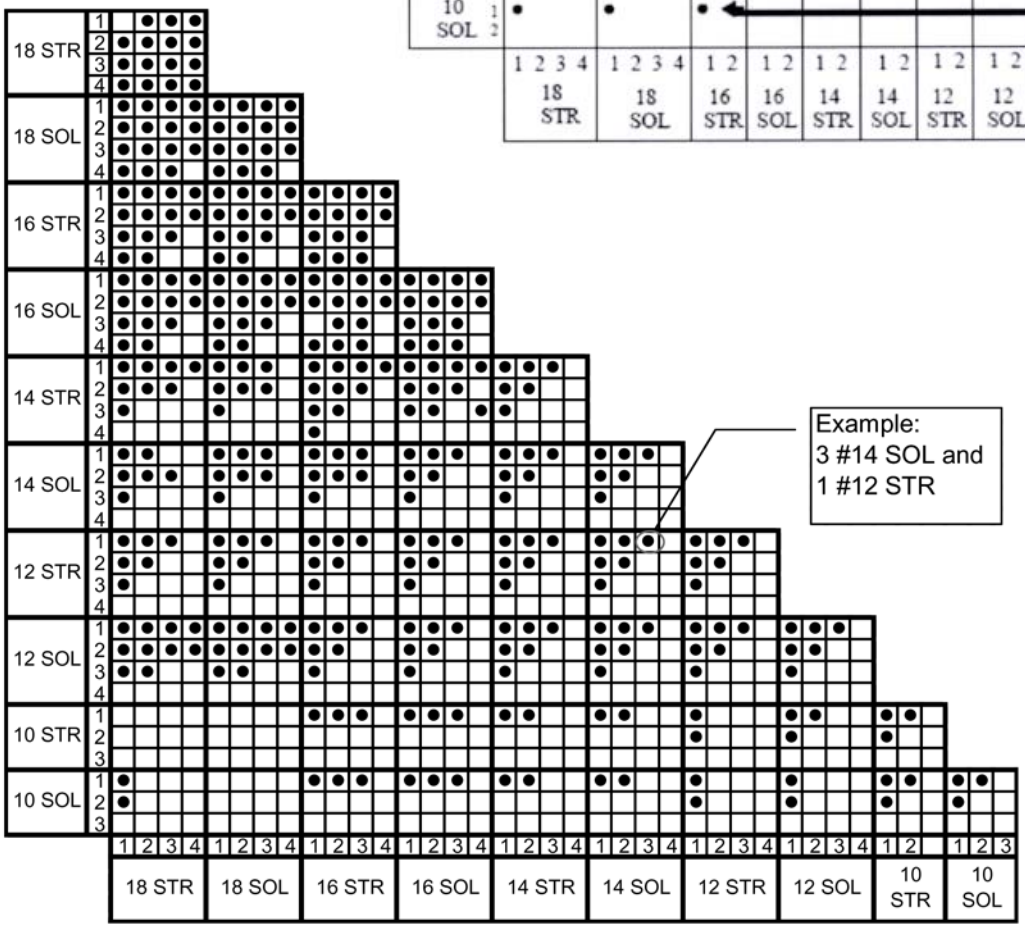
- The connectors accept a multitude of direct burial copper wire combinations, as listed in the tables below.



DBO



DBR

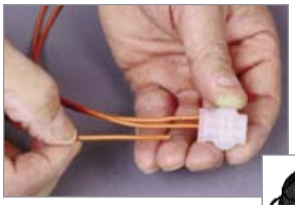


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SSP314



3M® SSP Series Insulation Displacement Connector Features:

- Used to electrically connect two or three wire ends & insulate the connection.
- #22-#14 AWG range on SSP314. SSP314 is UL and CSA listed.
- #22-#16 AWG range on SSP316.
- Also used for pigtail 2- and 3-wire splicing.
- Connector provides a moisture-resistant seal and is flame retardant.

Part Number	Description	Ctn Qty	List Price
SSP314	3M® Insulation Displacement Connectors #22-#14 AWG	1000	$ **2.16**
SSP316	3M® Insulation Displacement Connectors #22-#16 AWG	300	**2.04**



VL1

CLICK-IT™ Valve Locator Features:

- Water resistant.
- Compact design.
- For location of solenoid valve quickly and easily.
- Practical and cost effective.

Part Number	Description	Ctn Qty	List Price
VL1	Click-It Valve Locator	10	$ 162.01

Electrical Installation Accessories



PTC163-6 Series



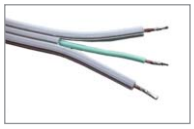
PTC143-6RA220

HARVARD CONTRACTOR'S
Power Cord Features:

- Three prong right angle (115V, 220V) molded plugs.
- 16 gauge, 3 conductor, 13 amp, 125 Volt rating.
- 14 gauge, 3 conductor, 15 amp, 250 Volt rating.
- Six foot cord length.
- Free end is split, stripped 3/8".
- SJTW Indoor/Outdoor rated.
- UL and CSA listed in US and Canada.







Part Number	Description	Wire Gauge	Volt Rating	Ctn Qty	List Price
PTC163-6ST	Straight plug cord	16	125 V	50	$ 13.61
PTC163-6RA	Right angle plug cord	16	125 V	50	13.61
PTC143-6RA220	Right angle plug cord	14	250 V	50	19.46



HARVARD CONTRACTOR'S
Anchor Kit Features:

- Anchor kits complete with 100 plastic anchors, 100 screws and 1/4" masonry drill bit in a plastic case.
- Plastic gray ribbed anchors with lip design for electronic timer, pump start relay installations. Use with concrete block, brick and wallboard.
- Anchors have internal ribs for better centering of screws, locking lugs against pull and twist. Exterior design prevents fall out in overhead holes.
- Kit available with combination slotted/phillips head or tri-combination, slotted/phillips/hex head #10 x 1" screws.
- Kits complete with 1/4" x 4" masonry drill bit.
- Clear, unbreakable plastic case with molded-in hanging tab.



Combo Head

Tri Combo Head

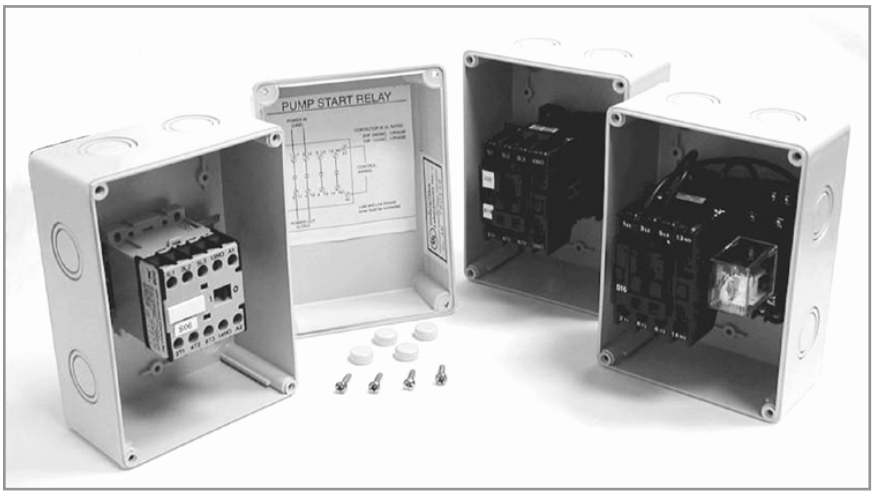


Part Number	Description	Ctn Qty	List Price
AK10CSPR	Ribbed Combo Head	36	$ 17.04
AK10TCR	Ribbed Tri Combo Head	36	17.50

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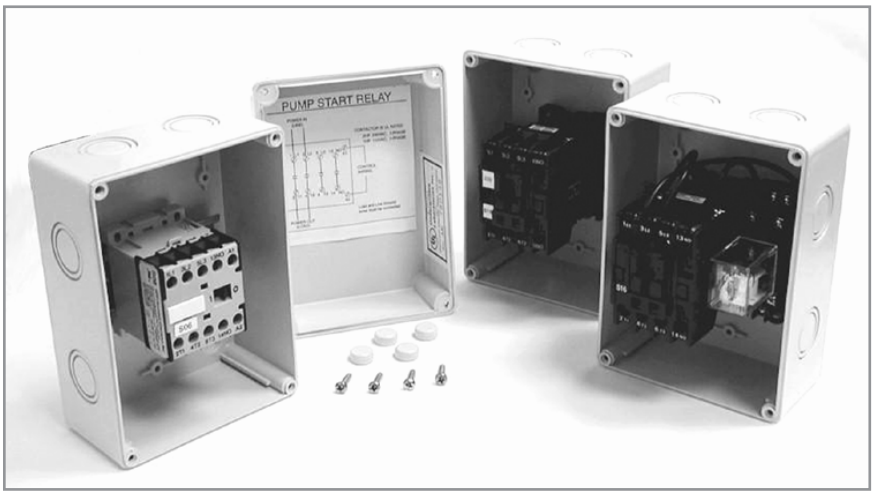
Pump Start Relay Features:

- Contactors are UL and UL Canada rated.
- Wide coil operating range, +10% to -30% of rated 60 hz coil voltage.
  Contactors will start on low voltage as follows:
  Single phase: 24 VAC coil will pull in at 17 volts.
  120 VAC coil will pull in at 84 volts.
  230 VAC coil will pull in at 161 volts.
- Finger safe design.
- One normally open auxiliary contact for powering a pilot light or alarm.
- Pressure screw terminals accept 18 through 10 AWG wire.
- Interposing relay units accept 24 through 10 AWG wire.
- Mechanical life up to 10 million operations.
- Long electrical life.
- PSR567 Series with interposing relay designed for low voltage and low controller output.

Industrial Non-metallic Enclosure Features:

- Gray enclosures are UL, CSA listed.
- Rated NEMA 4X for indoor or outdoor use.
- To maintain 4X enclosure rating use required 4X connectors.
- Watertight, dust tight, oil tight and rain tight.
- High impact, durable insulated Noryl thermoplastic.
- Neoprene gasketed cover.
- Resistant to shock, corrosion, chemicals and atmospheric agents.
- 8 conduit knockouts (1/2”, 3/4” NPT combination.)
- Service temperature -40° to 260°F.
- Stainless steel cover screws (max tightening torque: 7 in-lbs.)
- Sealing plugs provided to waterproof mounting screws.
- 5.9” H x 4.3” W x 3.9” D

Pump Start Relays



Part Number	INPUT- PUMP START RELAY Volts VAC	Req'd Coil Power Close	Hold	CONTACTOR Coil Voltage	PUMP MOTOR HP (MAX) Single Phase* 120 v	230 v	Three Phase ** 200/230v	460 v	LIST PRICE
Direct Control Style Contactor									
PSR123-24	24	26 VA	4.2 VA	24	1 HP	2 HP	3 HP	5 HP	$ 132.03
PSR123-120	120	26 VA	4.2 VA	120	1 HP	2 HP	3 HP	5 HP	132.03
PSR123-230	230	26 VA	4.2 VA	230	1 HP	2 HP	3 HP	5 HP	132.03
Direct Control Style Contactor									
PSR575-24	24	70 VA	12 VA	24	2 HP	5 HP	7.5 HP	15 HP	183.26
PSR575-120	120	70 VA	12 VA	120	2 HP	5 HP	7.5 HP	15 HP	183.26
PSR575-230	230	70 VA	12 VA	230	2 HP	5 HP	7.5 HP	15 HP	183.26
Interposing Relay Style Contactor for low voltage/controller output applications.									
PSR576-230-24	24	1.2 VA	1.2 VA	260	-	5 HP	7.5 HP	-	334.26

Notes:

1. Direct Control Style: The **input volts** must match the controller output voltage.
   The **contactor coil voltage** must match the controller voltage.
2. Interposing Relay Style: The **input volts** must match the controller output voltage.
   The **contactor coil voltage** must match the controller voltage.
3. VA=Volt Amps. To determine the operating amperage needed by the coil, divide the VA by the controller output voltage.

* Single Phase systems require **motor overload protection** within the motor.

** Three phase systems: May require **motor overload protection** within the motor. For proper **overload protection** consult the NEC (National Electrical Code) and local building codes before installation.

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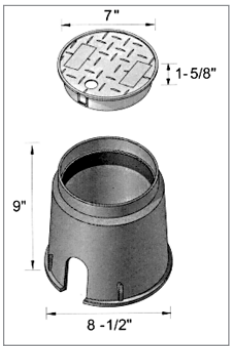
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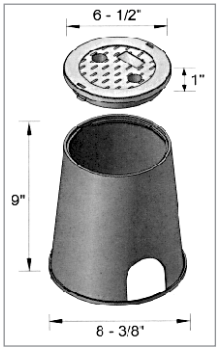


Valve Box Features:

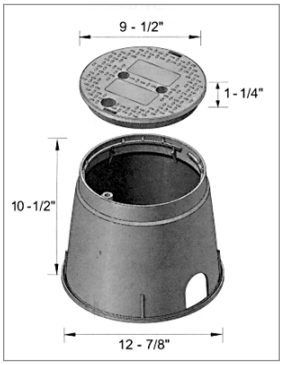
- Bodies made from structural polyolefin.
- Covers made with UV inhibitors to prevent discoloration and deterioration.
- Nestable for easy storage.
- 10" round and all rectangular boxes include brass insert so bolts may be added for easy lock down.
- ICV cover design, green covers for water applications.



6" Round Economy



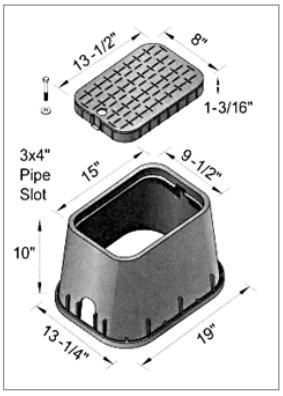
6" Round



10" Round Box

Part Number	Description	Pallet Qty	List Price
6" Round Economy Box with overlapping lip snap-on green cover			
D109-G	Box w/ cover	600	$ 7.95
D109GL	Cover only	1	3.91
6" Round Box with overlapping lip snap-on green cover			
107BCH	Box w/ cover	250	8.93
107CH	Cover only	1	4.80
107BCS	Box w/ sewer cover	250	10.12
107BC	ICV Box w/ cover	250	8.35
107C	ICV cover only	800	3.73
10" Round Box with bayonet twist-on overlapping lip green cover			
111BC	Box w/ cover	180	22.18
111C	Cover Only	1	10.69
111BCS	Box w/ sewer cover	180	26.93

Valve Boxes

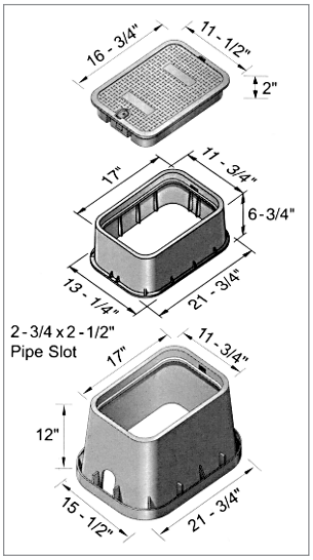


10” Standard Rectangular Box

10” x 15" Standard Rectangular Valve Box

- Standard drop-in green cover

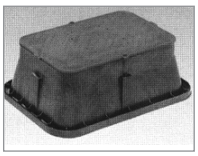
Part Number	Description	Pallet Qty	List Price
10” x 15" Rectangular Valve Box			
D1000-SG	10” x 15" Box w/ Cover	96	$ 38.50
D1000-SGL	Cover Only	1	14.64

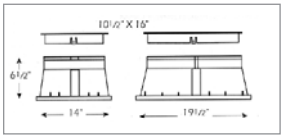


12” x 17" Standard Rectangular Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty	List Price
12” x 17" Standard Rectangular Valve Box			
113BC	12” x 17" Box w/ cover	78	$ 47.70
113C	Cover Only	1	29.35
113-6	Extension - no cover	49	34.48





6” Tapered Box

12" x 17" x 6" Tapered Low Profile Rectangular Valve Box

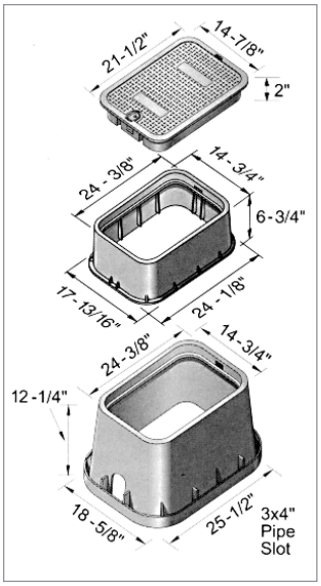
- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty	List Price
12" x 17" x 6” Tapered (Low Profile) Rectangular Box			
115TBC	12" x 17" x 6" Tapered Box w/ cover	96	$ 45.90
115	12" x 17" x 6" Tapered Extension w/ cover	49	44.26

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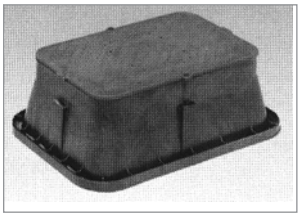
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

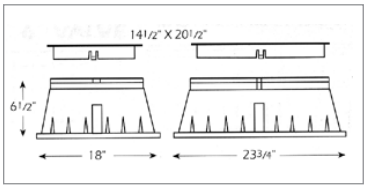


12" x 20" Jumbo Rectangular Valve Box

- Overlapping lip snap-on green cover
- "Water Meter" labeled cover available.

Part Number	Description	Pallet Qty	List Price
12" x 20" Jumbo Rectangular Valve Box			
117BC	12" x 20" Jumbo Box w/ cover	56	$ 90.66
117C	Jumbo cover only	1	56.63
117CW	Jumbo Black "WATER METER" cover only	1	70.46
117B	12" x 20" Jumbo Box only	56	76.21
117-6	Jumbo Extension - no cover	32	69.18

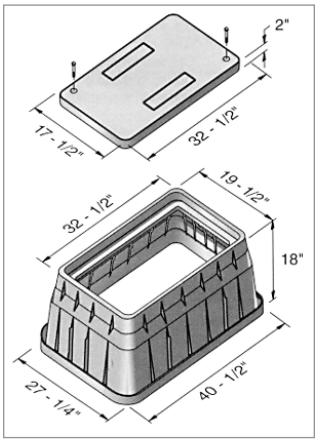




12" x 20" x 6” Tapered Low Profile Jumbo Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty	List Price
12" x 20" x 6” Tapered Low Profile Jumbo Valve Box			
119TBC	12" x 20" x 6" Tapered Jumbo Box w/ cover	56	$ 79.30
119	12" x 20" x 6" Tapered Jumbo Extension w/ cover	32	119.06



17" x 30" x 18" Jumbo Rectangular Valve Box

- Overlapping lip green cover
- Locking stainless steel bolt

Part Number	Description	Pallet Qty	List Price
17" x 30" x 18" Jumbo Rectangular Box			
126BCB	17" x 30" x 18" Jumbo Box w/ cover	10	$ 698.74

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118 Series

Flo Span Expandable Repair Coupling Features:

- Double EPDM o-ring seal gives more protection from posible leakage due to deflection of piston in the extended position.
- EPDM o-ring seal also protects against contamination on the cylinder wall.
- Solvent cement trap located in cap to capture excess solvent cement.
- Made from PVC type I grade I material meeting ASTM D-1784
- 118 Series does not have union end.

NEW Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Flo-Span Expansion Couplings - NO UNION S x SPG				
118-05	1/2”	7 1/2”	28	$ 7.62
118-07	3/4”	7 3/4”	24	8.45
118-10	1”	9 1/2”	15	9.79
118-12	1-1/4”	10 3/4”	10	18.41
118-15	1-1/2”	12 3/4”	16	20.18
118-20	2”	13 1/2”	12	30.85
118-25	2-1/2”	18 3/4”	3	47.94
118-30	3”	21”	3	59.89
118-40	4”	22 3/4”	3	104.70
QF-6000	6” S x S	26 1/4”	1	520.90



PSC Series

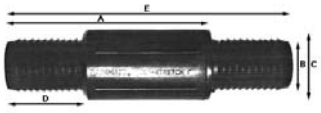
Poly-Stretch Repair Coupling Features:

- For repair of polyethylene irrigation pipe.
- Avoid extra digging and buckled pipe.
- Couplings are made of ABS
- O-ring seal is made of Buna 70
- Pressure rated at 160 psi.
- Designed for irrigation operation pressures of polyethylene pipe and more.

Instructions for Installation:

- Cut out approximately 4” of pipe where repair is needed.
- Place clamps over ends of pipe
- Insert end marked with “END FIRST” arrow by pushing and turning at same time.
- Insert other end by pushing & turning.
- Place clamps over ribbed ends & tighten.

Dimensions:



	A	B	C	D	E
3/4”	4.0	.575	.820	1.50	5.625
1”	4.0	.770	1.075	1.50	5.625
1 1/4”	5.0	1.109	1.415	1.755	6.70
1 1/2”	5.0	1.310	1.63	1.755	6.70
2”	5.0	1.825	2.125	1.755	6.70

Part Number	Description	Ctn Qty	List Price
PSC07	3/4” Poly-stretch coupling	50	$ 12.47
PSC10	1” Poly-stretch coupling	50	**13.44**
PSC12	1 1/4” Poly-stretch coupling	25	**20.13**
PSC15	1 1/2” Poly-stretch coupling	25	**23.27**
PSC20	2” Poly-stretch coupling	20	**36.34**

Repair Fittings for Sch 40 Pipe



PEX Series

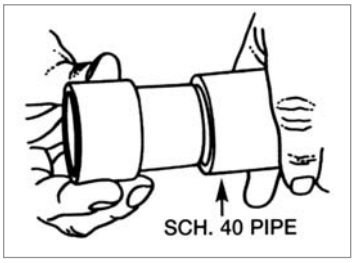


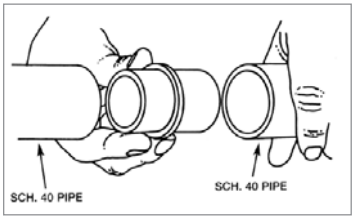
PIC Series

Pipe Extender and Inside Connector Repair Fitting Features:

- For Sch 40 pipe.
- Saves labor.
- Invisible after installation.
- Permanent repair.
- Insignificant flow restriction.
- PVC Construction.
- PIC Series connects two pieces of Sch 40 pipe with flush joint.

NO LEAD ✓ LEAD-FREE





Part Number	Description	IPS Size	Ctn Qty	List Price
Pipe Extender Repair Fitting				
PEX50	Pipe Extender	1/2”	48	$ 2.41
PEX75	Pipe Extender	3/4”	48	3.14
PEX100	Pipe Extender	1”	48	3.99
PEX125	Pipe Extender	1 1/4”	48	4.63
PEX150	Pipe Extender	1 1/2”	48	5.54
PEX200	Pipe Extender	2”	48	6.22
PEX250	Pipe Extender	2 1/2”	96	8.45
PEX300	Pipe Extender	3"	96	12.21
PEX400	Pipe Extender	4"	48	14.27
Inside Connector Repair Fitting				
PIC100	Inside Connector	1”	48	3.99
PIC150	Inside Connector	1 1/2”	48	5.54
PIC200	Inside Connector	2”	48	6.22

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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Single ear pinch clamp
Features and Benefits:

- 300 series stainless steel material for excellent corrosion resistance.
- Welded construction provides superior strength.
- Quick, easy installation provides a uniform 360° seal.
- Permanent seal is tamper proof.
- Ideal 61-0 series clamps are compatible with most clinching tools.
- Fits most popular polyethylene and polybutylene water service lines.
- Perfect for irrigation applications.

NO LEAD
LEAD-FREE



61001-51

Part Number	Nominal Size	Open Diameter	Closed Diameter	Bag Qty	Ctn Qty	List Price per 100
61198	3/4”	0.779	0.669	100	2000	$ 61.40
61210	13/16”	0.827	0.716	100	2000	62.56
61256	1”	1.008	0.898	250	2500	62.56
61271	1 1/16”	1.067	0.945	250	2500	62.56
61316	1 1/4”	1.244	1.122	250	2500	62.56
61331	1 5/16”	1.303	1.181	250	2500	63.16
61410	1 5/8”	1.614	1.492	100	2000	72.99
61425	1 11/16”	1.673	1.551	100	2000	77.61
61485	1 7/8”	1.909	1.787	100	2000	91.48
61001-51	Pinch tool for all size pinch clamps (EACH)				15	80.53

To identify proper clamp size:
Measure actual OD of the hose on the fitting. Select the nominal size clamp nearest but always larger than the OD of the hose on the fitting.

Quantities:
Bag quantities required.

Drop Ship Programs:
Minimum 5000 piece assorted pinch clamps required if ordered in combination with a 5000 piece worm drive clamp drop ship order. Minimum 25,000 piece assorted pinch clamps required if ordered separately. Standard customer pricing on pinch clamps applies.

Freight & Terms:
Standard AGI freight, terms and conditions apply.

Utility Pumps



91025 & 91330

Submersible Utility Pump Features:

- 1/5 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 8’ waterproof power cord.
- Clog resistant open type impeller.
- Capacities of 26 & 40 gpm.
- 1 year limited warranty.

Specifications:

Discharge: 1 1/4" MNPT
or 3/4” GHT
Housing & Base: Glass reinforced ABS
Impeller: Non-clogging open type
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected

		Gallons per minute at discharge height in feet _						Max.	Min.	
Model No.	HP	0'	5'	10'	15'	20'	25'	Head	Amps	List Price
SP91025	1/5	26	21	14	10	7	1	25’	3.6	$ 256.62
SP91330	1/3	40	34	28	22	12	2	25’	4.1	322.44

NOTE: Use of smaller diameter pipe, or long runs of pipe, will result in lower flow rates than those shown.

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SECTION 11
HAND TOOLS & ACCESSORIES

PRODUCT LINE	PAGE
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Cutters & Saws for Pipe and Hose	1-4
Hand Tools	7-11
Including: Flagging tape / Hand Saws / Mallets / Measures Nut Drivers / Pliers / Pullers & Bars / Screwdrivers / Snips Utility Knives / Wire Cutter,Crimper,Stripper / Wrenches	
Power Tool Accessories	12
Including: Drill Bits / Hole Saws / Saw Blades / Wheels	
Work Gloves	5



T Series

HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter Features:

- Heavy duty, glass reinforced nylon handles.
- Handles designed with matted surface and finger indentation for firm gripping in any weather conditions.
- Handle "bridge" support structure designed to eliminate deflection, bending or breaking while cutting for straighter, truer cut every time.
- "100" and "135" available in black or yellow. "200" available in black.
- Available with either PTFE coated hardened tool steel or polished high-carbon stainless steel blades specially honed to maintain their edge longer than competitive blades.
- Cutter blades individually laser etched with "100", "135" or "200" for easy identification. Replacement blades are blister packed with knock out pin.
- All Harvard Plastic Pipe and Hose cutters are blister packed with an attractive hang-up card.

The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing (except when cutting 2" or larger hose with the SS200).







Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
T100	Black	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	$ 22.61
YT100	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	22.61
T100SS	Black	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	23.60
YT100SS	Yellow	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	23.60
T135	Black	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	25.36
YT135	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	25.36
T135SS	Black	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	26.36
YT135SS	Yellow	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	26.36
SS200	Black	Stainless Steel	Rubber hose through 2" PE through 1 1/2" & Class PVC through 1 1/4"	50	27.94

HARVARD CONTRACTOR Replacement Blades (includes one knock out pin)			DP is	DOUBLE PACK
BT100	PTFE Coated Hardened Steel Blade	T100, YT100	100	8.61
BT100SS	Stainless Steel Blade	T100SS, YT100SS	100	9.62
BT135	PTFE Coated Hardened Steel Blade	T135, YT135	100	9.42
BT135DP	PTFE Coated Hardened Steel Blades (2)	T135, YT135	100	18.29
BT135SS	Stainless Steel Blade	T135SS, YT135SS	100	10.41
BT135DPSS	Stainless Steel Blades (2)	T135SS, YT135SS	100	20.25
SSB200	Stainless Steel Blade	SS200	50	10.71

Pipe & Hose, PVC - Ratchet Pipe Cutters





APC100SS

HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter with Spring Action Features:

- Heavy duty, cast metal handles.
- Handles designed with matted surface and finger ndentation for firm gripping in any weather conditions.
- Spring action for easy use.
- Latch handle for carrying in closed position.
- **Reversible**, replaceable polished high carbon stainless steel blades honed to maintain thin edge longer than competitive blades.
- Cuts PE, Rubber hose & PVC (Class & Sch 40) through 1" ID (max diameter 1 3/8")
- Blister packed with an attractive hang-up card.



The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing.



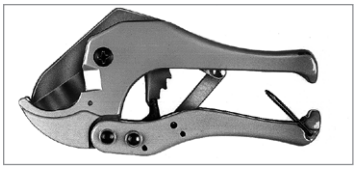
Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
APC100SS	Red	Stainless Steel	PE, Rubber hose & PVC through 1" ID	50	$ **22.27**
HARVARD CONTRACTOR Replacement, Reversible Blade					
APC100SSB	Stainless Steel reversible blade			1	**11.16**

PVC Ratchet Pipe Cutter Features:

- For use on plastic pipes up to 1", 1 1/4", 1 3/8", 1 1/2" or 2" diameter.
- **Blade and ratchet teeth made of molybdenum vanadium stainless steel. Stays sharp longer than plated steel or lower grade stainless blades.**
- All metal construction insures long life; locking clip provides safe storage.
- Holds pipe as it cuts, creating smooth, even ends.
- One hand operation (except on HL50).



HS25



HM42



HL48



HL50

Part Number	Description	Ctn Qty	List Price
Cutters - With molybdenum vanadium stainless steel blades			
HS25	PVC Pipe Cutter, 1"	60	$ 53.39
HM42	PVC Pipe Cutter, 1-1/4"	60	60.39
HL42A	PVC Pipe Cutter, 1 3/8"	60	74.16
HL48	PVC Pipe Cutter, 1 1/2"	40	119.36
HL50	PVC Pipe Cutter, 2"	20	228.12
Replacement Blades - Molybdenum vanadium stainless steel			
HS25B	Blade for HS25	1	32.70
HM42B	Blade for HM42	1	36.65
HL42AB	Blade for HL42A	1	38.06
HL48B	Blade for HL48	1	59.59
HL50B	Blade for HL50	1	111.96
Replacement Spring Sets			
HS25SP	Spring Set for HS25	1	4.91
HM42SP	Spring Set for HM42	1	6.69
HL42ASP	Spring Set for HL42A	1	6.88
HL48SP	Spring Set for HL48	1	11.08
HL50SP	Spring Set for HL50	1	7.43

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HRPC42





HRPC50

HARVARD CONTRACTOR'S PVC Ratchet Pipe Cutter Features:

- For use up to 1 1/4" or 2" diameter pipe.
- All stainless steel cutting blade and ratchet teeth.
- All metal body construction with latching handle for safe storage.
- 1 1/4" cutter has quick release thumb lever for easy blade opening.
- 1 1/4" cutter packaged in blister card for easy display.
- 2" two hand cutter has rubber handle grips.
- 2" two hand cutter packaged with wrap around card for easy display.
- Replacement stainless steel blades and spring sets are available.

Part Number	Description	Ctn Qty	List Price
Cutters - with stainless steel blade			
HRPC42	PVC Pipe Cutter, 1 1/4"	50	$ 37.25
HRPC50	PVC Pipe Cutter, 2"	10	178.30
Replacement Blades - stainless steel			
HRPC42B	Blade for HRPC42	1	11.84
HRPC50B	Blade for HRPC50	1	89.04
Replacement Spring Sets			
HRPC42SP	Spring Set for HRPC42	1	1.94
HRPC50SP	Spring Set for HRPC50	1	1.94







HARVARD CONTRACTOR'S <u>One Hand</u> 2" PVC Ratchet Pipe Cutter Features:

- Cuts PVC, POLY, ABS, CPVC and PEX pipe.
- **One hand** ratchet operation.
- Latch handle with rubber handle grip.
- All stainless steel blade.
- Teal colored die cast aluminum body.
- Max pipe O.D. 2.48" (63mm)
- HRPC63B Replacement blade available.

NEW

Part Number	Description	Ctn Qty	List Price
Cutters - with stainless steel blade			
HRPC63	PVC One Hand Pipe Cutter, 2"	20	$ 164.90
Replacement Blades - stainless steel			
HRPC63B	Blade for HRPC63	30	66.72
Replacement Pin and screw			
HRPC63PS	Center Pin and Screw replacement set	1	2.82

Cable Saws, PVC & ABS Saws & Hacksaws



CS24L



CS36T

HARVARD CONTRACTOR'S PVC Cable Saw Features:

- Multi-purpose cable saw cuts PVC pipe.
- Available in two lengths and two handle styles

Part Number	Description	Ctn Qty	List Price
Cable Saws			
CS24L	Cable saw, 24" length, Loop handle	50/500	$ 6.31
CS36L	Cable saw, 36" length, Loop handle	5/200	8.72
CS36T	Cable saw, 36" length, T handle	50	11.43



TBS300



PVCSW

14" PVC/ABS Tool Box Saw Features:

- 14" saw for use with PVC or ABS. Cuts wood, aluminum and drain pipe.
- Durable ABS handle.
- Tempered steel blade with 15 teeth, 16 points.
- Cuts in both directions.

PVC/ABS Saw Features:

- 12" or 18" saw blade lengths.
- Aluminum die cast handle for sure grip.
- Cuts large diameter PVC or ABS pipe.
- Cuts drywall, paneling, plywood or plaster board.
- Precision milled teeth for faster, cleaner cuts.
- Induction hardened teeth for longer life.
- Cuts in both directions.
- Quick change design allows for changing blades without tools.

Part Number	Description	Ctn Qty	List Price
TBS300	Tool Box Saw, 14" length, 15 teeth, 16 pt.	4/48	$ 27.30
PVCSW12	PVC Saw, 12" aluminum handle	12	29.48
PVCSW18	PVC Saw, 18" aluminum handle	12	32.29
PVCSW12B	PVC Saw 12" BLADE ONLY	12	14.34
PVCSW18B	PVC Saw 18" BLADE ONLY	12	17.48



T22466

TASK HIGH TENSION HACKSAWS

Task Contractor's High Tension Hacksaw Features:

- Aluminum handle and end piece.
- Square tube frame prevents frame twisting.
- Multiple tension adjustment setting.
- 3 blade positions for 90°, 45° and use as a minisaw.
- Extra blade storage in frame.
- Unconditional warranty.

Part Number	Description	Ctn Qty	List Price
T22466	Contractors Hacksaw	6	$ 40.34

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Work Gloves - Cotton, Leather & Rubber Coated



AGWG205L

Heavy Duty LEATHER Work Glove Features:

- Gunn pattern; leather extends around the front of each finger, leaving no exposed seams or cloth in the palm "wear" area.
- Leather palm, fabric back.
- Generously sized to provide a comfortable fit.
- Winged thumb, 2 1/2" safety cuff.

Part Number	Description	Bundle Qty	Ctn Qty	List Price
AGWG205L	Heavy Duty Leather glove	12 pairs	120 pair	$ 8.42/pair



AGWG6600 Series

ARMOR Rubber Coated Work Glove Features:

- Textured, blue natural rubber coating over seamless, breathable knit liner.
- Ideal for grabbing anything under wet conditions.
- Excellent for any abrasive or slippery application - pump & well, pool & spa, irrigation, plumbing & heating.
- Contoured fingers reduce hand fatigue.

Part Number	Description	Bundle Qty	Ctn Qty	List Price
AGWG6600L	Rubber coated knit glove, Large	12 pairs	144 pair	$6.68/pair
AGWG6600XL	Rubber coated knit glove, XLarge	12 pairs	144 pair	$6.68/pair



AGWG7114

PVC Coated Work Glove Features:

- PVC coated and etched for "sandy" finish for easy and secure grip.
- 14" length fully lined with cotton jersey.
- Suitable for working with corrosive chemicals.

Part Number	Description	Bundle Qty	Ctn Qty	List Price
AGWG7114	PVC Coated work glove, 14"	Bulk	48 pair	$ 11.37/pair

Anchor Kits





Combo Head

Tri Combo Head



HARVARD CONTRACTOR'S
Anchor Kit Features:

- Anchor kits complete with 100 plastic anchors, 100 screws and 1/4" masonry drill bit in a plastic case.
- Plastic gray ribbed anchors with lip design for electronic timer, pump start relay installations. Use with concrete block, brick and wallboard.
- Anchors have internal ribs for better centering of screws, locking lugs against pull and twist. Exterior design prevents fall out in overhead holes.
- Kit available with combination slotted/phillips head or tri-combination, slotted/phillips/hex head #10 x 1" screws.
- Kits complete with 1/4" x 4" masonry drill bit.
- Clear, unbreakable plastic case with molded-in hanging tab.

Part Number	Description	Ctn Qty	List Price
AK10CSPR	Ribbed Combo Head	36	$17.04
AK10TCR	Ribbed Tri Combo Head	36	17.50

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WCS1022

HARVARD CONTRACTOR'S WCS1022 Wire Cutter/Strippers Features:

- Combination wire cutter and stripper.
- Strips wire sizes 22-10 AWG.
- Heavy duty scissor opening spring.
- Cushioned plastic grips.
- Easy locking thumb lock.

Part Number	Description	Ctn Qty	List Price
WCS1022	Wire Cutter/Stripper	100	$ 19.53



SW Series

Adjustable Strap Wrench:

Part Number	For Use with Coupling Sizes	Ctn Qty	List Price
SW400	1/2" through 4"	60	$ 20.39
SW600	1/2" through 6"	60	23.18

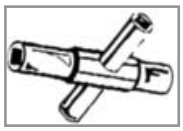


SW500C

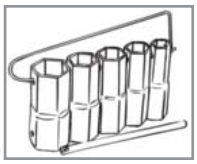
SW500 Nipple Extractor Features:

- For 1/2" or 3/4" plastic nipples.
- Easy to remove broken plastic riser from sprinkler pipe and fittings.
- Insert tip and turn.

Part Number	Description	Ctn Qty	List Price
SW500C	Stub Wrench	25	7.32



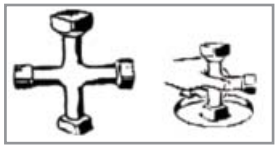
HK400



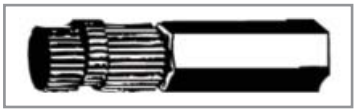
HW500



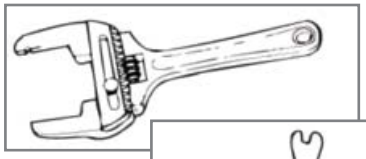
HR



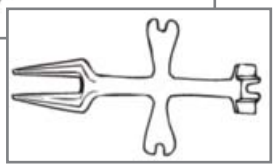
HP400



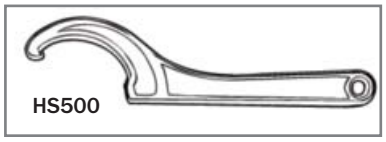
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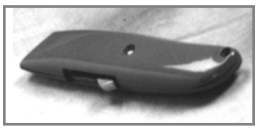
HAS300



HPO400



HS500



HK50

4-Way Key Features:
- For use on square stem 1/4”, 9/32”, 5/16”, 11/32”.

Tub and Shower Valve Socket Wrench Set Features:
- Set includes sockets, handle and wire.

Radiator Spud Wrench Features:
- For use when spud wrench or key is required.
- Plated.

4 Way Countersunk Plug Wrench Features:
- Steel construction.

Internal Pipe Wrench Features:
- Available in sizes 3/8”, 1/2”, 3/4” and 1”.

Adjustable Strainer and Spud Wrench Features:
- Use for Basket Strainers and Closet Spud.
- Minimum 1” to Maximum 3”.
- Plated.

4-Way P.O. Plug Wrench Features:
- Plated.
- Use when installing or removing tub drains, P.O. plugs & basket strainers.

Strainer Wrench
- Plated steel.
- For use on basket strainers and tub drains with crossbars.
- Long handle for leverage.

Spanner and Strainer Wrench Features:
- Plated, malleable iron.
- For use on basket strainer jam nuts.

Part Number	Description	Ctn Qty	List Price
HK400	Four way key	6	6.48
HW500	Complete wrench set	1	18.56
HR	Radiator spud wrench	5	22.37
HP400	4 way plug wrench	1	25.86
HI380	3/8” internal pipe wrench	5	4.40
HI500	1/2” internal pipe wrench	5	5.48
HI750	3/4” internal pipe wrench	5	5.72
HI100	1” internal pipe wrench	5	10.50
HK50	Utility knife w/extra blade	12	8.96
HAS300	Adjustable strainer wrench	10	18.00
HPO400	4-Way plug wrench	10	7.04
HS500	Spanner/strainer wrench	10	8.47

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PLIERS - WRENCHES - SCREWDRIVERS - NUT DRIVERS


T25343


T25381


T7910


T25432


T50232


07292


T23106


T23100

Part Number	Description	Ctn Qty	List Price
PLIERS - STANDARD TYPE			
T25343	10” Groove joint plier	5	$ 34.53
T25344	12” Groove joint plier	5	42.27
T25361	6” Diagonal Cutter	5	19.16
T25381	6 1/2” Long nose plier	5	20.09
WRENCHES - ADJUSTABLE - BULK			
T7906	6” Adjustable wrench	6	16.89
T7910	10” Adjustable wrench	6	30.44
T7912	12” Adjustable wrench	6	47.47
T7915	15” Adjustable wrench	4	93.72
WRENCHES - PIPE			
T25432	10” Pipe wrench	6	34.01
T25436	14” Pipe wrench	6	46.93
T25438	18” Pipe wrench	2	63.90
T25446	24” Pipe wrench	1	104.38
T25464	14” Aluminum pipe wrench	6	77.31
T25468	18” Aluminum pipe wrench	2	111.47
SCREWDRIVERS - BULK			
T50232	#2 Phillips x 4”	5	13.35
T50233	#3 Phillips x 6”	5	18.53
4 in 1 SCREWDRIVERS			
07293	4 in 1 Driver - Soft Touch Handle Includes Phillips #1, #2, Sq Rec #2 & slotted 6-8	1	21.84
07292	4 in 1 Driver - Soft Touch Handle, **DISPLAY BOX of 12**	12	207.14
NUT DRIVERS - CARBON STEEL - SAE			
T23106	1/4” Nut driver	1	12.77
T23107	5/16” Nut driver	1	13.71
T23109	3/8” Nut driver	1	14.06

PRY BARS - HACKSAWS - HAND SAWS - SNIPS - BOLT CUTTERS - UTILITY KNIVES


T71158


T47015



T22467


T7078


T22370


T25426


T00970

Part Number	Description	Ctn Qty	List Price
RUBBER MALLETS			
T71154	16 oz. Black head rubber mallet	10	$ 13.76
T71158	32 oz. Black head rubber mallet	10	22.97
PRY BARS - FLAT			
T47015	14” (355 mm) Spring steel flat pry bar	25	48.96
HACKSAWS			
T22466	Contractor hacksaw	6	40.34
T22467	Home Owner Pro hacksaw	12	35.41
T7078	Handi cut mini hacksaw	5	18.69
HACKSAW BLADES - BI-METAL - BULK			
T22552B	10” x 24T Bi-metal hacksaw blade	10	5.14
T22555B	12” x 24T Bi-metal hacksaw blade	10	5.34
HANDSAWS - BARRUCUDA			
T88152	12” Barrucuda PVC saw	1	35.48
SNIPS - AVIATION			
T22370	Aviation snips - straight cut, yellow handle	6	38.63
BOLT CUTTERS			
T25426	24” Bolt cutter	1	136.13
UTILITY KNIVES and BLADES, GLASS SCRAPERS			
T00971	Lg plastic utility knife, soft touch hdl & autolock-Yellow	1	10.72
T00970	Large plastic utility knife w/ soft touch handle & autolock **DISPLAY BOX of 36** - 9 each yellow, red, green, purple	36	382.95
T00988	Utility knife replacement blades for T00980’s - 50 pk	6	41.48

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MEASURING - GENERAL USE



01176



TS730



T22641



T59301

T59302



T77129

Part Number	Description	Ctn Qty	List Price
TAPE MEASURES			
01176	1" x 25' Orange Tape Measure - Rubber Jacket **DISPLAY BOX of 12**	12	$ **255.19**
TS730	100' (30m) Fiberglass Open Reel Long Tape	6	**72.15**
TS731	200' (60m) Fiberglass Open Reel Long Tape	6	**136.41**
TS732	300' (92m) Fiberglass Open Reel Long Tape	6	**195.68**
WIRE BRUSHES			
T22640	Long Hdl 3 x 19 Carbon Wire Fill Scratch Brush	24	**11.08**
FLAGGING TAPE			
T59301	3" x 300' DANGER Flagging Tape	27	**24.19**
T59302	3" x 300' CAUTION Flagging Tape	27	**24.19**
KNEE PADS - NON-LEATHER			
T77129	Accordion Knee Pads	1	**88.12**

DRILL BITS - HOLE SAWS - SAW BLADES - WHEELS



T90013



T90013



T75049



T21719



T22048



T22113



T22218-5

Part Number	Description	Ctn Qty	List Price
DRILL BITS - TITANIUM SETS - with 135 Degree Split Point - in Visidex Metal Box			
T90013	13 pc Titanium Drill Bit Set - 1/16" - 1/4"	5	$ 95.06
DRILL BITS - SDS-PLUS - HAMMER/ROTARY - MASONRY - CARBIDE TIPPED - SINGLE FLUTE			
T75049	3/4" x 8" Overall SDS - Useable 6"	3	104.80
HOLE SAWS - TWO PIECE BI-METAL - 1-3/8" DEEP CUT - M3 STEEL			
T21719	1-7/8" Two Piece Bi-Metal Hole Saw	6	43.47
T21725	2-1/4" Two Piece Bi-Metal Hole Saw	6	49.26
HOLE SAWS - MANDRELS & REPLACEMENT PILOT DRILL BITS			
T22048	H.D. H.S.S. Mdrl 7/16 Hex Shank-fits 1-5/16"-6"	5	63.96
RECIPROCATING SAW BLADES - BI-METAL - 1/2" UNIVERSAL SHANK - 1 PER PACK			
T22208	Fast Cut Nailed Wood & Plastic 6TPI x 6.01"	10	10.15
T22210	Fast Cut Wood/Nailed Wood 6TPI x 12.02"	10	19.50
T22217	Mtl Contours/Tubing 1/8"-3/16" 18TPIx6.01"	10	8.66
RECIPROCATING SAW BLADES - BI-METAL - 1/2" UNIVERSAL SHANK - 5 PER POUCH			
T22218-5	Mtl Contours/Tubing up to 1/8" 24TPIx6.01"	1	39.44
RECIPROCATING BLADES - DEMOLITION - BI-METAL - 1/2" UNIVERSAL SHANK			
T23201	9" x 6TPI Wood & Nail Demolition Blade- Bulk	10	26.72
T23206	6" x 9TPI Metal & Pipe Demolition Blade - Bulk	10	16.95

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SECTION 12
IDEAL CLAMPS, FITTINGS & NIPPLES

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HARVARD NO LEAD Brass Push Fitting Features:

- Use for above ground potable water, hydronic heating and other plumbing systems.
- No soldering, clamps, unions or glue needed.
- For use with copper, CPVC, PEX and PERT tubing in any combination.
- Integral tube liner (stiffener) for PEX/PERT installation.
- Easy disconnect with special removal tool.
- Lead free, forged brass body construction.
- Full fluid flow without PEX/PERT stiffeners.
- Fittings can be rotated 360° after assembly for easier installation.
- Max working pressure at max working temperature: 200 psi at 200°F water. (Caution: may exceed the max service pressure/temperature of PEX/PERT or CPVC.)
- Not suitable for steam service.
- Tested, certified and listed in accordance with ASSE1061-2006.
- cUPC listed.
- Certified lead free to NSF/ANSI 372.

HARVARD

LOW LEAD

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

MATERIAL SPECIFICATIONS	
Body	Forged NL Brass
Oring:	EPDM
Gripper Ring	SS304
Push Ring	Acetal
Locking Ring	Acetal
Seat Ring	Acetal
Stiffener	Polysulfone

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.



BPCNL



BPRCNL



BPMANL



BPRMANL



BPFANL



BPRFANL



BPWHK

NEW

Part Number	Description & Size	Ctn Qty	List Price
Couplings			
BPC3/8NL	BRS PUSH CPL NL FITXFIT 3/8x3/8	60/240	$ 6.91
BPC1/2NL	BRS PUSH CPL NL FITXFIT 1/2x1/2	50/200	7.17
BPC3/4NL	BRS PUSH CPL NL FITXFIT 3/4X3/4	30/120	9.53
BPC1NL	BRS PUSH CPL NL FITXFIT 1X1	15/60	19.07
Reducing Coupling			
BPRC1/2X3/8NL	BRS PUSH CPL NL FITXFIT 1/2X3/8	45/180	7.44
BPRC3/4X1/2NL	BRS PUSH CPL NL FITXFIT 3/4X1/2	35/140	9.27
BPRC1X3/4NL	BRS PUSH CPL NL FITXFIT 1X3/4	20/80	17.76
Male Adapters			
BPMA3/8NL	BRS PUSH M/A NL FITXMPT 3/8x3/8	60/240	6.12
BPMA1/2NL	BRS PUSH M/A NL FITXMPT 1/2X1/2	60/240	6.74
BPMA3/4NL	BRS PUSH M/A NL FITXMPT 3/4X3/4	40/160	9.88
BPMA1NL	BRS PUSH M/A NL FITXMPT 1X1	20/80	17.85
Reducing Male Adapter			
BPRMA3/8x1/2NL	BRS PUSH M/A NL FITXMT 3/8x1/2	52/208	6.90
BPRMA1/2X3/8NL	BRS PUSH M/A NL FITXMT 1/2X3/8	60/240	6.90
BPRMA1/2X3/4NL	BRS PUSH M/A NL FITXMT 1/2X3/4	50/200	9.79
BPRMA3/4X1/2NL	BRS PUSH M/A NL FITXMT 3/4X1/2	40/160	11.33
Female Adapters			
BPFA3/8NL	BRS PUSH F/A NL FITXFPT 3/8x3/8	60/240	6.32
BPFA1/2NL	BRS PUSH F/A NL FITXFPT 1/2X1/2	60/240	6.83
BPFA3/4NL	BRS PUSH F/A NL FITXFPT 3/4X3/4	40/160	10.41
BPFA1NL	BRS PUSH F/A NL FITXFPT 1X1	20/80	16.79
Reducing Female Adapter			
BPRFA3/8X1/2NL	BRS PUSH F/A NL FITXFPT 3/8X1/2	52/208	7.47
BPRFA1/2X3/4NL	BRS PUSH F/A NL FITXFPT 1/2X3/4	40/160	10.33
BPRFA3/4X1/2NL	BRS PUSH F/A NL FITXFPT 3/4X1/2	40/160	11.81
BPRFA3/4X1NL	BRS PUSH F/A NL FITXFPT 3/4X1	25/100	17.84
BPRFA1X3/4NL	BRS PUSH F/A NL FITXFPT 1X3/4	25/100	17.84
Water Heater Kit (includes 2 female adapters and 1 removal tool)			
BPWHK1/2X3/4NL	BRS PUSH WTHRT FITXFPT 1/2x3/4	20/160	23.65
BPWHK3/4NL	BRS PUSH WTHRT FITXFPT 3/4x3/4	15/120	24.32
BPWHK3/4X1/2NL	BRS PUSH WTHRT FITXFPT 3/4x1/2	15/120	23.65

NO LEAD Brass Push Fittings

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.



BPENL



BPRENL



BPFENL



BPMENL



BPTNL



BPRTNL



BPFTNL



BPMTNL



BPDENL



BPWPENL



BPECANL



BPSRCNL

Part Number	Description & Size	Ctn Qty	List Price
Elbows			
BPE3/8NL	BRS PUSH ELL NL FITXFIT 3/8x3/8	60/240	$ 8.94
BPE1/2NL	BRS PUSH ELL NL FITXFIT 1/2X1/2	40/160	9.97
BPE3/4NL	BRS PUSH ELL NL FITXFIT 3/4X3/4	20/80	14.09
BPE1NL	BRS PUSH ELL NL FITXFIT 1X1	12/48	27.82
Reducing Elbows			
BPRE1/2X3/8NL	BRS PUSH ELL NL FITXFIT 1/2X3/8	37/148	9.53
BPRE3/4X1/2NL	BRS PUSH ELL NL FITXFIT 3/4X1/2	25/100	13.92
BPRE3/4X1NL	BRS PUSH ELL NL FITXFIT 3/4X1	15/60	28.57
Female Elbow			
BPFE3/8NL	BRS PUSH FEM ELBOW NL FITXFPT 3/8	60/240	8.92
BPFE1/2NL	BRS PUSH FEM ELBOW NL FITXFPT 1/2	40/160	10.41
BPFE3/4NL	BRS PUSH FEM ELBOW NL FITXFPT 3/4	20/80	14.52
BPFE1NL	BRS PUSH FEM ELBOW NL FITXFPT 1	13/52	23.86
Male Elbow			
BPME3/8NL	BRS PUSH MALE ELBOW NL FITXMPT 3/8x3/8	60/240	7.95
BPME1/2NL	BRS PUSH MALE ELBOW NL FITXMPT 1/2X1/2	40/160	9.01
BPME3/4NL	BRS PUSH MALE ELBOW NL FITXMPT 3/4X3/4	20/80	14.78
BPME1NL	BRS PUSH MALE ELBOW NL FITXMPT 1X1	13/52	26.32
Tees			
BPT3/8NL	BRS PUSH TEE NL FITXFIT 3/8x3/8x3/x	45/180	11.46
BPT1/2NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X1/2	30/120	14.52
BPT3/4NL	BRS PUSH TEE NL FITXFIT 3/4X3/4X3/4	15/60	21.44
BPT1NL	BRS PUSH TEE NL FITXFIT 1X1X1	7/28	37.19
Reducing Tee			
BPRT3/8x3/8x1/2NL	BRS PUSH TEE NL FITXFIT 3/8x3/8x1/2	30/120	14.70
BPRT1/2X1/2X3/8NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X3/8	30/120	15.19
BPRT1/2X1/2X3/4NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X3/4	20/80	24.91
BPRT1/2X1/2X1NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X1	15/60	32.06
BPRT1/2X3/4X3/4NL	BRS PUSH TEE NL FITXFIT 1/2X3/4X3/4	15/60	27.75
BPRT3/4X1/2X1/2NL	BRS PUSH TEE NL FITXFIT 3/4X1/2X1/2	20/80	19.16
BPRT3/4X3/4X1/2NL	BRS PUSH TEE NL FITXFIT 3/4X3/4X1/2	15/60	21.70
BPRT1X1X3/4NL	BRS PUSH TEE NL FITXFIT 1X1X3/4	8/32	34.83
Female Tee			
BPFT1/2NL	BRS PUSH FEM TEE NL FITXFITXFPT 1/2X1/2X1/2	30/120	19.07
BPFT3/4NL	BRS PUSH FEM TEE NL FITXFITXFPT 3/4X3/4X3/4	15/60	28.18
Male Tee			
BPMT1/2NL	BRS PUSH MALE TEE NL FITXFIT 1/2X1/2X1/2	30/120	19.07
BPMT3/4NL	BRS PUSH MALE TEE NL FITXFIT 3/4X3/4X3/4	15/60	28.18
Drop Elbow			
BPDE1/2NL	BRS PUSH DROP ELBOW NL FITXFPT 1/2X1/2	30/120	12.77
Wall Plate Elbow			
BPWPE1/2NL	BRS PUSH WALL PLATE EL NL FITXFPT 1/2X1/2	30/120	16.35
End Cap			
BPECA3/8NL	BRS PUSH END CAP NL FIT 3/8	82/328	3.50
BPECA1/2NL	BRS PUSH END CAP NL FIT 1/2	100/400	4.54
BPECA3/4NL	BRS PUSH END CAP NL FIT 3/4	60/240	6.83
BPECA1NL	BRS PUSH END CAP NL FIT 1	30/120	11.20
Slip Repair Coupling			
BPSRC1/2NL	BRS PUSH REPAIR CPL NL FITXFIT 1/2X1/2	20/80	14.09
BPSRC3/4NL	BRS PUSH REPAIR CPL NL FITXFIT 3/4X3/4	15/60	21.08
BPRSC1NL	BRS PUSH REPAIR CPL NL FITXFIT 1X1	10/40	35.01

American Granby™

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

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NO LEAD Brass Push Fittings

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.



BPBVNL



BPTOOLNL



BPSTIFFNL

Part Number	Description & Size	Ctn Qty	List Price
Ball Valve			
BPBV1/2NL	BRS PUSH BALL VALVE NL FITXFIT 1/2X1/2	10/40	$ **18.99**
BPBV3/4NL	BRS PUSH BALL VALVE NL FITXFIT 3/4X3/4	7/28	**29.07**
BPBV1NL	BRS PUSH BALL VALVE NL FITXFIT 1X1	5/20	**46.46**
Removal Tool			
BPTOOL3/8NL	BRS PUSH REMOVAL TOOL NL 3/8	150/600	**0.17**
BPTOOL1/2NL	BRS PUSH REMOVAL TOOL NL 1/2	150/600	**0.20**
BPTOOL3/4NL	BRS PUSH REMOVAL TOOL NL 3/4	100/400	**0.35**
BPTOOL1NL	BRS PUSH REMOVAL TOOL NL 1	50/200	**0.45**
Stiffener for PEX			
BPSTIFF3/8NL	BRS PUSH PEX STIFFENER NL 3/8	400/1600	**0.35**
BPSTIFF1/2NL	BRS PUSH PEX STIFFENER NL 1/2	400/1600	**0.35**
BPSTIFF3/4NL	BRS PUSH PEX STIFFENER NL 3/4	200/800	**0.50**
BPSTIFF1NL	BRS PUSH PEX STIFFENER NL 1	150/600	**0.70**

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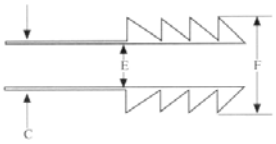
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Nylon Insert Fitting Features:

- White nylon insert fittings
- Meets ASTM-2609
- NSF for potable water

- **DO NOT USE NYLON INSERT FITTINGS FOR COMPRESSED AIR OR GASES.**
- **DO NOT TEST PIPING SYSTEMS WITH NYLON INSERT FITTING WITH COMPRESSED AIR OR GASES.**
- **DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY MANUFACTURER.**
- **MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.**

Insert Diameter Dimensions



MAXIMUM DIAMETERS

SIZE	C	E	F
1/2"	.605	.445	.665
3/4"	.800	.630	.865
1"	1.005	.805	1.095
1 1/4"	1.325	1.105	1.425
1 1/2"	1.565	1.345	1.665
2"	2.020	1.800	2.125

Recommended Installation Procedures:

- Sizes 1/2, 3/4 and 1" - one clamp directly over barbs.
- Sizes 1 1/4" and greater - one clamp directly over barbs PLUS one clamp behind barbs.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



N401 Series



N406 Series



N413 Series



N429 Series



N436 Series

Part Number	Description	Inner/Master Ctn Qty	List Price
N401-005	NYLON INS X INS TEE 1/2"	10/180	$ 2.34
N401-007	NYLON INS X INS TEE 3/4"	10/100	2.78
N401-010	NYLON INS X INS TEE 1"	10/60	4.44
N401-012	NYLON INS X INS TEE 11/4"	5/40	7.59
N401-015	NYLON INS X INS TEE 11/2"	5/30	10.71
N401-020	NYLON INS X INS TEE 2"	5/15	14.48
N406-005	NYLON INS X INS 90 ELBOW 1/2"	10/300	2.00
N406-007	NYLON INS X INS 90 ELBOW 3/4"	10/180	2.29
N406-010	NYLON INS X INS 90 ELBOW 1"	10/100	2.78
N406-012	NYLON INS X INS 90 ELBOW 11/4"	5/60	4.70
N406-015	NYLON INS X INS 90 ELBOW 11/2"	5/40	7.13
N406-020	NYLON INS X INS 90 ELBOW 2"	5/25	9.54
N413-005	NYLON INS X MIPT 90 ELL 1/2"	10/300	3.50
N413-007	NYLON INS X MIPT 90 ELL 3/4"	10/200	4.87
N413-010	NYLON INS X MIPT 90 ELL 1"	10/100	6.85
N413-012	NYLON INS X MIPT 90 ELL 1 1/4"	5/60	9.02
N413-015	NYLON INS X MIPT 90 ELL 11/2"	5/50	13.40
N429-005	NYLON INS X INS COUPLING 1/2"	10/400	1.21
N429-007	NYLON INS X INS COUPLING 3/4"	10/250	1.40
N429-010	NYLON INS X INS COUPLING 1"	10/160	1.88
N429-012	NYLON INS X INS COUPLING 11/4"	10/80	3.39
N429-015	NYLON INS X INS COUPLING 11/2'	5/60	4.56
N429-020	NYLON INS X INS COUPLING 2"	5/40	5.78
N436-005	NYLON INS X MIPT M/A 1/2"	10/400	1.21
N436-007	NYLON INS X MIPT M/A 3/4"	10/250	1.48
N436-010	NYLON INS X MIPT M/A 1"	10/160	1.88
N436-012	NYLON INS X MIPT M/A 11/4"	10/80	3.01
N436-015	NYLON INS X MIPT M/A 11/2"	5/60	4.33
N436-020	NYLON INS X MIPT M/A 2"	5/40	6.79

Insert Fittings - Economy NO LEAD Cast Bronze



ERBMANL



EXLRBMANL



ERBCNL



ERBTNL



ERBENL

Features:

- **Light pattern, NO LEAD** cast bronze insert fittings for use with flexible plastic pipe.
- "E" Series **light pattern, NO LEAD** fittings compete with Merrill.
- **Third party certified to NSF/ANSI 372.**

NSF/ANSI 372

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
NO LEAD Cast Bronze Male Insert Adapters (INS x MIP) (Merrill CRBMANL Series)					
ERBMA1/2NL	1/2" x 1/2"	Hex	6	10/200	$ 6.39
ERBMA3/4NL	3/4" x 3/4"	Hex	6	10/100	7.11
ERBMA1NL	1" x 1"	Hex	7	10/100	13.79
ERBMA1X3/4NL	1" x 3/4"	Hex	5	10/100	10.00
ERBMA11/4NL	1 1/4" x 1 1/4"	Hex	6	10/100	16.96
ERBMA11/4X1NL	1 1/4" x 1"	Hex	7	10/100	16.43
ERBMA1X11/4NL	1" x 11/4"	Hex	6	10/100	16.61
ERBMA11/2NL	1 1/2" x 1 1/2"	Hex	6	5/50	22.30
ERBMA2NL	2" x 2"	Hex	7	5/50	28.61
NO LEAD Cast Bronze Extra Long Male Adapters (INS x MIP) (Merrill RBMANLXL Series)					
EXLRBMA1NL	1" x 1"	Hex	13	10/100	22.00
EXLRBMA11/4NL	1 1/4" x 1 1/4"	Hex	13	10/100	27.73
NO LEAD Cast Bronze Couplings (INS x INS) (Merrill RBCPNL Series)					
ERBC1/2NL	1/2" x 1/2"	Hex	4	10/200	7.54
ERBC3/4NL	3/4" x 3/4"	Hex	4	10/200	9.75
ERBC1NL	1" x 1"	Hex	5	12/120	15.54
ERBC11/4NL	1 1/4" x 1 1/4"	Hex	6	12/72	23.07
ERBC11/2NL	1 1/2" x 1 1/2"	Hex	4	5/50	21.86
ERBC2NL	2" x 2"	Hex	4	5050	31.93
NO LEAD Cast Bronze Tees (INS x INS) (Merrill RBHTNL Series)					
ERBT3/4NL	3/4" x 3/4"		5	10/100	17.71
ERBT1NL	1" x 1"		5	10/100	19.61
ERBT11/4NL	1 1/4" x 1 1/4"		6	5/50	43.21
NO LEAD Cast Bronze Elbows (INS x INS) (Merrill RBHENL Series)					
ERBE3/4NL	3/4" x 3/4"		5	10/100	14.11
ERBE1NL	1" x 1"		5	10/100	17.57
ERBE11/4NL	1 1/4" x 1 1/4"		6	10/50	32.75

Insert Fittings - NO LEAD Cast Bronze

- For use with flexible plastic pipe
- Heavy Pattern, contractor grade NO LEAD cast bronze.
- 20% to 30% heavier fittings than some competitors.
- Third party certified to NSF/ANSI 372.

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

☺ Limited Quantities Available


NLRBMA


NLRRBMA


NLLRBMA


NLXLRBMA


NLRBMUA


NLRBRA


NLRBFA


NLRBC

Part Number	Size	Style	Number of Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Male Insert Adapters (INS x MIP)					
NLRBMA1/2	1/2" x 1/2"	Hex	5	10/200	$ 8.04
NLRBMA3/4	3/4" x 3/4"	Hex	5	10/200	9.79
NLRBMA3/4X1	3/4" x 1"	Hex	6	10/100	12.93
NLRBMA1	1" x 1"	Hex	7	10/100	15.64
NLRRBMA1	1" X 1"	Round	6	10/100	16.92
NLRBMA1X3/4	1" x 3/4"	Hex	5	10/100	12.11
NLRBMA1X11/4	1" x 11/4"	Hex	6	10/100	19.57
NLRBMA11/4	1 1/4" x 1 1/4"	Hex	6	10/100	21.05
NLRBMA11/4X1	1 1/4" x 1"	Hex	7	10/100	20.64
NLRBMA11/2	1 1/2" x 1 1/2"	Hex	6	5/50	25.18
NLRBMA11/2X11/4	11/2" x 1 1/4"	Hex	6	10/100	25.20
NLRBMA2	2" x 2"	Hex	7	5/50	45.86
No Lead Cast Bronze Long Male Adapters (INS x MIP)					
NLLRBMA1 ☺	1" x 1"	Hex	9	10/100	18.70
NLLRBMA1x11/4 ☺	1" x 1 1/4"	Hex	9	10/100	20.70
No Lead Cast Bronze Extra Long Male Adapters (INS x MIP)					
NLXLRBMA1	1" x 1"	Hex	12	10/100	22.57
NLXLRBMA1x11/4	1" x 1 1/4"	Hex	12	10/100	23.86
NLXLRBMA11/4	1 1/4" x 1 1/4"	Hex	12	10/100	30.32
NLXLRBMA2	2" x 2"	Hex	12	5/50	53.39
No Lead Cast Bronze Male Union Adapters (INS x MIP)					
NLRBMUA1	1" x 1"	Hex	6	10/80	28.50
NLRBMUA11/4	1 1/4" x 1 1/4"	Hex	6	10/40	53.75
No Lead Cast Bronze Rope Adapter (INS x MIP)					
NLRBRA1	1" x 1"	Round w/ rope eye	7	10/100	17.93
NLRBRA1X11/4	1" x 1 1/4"	Round w/ rope eye	6	10/100	22.74
NLRBRA11/4	1 1/4" x 1 1/4"	Round w/ rope eye	6	10/100	23.39
No Lead Cast Bronze Female Adapters (INS x FIP)					
NLRBFA1/2	1/2" x 1/2"	Round	5	10/200	11.41
NLRBFA3/4	3/4" x 3/4"	Round	5	10/100	13.23
NLRBFA1	1" x 1"	Round	5	10/100	20.18
NLRBFA11/4	1 1/4" x 1 1/4"	Round	7	10/100	24.39
NLRBFA11/2	1 1/2" x 1 1/2"	Round	6	5/50	30.18
NLRBFA2	2" x 2"	Round	7	5/50	44.82
No Lead Cast Bronze Couplings (INS x INS)					
NLRBC1/2	1/2" x 1/2"	Hex	6	10/200	8.39
NLRBC3/4	3/4" x 3/4"	Hex	6	10/200	11.96
NLRBC3/4X1	3/4" x 1"	Hex	5 x 6	10/100	16.04
NLRBC1	1" x 1"	Hex	5	10/100	16.04
NLRBC1X11/4	1" x 1 1/4"	Hex	6	10/100	24.82
NLRBC11/4	1 1/4" x 1 1/4"	Hex	6	10/100	25.64
NLRBC11/2	1 1/2" x 1 1/2"	Hex	6	5/50	25.36
NLRBC2	2" x 2"	Hex	6	5/50	37.68

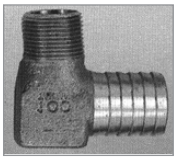
Insert Fittings - NO LEAD Cast Bronze

- For use with flexible plastic pipe
- **Heavy Pattern,** contractor grade **NO LEAD** cast bronze.
- Third party certified to NSF/ANSI 372.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



NLXLRBC



NLRBHE



NLRBFE



NLRBE



NLRBHT



NLRBT



NLRBFT

Part Number	Size	Number of Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Extra Long Couplings (INS x INS)				
NLXLRBC1	1" x 1"Hex	12	10/100	$ 26.11
NLXLRBC11/4	1 1/4" x 1 1/4"Hex	12	5/50	40.89
NLXLRBC2	2" x 2"Hex	12	5/25	67.82
No Lead Cast Bronze Hydrant Elbow (INS x MIP)				
NLRBHE3/4	3/4" x 3/4"	5	10/100	13.75
NLRBHE1x3/4	1" x 3/4"	5	10/100	16.43
NLRBHE1	1" x 1"	5	10/100	19.14
NLRBHE11/4X1	1 1/4" x 1"	6	5/50	34.71
NLRBHE11/4	1 1/4" x 1 1/4"	6	5/50	32.32
No Lead Cast Bronze Extra Long Hydrant Elbows (INS x MIP)				
NLXLRBHE1	1" x 1"	8	10/100	23.39
NLXLRBHE1X3/4	1" x 3/4"	10	10/100	23.04
No Lead Cast Bronze Combination Elbows (INS x FIP)				
NLRBFE1	1" x 1"	8	5/50	27.25
NLRBFE1x11/4	1" x 1 1/4"	8	5/50	33.43
NLRBFE11/4	1 1/4" x 1 1/4"	6	5/50	31.18
No Lead Cast Bronze Elbows	**(INS x INS)**			
NLRBE3/4	3/4" x 3/4"	5	10/200	14.86
NLRBE1	1" x 1"	6	10/100	19.54
NLRBE1X11/4	1"x 1 1/4"	6	10/50	35.21
NLRBE11/4	1 1/4" x 1 1/4"	6	10/50	33.93
No Lead Cast Bronze Hydrant Tees (INS x MIP)				
NLRBHT3/4	3/4" x 3/4"	6	10/100	20.54
NLRBHT1X3/4	1" x 3/4"	6	10/100	24.25
NLRBHT1	1" x 1"	6	10/100	27.68
No Lead Cast Bronze Tees (INS x INS)				
NLRBT3/4	3/4" x 3/4"	5	10/100	19.68
NLRBT1	1" x 1"	5	10/100	20.43
NLRBT11/4	1 1/4" x 1 1/4"	6	5/50	44.46
No Lead Cast Brass Combination Tees (INS x FPT)				
NLRBFT3/4	3/4" x 3/4"	6	10/100	25.93
NLRBFT1	1" x 1"	6	6/60	32.66
NLRBFT1X1X3/4	1" x 1" x 3/4"	6	6/60	**33.18**
NLRBFT11/4	1 1/4" x 1 1/4"	6	4/40	54.61

American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

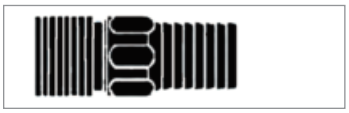
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Insert Fittings - Steel, Zinc Plated

- For use with flexible poly pipe
- Made in North America.
- IMAS Imported
- Made from Sch 40 C.W. steel pipe, zinc plated.

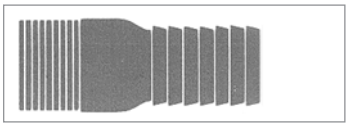
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

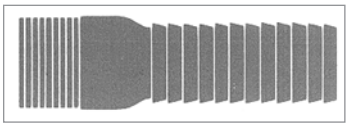


S12 Series

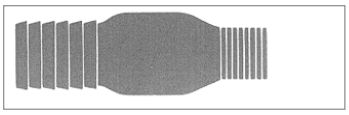
* NO wrench-grip shoulder



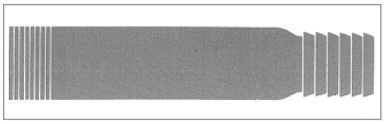
IMAS Series



XS12, IMAS–XL



S74, IMAS



S86

☺ Limited Quantities Available

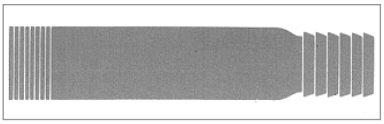
Part Number	Size	Ctn/Case Qty	List Price
Male Adapter, mipt x ins			
S12-1/2	1/2"	25	$ 5.86
S12-3/4	3/4”	25	5.98
S12-1	1”	20	7.64
S12-11/4	1-1/4”	20	9.84
S12-11/2	1-1/2”	10	12.15
S12-2	2”	10	17.55
S12-21/2 *	2-1/2”	BULK	49.59
S12-3 *	3”	BULK	67.42
S12-4 *	4”	BULK	108.33
Male Adapter, mipt x ins IMPORTED			
IMAS50	1/2"	50/300	**2.33**
IMAS75	3/4"	50/200	**3.14**
IMAS100	1"	25/200	**4.16**
IMAS125	1 1/4"	12/108	**5.83**
IMAS150	1 1/2"	6/90	**7.25**
IMAS200	2"	5/60	**11.83**
IMAS250	2 1/2”	2/10	**27.43**
IMAS300	3”	2/10	**41.77**
IMAS400	4”	2/10	**66.00**
Extra Long Male Adapter, mipt x ins			
XS12-1	1”	25	14.85
XS12-11/4	1-1/4”	25	20.07
Extra Long Male Adapter, mipt x ins IMPORTED			
IMAS100XL	1”	10/120	**6.09**
IMAS125XL	1 1/4”	10/80	**9.88**
Reducing Male Adapter, ins x mipt			
S74-1X3/4	1" x 3/4”	25	15.24
Reducing Male Adapter, ins x mipt IMPORTED			
IMAS7550	3/4” x 1/2”	250	**5.59**
IMAS1075	1” x 3/4”	250	**6.07**
Venturi Adapter, mipt x ins			
S86-3/4X12	3/4 x 12”	25	28.65
S86-1X6	1" x 6"	25	17.58
S86-1X8	1" x 8"	25	21.76

Insert Fittings - Steel, Zinc Plated

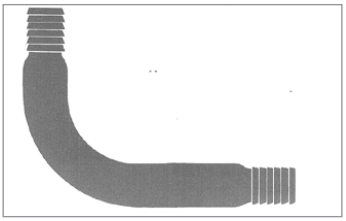
- For use with flexible poly pipe
- Made in North America.
- ISVMA, ISWSE, IFAS, ICS - Imported
- Made from Sch 40 C.W. steel pipe, zinc plated.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T



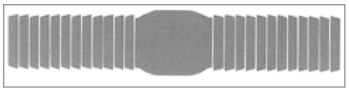
ISVMA



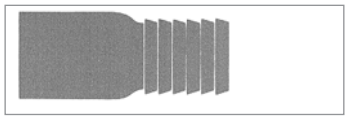
ISWSE



S10, ICS



ICS–XL



IFAS

☺ Limited Quantities Available

Part Number	Size	Ctn/Case Qty	List Price
Venturi Adapter, mipt x ins IMPORTED			
ISVMA1X6	1" x 6"	60	$ 7.10
ISVMA1X8	1" x 8"	50	8.33
ISVMA1X10	1" x 10"	40	12.51
ISVMA11/4X6	1-1/4" x 6"	50	9.01
ISVMA11/4X8	1-1/4" x 8"	40	10.97
ISVMA11/4X10	1-1/4" x 10"	30	15.64
Well Seal Elbow, ins x ins IMPORTED			
ISWSE100	1”	BULK	19.86
ISWSE125	1-1/4”	BULK	26.91
Coupling, ins x ins			
S10-3/4	3/4”	25	6.25
S10-1	1”	20	8.25
S10-11/4	1-1/4”	20	11.38
S10-11/2	1-1/2”	10	13.50
S10-2	2”	10	24.88
Coupling, ins x ins IMPORTED			
ICS50	1/2"	50/300	2.02
ICS75	3/4"	50/200	2.82
ICS100	1"	25/200	3.74
ICS125	1 1/4"	20/120	6.75
ICS150	1 1/2"	10/60	8.70
ICS200	2"	10/60	11.70
ICS250	2 1/2”	2/10	27.48
ICS300	3”	2/10	41.45
ICS400	4”	2/10	40.43
Extra Long Coupling, ins x ins IMPORTED			
ICS100XL	1”	10/120	4.91
ICS125XL	1-1/4”	10/80	11.13
Female Adapter, fipt x ins IMPORTED			
IFAS75	3/4”	25/150	6.46
IFAS100	1”	125	6.65
IFAS125	1 1/4”	100	13.88
IFAS150	1 1/2”	10/60	14.06

American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Stainless Steel Insert Fittings Features:

- Cast from Grade 304 Stainless Steel.
- For use with flexible poly pipe.



SSMA Series



XLSSMA Series



SSC Series



SST



SSE Series



SSHE Series



SSHT Series

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
Cast 304 Stainless Steel Male Insert Adapters (MIP xINS)					
SSMA1/2	1/2"	Hex	7	10/100	$ 12.51
SSMA3/4	3/4"	Hex	7	10/200	13.70
SSMA3/4X1	3/4" X 1"	Hex	6	10/200	16.87
SSMA1	1"	Hex	7	10/100	21.73
SSMA11/4	1 1/4"	Hex	7	10/100	24.76
SSMA11/4X1	1 1/4" x 1"	Hex	7	10/100	23.21
SSMA11/2	1 1/2"	Hex	7	5/80	36.64
SSMA2	2"	Hex	7	5/40	54.89
Cast 304 Stainless Steel Heavy Pattern Extra Long Male Adapters (MIPxINS)					
XLSSMA1	1" x 1"	Hex	13	10/100	28.34
XLSSMA11/4X1	1 1/4" x 1"	Hex	13	5/50	33.25
XLSSMA11/4	1 1/4" x 11/4"	Hex	13	5/50	33.91
Cast 304 Stainless Steel Coupling (INS x INS)					
SSC1/2	1/2" x 1/2"	Hex	6	10/200	11.59
SSC3/4	3/4" x 3/4"	Hex	6	10/200	14.10
SSC1	1" x 1"	Hex	5	10/100	18.61
SSC11/4	11/4" x 11/4"	Hex	5	10/100	29.64
SSC11/2	11/2" x 11/2"	Hex	8	10/50	36.40
SSC2	2" x 2"	Hex	8	5/50	49.03
Cast 304 Stainless Steel Tee (INS x INS x INS)					
SST3/4	3/4" x 3/4"		5	5/50	21.41
SST1	1" x 1"		5	10/100	35.22
SST1x3/4	1" x 3/4"			10/100	**26.75**
SST11/4	1 1/4" x 1 1/4"		5	10/100	46.86
Cast 304 Stainless Steel Elbow (INSxINS)					
SSE3/4	3/4" x 3/4"			10/100	**14.89**
SSE1	1" x 1"		5	10/100	31.01
SSE1X11/4	1" X 1 1/4"			10/50	**32.07**
SSE11/4	1 1/4" x 1 1/4"		7	5/50	41.28
Cast 304 Stainless Steel Hydrant Elbow (INSxMIP)					
SSHE3/4	3/4"x 3/4"		5	10/100	20.94
SSHE1X3/4	1" x 3/4"		5	10/100	23.21
SSHE1	1" x 1"		5	10/100	31.01
SSHE11/4	1 1/4" x 1 1/4"		6	10/50	40.38
Cast 304 Stainless Steel Hydrant Tee (INS x MIP)					
SSHT3/4	3/4" x 3/4"		4	10/100	24.32
SSHT1x3/4	1" x 3/4"		6	10/100	30.41
SSHT1	1" x 1"		4	10/100	33.25

Insert Fittings - Swaged Stainless Steel

Swaged Stainless Steel Insert Fittings

Features:

- For use with flexible poly pipe.
- Third party certified to NSF/ANSI 372

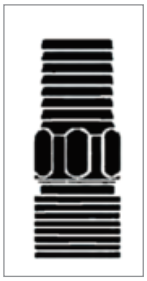
LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

☺ Limited Quantities Available



IMASS Series



SS12 Series

* NO wrench-grip shoulder



SS38 Series

Part Number	Size	Style	# Barbs	Ctn/Case Qty	List Price
Swaged 304 Stainless Steel Male Adapter (MIP x INS)					
IMASS50	1/2"	Round	6	25/200	$ 8.44
IMASS75	3/4"	Round	6	25/150	8.70
IMASS100	1"	Round	7	20/120	14.13
IMASS125	1 1/4"	Round	7	20/80	17.51
IMASS125100	1 1/4 X 1"	Round	7	20/80	19.41
IMASS150	1 1/2"	Round	9	10/60	23.88
IMASS200	2"	Round	9	10/40	33.91
Swaged 316 Stainless Steel Male Insert Adapters (MIPxINS) Made in USA					
SS12-1/2*	1/2"	Round	6	25/300	$ 9.44
SS12-3/4	3/4"	Hex	7	25/200	11.15
SS12-1	1"	Hex	7	20/160	22.95
SS12-11/4	1-1/4"	Hex	6	20/120	28.50
SS12-11/2	1-1/2"	Hex	6	10/60	34.68
Swaged 316 Stainless Steel Male Reducing Adapter (MIP x INS) Made in USA					
SS38-11/4x1	1-1/4 x 1"	Round	7	25/100	26.77
Swaged 316 Stainless Steel Extra Long Male Adapter (MIP x INS) Made in USA					
XSS12-1	1"	Round	14	25	25.11
XSS12-11/4	1 1/4"	Round	14	25	35.89



ICSS Series



SS10 Series

Part Number	Size	Style	# Barbs	Ctn/Case Qty	List Price
Swaged 304 Stainless Steel Coupling (INS x INS)					
ICSS50	1/2"	Round	6	25/200	$ 6.83
ICSS75	3/4"	Round	6	25/150	7.67
ICSS100	1"	Round	7	20/120	14.95
ICSS125	1 1/4"	Round	7	20/80	17.19
ICSS150	1 1/2"	Round	9	10/60	26.56
ICSS200	2"	Round	9	10/40	38.16
Swaged 316 Stainless Steel Coupling (INS x INS) Made in USA					
SS10-1	1"	Round	7	20	19.48
Swaged 316 Stainless Steel Extra Long Coupling (INS x INS) Made in USA					
XSS10-1	1"	Round	14	25	58.90

American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



YB00NL

No Lead Yellow Brass Solder Adapter

Features:

- For use with flexible poly pipe
- Third party certified to NSF/ANSI 372.

Part Number	Size	Ctn/Case Qty	List Price
NO LEAD Yellow Brass Solder Adapters, ins x solder			
YB00NL3/4	3/4”	10/200	$ 7.36
YB00NL1 *	1”	10/200	10.07

* Use as 1” male or 3/4” female sweat fitting.

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Insert Fittings - Red Brass

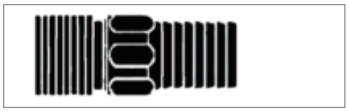
- For use with flexible poly pipe
- Made in North America
- B and XB Series ANSI/NSF61
- IMAB Imported
- Made from 85% copper alloy seamless brass pipe with 0.05% lead.

ANSI/NSF Standard 61
Drinking Water System Components

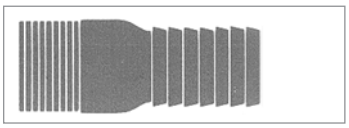
NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

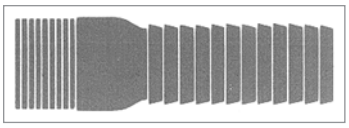
☺ Limited Quantities Available



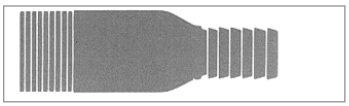
B12 Series



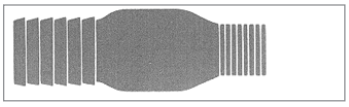
IMAB Series



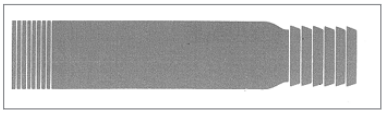
XB12, IMAB—XL



B38



B74



B86

Part Number	Size	Ctn/Case Qty	List Price
Male Adapter, mipt x ins			
B12-1/2	1/2”	25/300	$ 13.64
B12-3/4	3/4”	25/200	17.22
B12-1	1”	20/160	21.79
B12-11/4	1-1/4”	20/120	39.58
B12-11/2	1-1/2”	10/60	48.27
B12-2	2”	10/40	63.91
Male Adapter, mipt x ins IMPORTED			
IMAB50	1/2"	50/300	**12.70**
IMAB75	3/4"	50/200	**18.26**
IMAB100	1"	25/100	**16.99**
IMAB125	1 1/4"	20/80	**41.16**
IMAB150	1 1/2"	10/60	**56.06**
IMAB200	2"	10/60	**73.85**
IMAB250	2 1/2”	2/10	**160.78**
IMAB300	3”	2/10	**226.65**
IMAB400	4”	2/10	**386.30**
Extra Long Adapter, mipt x ins			
XB12-1	1”	25/100	40.34
XB12-11/4	1-1/4”	25/50	60.28
Extra Long Adapter, mipt x ins IMPORTED			
IMAB100XL	1”	10/120	**37.94**
IMAB125XL	1-1/4”	10/80	**45.39**
Reducing Male Adapter, mipt x ins			
B38-11/4X1	1-1/4” x 1"	25/100	84.12
Reducing Male Adapter, ins x red. mipt			
B74-1X3/4	1" x 3/4"	25/200	29.55
B74-11/4X1	1-1/4" x 1"	25/100	39.17
Venturi Adapter, ins x mipt			
B86-1X6	1" x 6"	25/100	47.65

Insert Fittings - Red Brass

- For use with flexible plastic pipe
- Made in North America
- B and XB Series ANSI/NSF61
- IMAB, ICB Imported
- Made from 85% copper alloy

seamless brass pipe with 0.05% lead.

ANSI/NSF Standard 61
Drinking Water System Components

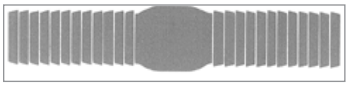
LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

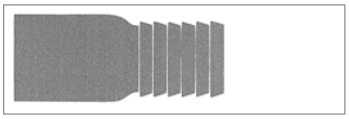
☺ Limited Quantities Available



B10, ICB



XB10, ICB–XL



B90

Part Number	Size	Ctn/Case Qty	List Price
Coupling, ins x ins			
B10-1/2	1/2”	25/300	18.56
B10-3/4	3/4”	25/300	20.93
B10-1	1”	20/160	31.19
B10-11/4	1-1/4”	20/120	47.72
B10-11/2	1-1/2”	10/60	56.64
B10-2	2”	10/40	88.41
Coupling, ins x ins IMPORTED			
ICB50	1/2"	50/300	**8.08**
ICB75	3/4"	50/200	**12.96**
ICB100	1"	25/100	**20.53**
ICB125	1 1/4"	20/80	**32.07**
ICB150	1 1/2"	10/60	**51.97**
ICB200	2"	10/60	**62.20**
ICB250	2 1/2”	2/10	**80.76**
ICB300	3”	2/10	**187.21**
ICB400	4”	2/10	**192.94**
Extra Long Coupling, ins x ins			
XB10-1	1”	25/100	58.63
Extra Long Coupling, ins x ins IMPORTED			
ICB100XL	1”	10/120	**34.24**
ICB125XL	1-1/4”	10/80	**29.23**
Female Adapter, fipt x ins			
B90-3/4	3/4”	25/200	32.66
B90-1	1”	20/160	43.18
B90-11/4	1-1/4”	20/120	63.12

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PLASTIC THREAD INSTALLATION TIPS & QUICK REFERENCE GUIDE

LASCO Fittings, Inc.

Excerpts from LASCO Fittings, Inc. "Threads Installation Tips & Quick Reference Guide". For full text go to lascofittings.com

THE "DO'S AND DON'TS" OF ASSEMBLING THREADED PLASTIC FITTINGS

Today, there are millions of miles of plastic piping with threaded fittings, providing reliable, leak-free service. However, a tiny percentage of those threaded plastic fittings may leak or break. The reason for this is improper assembly of threaded joints.

Here are some of the Do's and Don'ts of PVC joint assembly:

- Don't over-tighten joints by giving them"one more turn to be sure. Do finger tighten plus one or two turns - No More.
- Don't wrap PTFE tape or PTFE paste or pipe dope to add bulk to or to lubricate the joint. Do use a sealant for threaded joints.
- Don't use"stronger"Schedule 80 threaded fittings on the assumption that they may solve the problem of splitting through over-tightening.
- Do use only Schedule 40 threaded fittings with Schedule 40 pipe and fittings.

On threaded male PVC fittings each successive thread is slightly larger in diameter than the one before it. Female threads get successively smaller. This is called taper and the amount of taper is specified (1¾ degrees) in the American National Standard B2.1. All pipe manufacturers voluntarily follow these standards to assure their customers they are receiving quality materials.

Because the threads are tapered, additional turns cause the female part to stretch or undergo"strain." This will split the female fitting just as a wedge, driven by a sledgehammer, will split a tree stump.

The amount of strain increases as the size of the pipe decreases. Therefore it is easier to split smaller diameter threaded joints than larger ones. It is also easier to over-torque smaller diameter fittings because their resistance to torque is less.

The right way to assemble a threaded PVC joint-Schedule 40 or 80 is finger tight plus one to two turns-no more.

LEAK-FREE JOINTS

Since sealant or tapes that contain PTFE reduce the friction, they will mask the loads and stress being applied during the tightening sequence. Because of the clearance between the root or valley and the peaks of the mating threads, there is a small spiral leak path that extends the length of the threaded connection. This leak path must be sealed, and this is the reason for thread sealant. The lubricating qualities of thread sealants can cloak the resistance the installer expects when tightening a joint. This leads to over tightening to get the"feel"of being leak free, while exerting the excessive stress of wedging the male and female components together.

The procedure to make leak free joints that will not cause split fittings is simple! Make-up the joint to finger-tight, not hand tight, then tighten 1 to 2 more turns. This method will provide a joint that is leak tight without causing excessive stress within the connection. It is important to realize that pipe thread sealant, especially those made with PTFE, lubricate the threads and mislead the installer to believe the joint is not tight.

LASCO Fittings, Inc.

DON'T USE PTFE TAPE, PTFE PASTE OR PIPE DOPE. DO USE A SEALANT.

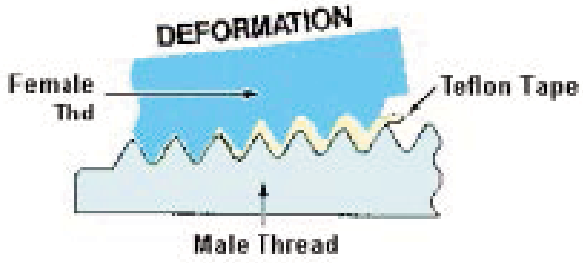
PTFE tape, PTFE paste and pipe dope is intended for metal pipe and fittings. Metal to metal fitting joints are more difficult to tighten than plastic; the surfaces tend to gall without the aid of such lubricants as PTFE or pipe dope. Plastic fittings do not need this lubrication.

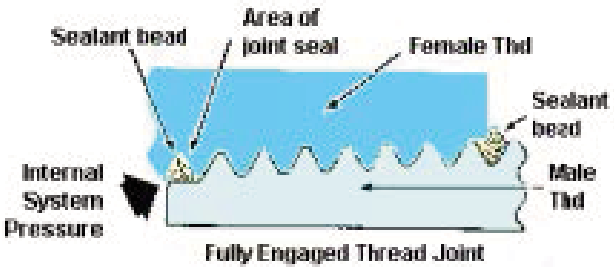
When PTFE tape is wrapped around plastic male threads it adds to the strain and tensile stress. The tendency of most installers is to incorrectly wrap several thicknesses of tape around the male threads, increasing stain and stress further.

PTFE paste and pipe dope, just like PTFE tape, make threaded joints slippery. Their use on PVC fittings can be an invitation to over-torque.

When working with threaded plastic fittings do use a proper sealant. The right sealant for threaded joints is non-hardening, compatible with plastic and does not add slipperiness.

A non-hardening compound is forced by water pressure into potential points of leakage, thereby performing a true sealing function. Tapes and hardening pastes permit a leak path to develop when a joint is backed off, mechanically flexed, or expands with rising temperatures.





A sealing compound must be compatible to plastics. Many brands of pipe sealant contain oils, solvents or carriers that can damage plastic. A proper sealant must be certified by the manufacturer to be harmless to the fitting material and to not contaminate fluid in the pipe.

Finally, a sealing compound must not lubricate the joint to the point that over-tightening is encouraged. Several sealants on the market meet all these requirements.

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PV79, PV69 Series

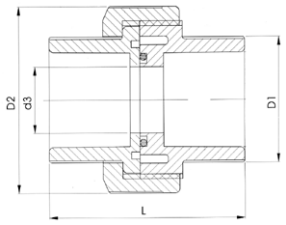
ISO 9002

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

PVC Sch 80 Union Features:

- Ideal for swimming pool, spa and plumbing installations.
- EPDM O-Ring seal.
- Working pressure: 150 PSI at 72ºF, 100 PSI at 120ºF.
- Meets ASTM standards for Schedule 80 construction.
- Manufactured for AGI in an ISO 9002 facility.
- NSF listed.
- Available white or gray.
- Imported.

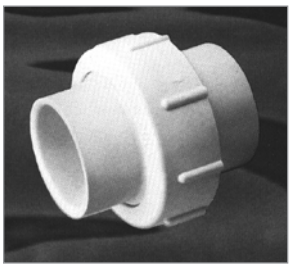


DIMENSIONS (IN.)	SIZE	d3	D1	D2	L
	1/2”	.51	1.21	1.80	2.11
	3/4”	.71	1.45	2.15	2.42
	1”	.92	1.76	2.58	2.69
	1 1/4”	1.17	2.11	3.20	3.32
	1 1/2”	1.52	2.54	3.83	3.40
	2”	1.92	3.05	4.68	3.71
	3”	2.84	3.52	6.10	4.96
	4”	3.94	4.52	8.86	6.30

MATERIAL SPECIFICATIONS	
Body	PVC
End Connector	PVC
Union Nut	PVC
O-Ring	EPDM

Part Number			IPS Size	Ctn Qty	List Price		
SCHEDULE 80 - WHITE					**PV797**	**PV798**	**PV799**
SLIP X SLIP	**FIPT X FIPT**	**SLIP X FIPT**			**SXS**	**TXT**	**SXT**
PV797-1/2	PV798-1/2		1/2”	36	$ **3.66**	$ **3.83**	
PV797-3/4	PV798-3/4		3/4”	24/144	**4.82**	**5.00**	
PV797-1	PV798-1		1”	12/96	**6.19**	**6.62**	
PV797-11/4	PV798-11/4		1 1/4”	12/96	**11.02**	**11.60**	
PV797-11/2	PV798-11/2	PV799-11/2	1 1/2”	8/64	**13.92**	**14.48**	$ **14.17**
PV797-2	PV798-2	PV799-2	2”	4/48	**19.37**	**20.37**	**20.24**
SCHEDULE 80 - GRAY					**PV697**	**PV698**	
slip x slip	**FIPT x FIPT**				**SxS**	**TXT**	
PV697-1/2	PV698-1/2		1/2”	36/288	$ **3.66**	$ **3.86**	
PV697-3/4	PV698-3/4		3/4”	24/144	**4.83**	**5.10**	
PV697-1	PV698-1		1”	12/96	**6.19**	**6.75**	
PV697-11/4	PV698-11/4		1 1/4”	12/96	**11.02**	**11.45**	
PV697-11/2	PV698-11/2		1 1/2”	8/64	**13.92**	**14.76**	
PV697-2	PV698-2		2”	4/48	**19.74**	**20.75**	
PV697-3	PV698-3		3”	2/12	39.95	41.31	
PV697-4			4”	1/4	88.67		
Replacement O-Ring for PV797, PV798, PV799, PV697, PV698							
PV796-1/2		1/2”		1	$ 0.35		
PV796-3/4		3/4”		1	0.35		
PV796-1		1”		1	0.42		
PV796-11/4		1 1/4”		1	0.42		
PV796-11/2		1 1/2”		1	0.70		
PV796-2		2”		1	0.70		

Union, PVC Sch 40



1600 Series

NO LEAD
LEAD-FREE

Part Number	IPS Size	Ctn Qty	List Price
SCHEDULE 40 - MADE IN USA			
SLIP X SLIP			
1600-15	1 1/2" Socket both ends, 2" spigot one end	24	$ 20.69
1600-20	2" Socket both ends, 2 1/2" spigot one end	20	28.62



SNR Series

Part Number	Description	Ctn Qty	List Price
UNION REPAIR SPLIT NUT			
SNR150	1 1/2" FBT Repair Split Nut w/ Screw	125	$ 5.52
SNR200	2" FBT REpair Split Nut w/ Screw	100	6.08

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

CPVC CTS Plastic Fitting Features:

- For CPVC copper tube size 1/2" and 3/4".
- For hot and cold water service.
- Meets ASTM-D-2846.
- NSF Approved.
- Rated 100 PSI at 180ºF, 400 psi at 73ºF.
- 14NSF Standard 61

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



2429 Series



2406 Series



2410 Series



2415 Series



2424 Series



2417 Series



2423 Series



2401 Series

Part Number	Size	Description	Ctn Qty	List Price
CPVC Coupling				
2429-005	1/2"	s x s	25/500	$ 0.46
2429-007	3/4"	s x s	25/250	0.58
2429-010	1"	s x s	10/100	2.58
2429-101	3/4 x 1/2"	s x s	25/250	1.07
2429-131	1" x 3/4"	s x s	10/100	3.22
2413-007	3/4 x 3/4"	pvc slip x cpvc slip	25/250	2.07
2413-010	1" x 1"	pvc slip x cpvc slip	25/100	3.91
CPVC 90º Elbow				
2406-005	1/2"	s x s	50/500	0.53
2406-007	3/4"	s x s	25/250	0.87
2406-010	1"	s x s	10/100	2.54
2406-101	3/4 x 1/2"	s x s	25/250	2.00
CPVC 90º Street Elbow				
2410-005	1/2"	ms x fs	25/500	0.66
2410-007	3/4"	ms x fs	25/250	1.03
2410-010	1"	ms x fs	10/100	4.70
CPVC Drop Ear Elbow				
2415-005	1/2"	s x s	25/250	1.66
2424-005	1/2"	s x ft	25/250	2.43
CPVC 45º Elbow				
2417-005	1/2"	s x s	50/500	0.71
2417-007	3/4"	s x s	25/250	1.22
2417-010	1"	s x s	10/100	2.94
CPVC 45º Street Elbow				
2423-005	1/2"	s x s	25	1.42
2423-007	3/4"	s x s	25	2.01
2423-010	1"	s x s	10	5.76
CPVC Tee				
2401-005	1/2"	s x s x s	50/500	0.71
2401-007	3/4"	s x s x s	25/250	1.27
2401-010	1"	s x s x s	10/100	6.64
2401-094	3/4 x 1/2 x 1/2	s x s x s	25/250	1.31
2401-095	3/4 x 1/2 x 3/4	s x s x s	25/250	1.79
2401-101	3/4 x 3/4 x 1/2	s x s x s	25/250	1.38
2401-125	1" x 3/4" x 3/4"	s x s x s	1/25	8.06
2401-126	1" x 3/4" x 1"	s x s x s	1/25	11.81
2401-130	1" x 1" x 1/2"	s x s x s	1/25	7.55
2401-131	1" x 1" x 3/4"	s x s x s	10/100	7.20

CPVC Plastic Fittings - CTS

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372


2436 Series


2435 Series


2437 Series


2447 Series


2438 Series


2439 Series


2492 Series


2457 Series

Part Number	Size	Description	Ctn Qty	List Price
CPVC Male Adapter				
2436-005	1/2"	s x mipt	25/250	$ **0.58**
2436-007	3/4"	s x mipt	25/250	**0.98**
2436-010	1"	s x mipt	10/100	**4.41**
CPVC Female Adapter				
2435-005	1/2"	s x fipt	25/250	1.53
2435-007	3/4"	s x fipt	25/250	2.17
2435-010	1"	s x fipt	10/100	2.47
CPVC Reducing Bushing				
2437-101	3/4 x 1/2"	spigot x s	25/250	**0.69**
2437-130	1" x 1/2"	spigot x s	10/100	**2.27**
2437-131	1" x 3/4"	spigot x s	10/100	**2.27**
CPVC Cap				
2447-005	1/2"	slip	25/500	**0.48**
2447-007	3/4"	slip	25/250	**0.64**
2447-010	1"	slip	10/100	**2.33**
CPVC to Brass Transition Fittings				
2438-005	1/2 x 1/2"	cpvc x fipt	10/50	**17.04**
2439-005	1/2 x 1/2	cpvc x mipt	10/50	**17.04**
2439-010	1" x 1"	cpvc x mipt	25	**56.09**
Tubing Straps				
2492-005	1/2"		100/1000	0.55
2492-007	3/4"		100/1000	0.55
CPVC Union				
2457-005	1/2"	slip	10/50	5.01
2457-007	3/4"	slip	10/50	6.68

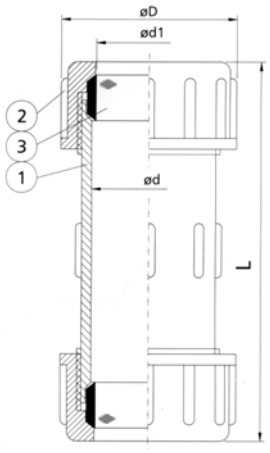
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NO LEAD
LEAD-FREE

PVC Compressing Coupling Features:

- Iron Pipe Size (PVC), Copper Tube Size (CPVC)
- For use with cold water (PVC) or hot water (CPVC-CTS)
- Natural rubber gasket seals
- Rated at 200 psi at 70°F
- Imported



"PC" Series IPS DIMENSIONS (IN.)

SIZE	D	d	d1	L
1/2"	1.85	.91	.83	5.24
3/4"	2.09	1.18	1.04	5.32
1"	2.40	1.42	1.31	5.75
1 1/4"	2.87	1.81	1.65	6.30
1 1/2"	3.15	2.05	1.89	6.89
2"	3.62	2.56	2.37	7.87
2 1/2"	4.53	2.52	2.87	9.92
3"	5.28	3.62	3.49	10.87
4"	6.34	4.65	4.49	11.93
6"	8.78	6.85	6.62	11.22

"HW" Series CTS DIMENSIONS (IN.)

1/2"	1.30	.71	.63	4.49
3/4"	1.85	.95	.88	5.00

MATERIAL SPECIFICATIONS

#	Part	Material
1	Body	UPVC, CPVC
2	Compression Nut	UPVC, CPVC
3	Gasket - PVC	NR
	Gasket - CPVC	EPDM

Part Number	Material	Size	Case Qty	List Price
PC10-1/2	PVC	1/2" IPS	100	$ **2.67**
PC10-3/4	PVC	3/4" IPS	90	2.50
PC10-1	PVC	1" IPS	60	3.25
PC10-11/4	PVC	1 1/4" IPS	40	3.71
PC10-11/2	PVC	1 1/2" IPS	30	5.11
PC10-2	PVC	2" IPS	20	6.96
PC10-21/2	PVC	2 1/2" IPS	10	16.43
PC10-3	PVC	3" IPS	4	24.46
PC10-4	PVC	4" IPS	2	33.14
PC10-6	PVC	6" IPS	2	60.54
HW10CTS1/2	CPVC	1/2" CTS	20/360	4.48
HW10CTS3/4	CPVC	3/4" CTS	20/240	5.42



SW Series

Part Number	For Use with Coupling Sizes	Ctn Qty	List Price
Adjustable Strap Wrench			
SW400	1/2" through 4"	10/60	$ 20.39
SW600	1/2" through 6"	10/60	23.18

Compression Fittings, Galvanized

Galvanized Long Pattern Compression Fitting Features:

- Bodies made of steel tubing (GC10), malleable iron (GC10C)
- End nuts made of malleable iron.
- Galvanized finish
- Buna-N gaskets on domestic fittings.
- SBR gaskets on GC10C series.
- Maximum rated service temperature for gaskets: 212°F (100° C).
- GC10C manufactured for AGI in an ISO9002 facility.

WARNING: Designer and/or contractor must provide suitable anchoring of piping to prevent pull-out from fittings when applications subject piping to external forces such as ground shift and temperature variations that cause linear pipe contraction.

Recommended Maximum Pressure(PSI)

Size	Torque Ft. Lbs	Anchored Piping
1/2"	150	150
3/4"	150	150
1"	225	100
1-1/4"	225	100
1-1/2"	225	100
2"	300	75



GC10C Series

ISO 9002

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Coupling GC10C - Long Pattern - Imported - Malleable Iron, 125 PSI, 120° F

Part Number	Size	Pipe O.D.	Ctn/Case Qty	List Price
GC10C1/2	1/2"	.840	30 / 60	$ 19.60
GC10C3/4	3/4"	1.050	25 / 50	21.96
GC10C1	1"	1.315	15 / 30	25.75
GC10C11/4	1-1/4"	1.660	12 / 24	32.72
GC10C11/2	1-1/2"	1.900	9 / 18	38.76
GC10C2	2"	2.375	14	57.97



GC10 Series

Coupling GC10 - Made in U.S.A. - Steel Tube

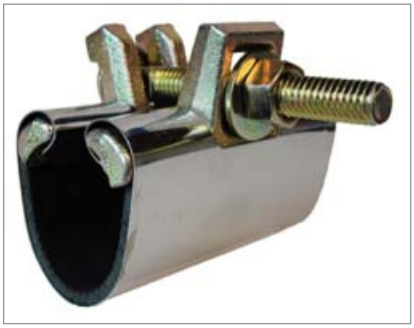
Part Number	Size	Pipe O.D.	Ctn Qty	List Price
GC10-1/2	1/2"	.840	12	$ 32.60
GC10-3/4	3/4"	1.050	12	35.55
GC10-1	1"	1.315	12	41.97
GC10-11/4	1-1/4"	1.660	6	56.05
GC10-11/2	1-1/2"	1.900	6	61.91
GC10-2	2"	2.375	6	77.81



GC12 Series

Adapters GC12 - Made in U.S.A. - Steel Tube

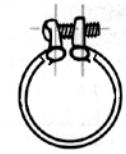
Part Number	Size	Pipe O.D.	Ctn Qty	List Price
GC12-1/2	1/2"	.840	12	$ 45.92
GC12-3/4	3/4"	1.050	12	46.23
GC12-1	1"	1.315	12	48.67
GC12-11/4	1-1/4"	1.660	6	57.86
GC12-11/2	1-1/2"	1.900	6	80.45
GC12-2	2"	2.375	6	80.60



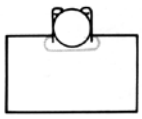
Repair Clamp Features:

- Pipe repair clamps eliminate the need for costly pipe replacement for simple leaks.
- Non-corrosive clamp band is made of annealed stainless steel.
- Nuts and bolts are cadmium plated with a chromate finish; heavy duty hex nut with washer.
- Lugs are made of annealed, malleable iron for maximum strength and permanence; iron phosphate finish.
- Neoprene gasket with maximum rated service temperature of 212° F (100°C).
- Imported

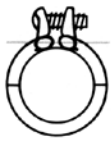
NO LEAD
< 0.25% Pb
by weighted
average



Straight through bolt pull on lugs gives more uniform pressure on the band, more pressure on pipe with less torque on nut.



Oval lug opening in band won't tear - no corners to rip out as with square hole.



Lugs above pipe level don't pull into pipe. Gives more tension on band - more sealing power yet won't crush pipe.



Band covers lead edge of lug. Equal pressure across entire band. No friction - no cutting into pipe surface by raw edge of band opening.

Part Number	Nominal Pipe Size	IPS Pipe O.D.	CTS Tube O.D.	Ctn Qty	List Price
3" Wide, 1 Bolt					
HRC3-3/8	3/8"	.675	.625	6/72	$ 7.40
HRC3-1/2	1/2"	.840	.875	6/72	7.40
HRC3-3/4	3/4"	1.050	1.125	6/72	7.62
HRC3-1	1"	1.315	1.375	6/72	7.97
HRC3-11/4	1 1/4"	1.660	1.625	6/72	9.47
HRC3-11/2	1 1/2"	1.900		6/72	9.73
HRC3-2	2"	2.375		6/72	11.05
HRC3-21/2	2 1/2"	2.875		6/48	11.37
HRC3-3	3"	3.50		6/48	12.73
HRC3-4	4"	4.50		6/24	14.29
6" Wide, 2 Bolts					
HRC6-1/2	1/2"	.840	.875	6/56	13.85
HRC6-3/4	3/4"	1.050	1.125	6/56	14.25
HRC6-1	1"	1.315	1.375	6/56	14.50
HRC6-11/4	1 1/4"	1.660	1.625	6/56	15.68
HRC6-11/2	1 1/2"	1.900		6/56	17.62
HRC6-2	2"	2.375		6/56	19.77
HRC6-21/2	2 1/2"	2.875		6/24	21.28
HRC6-3	3"	3.50		6/24	22.44
HRC6-4	4"	4.50		6/24	24.03

Couplings, Caps - Flexible & No-Hub



Coupling, Cap Features:

- Flexible couplings for joining all types of sewer pipe, including transitions from one type to another.
- NO-HUB couplings for joining cast iron pipe sections
- End Caps for capping cast iron, steel, PVC and ABS pipe.
- 300 Series stainless steel clamps
- Meets IAPMO File #0317, BOCA ESI RR#90-68, SBCCI PST&ESI Report #9483B
- CSA Approved



C Series



MR Series



MRTC Series



07 Series

Part Number	Size	Connection	Ctn Qty	List Price
NO HUB COUPLINGS				
C150C	1 1/2 X 1 1/2	CI X CI	100	$ 11.37
C200C	2 X 2	CI X CI	100	11.37
C300C	3 X 3	CI X CI	100	13.63
C400C	4 X 4	CI X CI	100	16.04
FLEXIBLE COUPLINGS				
MR0244	4 X 4	CLAY X CI/PL	18	14.23
MR56125	1 1/2" Tubing, Copper or 1 1/4" PL to Same		24	7.31
MR5615	1 1/2 x 1 1/2	CI/PL X CI/PL	24	7.83
MR5622/125	2 x 1 1/4	CI/PL x CI/PL	24	8.12
MR56215	2 X 1 1/2	CI/PL X CI/PL	24	8.93
MR5622	2 X 2	CI/PL X CI/PL	24	8.44
MR56315	3 x 1 1/2	CI/PL x CI/PL	24	14.92
MR5632	3 X 2	CI/PL X CI/PL	24	10.54
MR5633	3 X 3	CI/PL X CI/PL	18	11.39
MR5642	4 x 2	CI/PL x CI/PL	18	19.88
MR5643	4 X 3	CI/PL X CI/PL	18	15.37
MR5644	4 X 4	CI/PL X CI/PL	24	14.28
MR5655	5 X 5	CI/PL X CI/PL	14	24.14
MR5664	6 x 4	CI/PL x CI/PL	10	35.88
MR5666	6 X 6	CI/PL X CI/PL	12	30.54
DRAIN PIPING TO TUBULAR TRAP *				
MRTC150	1 1/4" x 1 1/2"		24	4.99
MRDTC150	1 1/4" or 1 1/2" x 1 1/4" or 1 1/2"		24	6.11
MRDTC215	2" x 1 1/4" or 1 1/2"		24	8.06
* Any combination of 1 1/4" or 1 1/2" tubular drain (plastic, tubular or copper)				
END CAPS				
0701-011	1 1/2"		24	4.37
0702-019	2"		24	5.14
0703-017	3"		24	6.50
0704-015	4"		24	8.31
0705-020	5"		20	11.13
0706-028	6"		12	11.46

American Granby

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

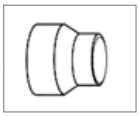
Sewer & Drain Fitting Features:

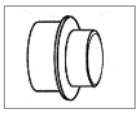
- All fittings are white, solvent weld.
- Manufactured from superior raw material in the USA to meet and/or exceed the following specifications:
  High impact polystyrene fittings ASTM D2852.
  PVC solvent weld sewer fittings ASTM D3034, SDR35.

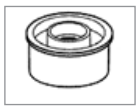
☺ Limited Quantities Available





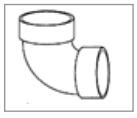




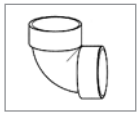


AGV1031





Long Turn



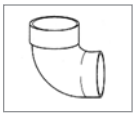
Short Turn

Part Number	Material	Size	Ctn Qty	List Price
COUPLINGS		**h x h**		
AGV103	PVC	3”	50	$ 3.76
AGV104	PVC	4”	50	4.56
AGV1043	PVC	4 x 3”	40	7.16
AGV106	PVC	6”	24	16.82
AGV1064	PVC	6 x 4”	24	22.61
COUPLINGS		**h x h pvc dwv x sch 40**		
AGD104	PVC	4”	40	8.57
COUPLINGS		**h x h dwv x sewer**		
AGV2043	PVC	3x4”	40	8.50
AGV2044	PVC	4x4”	25	11.24
AGV2046	PVC	4x6”	24	27.62
AGV2066	PVC	6x6”	12	37.39
BUSHINGS		**s&d spg x h**		
AGV1143	PVC	4x3” Flush	25	8.57
AGV2064	PVC	6x4” Extended	24	22.29
AGV2664	PVC	6x4” spg x dwv	12	27.79
BUSHINGS		**s & d x dwv spg x h / spg x fipt**		
AGV1031	PVC	3 x 1-1/2” Flush	25	10.56
AGV1041	PVC	4 x 1 1/2” Flush	25	14.05
AGV1042	PVC	4 x 2” Flush	25	14.05
BUSHINGS		**adapter sleeve dwv spg x fem s&d**		
AGV3033	PVC	3 x 3”	25	8.81
AGV3044	PVC	4 x 4”	25	8.81
90° 1/4 BEND		**h x h**		
AGV303	PVC	3” Long turn	25	7.36
AGV304	PVC	4” Long turn	36	7.80
AGV3303	PVC	3” Short turn	25	5.95
AGV3304	PVC	4” Short turn	25	7.48
AGV306	PVC	6” short turn	12	25.33
AGV366	PVC	6” Long turn	8	45.49

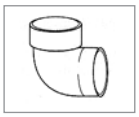
Sewer & Drain Fittings

☺ Limited Quantities Available

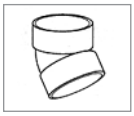
NORMANDY PRODUCTS COMPANY
Plastic S&D Fittings



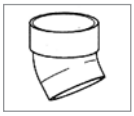
Long Turn



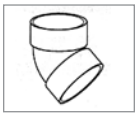
Short Turn



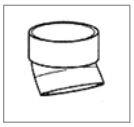
AGV503



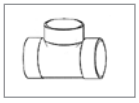
AGV603



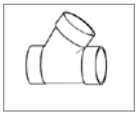
AGV703



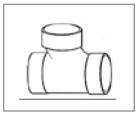
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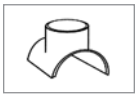
AGV803



AGV903



AGV1103



AGV1204

Part Number	Material	Size	Ctn Qty	List Price
90° 1/4 BEND STREET ELL		**h x spg**		
AGV403	PVC	3" long turn	25	$ 8.57
AGV404	PVC	4" long turn	36	9.65
AGV3403	PVC	3" short turn	25	9.36
AGV3404	PVC	4" short turn	25	9.96
AGV406	PVC	6" short turn	12	37.43
45° 1/8 BEND		**h x h**		
AGV503	PVC	3"	30	5.05
AGV504	PVC	4"	60	5.25
AGV506	PVC	6"	18	25.77
45° 1/8 BEND STREET ELL		**h x spg**		
AGV603	PVC	3"	30	5.95
AGV604	PVC	4"	60	6.13
AGV606	PVC	6"	18	28.57
22 1/2° 1/16 BEND		**h x h**		
AGV703	PVC	3"	25	7.03
AGV704	PVC	4"	30	7.80
AGV706	PVC	6"	20	28.09
22 1/2° 1/16 BEND STREET ELL		**h x spg**		
AGV713	PVC	3"	25	7.80
AGV714	PVC	4"	30	8.28
AGV716	PVC	6"	20	31.19
TEE		**h x h x h**		
AGV803	PVC	3"	30	6.70
AGV804	PVC	4"	30	8.91
AGV806	PVC	6"	8	37.43
AGV8064	PVC	6x4"	8	34.30
45° WYE		**h x h x h**		
AGV903	PVC	3"	25	10.77
AGV904	PVC	4"	24	12.96
AGV906	PVC	6"	6	53.02
AGV9064	PVC	6x4"	8	43.65
SANITARY TEE		**h x h x h**		
AGV1103	PVC	3"	24	9.07
AGV1104	PVC	4"	25	12.34
AGV1106	PVC	6"	6	77.98
SADDLE TEE		**pipe & hub**		
AGV1204	PVC	4 x 1-1/2"	25	15.57

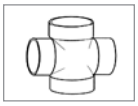
American Granby™

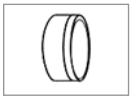
www.americangranby.com

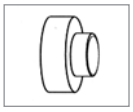
In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

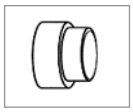
NORMANDY PRODUCTS COMPANY
Plastic S&D Fittings

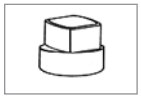
☺ Limited Quantities Available

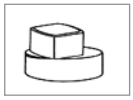

AGV1304


AGV1403

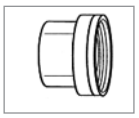

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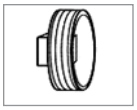

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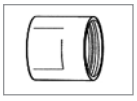

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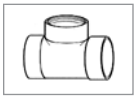

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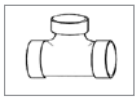

AGV1803


AGV1903


AGV2203


AGV2103


AGV8804


AGV2204

Part Number	Material	Size	Ctn Qty	List Price
CROSS		**h x h x h x h**		
AGV1304	PVC	4”	24	**24.18**
CAP		**h**		
AGV1403	PVC	3”	30	**3.16**
AGV1404	PVC	4”	30	**3.63**
AGV1406	PVC	6”	30	**14.85**
ADAPTER		**h x clay pipe spg/ h x ci pipe spg**		
AGV1504	PVC	4” h x clay pipe spg	24	**21.83**
AGV1604	PVC	4” h x c.i. pipe spg	24	**21.83**
DOWNSPOUT ADAPTER		**ds x h**		
AGV1703	PVC	2x3x3”	50	**7.48**
AGV1704	PVC	2x3x4”	50	**7.03**
AGV1705	PVC	3x4x4”	25	**7.97**
AGV1706	PVC	4x6x6”	15	**40.53**
AGV1714	PVC	2x3x4 offset	25	**7.03**
AGV1715	PVC	3x4x4 offset	25	**9.87**
DRAIN GRATE		**spg**		
AGV1803	PVC	3”	50	**4.35**
AGV1804	PVC	4”	40	**5.47**
AGV1806	PVC	6”	30	**24.18**
FITTING CLEANOUT				
AGV1903	PVC	3”	40	**7.03**
AGV1904	PVC	4”	20	**7.03**
AGV1906	PVC	6”	24	**34.30**
THREADED PLUG				
AGV2003	PVC	3”	50	**4.21**
AGV2004	PVC	4”	50	**4.35**
AGV2006	PVC	6”	24	**21.69**
FEMALE ADAPTER				
AGV2103	PVC	3”	24	**9.36**
AGV2104	PVC	4”	24	**9.08**
AGV2106	PVC	6”	24	**34.19**
CLEANOUT TEE		**h x t x h**		
AGV8804	PVC	4”	30	**21.83**
TWO WAY CLEANOUT TEE				
AGV2204	PVC	4”	10	**25.46**

DrainGate

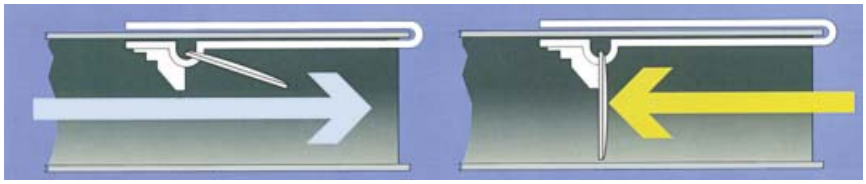
NORMANDY PRODUCTS COMPANY
Plastic S&D Fittings



Drain Gate Features:

- High impact plastic gate and one way hinge allows water to flow out.
- Keeps pests and debris from clogging pipes.
- Fits 4” or 6” pipe.
- Easy to install.
- Fits sewer and drain pipe, corrugated pipe, DWV & Sch 40 pipe.
- Kit contains bracket arm, drain gate and stainless steel screw.
- Packed one per plastic bag with directions.
- Master packed in point of purchase counter display.





The “one-way” DrainGate swings open to allow the free flow of water.

The “one-way” design prevents gate from swinging in the opposite direction.

Part Number	Pipe Size	Display Ctn Qty	List Price
DG04	4”	20	$ 12.14
DG06	6”	12	15.19



American Granby™

www.americangranby.com
In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Single Wall Corrugated Fitting Features:

- Black HDPE.
- Conforms to ASTM F405.

NORMANDY PRODUCTS COMPANY
Plastic S&D Fittings



C104



C204



C1043



C44



C304



C804



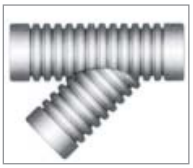
C8064



C816



C8164



C904

Part Number	Size	Configuration	Ctn Qty	List Price
EXTERNAL SNAP COUPLING				
C103	3”	H x H	24	$ 3.39
C104	4”	H X H	20	3.41
C106	6”	H X H	8	7.98
INTERNAL COUPLING				
C203	3”	Insert x Insert	30	4.33
C204	4”	Insert x Insert	25	4.50
C206	6”	Insert x Insert	8	8.96
REDUCER COUPLING-OFFSET				
C1043	4” x 3”	H X H	20	5.69
C1064	6” x 4”	H X H	8	9.10
CORRUGATED TO RIGID ADAPTER				
C33	3”	H x H	24	3.93
C44	4”	H X H	24	3.93
Corrugated hub x rigid SPG & insert adapts corrugated tube to rigid pipe or fitting.				
90° ELBOW - 1/4 BEND				
C303	3”	H x H	15	9.67
C304	4”	H X H	12	11.70
C306	6”	H x H	4	18.55
STRAIGHT TEE				
C803	3”	H X H X H	12	7.51
C804	4”	H X H X H	12	9.41
C806	6”	H X H X H	4	20.94
REDUCING TEE				
C8064	6” X 4”	H X H X H	3	21.52
Cut off 4” socket to make 5” socket.				
BLIND TEE (Serves as a 6” 90° elbow)				
C816	6”	H X H	3	20.94
REDUCING BLIND TEE (Serves as a 90° elbow)				
C8164	6” X 4”	H X H	3	30.75
Cut off 4” socket to make 5” socket.				
WYE				
C903	3”	H x H X H	10	10.84
C904	4”	H X H X H	8	15.98
C906	6”	H x H x H	4	24.42
REDUCING WYE				
C9064	6” X 4”	H x H X H	4	25.15

Single Wall Corrugated Fittings

NORMANDY PRODUCTS COMPANY
Plastic S&D Fittings

Single Wall Corrugated Fitting Features:

- Black HDPE.
- Conforms to ASTM F405.



C1404



C1704

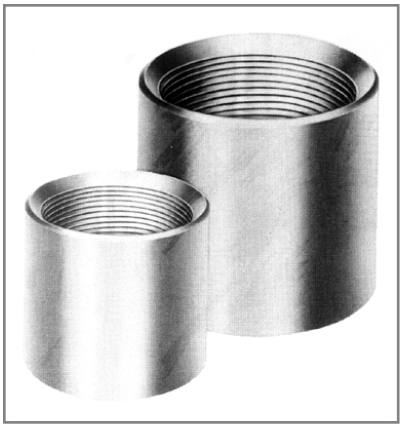
Part Number	Size	Configuration	Ctn Qty	List Price
CAP CORRUGATED HUB				
C1403	3”	H X H	20	**2.95**
C1404	4”	H X H	30	**5.90**
C1406	6”	H X H	10	**11.18**
DOWNSPOUT ADAPTER				
C1703	2” x 3” x 3”	DS X Corr Insert	15	**5.75**
C1704	2” x 3” x 4”	DS X Corr Insert	18	**7.75**
C1705	3” x 4” x 4”	DS X Corr Insert	15	**7.75**
C1706	4” x 6’ x 6”	DS X Corr Insert	2	**25.74**

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204



BSMC/GSMC Series

Merchant Coupling Features:

- Manufactured to American Iron and Steel Institute specifications.
- Manufactured in accordance with ASTM-A865.
- Deep chamfer permits easy assembly.
- Sizes thru 2” are straight tapped; sizes 2-1/2” thru 6” are taper tapped.
- Imported.
- Third party certified to NSF/ANSI 372.

Part Number	Pipe Size	Ctn Qty	List Price
Black Steel			
BSMC1/8	1/8”	100 / 1200	$ 0.73
BSMC1/4	1/4”	100 / 800	0.92
BSMC3/8	3/8”	100 / 400	1.00
BSMC1/2	1/2”	50 / 200	1.08
BSMC3/4	3/4”	50 / 200	1.51
BSMC1	1”	48	2.23
BSMC11/4	1-1/4”	48	2.70
BSMC11/2	1-1/2”	20 / 80	5.12
BSMC2	2”	10 / 40	4.77
BSMC21/2	2-1/2”	30	13.40
BSMC3	3”	15	20.91
BSMC4	4”	10	28.41
BSMC6	6”	3	76.00
Galvanized Steel			
GSMC1/8	1/8”	100 / 1200	0.74
GSMC1/4	1/4”	100 / 800	0.97
GSMC3/8	3/8”	100 / 400	1.05
GSMC1/2	1/2”	50 / 200	1.16
GSMC3/4	3/4”	50 / 200	1.58
GSMC1	1”	48	2.35
GSMC11/4	1-1/4”	48	2.97
GSMC11/2	1-1/2”	20 / 80	3.82
GSMC2	2”	10 / 40	5.36
GSMC21/2	2-1/2”	30	15.25
GSMC3	3”	15	23.87
GSMC4	4”	10	32.38
GSMC6	6”	3	86.09

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

No Lead Threaded Bronze 125 lb. CHINA

- Dimensions: ANSI B16.15 125S fittings, ANSI B16.24 150S flanges
- Threads: ANSI/ASME B1.20.1
- Material: ASTM B584(C84400)
- Material: ASTM B584(C89833 NO LEAD)

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



Size	CHINA - NO LEAD (Certified) Part Number	Ctn Qty	List Price
90 ° Elbow, fipt x fipt			
1/8”	NLB90L1/8	50/600	$ 5.53
1/4”	NLB90L1/4	35/420	5.53
3/8”	NLB90L3/8	90/360	5.53
1/2”	NLB90L1/2	50/200	8.41
3/4”	NLB90L3/4	35/105	11.56
1”	NLB90L1	20/60	17.81
1 1/4”	NLB90L11/4	20/40	28.34
1 1/2”	NLB90L11/2	15/30	41.46
2”	NLB90L2	8/16	57.57
2 1/2”	NLB90L21/2	1/12	112.95
3”	NLB90L3	1/8	173.30
4”	NLB90L4	2	409.53



90 ° Elbow, Reducer fipt x fipt			
1/2 x 3/8”	NLB90L1/2X3/8	60/240	9.10
3/4 x 1/2”	NLB90L3/4X1/2	40/160	12.38
1 x 1/2”	NLB90L1X1/2	50/100	21.73
1 x 3/4”	NLB90L1X3/4	50/100	21.73
1 1/4 x 1”	NLB90L11/4X1	10/40	33.96



45° Elbows, fipt x fipt			
1/8”	NLB45L1/8	50/600	6.07
1/4”	NLB45L1/4	30/360	6.07
3/8”	NLB45L3/8	75/300	6.07
1/2”	NLB45L1/2	20/200	7.69
3/4”	NLB45L3/4	40/120	11.33
1”	NLB45L1	20/60	19.11
1 1/4”	NLB45L11/4	20/40	30.56
1 1/2”	NLB45L11/2	10/30	38.28
2”	NLB45L2	12/24	62.07
2 1/2”	NLB45L21/2	12	121.60
3”	NLB45L3	10	195.46
4”	NLB45L4	2/4	534.28



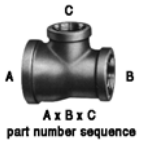
90 ° Street Elbow, fipt x mipt			
1/8”	NLB90SL1/8	60/720	8.41
1/4“	NLB90SL1/4	35/420	8.41
3/8”	NLB90SL3/8	60/240	8.41
1/2”	NLB90SL1/2	60/180	10.44
3/4”	NLB90SL3/4	35/105	14.75
1”	NLB90SL1	45/90	24.38
1 1/4”	NLB90SL11/4	25/50	37.33
1 1/2”	NLB90SL11/2	9/27	48.62
2”	NLB90SL2	8/16	82.45
2 1/2”	NLB90SL21/2	5/10	130.33
3”	NLB90SL3	1/8	195.46
4”	NLB90SL4	4	701.26



Size	CHINA - NO LEAD (Certified) Part Number	Ctn Qty	List Price
45° Street Elbows, fipt x mipt			
1/8”	NLB45SL1/8	70/840	$ 8.57
1/4”	NLB45SL1/4	40/480	8.57
3/8”	NLB45SL3/8	100/400	8.57
1/2”	NLB45SL1/2	75/225	10.44
3/4”	NLB45SL3/4	40/120	14.75
1”	NLB45SL1	25/75	24.38
1 1/4”	NLB45SL11/4	10/40	37.33
1 1/2”	NLB45SL11/2	10/30	50.12
2”	NLB45SL2	12/24	84.96



Tee, fipt x fipt x fipt			
1/8”	NLBT1/8	120/480	7.69
1/4”	NLBT1/4	75/300	7.69
3/8”	NLBT3/8	45/180	7.69
1/2”	NLBT1/2	40/120	9.67
3/4”	NLBT3/4	35/70	14.20
1”	NLBT1	20/40	25.22
1 1/4”	NLBT11/4	14/28	35.39
1 1/2”	NLBT11/2	12/24	48.64
2”	NLBT2	8/16	79.75
2 1/2”	NLBT21/2	4/8	151.93
3’	NLBT3	6/6	232.33
4”	NLBT4	2	558.39



Tee, Reducer fipt x fipt x fipt			
3/4x3/4x1/2	NLBT3/4X1/2	20/80	16.67
3/4x1/2x3/4	NLBT3/4X1/2X3/4	20/80	16.67
3/4x3/4x1/4	NLBT3/4X3/4X1/4	25/100	16.67
3/4x3/4x1”	NLBT3/4X1	40/80	33.18
1 x 1 x 1/4”	NLBT1X1/4	20/80	30.46
1 x 1 x 1/2”	NLBT1X1/2	15/60	30.46
1 x 1 x 3/4”	NLBT1X3/4	12/48	30.46
1 x 3/4 x 3/4	NLBT1X3/4X3/4	12/60	33.18
1 x 3/4 x 1”	NLBT1X3/4X1	30/60	33.18
11/4x11/4x3/4	NLBT11/4X3/4	20/40	42.87
11/4x11/4x1	NLBT11/4X1	20/40	42.87
11/2x11/2x3/4	NLBT11/2X3/4	15/30	51.99
11/2x11/2x1	NLBT11/2X1	10/30	51.99
11/2x11/2x11/4	NLBT11/2X11/4	12/24	51.99
2 x 2 x 3/4”	NLBT2X3/4	10/20	96.51
2 x 2 x 1”	NLBT2X1	10/20	96.51
2 x 2 x 1 1/4”	NLBT2X11/4	8/16	96.51
2 x 2 x 1 1/2”	NLBT2X11/2	8/16	96.51

No Lead Threaded Bronze Fittings

No Lead Threaded Bronze 125 lb. CHINA

- Dimensions: ANSI B16.15 125S fittings, ANSI B16.24 150S flanges
- Threads: ANSI/ASME B1.20.1
- Material: ASTM B584(C84400)
- Material: ASTM B584(C89833 NO LEAD)

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



Size	CHINA - NO LEAD (Certified) Part Number	Ctn Qty	List Price
	Cross, fipt		
1/8”	NLBCR1/8	30/360	**12.84**
1/4”	NLBCR1/4	60/240	**12.84**
3/8”	NLBCR3/8	50/150	**12.84**
1/2”	NLBCR1/2	30/90	**15.61**
3/4”	NLBCR3/4	20/60	**22.54**
1”	NLBCR1	15/30	**35.74**
1 1/4”	NLBCR11/4	10/20	**55.95**
1 1/2”	NLBCR11/2	8/16	**71.50**
2”	NLBCR2	5/10	**148.99**
	Couplings, fipt x fipt		
1/8“	NLBC1/8	70/840	**5.53**
1/4”	NLBC1/4	40/480	**5.53**
3/8”	NLBC3/8	40/480	**5.53**
1/2”	NLBC1/2	60/240	**6.94**
3/4”	NLBC3/4	50/150	**9.16**
1”	NLBC1	25/100	**14.20**
1 1/4”	NLBC11/4	16/64	**21.73**
1 1/2”	NLBC11/2	18/36	**29.54**
2”	NLBC2	12/24	**48.62**
2 1/2”	NLBC21/2	8/16	**80.49**
3”	NLBC3	12	**135.35**
4”	NLBC4	3/6	**214.10**
	Couplings, Reducer fipt x fipt		
1/4 x1/8”	NLBC1/4X1/8	50/600	**5.92**
3/8 x 1/8”	NLBC3/8X1/8	35/420	**5.92**
3/8 x 1/4”	NLBC3/8X1/4	30/360	**5.92**
1/2 X 1/8”	NLBC1/2X1/8	75/300	**8.57**
1/2 x 1/4”	NLBC1/2X1/4	75/300	**7.40**
1/2 x 3/8”	NLBC1/2X3/8	60/240	**7.40**
3/4 x 1/4”	NLBC3/4X1/4	45/180	**12.22**
3/4” X 3/8”	NLBC3/4X3/8	45/180	**11.01**
3/4 x 1/2”	NLBC3/4X1/2	60/180	**11.01**
1 X 3/8”	NLBC1X3/8	30/120	**20.63**
1 x 1/2”	NLBC1X1/2	30/120	**18.31**
1 x 3/4”	NLBC1X3/4	25/100	**18.31**
1 1/4 x 1/2”	NLBC11/4X1/2	25/75	**35.07**
1 1/4 x 3/4”	NLBC11/4X3/4	25/75	**29.54**
1 1/4 x 1”	NLBC11/4X1	15/60	**29.54**
1 1/2 X 1/2”	NLBC11/2X1/2	20/60	**42.03**
1 1/2 x 3/4”	NLBC11/2X3/4	15/60	**42.03**
1 1/2 x 1”	NLBC11/2X1	25/50	**37.33**
11/2x11/4”	NLBC11/2X11/4	12/48	**37.33**
2 x 1/2”	NLBC2X1/2	12/36	**62.50**
2 x 3/4”	NLBC2X3/4	12/36	**62.50**
2 x 1”	NLBC2X1	12/36	**62.50**
2 x 1 1/4”	NLBC2X11/4	9/27	**55.47**
2 x 1 1/2”	NLBC2X11/2	9/27	**55.47**
3 x 2”	NLBC3X2	6/12	**130.24**

Case quantities required please for fittings through 2”



Size	CHINA - NO LEAD (Certified) Part Number	Ctn Qty	List Price
	Bushing, mipt x fipt		
1/4 x 1/8”	NLBB1/4X1/8	120/1440	**4.38**
3/8x 1/8”	NLBB3/8X1/8	75/900	**4.38**
3/8 x 1/4”	NLBB3/8X1/4	75/900	**4.38**
1/2 x 1/8”	NLBB1/2X1/8	150/600	**5.23**
1/2 x 1/4”	NLBB1/2X1/4	150/600	**4.38**
1/2 x 3/8”	NLBB1/2X3/8	150/600	**4.38**
3/4 x 1/8”	NLBB3/4X1/8	75/300	**7.32**
3/4 x 1/4”	NLBB3/4X1/4	75/300	**7.32**
3/4 x 3/8”	NLBB3/4X3/8	75/300	**6.07**
3/4 x 1/2”	NLBB3/4X1/2	75/300	**6.07**
1 x 1/4”	NLBB1X1/4	50/200	**11.12**
1 X 3/8”	NLBB1X3/8	50/200	**11.12**
1 x 1/2”	NLBB1X1/2	50/200	**9.16**
1 x 3/4”	NLBB1X3/4	50/200	**9.19**
1 1/4 x 1/4”	NLBB11/4X1/4	30/120	**18.83**
1 1/4 x 3/8”	NLBB11/4X3/8	30/120	**18.83**
1 1/4 x 1/2”	NLBB11/4X1/2	30/120	**18.83**
1 1/4 x 3/4”	NLBB11/4X3/4	30/120	**15.61**
1 1/4 x 1”	NLBB11/4X1	30/120	**15.61**
1 1/2 x 1/2”	NLBB11/2X1/2	25/75	**24.38**
1 1/2 x 3/4”	NLBB11/2X3/4	25/75	**24.38**
1 1/2 x 1”	NLBB11/2X1	25/75	**19.95**
11/2x11/4”	NLBB11/2X11/4	25/75	**19.95**
2 X 1/2”	NLBB2X1/2	20/60	**35.58**
2 x 3/4”	NLBB2X3/4	20/60	**35.58**
2 x 1”	NLBB2X1	20/60	**35.58**
2 x 1-1/4”	NLBB2X11/4	20/30	**29.54**
2 x 1-1/2”	NLBB2X11/2	20/30	**29.54**
21/2 x 1	NLBB21/2X1	15/30	**73.29**
21/2 x 11/4”	NLBB21/2X11/4	15/30	**73.29**
21/2 x 11/2”	NLBB21/2X11/2	15/30	**59.07**
21/2 x 2”	NLBB21/2X2	15/30	**59.07**
3 x 1”	NLBB3X1	12/24	**98.58**
3 x 2”	NLBB3X2	12/24	**89.34**
	Caps, fipt		
1/8”	NLBCP1/8	120/1440	**4.15**
1/4”	NLBCP1/4	80/960	**4.15**
3/8”	NLBCP3/8	60/720	**4.15**
1/2”	NLBCP1/2	75/300	**5.53**
3/4”	NLBCP3/4	40/160	**7.32**
1”	NLBCP1	25/100	**11.44**
1 1/4”	NLBCP11/4	20/80	**17.40**
1 1/2”	NLBCP11/2	18/54	**23.49**
2”	NLBCP2	12/36	**39.87**
2 1/2”	NLBCP21/2	20/40	**75.96**
3”	NLBCP3	24	**121.10**
4”	NLBCP4	12	**232.80**

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

No Lead Threaded Bronze 125 lb. CHINA

- Dimensions: ANSI B16.15 125S fittings, ANSI B16.24 150S flanges
- Threads: ANSI/ASME B1.20.1
- Material: ASTM B584(C84400)
- Material: ASTM B584(C89833 NO LEAD)

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372







Size	CHINA - NO LEAD (Certified) Part Number	Ctn Qty	List Price
	Lock Nut		
1/8”	NLBLN1/8	250/3000	**1.52**
1/4”	NLBLN1/4	125/1500	**2.75**
3/8”	NLBLN3/8	125/1500	**2.75**
1/2”	NLBLN1/2	150/600	**4.38**
3/4”	NLBLN3/4	90/360	**5.23**
1”	NLBLN1	60/240	**7.79**
1 1/4”	NLBLN11/4	45/180	**12.71**
1 1/2”	NLBLN11/2	45/135	**16.47**
2”	NLBLN2	25/75	**26.16**
	Square Head Plug, mipt		
1/8”	NLBP1/8	300/3600	**3.66**
1/4”	NLBP1/4	150/1800	**3.66**
3/8”	NLBP3/8	100/1200	**3.66**
1/2”	NLBP1/2	50/600	**5.79**
3/4”	NLBP3/4	30/360	**6.61**
1”	NLBP1	20/240	**8.72**
1 1/4”	NLBP11/4	40/120	**13.00**
1 1/2”	NLBP11/2	30/90	**16.57**
2”	NLBP2	20/60	**26.12**
2 1/2”	NLBP21/2	16/32	**44.72**
3”	NLBP3	16/32	**71.50**
4”	NLBP4	12	**139.65**
	Threaded Union, fipt x fipt		
1/8”	NLBU1/8	60/240	**19.61**
1/4”	NLBU1/4	20/240	**19.61**
3/8”	NLBU3/8	40/160	**19.61**
1/2”	NLBU1/2	50/100	**21.31**
3/4”	NLBU3/4	35/70	**29.54**
1”	NLBU1	20/40	**39.12**
1 1/4”	NLBU11/4	15/30	**57.31**
1 1/2”	NLBU11/2	10/20	**67.64**
2”	NLBU2	6/12	**104.10**
2 1/2”	NLBU21/2	4/8	**204.84**
3”	NLBU3	4/8	**316.50**
4”	NLBU4	4	**698.09**

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Malleable Iron Fittings - Imported

Imported Malleable Iron Fitting Features:

- Class 150 malleable iron pipe fittings
- Suitable for water, steam, air, gas and oil
- All fittings are air pressure tested
- Working pressure: Max: 300 psi @ -20°F to 150°F. , Min 150 psi @ 350°F
- Made in China
- Tensile Strength: Min 48000 psi (330 MPa)
- Elongation: Min 8%
- Hardness: Max HB150

Specifications:

Material:	ANSI/ASTM A197
Dimensions:	ANSI B.16.3 fittings
	ASME/ANSI B.16.39 unions
Threads:	ASME/ANSI B.1.20.1

ISO 9002

All class 150 imported malleable iron pipe fittings are manufactured under a quality control program complying with CSA B-51 speccifications.
Canadian Registration Number OA5312.5C
Galvanized ONLY: Third party certified to NSF/ANSI 372.



BIM90L/GIM90L Series



BIM90L/GIM90L Reducer Series

U - UL Approval
F - FM Approval

BLACK

NO LEAD ✓ LEAD-FREE

Size	Inner/Master Ctn Qty	List Price
90° ELBOW fiptxfipt		
BIM90L1/8	50/600	$ 3.53
BIM90L1/4	35/420	3.37
BIM90L3/8	45/270	3.37
BIM90L1/2 UF	50/200	2.52
BIM90L3/4 UF	30/90	3.04
BIM90L1 UF	20/60	5.37
BIM90L11/4 UF	20/40	8.71
BIM90L11/2 UF	10/20	11.48
BIM90L2 UF	8/16	19.69
BIM90L21/2 UF	1/15	42.76
BIM90L3 UF	1/10	63.76
BIM90L4 UF	1/5	135.65
90° ELBOW REDUCER fiptxfipt		
BIM90L3/8X1/8	60/360	7.66
BIM90L3/8X1/4	60/360	4.86
BIM90L1/4X1/8	60/360	6.61
BIM90L1/2X1/8	40/240	4.75
BIM90L1/2X1/4 UF	40/240	4.75
BIM90L1/2x3/8 UF	50/200	4.63
BIM90L3/4x1/2	40/120	4.82
BIM90L3/4X1/4 UF	50/150	6.34
BIM90L3/4X3/8 UF	50/150	6.34
BIM90L1X1/4 UF	30/90	10.00
BIM90L1x1/2	30/90	6.15
BIM90L1X3/8 UF	30/90	10.00
BIM90L1X3/4 UF	30/90	6.15
BIM90L11/4X1/2 UF	30/60	13.25
BIM90L11/4x1 UF	20/40	9.99
BIM90L11/4X3/4 UF	30/60	11.33
BIM90L11/2x1 UF	20/40	16.36
BIM90L11/2x11/4 UF	15/30	16.36
BIM90L2x1 UF	14/28	23.61
BIM90L2x11/4 UF	10/20	23.61
BIM90L2x11/2 UF	10/20	20.75
BIM90L21/2X3/4 F	9/18	57.90
BIM90L21/2X1 F	1/16	57.90
BIM90L21/2X11/4 F	1/15	57.90
BIM90L21/2X11/2 UF	1/15	57.90
BIM90L21/2X2 UF	1/15	56.90
BIM90L3X2 UF	1/10	91.96

GALVANIZED

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Size	Inner/Master Ctn Qty	List Price
90° ELBOW fiptxfipt		
GIM90L1/8	50/600	$ 4.86
GIM90L1/4	35/420	4.65
GIM90L3/8	45/270	4.65
GIM90L1/2 UF	50/200	3.04
GIM90L3/4 UF	30/90	3.67
GIM90L1 UF	20/60	6.91
GIM90L11/4 UF	20/40	10.63
GIM90L11/2 UF	10/20	14.02
GIM90L2 UF	8/16	23.38
GIM90L21/2 UF	1/15	58.24
GIM90L3 UF	1/10	97.88
GIM90L4 UF	1/5	169.43
90° ELBOW REDUCER fiptxfipt		
GIM90L3/8X1/8	60/360	6.98
GIM90L3/8X1/4	60/360	6.98
GIM90L1/4X1/8	60/360	7.83
GIM90L1/2X1/8	40/240	5.73
GIM90L1/2X1/4 UF	40/240	5.73
GIM90L1/2 x 3/8 UF	50/200	5.37
GIM90L3/4 x 1/2 UF	40/120	6.24
GIM90L3/4X1/4 UF	50/150	8.27
GIM90L3/4X3/8 UF	50/150	8.27
GIM90L1X1/4 UF	30/90	7.97
GIM90L1X1/2	30/90	8.46
GIM90L1X3/8 UF	30/90	12.95
GIM90L1 x 3/4 UF	30/90	7.97
GIM90L11/4 x 1 UF	20/40	13.35
GIM90L11/2 x 1 UF	20/40	20.56
GIM90L11/2 x 11/4 UF	15/30	20.56
GIM90L2 x 1 UF	14/28	28.54
GIM90L2 x 11/4 UF	10/20	28.54
GIM90L2 x 11/2 UF	10/20	24.91
GIM90L21/2X3/4 F	9/18	91.21
GIM90L21/2X1 F	1/16	91.21
GIM90L21/2X11/4 F	1/15	91.21
GIM90L21/2X11/2 UF	1/15	91.21
GIM90L21/2X2 UF	1/15	91.21
GIM90L3X2 UF	1/10	128.24

Malleable Iron Fittings - Imported



BIM45L/GIM45L Series



BIM90SL/GIM90SL Series



BIM45SL/GIM45SL Series



BIMT/GIMT Series

U - UL Approval
F - FM Approval

BLACK — NO LEAD ✓ LEAD-FREE

Size	Inner/Master Ctn Qty	List Price
45° ELBOW fiptxfipt		
BIM45L1/8	50/600	$ 5.13
BIM45L1/4	35/420	5.25
BIM45L3/8	50/300	4.78
BIM45L1/2 UF	50/200	4.12
BIM45L3/4 UF	40/120	5.03
BIM45L1 UF	20/60	6.45
BIM45L11/4 UF	20/40	11.27
BIM45L11/2 UF	15/30	13.89
BIM45L2 UF	9/18	20.90
BIM45L21/2 UF	1/15	59.02
BIM45L3 UF	1/10	76.63
BIM45L4 UF	1/6	148.87
90° STREET ELBOW fiptxmipt		
BIM90SL1/8	50/600	5.12
BIM90SL1/4	35/420	5.12
BIM90SL3/8	40/240	5.12
BIM90SL1/2 UF	60/180	5.26
BIM90SL3/4 UF	30/90	5.12
BIM90SL1 UF	30/60	7.37
BIM90SL11/4 UF	20/40	11.27
BIM90SL11/2 UF	13/26	15.00
BIM90SL2 UF	7/14	24.33
BIM90SL21/2 UF	1/13	60.08
BIM90SL3 UF	1/8	91.69
45° STREET ELBOW fiptxmipt		
BIM45SL1/8	50/600	7.97
BIM45SL1/4	35/420	5.92
BIM45SL3/8	45/270	6.71
BIM45SL1/2 UF	100/200	5.41
BIM45SL3/4 UF	60/120	8.29
BIM45SL1 UF	30/60	9.64
BIM45SL11/4 UF	20/40	16.65
BIM45SL11/2 UF	15/30	20.72
TEE fiptxfiptxfipt		
BIMT1/8	75/450	5.44
BIMT1/4	50/300	5.12
BIMT3/8 UF	45/180	5.12
BIMT1/2 UF	40/120	3.32
BIMT3/4 UF	35/70	4.69
BIMT1 UF	20/40	8.26
BIMT11/4 UF	14/28	13.42
BIMT11/2 UF	11/22	16.67
BIMT2 UF	6/12	28.33
BIMT21/2 UF	1/10	58.31
BIMT3 UF	1/6	87.54
BIMT4 UF	1/4	205.51

GALVANIZED — NO LEAD < 0.25% Pb by weighted avg, Third Party Certified to NSF / ANSI 372

Size	Inner/Master Ctn Qty	List Price
45° ELBOW fiptxfipt		
GIM45L1/8	50/600	$ 6.99
GIM45L1/4	35/420	7.83
GIM45L3/8	50/300	6.20
GIM45L1/2 UF	50/200	6.88
GIM45L3/4 UF	40/120	6.67
GIM45L1 UF	20/60	7.65
GIM45L11/4 UF	20/40	13.96
GIM45L11/2 UF	15/30	16.63
GIM45L2 UF	9/18	24.82
GIM45L21/2 UF	1/15	84.11
GIM45L3 UF	1/10	122.29
GIM45L4 UF	1/6	204.92
90° STREET ELBOW fiptxmipt		
GIM90SL1/8	50/600	6.59
GIM90SL1/4	35/420	6.36
GIM90SL3/8	40/240	6.36
GIM90SL1/2 UF	60/180	6.59
GIM90SL3/4 UF	35/90	6.36
GIM90SL1 UF	30/60	8.67
GIM90SL11/4 UF	20/40	14.60
GIM90SL11/2 UF	13/26	17.96
GIM90SL2 UF	7/14	31.12
GIM90SL21/2 UF	1/13	84.38
GIM90SL3 UF	1/8	127.41
45° STREET ELBOW fiptxmipt		
GIM45SL1/8	50/600	9.11
GIM45SL1/4	35/420	7.83
GIM45SL3/8	45/270	8.92
GIM45SL1/2 UF	100/200	6.88
GIM45SL3/4 UF	60/120	11.14
GIM45SL1 UF	30/60	13.77
GIM45SL11/4 UF	20/40	20.64
GIM45SL11/2 UF	15/30	24.98
TEE fiptxfiptxfipt		
GIMT1/8	75/450	6.98
GIMT1/4	50/300	6.03
GIMT3/8	45/180	6.03
GIMT1/2 UF	40/120	3.73
GIMT3/4 UF	35/70	6.26
GIMT1 UF	20/40	10.21
GIMT11/4UF	14/28	16.15
GIMT11/2 UF	11/22	20.15
GIMT2 UF	6/12	33.65
GIMT21/2 UF	1/10	90.36
GIMT3 UF	1/6	105.95
GIMT4 UF	1/4	250.52

Carton Quantities subject to change. Contact Customer Service

American Granby™

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



BIMT/GIMT
Reducer Series



U - UL Approval
F - FM Approval

BLACK

NO LEAD ✓ LEAD-FREE

Size	Inner/Master Ctn Qty	List Price
TEE REDUCER fiptxfiptxfipt		
BIMT1/2X1/2X3/8 UF	45/180	$ 7.03
BIMT3/4x1/2x1/2 UF	45/90	7.50
BIMT3/4X1/2x3/4 UF	45/90	8.25
BIMT3/4X3/4X1/4 UF	50/100	7.95
BIMT3/4x3/4x1/2 UF	45/90	7.25
BIMT3/4X3/4X1 UF	25/50	10.46
BIMT1X1/2X1/2 UF	30/60	10.46
BIMT1X1/2X3/4 UF	25/50	12.20
BIMT1X1/2X1 UF	30/60	10.46
BIMT1X3/4X1/2 UF	25/50	10.36
BIMT1x3/4x3/4 UF	25/50	9.67
BIMT1x3/4x1 UF	25/50	10.46
BIMT1x1x1/2 UF	35/70	9.20
BIMT1x1x3/4 UF	30/60	9.20
BIMT1X1X11/4 UF	18/36	18.60
BIMT11/4X1/2X11/4 UF	10/40	19.07
BIMT11/4X3/4X3/4 UF	20/40	19.07
BIMT11/4X3/4X1 UF	18/36	17.78
BIMT11/4x3/4x11/4 UF	18/36	17.34
BIMT11/4X1X1/2 UF	18/36	17.74
BIMT11/4X1X3/4 UF	18/36	16.77
BIMT11/4X1X1 UF	20/40	16.77
BIMT11/4X11/4X1/2 UF	20/40	16.67
BIMT11/4x11/4x3/4 UF	18/36	14.62
BIMT11/4x11/4x1 UF	18/36	14.62
BIMT11/4x1x11/4 UF	18/36	19.44
BIMT11/2X1/2X11/2 UF	13/26	22.78
BIMT11/2X3/4X3/4 F	13/26	36.31
BIMT11/2X3/4X11/4 F	11/22	36.31
BIMT11/2X3/4X11/2 UF	13/26	22.78
BIMT11/2X1X3/4 F	18/36	22.78
BIMT11/2X1X1 UF	15/30	22.78
BIMT11/2X1X11/2 UF	13/26	22.78
BIMT11/2X11/4X3/4 UF	11/22	22.78
BIMT11/2X11/4X1 UF	11/22	19.52
BIMT11/2X11/4X11/4 UF	11/22	30.77
BIMT11/2X11/2X1/2 UF	20/40	19.52
BIMT11/2x11/2x3/4 UF	15/30	18.47
BIMT11/2x11/2x1 UF	13/26	18.47
BIMT11/2X11/2X11/4 UF	13/26	22.39
BIMT2X1/2X2 UF	10/20	35.58
BIMT2X3/4X3/4	9/18	34.88
BIMT2X3/4X2 UF	9/18	34.88
BIMT2X1X2 UF	9/18	35.58
BIMT2X11/2X11/4 UF	8/16	35.58
BIMT2X11/2X11/2 UF	8/16	34.88
BIMT2X11/2X2 UF	8/16	35.58
BIMT2X2X1/2 UF	10/20	28.95
BIMT2X2X1 UF	9/18	28.95
BIMT2X2X11/4 UF	9/18	30.59
BIMT2X2X11/2 UF	9/18	30.59

GALVANIZED

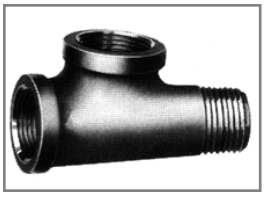
NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Size	Inner/Master Ctn Qty	List Price
TEE REDUCER fiptxfiptxfipt		
GIMT1/2X1/2X3/8	45/180	$ 9.12
GIMT3/4x1/2x1/2 UF	45/90	9.86
GIMT3/4X3/4X1/4 UF	45/90	8.95
GIMT3/4x3/4x1/2 UF	50/100	8.62
GIMT3/4x1/2x3/4 UF	45/90	9.86
GIMT3/4X3/4X1 UF	25/50	14.60
GIMT1X1/2X3/4 UF	25/50	14.86
GIMT1X1/2X1 UF	30/60	14.60
GIMT1X3/4X1/2 UF	25/50	14.72
GIMT1x3/4x3/4 UF	25/50	14.60
GIMT1x3/4x1 UF	25/50	14.60
GIMT1x1x1/2 UF	35/70	12.11
GIMT1x1x3/4 UF	30/60	12.11
GIMT1X1X11/4 UF	18/36	22.79
GIMT11/4X1/2X11/4 UF	10/40	22.79
GIMT11/4X3/4X3/4 UF	20/40	24.94
GIMT11/4x3/4x1 UF	18/36	22.78
GIMT11/4x3/4x11/4 UF	18/36	21.56
GIMT11/4X1X1/2 UF	18/36	22.71
GIMT11/4X1X3/4 UF	18/36	22.78
GIMT11/4X1X1 UF	20/40	22.78
GIMT11/4x11/4x3/4 UF	18/36	18.73
GIMT11/4x11/4x1 UF	18/36	18.73
GIMT11/4x1x11/4 UF	18/36	23.19
GIMT11/2X1/2X11/2 UF	13/26	31.48
GIMT11/2X3/4X3/4 F	13/26	43.10
GIMT11/2X3/4X11/4 F	11/22	43.10
GIMT11/2X3/4X11/2 UF	13/26	28.68
GIMT11/2X1X3/4 F	18/36	28.68
GIMT11/2X1X1 UF	15/30	28.68
GIMT11/2X1X11/2 UF	13/26	28.68
GIMT11/2X11/4X3/4 UF	11/22	28.68
GIMT11/2X11/4X1 UF	11/22	28.13
GIMT11/2X11/4X11/4 UF	11/22	40.09
GIMT11/2X11/2X1/2 UF	20/40	24.49
GIMT11/2x11/2x3/4 UF	15/30	23.16
GIMT11/2x11/2x1 UF	13/26	23.16
GIMT11/2X11/2X11/4 UF	13/26	27.90
GIMT2X1/2X2 UF	10/20	40.56
GIMT2X3/4X3/4	9/18	39.77
GIMT2X3/4X2 UF	9/18	39.77
GIMT2X1X2 UF	9/18	40.56
GIMT2X11/2X11/4 UF	8/16	39.90
GIMT2X11/2X11/2 UF	8/16	39.32
GIMT2X11/2X2 UF	8/16	40.56
GIMT2X2X1 UF	9/18	33.81
GIMT2X2X11/4 UF	9/18	39.32
GIMT2X2X11/2 UF	9/18	39.32

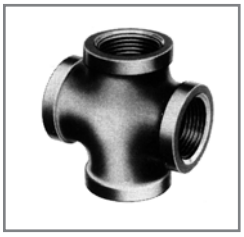
Malleable Iron Fittings - Imported



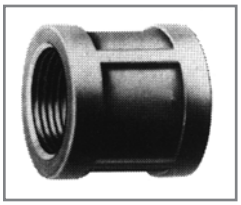
BIMT/GIMT
Reducer Series



BIMST/GIMST
Reducer Series



BIMCR/GIMCR Series



BIMRHC/GIMRHC
Series

BLACK

NO LEAD ✓ LEAD-FREE

Size	Inner/Master Ctn Qty	List Price
BIMT21/2X21/2X1 UF	1/10	$75.84
BIMT21/2X21/2X11/2 UF	1/10	75.84
BIMT21/2X21/2X2 UF	1/10	75.84
BIMT3X3X3/4 UF	1/12	101.29
BIMT3X3X1 UF	1/12	101.29
BIMT3X3X11/4 UF	1/12	103.24
BIMT3X3X11/2 UF	1/12	101.29
BIMT3X3X2 UF	1/6	101.29
BIMT3X3X21/2 UF	1/6	115.85
STREET TEE fiptxmiptxfipt		
BIMST1/2 UF	25/150	11.85
BIMST3/4 UF	25/100	16.11
BIMST1 UF	20/60	21.27
BIMST11/4 UF	20/40	35.08
CROSS fipt		
BIMCR1/8	60/180	12.23
BIMCR1/4	80/240	10.36
BIMCR3/8	60/120	10.58
BIMCR1/2 UF	45/90	12.03
BIMCR3/4 UF	30/60	14.69
BIMCR1 UF	16/32	18.09
BIMCR11/4 UF	9/18	29.33
BIMCR11/2 UF	8/16	36.34
BIMCR2 UF	5/10	60.15
BIMCR21/2 UF	1/6	106.03
BIMCR3 UF	1/4	158.17
BIMCR4 UF	1/2	322.78
Right Hand Coupling fiptxfipt		
BIMRHC1/4	40/480	4.21
BIMRHC3/8	50/300	4.21
BIMRHC1/2 UF	60/240	3.44
BIMRHC3/4 UF	50/150	4.03
BIMRHC1 UF	25/75	6.15
BIMRHC11/4 UF	32/64	7.84
BIMRHC11/2 UF	18/36	10.49
BIMRHC2 UF	12/24	15.28
BIMRHC21/2 UF	1/16	41.61
BIMRHC3 UF	1/12	56.23
BIMRHC4 UF	1/7	112.19

GALVANIZED

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Size	Inner/Master Ctn Qty	List Price
GIMT21/2X21/2X1 UF	1/10	$107.86
GIMT21/2X21/2X11/2 UF	1/10	107.86
GIMT21/2X21/2X2 UF	1/10	107.86
GIMT3X3X3/4 UF	1/12	152.96
GIMT3X3X1 UF	1/12	146.36
GIMT3X3X11/4 UF	1/12	149.19
GIMT3X3X11/2 UF	1/12	146.36
GIMT3X3X2 UF	1/6	146.36
GIMT3X3X21/2 UF	1/6	164.31
STREET TEE fiptxmiptxfipt		
GIMST1/2 UF	25/150	18.01
GIMST3/4 UF	25/100	19.46
GIMST1 UF	20/60	30.75
GIMST11/4 UF	20/40	50.00
CROSS fipt		
GIMCR1/8	60/180	15.48
GIMCR1/4	80/240	15.42
GIMCR3/8	60/120	15.42
GIMCR1/2 UF	45/90	15.45
GIMCR3/4 UF	30/60	18.85
GIMCR1 UF	16/32	26.00
GIMCR11/4 UF	9/18	37.64
GIMCR11/2 UF	8/16	45.69
GIMCR2 UF	5/10	87.12
GIMCR21/2 UF	1/6	166.31
GIMCR3 UF	1/4	194.44
GIMCR4 UF	1/2	452.51
Right Hand Coupling fiptxfipt		
GIMRHC1/4	40/480	5.37
GIMRHC3/8	50/300	5.37
GIMRHC1/2 UF	60/240	4.34
GIMRHC3/4 UF	50/150	4.99
GIMRHC1 UF	25/75	8.25
GIMRHC11/4 UF	32/64	11.33
GIMRHC11/2 UF	18/36	12.90
GIMRHC2 UF	12/24	18.83
GIMRHC21/2 UF	1/16	57.49
GIMRHC3 UF	1/12	76.84
GIMRHC4 UF	1/7	163.19

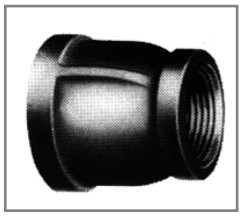
U - UL Approval
F - FM Approval

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299
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Malleable Iron Fittings - Imported



BIMRC/GIMRC
Reducer Series



BIMHB/GIMHB Series

U - UL Approval
F - FM Approval

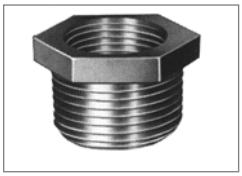
BLACK — NO LEAD ✓ LEAD-FREE

Size	Inner/Master Ctn Qty	List Price
REDUCING COUPLING fiptxfipt		
BIMRC1/4 x 1/8	35/420	$ 4.11
BIMRC3/8 x 1/4	30/360	4.11
BIMRC1/2 x 1/4 U	50/300	3.75
BIMRC1/2 x 3/8 UF	40/240	3.52
BIMRC3/4X1/4 U	30/180	4.65
BIMRC3/4 x 3/8 UF	30/180	4.65
BIMRC3/4 x 1/2 UF	60/180	4.03
BIMRC1X3/8 UF	40/120	7.29
BIMRC1 x 1/2 UF	25/100	6.28
BIMRC1 x 3/4 UF	25/100	6.28
BIMRC11/4 x 1/2 UF	25/75	9.04
BIMRC11/4 x 3/4 UF	25/75	7.84
BIMRC11/4 x 1 UF	20/60	7.84
BIMRC11/2 x 3/4 UF	30/60	12.96
BIMRC11/2 x 1 UF	25/50	11.50
BIMRC11/2 x 11/4 UF	24/48	9.92
BIMRC2 x 1/2 UF	21/42	18.73
BIMRC2 x 3/4 UF	21/42	16.48
BIMRC2 x 1 UF	21/42	15.59
BIMRC2 x 11/4 UF	18/36	16.48
BIMRC2 x 11/2 UF	18/36	14.42
BIMRC21/2X11/2 UF	1/16	43.28
BIMRC21/2X2 UF	1/20	36.77
BIMRC3X1	1/12	58.40
BIMRC3X11/4	1/12	58.40
BIMRC3X11/2 UF	1/12	57.33
BIMRC3X2 UF	1/12	47.53
BIMRC3X21/2 UF	1/12	57.33
BIMRC4X2 UF	1/9	114.94
BIMRC4X3 UF	1/8	114.94
HEX BUSHING miptxfipt		
BIMHB1/4X1/8	100/1200	4.52
BIMHB3/8x1/4	100/600	4.52
BIMHB1/2x1/8 U	150/600	4.52
BIMHB1/2x1/4 UF	100/600	4.52
BIMHB1/2x3/8 UF	100/600	4.52
BIMHB3/4X1/8 U	50/300	4.42
BIMHB3/4x1/4 U	50/300	4.38
BIMHB3/4x3/8 UF	50/300	4.42
BIMHB3/4x1/2 UF	50/300	4.11
BIMHB1X1/8 U	50/200	5.13
BIMHB1X1/4 U	50/200	5.49
BIMHB1X3/8 U	50/200	5.65
BIMHB1x1/2 UF	50/200	4.23
BIMHB1x3/4 UF	50/200	4.23
BIMHB11/4X1/4 U	30/120	7.13
BIMHB11/4X3/8 U	30/120	6.34
BIMHB11/4x1/2 UF	30/120	6.04
BIMHB11/4x3/4 UF	30/120	5.46
BIMHB11/4x1 UF	30/120	5.46

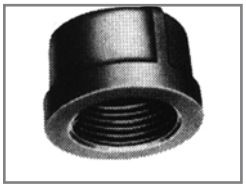
GALVANIZED — NO LEAD <0.25% Pb by weighted avg, Third Party Certified to NSF / ANSI 372

Size	Inner/Master Ctn Qty	List Price
REDUCING COUPLING fiptxfipt		
GIMRC1/4 x 1/8	35/240	$ 5.09
GIMRC3/8 x 1/4	30/360	5.09
GIMRC1/2 x 1/4 U	50/300	4.63
GIMRC1/2 x 3/8 UF	40/240	4.34
GIMRC3/4X1/4 U	30/180	5.73
GIMRC3/4 x 3/8 UF	30/180	5.73
GIMRC3/4 x 1/2 UF	60/180	5.03
GIMRC1X3/8 UF	40/120	10.34
GIMRC1 x 1/2 UF	25/100	8.44
GIMRC1 x 3/4 UF	25/100	7.83
GIMRC11/4 x 1/2 UF	25/75	13.27
GIMRC11/4 x 3/4 UF	25/75	10.71
GIMRC11/4 x 1 UF	20/60	10.71
GIMRC11/2 x 3/4 UF	30/60	13.78
GIMRC11/2 x 1 UF	25/50	13.78
GIMRC11/2 x 11/4 UF	24/48	13.03
GIMRC2 x 1/2 UF	21/42	22.52
GIMRC2 x 3/4 UF	21/42	22.52
GIMRC2 x 1 UF	21/42	18.83
GIMRC2 x 11/4 UF	18/36	19.90
GIMRC2 x 11/2 UF	18/36	18.83
GIMRC21/2X11/2 UF	1/16	59.36
GIMRC21/2X2 UF	1/20	58.23
GIMRC3X1	1/12	78.82
GIMRC3X11/4	1/12	78.82
GIMRC3X11/2 UF	1/12	77.33
GIMRC3X2 UF	1/12	73.11
GIMRC3X21/2 UF	1/12	77.33
GIMRC4X2 UF	1/9	167.37
GIMRC4X3 UF	1/8	167.37
HEX BUSHING miptxfipt		
GIMHB1/4X1/8	100/1200	6.51
GIMHB3/8X1/4	100/600	6.51
GIMHB1/2x1/8 U	150/600	6.51
GIMHB1/2x1/4 UF	100/600	6.51
GIMHB1/2x3/8 UF	100/600	6.51
GIMHB3/4X1/8 U	50/300	6.51
GIMHB3/4x1/4 U	50/300	6.71
GIMHB3/4x3/8 UF	50/300	7.50
GIMHB3/4x1/2 UF	50/600	6.03
GIMHB1X1/8 U	50/200	7.10
GIMHB1X1/4 U	50/200	7.97
GIMHB1X3/8 U	50/200	12.48
GIMHB1x1/2 UF	50/200	7.25
GIMHB1x3/4 UF	50/200	6.83
GIMHB11/4X1/4 U	30/120	11.51
GIMHB11/4X3/8 U	30/120	11.51
GIMHB11/4x1/2	30/120	10.12
GIMHB11/4x3/4 UF	30/120	9.21
GIMHB11/4x1 UF	30/120	9.21

Malleable Iron Fittings - Imported



BIMHB/GIMHB Series



BIMCA/GIMCA Series

BLACK

NO LEAD ✓ LEAD-FREE

Size	Inner/Master Ctn Qty	List Price
HEX BUSHING Cont. miptxfipt		
BIMHB11/2X1/4 U	25/75	$ 8.36
BIMHB11/2x1/2 UF	25/75	6.91
BIMHB11/2x3/4 UF	25/75	6.91
BIMHB11/2x1 UF	25/75	6.04
BIMHB11/2x11/4 UF	25/75	6.92
BIMHB2X1/4 U	20/60	11.83
BIMHB2x1/2 UF	20/60	10.44
BIMHB2x3/4 UF	20/60	8.82
BIMHB2x1 UF	20/60	8.27
BIMHB2x11/4 UF	20/60	8.27
BIMHB2x11/2 UF	20/60	9.21
BIMHB21/2X3/4 UF	1/30	15.01
BIMHB21/2X1 UF	1/24	15.01
BIMHB21/2X11/4 UF	1/24	15.01
BIMHB21/2X11/2 UF	1/28	13.97
BIMHB21/2X2 UF	1/32	13.89
BIMHB3X3/4 UF	1/20	20.75
BIMHB3X1 UF	1/20	20.75
BIMHB3X11/4 UF	1/20	20.75
BIMHB3X11/2 UF	1/20	20.36
BIMHB3X2 UF	1/20	19.02
BIMHB3X21/2 UF	1/20	19.33
BIMHB31/2X3 UF	1/10	36.34
BIMHB4X3/4 F	1/10	39.86
BIMHB4X1 F	1/10	39.86
BIMHB4X11/4 UF	1/10	39.86
BIMHB4X11/2 UF	1/10	39.86
BIMHB4X2 F	1/10	37.70
BIMHB4X21/2 F	1/10	37.70
BIMHB4X3 UF	1/10	37.70
CAP fipt		
BIMCA3/8	50/600	2.76
BIMCA1/2 UF	50/300	2.54
BIMCA3/4 UF	40/240	3.44
BIMCA1 UF	35/140	4.12
BIMCA11/4 UF	25/100	5.44
BIMCA11/2 UF	25/75	7.37
BIMCA2 UF	18/54	9.63
BIMCA21/2 UF	1/30	23.91
BIMCA3 UF	1/20	35.58
BIMCA4 UF	1/14	55.50
BIMCA6 UF	1/2	221.70

GALVANIZED

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Size	Inner/Master Ctn Qty	List Price
HEX BUSHING Cont. miptxfipt		
GIMHB11/2X1/4 U	25/75	$ 14.62
GIMHB11/2x1/2 UF	25/75	13.35
GIMHB11/2x3/4 UF	25/75	13.35
GIMHB11/2x1 UF	25/75	12.04
GIMHB11/2X11/4 UF	25/75	11.12
GIMHB2X1/4 U	20/60	17.02
GIMHB2 x 1/2 UF	20/60	16.67
GIMHB2 x 3/4 UF	20/60	15.52
GIMHB2 x 1 F	20/60	14.69
GIMHB2 x 11/4 UF	20/60	14.69
GIMHB2 x 11/2 UF	20/60	12.87
GIMHB21/2X3/4 UF	1/30	24.15
GIMHB21/2X1 UF	1/24	24.15
GIMHB21/2X11/4 UF	1/24	24.15
GIMHB21/2X11/2 UF	1/28	23.69
GIMHB21/2X2 UF	1/32	21.00
GIMHB3X3/4 UF	1/20	31.89
GIMHB3X1 UF	1/20	31.89
GIMHB3X11/4 UF	1/20	31.89
GIMHB3X11/2 UF	1/20	31.27
GIMHB3X2 UF	1/20	28.33
GIMHB3X21/2 UF	1/20	29.98
GIMHB31/2X3 UF	1/10	95.20
GIMHB4X3/4 F	1/10	66.83
GIMHB4X1 F	1/10	66.84
GIMHB4X11/4 UF	1/10	66.84
GIMHB4X11/2 UF	1/10	66.84
GIMHB4X2 F	1/10	58.97
GIMHB4X21/2 F	1/10	66.83
GIMHB4X3 UF	1/10	62.42
CAP fipt		
GIMCA3/8	50/600	4.17
GIMCA1/2 UF	50/300	3.19
GIMCA3/4 UF	40/240	4.63
GIMCA1 UF	35/140	5.09
GIMCA11/4 UF	25/100	7.37
GIMCA11/2 UF	25/75	9.42
GIMCA2 UF	18/54	11.91
GIMCA21/2 UF	1/30	37.82
GIMCA3 UF	1/20	45.83
GIMCA4 UF	1/14	91.02
GIMCA6 UF	1/2	331.27

☺ Steel, Made in USA

U - UL Approval
F - FM Approval

Carton Quantities subject to change. Contact Customer Service

American Granby™

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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Malleable Iron Fittings - Imported

☺ Steel, Made in USA



BIMP/GIMP Square Head Series



BIMP/GIMP Bar Head Series



BIMU/GIMU Series Iron to NL Brass Seat



BIMFF/GIMFF Series



BIMEP/GIMEP Series

U - UL Approval

F - FM Approval

BLACK

NO LEAD ✓ LEAD-FREE

Size	Inner/Master Ctn Qty	List Price
Square Head Plug mipt		
BIMP1/8 ☺	100	$ 0.66
BIMP1/4 ☺	100	0.66
BIMP3/8 ☺	45/540	0.99
BIMP1/2 UF ☺	40/480	1.03
BIMP3/4 UF ☺	25/300	1.11
BIMP1 UF	40/160	2.91
BIMP11/4 UF	25/100	3.66
BIMP11/2 UF	24/72	5.10
BIMP2 UF	15/45	7.28
BIMP21/2 UF	1/40	13.27
BIMP3 UF	1/30	18.19
BIMP4 F	1/8	38.19
BIMP5 UF	1/4	81.93
BIMP5 BAR	5/10	81.93
BIMP6 UF	1/2	101.47
BIMP6 BAR	3/6	101.47
Unions, 150 lbs UL Listed fiptxfipt		
BIMU150-1/8	30 /180	$ 18.28
BIMU150-1/4	30/180	17.40
BIMU150-3/8	35/140	11.76
BIMU150-1/2 UF	30/120	11.21
BIMU150-3/4 UF	25/75	13.36
BIMU150-1 UF	20/40	17.47
BIMU150-11/4 UF	18/36	23.14
BIMU150-11/2 UF	12/24	28.29
BIMU150-2 UF	8/16	42.75
BIMU150-21/2 UF	1/10	102.99
BIMU150-3 UF	1/5	125.06
FLOOR FLANGE fipt		
BIMFF1/4	30/180	9.21
BIMFF3/8	50/200	9.21
BIMFF1/2 F	25/100	9.21
BIMFF3/4 F	20/80	9.92
BIMFF1 F	20/60	12.86
BIMFF11/4 F	15/45	13.77
BIMFF11/2 F	12/36	15.00
BIMFF2 F	8/24	19.60
EXTENSION PIECE		
BIMEP1/2 F	50/300	10.13
BIMEP3/4 F	60/180	14.95
BIMEP1 F	30/60	21.52
BIMEP11/4 F	30/60	24.62
BIMEP11/2 F	1/35	29.46
BIMEP2 F	15/30	34.45

GALVANIZED

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Size	Inner/Master Ctn Qty	List Price
Square Head Plug mipt		
GIMP1/8 ☺	100	$ 1.00
GIMP1/4 ☺	100	1.00
GIMP3/8 ☺	45/540	1.31
GIMP1/2 UF ☺	40/480	1.44
GIMP3/4 UF ☺	25/300	1.48
GIMP1 UF	40/160	4.86
GIMP11/4 UF	25/100	7.52
GIMP11/2 UF	24/72	10.13
GIMP2 UF	15/45	12.87
GIMP21/2 UF	1/40	25.11
GIMP3 UF	1/30	35.61
GIMP4 F	1/8	73.90
GIMP5 UF	1/4	128.10
GIMP5 BAR	5/10	128.10
GIMP6 UF	1/2	146.57
GIMP6 BAR	3/6	146.57
Unions, 150 lbs UL Listed fiptxfipt		
GIMU150-1/8	30/180	$ 21.60
GIMU150-1/4	30/180	20.86
GIMU150-3/8	35/140	13.87
GIMU150-1/2 UF	30/120	14.01
GIMU150-3/4 UF	25/75	16.63
GIMU150-1 UF	20/40	20.70
GIMU150-11/4 UF	18/36	28.13
GIMU150-11/2 UF	12/24	36.02
GIMU150-2 UF	8/16	48.10
GIMU150-21/2 UF	1/10	133.84
GIMU150-3 UF	1/5	190.18
FLOOR FLANGE fipt		
GIMFF1/4	30/180	19.52
GIMFF3/8	50/200	19.52
GIMFF1/2 F	25/100	19.52
GIMFF3/4 F	20/80	21.79
GIMFF1 F	20/60	23.97
GIMFF11/4 F	15/45	27.31
GIMFF11/2 F	12/36	34.07
GIMFF2 F	8/24	44.86
EXTENSION PIECE		
GIMEP1/2 F	50/300	16.02
GIMEP3/4 F	60/180	23.97
GIMEP1 F	30/60	26.45
GIMEP11/4 F	30/60	37.02
GIMEP11/2 F	1/35	44.94
GIMEP2 F	15/30	63.56

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Malleable Iron Fittings - Domestic

Domestic Malleable Iron Fitting Features:

- Class 150 malleable iron pipe fittings
- Suitable for water, steam, air, gas and oil
- All fittings are air pressure tested
- Working pressure:
  Max: 300 psi @ -20°F to 150°F.
  Min 150 psi @ 366°F
- Made in USA
- **Galvanized: Third party certified to NSF/ANSI 372.**

Malleable Iron Fitting Specifications:

Material:	ASTM A197
Dimensions:	ANSI/ASME B16.3
	ANSI/ASME B1.20.1
Pressure ratings:	ANSI/ASME B16.3
Coatings:	ASTM A153, A165



BM90L/GM90L Series



BM90L/GM90L
Reducer Series

BLACK

NO LEAD ✓ LEAD-FREE

Size	Ctn Qty	List Price
90° ELBOW fiptxfipt		
BM90L1/8	35/210	$ 9.00
BM90L1/4	30/180	8.79
BM90L3/8	30/180	8.79
BM90L1/2	50/200	6.09
BM90L3/4	35/140	7.34
BM90L1	20/80	12.77
BM90L11/4	20/40	21.05
BM90L11/2	8/32	27.68
BM90L2	8/16	47.73
BM90L21/2	12	106.33
BM90L3	5	155.61
BM90L4	4	334.25
90° ELBOW REDUCER fiptxfipt		
BM90L3/8 x 1/4	25/150	12.36
BM90L1/2 x 1/4	30/180	11.93
BM90L1/2 x 3/8	50/200	11.59
BM90L3/4 x 3/8	30/180	16.61
BM90L3/4 x 1/2	30/120	11.93
BM90L1 x 1/2	25/100	16.55
BM90L1 x 3/4	20/80	15.34
BM90L11/4 x 3/4	15/60	28.74
BM90L11/4 x 1	10/40	25.77
BM90L11/2 x 1/2	12/48	40.02
BM90L11/2 x 3/4	12/48	41.60
BM90L11/2 x 1	10/40	36.36
BM90L11/2 x 11/4	15/30	36.36
BM90L2 x 1/2	10/40	50.28
BM90L2 x 3/4	15/30	63.46
BM90L2 x 1	12/24	59.85
BM90L2 x 11/4	10/20	59.85
BM90L2 x 11/2	10/20	52.67
BM90L21/2 x 11/2	12	153.07

GALVANIZED

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Size	Ctn Qty	List Price
90° ELBOW fiptxfipt		
GM90L1/8	35/210	$ 13.95
GM90L1/4	30/180	12.74
GM90L3/8	30/180	12.74
GM90L1/2	50/200	8.20
GM90L3/4	35/140	10.07
GM90L1	20/80	18.63
GM90L11/4	20/40	29.45
GM90L11/2	8/32	38.45
GM90L2	8/16	62.98
GM90L21/2	12	164.81
GM90L3	5	271.72
GM90L4	4	479.22
90° ELBOW REDUCER fiptxfipt		
GM90L3/8 x 1/4	25/150	20.35
GM90L1/2 x 1/4	30/180	17.58
GM90L1/2 x 3/8	50/200	15.07
GM90L3/4 x 3/8	30/180	24.13
GM90L3/4 x 1/2	30/120	17.50
GM90L1 x 1/2	25/100	23.84
GM90L1 x 3/4	20/80	22.45
GM90L11/4 x 3/4	15/60	45.24
GM90L11/4 x 1	10/40	37.66
GM90L11/2 x 1/2	12/48	52.01
GM90L11/2 x 3/4	12/48	60.20
GM90L11/2 x 1	10/40	60.20
GM90L11/2 x 11/4	15/30	60.20
GM90L2 x 1/2	10/40	67.32
GM90L2 x 3/4	15/30	85.33
GM90L2 x 1	12/24	83.65
GM90L2 x 11/4	10/20	80.61
GM90L2 x 11/2	10/20	70.32
GM90L21/2 x 11/2	12	265.59
GM90L3 x 2	8	376.29

Case quantities required please for fittings through 2”

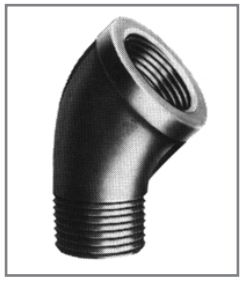
Malleable Iron Fittings - Domestic



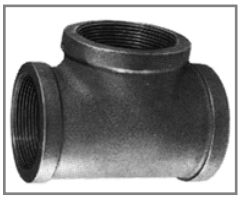
BM45L/GM45L Series



BM90SL/GM90SL Series



BM45SL/GM45SL Series



BMT/GMT Series

BLACK

NO LEAD ✓ LEAD-FREE

Size	Ctn Qty	List Price
45° ELBOW fiptxfipt		
BM45L1/4	35/210	$ 13.24
BM45L3/8	40/240	13.24
BM45L1/2	50/200	10.05
BM45L3/4	40/160	12.43
BM45L1	25/100	15.66
BM45L11/4	10/40	27.69
BM45L11/2	10/40	34.27
BM45L2	8/16	51.83
BM45L21/2	15	149.96
BM45L3	8	194.78
BM45L4	4	381.92
90° STREET ELBOW fiptxmipt		
BM90SL1/8	40/240	12.98
BM90SL1/4	30/180	12.98
BM90SL3/8	30/180	12.98
BM90SL1/2	50/200	12.59
BM90SL3/4	35/140	12.59
BM90SL1	20/80	17.83
BM90SL11/4	15/30	27.69
BM90SL11/2	12/24	37.07
BM90SL11/2 x 11/4	16/32	67.32
BM90SL2	8/16	60.23
BM90SL21/2	8	152.68
BM90SL3	8	233.06
45° STREET ELBOW fiptxmipt		
BM45SL1/8	30/180	20.43
BM45SL3/8	30/180	17.21
BM45SL1/2	50/200	14.05
BM45SL3/4	40/160	21.22
BM45SL1	25/100	24.72
BM45SL11/4	25/50	42.74
BM45SL11/2	15/30	55.10
BM45SL2	10/20	92.68
TEE fiptxfiptxfipt		
BMT1/8	35/210	13.56
BMT1/4	35/210	12.77
BMT3/8	30/180	12.77
BMT1/2	30/120	8.15
BMT3/4	20/80	11.69
BMT1	12/48	20.00
BMT11/4	15/30	32.40
BMT11/2	10/20	40.29
BMT2	15	68.67
BMT21/2	8	148.07
BMT3	6	218.12
BMT4	3	527.16

GALVANIZED

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Size	Ctn Qty	List Price
45° ELBOW fiptxfipt		
GM45L1/4	35/210	$ 17.36
GM45L3/8	40/240	19.39
GM45L1/2	50/200	12.97
GM45L3/4	40/160	18.63
GM45L1	25/100	21.05
GM45L11/4	10/40	39.32
GM45L11/2	10/40	46.19
GM45L2	8/16	68.34
GM45L21/2	15	237.79
GM45L3	8	345.83
GM45L4	4	579.78
90° STREET ELBOW fiptxmipt		
GM90SL1/8	40/240	18.21
GM90SL1/4	30/180	17.63
GM90SL3/8	30/180	17.63
GM90SL1/2	50/200	18.01
GM90SL3/4	35/140	18.01
GM90SL1	20/80	24.09
GM90SL11/4	15/30	40.44
GM90SL11/2	12/24	50.77
GM90SL11/2 x 11/4	16/32	82.62
GM90SL2	8/16	85.60
GM90SL21/2	8	247.62
GM90SL3	8	360.36
45° STREET ELBOW fiptxmipt		
GM45SL1/8	30/180	26.52
GM45SL3/8	30/180	26.13
GM45SL1/2	50/200	19.80
GM45SL3/4	40/160	31.43
GM45SL1	25/100	40.28
GM45SL11/4	25/50	60.43
GM45SL11/2	15/30	73.19
GM45SL2	10/20	120.53
TEE fiptxfiptxfipt		
GMT1/8	35/210	19.72
GMT1/4	35/210	16.60
GMT3/8	30/180	16.60
GMT1/2	30/120	10.63
GMT3/4	20/80	17.50
GMT1	12/48	28.29
GMT11/4	15/30	44.92
GMT11/2	10/20	55.83
GMT2	15	90.73
GMT21/2	8	255.44
GMT3	6	299.57
GMT4	3	708.63

American Granby™

www.americangranby.com

In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



BMT/GMT
Reducer Series



A x B x C
part number sequence

BLACK

NO LEAD ✓ LEAD-FREE

Size	Ctn Qty	List Price
TEE Reducing fiptxfiptxfipt		
BMT1/2 x 1/2 x 1/4	25/100	$ 13.85
BMT1/2 x 1/2 x 3/4	30/120	20.86
BMT3/4 x 1/2 x 1/2	30/120	18.56
BMT3/4 x 3/4 x 1/4	30/120	20.09
BMT3/4 x 3/4 x 3/8	30/120	22.19
BMT3/4 x 3/4 x 1/2	25/100	18.07
BMT3/4 x 1/2 x 3/4	20/80	20.86
BMT3/4 x 3/4 x 1	15/60	27.53
BMT1 x 1/2 x 1/2	20/80	25.98
BMT1 x 1/2 x 3/4	20/80	30.99
BMT1 x 1/2 x 1	15/60	25.98
BMT1 x 3/4x 1/2	20/40	26.11
BMT1 x 3/4 x 3/4	20/40	24.13
BMT1 x 3/4 x 1	20/40	26.48
BMT1 x 1 x 1/4	20/80	28.88
BMT1 x 1 x 1/2	15/60	22.81
BMT1 x 1 x 3/4	25/50	22.81
BMT1 x 1 x 11/4	15/30	50.49
BMT11/4 x 1/2 x 11/4	10/40	48.41
BMT11/4 x 3/4 x 3/4	10/40	48.41
BMT11/4 x 3/4 x 1	10/40	44.81
BMT11/4 x 3/4 x 11/4	15/30	43.87
BMT11/4 x 1 x 1	15/30	42.56
BMT11/4 x 11/4 x 1/2	15/30	41.58
BMT11/4 x 11/4 x 3/4	12/24	36.45
BMT11/4 x 11/4 x 1	14/28	39.50
BMT11/4 x 1 x 11/4	15/30	51.10
BMT11/2 x 1/2 x 11/2	10/20	57.86
BMT11/2 x 3/4 x 3/4	10/40	96.97
BMT11/2 x 3/4 x 11/2	10/20	57.86
BMT11/2 x 1 x 11/2	10/20	57.86
BMT11/2 x 11/4 x 3/4	10/20	57.86
BMT11/2 x 11/4 x 1	8/16	49.67
BMT11/2 x 11/4 x 11/4	10/20	77.60
BMT11/2 x 11/4 x 11/2	10/20	87.22
BMT11/2 x 11/2 x 1/2	8/32	48.70
BMT11/2 x 11/2 x 3/4	10/20	46.00
BMT11/2 x 11/2 x 1	10/20	46.00
BMT11/2 x 11/2 x 11/4	8/40	56.89
BMT2 x 1/2 x 2	8/16	90.18
BMT2 x 3/4 x 2	8/16	88.63
BMT2 x 1 x 2	8/16	90.18
BMT2 x 2 x 1/2	10/20	73.46
BMT2 x 2 x 3/4	10/20	72.09
BMT2 x 2 x 1	10/20	72.09
BMT2 x 2 x 11/4	8/16	77.60
BMT2 x 2 x 11/2	8/16	77.60
BMT2 x 11/4 x 11/4	8/16	90.18
BMT2 x 11/2 x 11/4	8/16	90.35
BMT2 x 11/2 x 11/2	8/16	88.63
BMT21/2 x 21/2 x 2	12	192.63

GALVANIZED

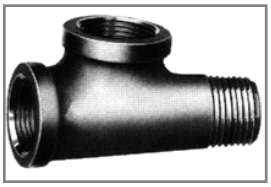
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Size	Ctn Qty	List Price
TEE Reducing fiptxfiptxfipt		
GMT1/2 x 1/2 x 3/8	35/140	$ 24.68
GMT3/4 x 1/2 x 1/2	30/120	29.09
GMT3/4 x 3/4 x 1/4	30/120	26.00
GMT3/4 x 3/4 x 1/2	25/100	24.33
GMT3/4 x 1/2 x 3/4	20/80	27.78
GMT3/4 x 3/4 x 1	15/60	41.88
GMT1 x 1/4 x 1	15/80	44.23
GMT1 x 1/2 x 1/2	20/80	42.68
GMT1 x 1/2 x 1	15/60	42.68
GMT1 x 3/4x 1/2	20/40	42.68
GMT1 x 3/4 x 3/4	20/40	41.18
GMT1 x 3/4 x 1	20/40	42.68
GMT1 x 1 x 1/2	15/60	34.17
GMT1 x 1 x 3/4	25/50	34.17
GMT1 x 1 x 11/4	15/30	69.07
GMT11/4 x 1/2 x 11/4	10/40	67.17
GMT11/4 x 3/4 x 3/4	10/40	73.08
GMT11/4 x 3/4 x 1	10/40	69.48
GMT11/4 x 3/4 x 11/4	15/30	63.00
GMT11/4 x 1 x 1	15/30	64.30
GMT11/4 x 11/4 x 1/2	15/30	56.02
GMT11/4 x 11/4 x 3/4	12/24	53.00
GMT11/4 x 11/4 x 1	14/28	53.00
GMT11/4 x 1 x 11/4	15/30	68.01
GMT11/2 x 1/2 x 11/2	10/20	92.37
GMT11/2 x 3/4 x 3/4	10/40	122.94
GMT11/2 x 3/4 x 11/2	10/20	84.23
GMT11/2 x 1 x 11/2	10/20	84.23
GMT11/2 x 11/4 x 3/4	10/20	84.23
GMT11/2 x 11/4 x 1	8/16	79.58
GMT11/2 x 11/4 x 11/4	10/20	116.75
GMT11/2 x 11/4 x 11/2	10/20	116.75
GMT11/2 x 11/2 x 1/2	8/32	69.20
GMT11/2 x 11/2 x 3/4	10/20	65.48
GMT11/2 x 11/2 x 1	10/20	65.48
GMT11/2 x 11/2 x 11/4	8/40	81.97
GMT2 x 1/2 x 2	8/16	119.06
GMT2 x 3/4 x 2	8/16	116.79
GMT2 x 1 x 2	8/16	119.06
GMT2 x 2 x 1/2	10/20	106.51
GMT2 x 2 x 3/4	10/20	95.58
GMT2 x 2 x 1	10/20	93.80
GMT2 x 2 x 11/4	8/16	112.54
GMT2 x 2 x 11/2	8/16	112.54
GMT2 x 11/4 x 11/4	8/16	119.06
GMT2 x 11/2x11/4	8/16	119.06
GMT2 x 11/2 x 11/2	8/16	116.79
GMT21/2 x 21/2 x 2	12	316.41

Malleable Iron Fittings - Domestic



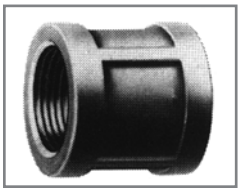
BMT/GMT
Reducer Series



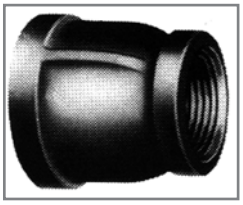
BMST/GSMT Series



BMCR/GMCR Series



BMRHC/GMRHC Series



BMRHC/GMRHC
Reducer Series

BLACK

NO LEAD ✓ LEAD-FREE

GALVANIZED

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Size	Ctn Qty	List Price
TEE Reducing, Cont. fiptxfiptxfipt		
BMT3 x 3 x 3/4	8	$ 262.30
BMT3 x 3 x 1	8	258.52
BMT3 x 3 x 11/4	8	272.37
BMT3 x 3 x 11/2	8	267.47
BMT3 x 3 x 2	8	257.28
BMT3 x 3 x 21/2	8	305.62
STREET TEE fiptxmiptxfipt		
BMST3/4	20/80	29.77
BMST1	12/24	39.34
BMST11/4	10/20	65.84
CROSS fipt		
BMCR1/2	30/120	30.79
BMCR3/4	15/60	37.25
BMCR1	15/30	45.90
BMCR11/4	12/24	74.49
BMCR11/2	8/16	92.31
BMCR2	8	151.78
Right Hand Coupling fiptxfipt		
BMRHC1/4	35/210	10.91
BMRHC3/8	40/240	10.91
BMRHC1/2	40/240	8.42
BMRHC3/4	40/160	9.86
BMRHC1	25/100	14.77
BMRHC11/4	15/60	19.12
BMRHC11/2	10/40	25.85
BMRHC2	8/32	38.28
BMRHC21/2	8	105.66
BMRHC3	8	142.84
BMRHC4	4	287.68
REDUCING COUPLING fiptxfipt		
BMRC1/4 x 1/8 ☺	25/150	11.51
BMRC3/8 x 1/4	25/150	11.51
BMRC1/2 x 1/4	25/150	10.46
BMRC1/2 x 3/8	30/180	9.88
BMRC3/4 x 1/4	35/210	13.20
BMRC3/4 x 3/8	35/210	13.20
BMRC3/4 x 1/2	50/200	11.06
BMRC1 x 3/8	30/120	21.69
BMRC1 x 1/2	30/120	17.63
BMRC1 x 3/4	25/100	17.21
BMRC11/4 x 1/2	15/60	25.98
BMRC11/4 x 3/4	15/60	22.16
BMRC11/4 x 1	15/60	22.16

Size	Ctn Qty	List Price
TEE Reducing, Cont. fiptxfiptxfipt		
GMT3 x 3 x 3/4	8	$ 577.63
GMT3 x 3 x 1	8	414.03
GMT3 x 3 x 11/4	8	437.87
GMT3 x 3 x 11/2	8	429.51
GMT3 x 3 x 2	8	414.03
GMT3 x 3 x 21/2	8	482.23
STREET TEE fiptxmiptxfipt		
GMST3/4	20/80	38.08
GMST1	12/24	60.22
GMST11/4	10/20	100.43
CROSS fipt		
GMCR1/2	30/120	43.69
GMCR3/4	15/60	53.22
GMCR1	15/30	73.45
GMCR11/4	12/24	110.43
GMCR11/2	8/16	129.19
GMCR2	8	244.69
Right Hand Coupling fiptxfipt		
GMRHC1/4	35/210	15.20
GMRHC3/8	40/240	15.72
GMRHC1/2	40/240	12.00
GMRHC3/4	40/160	13.83
GMRHC1	25/100	22.67
GMRHC11/4	15/60	31.98
GMRHC11/2	10/40	36.34
GMRHC2	8/32	53.12
GMRHC21/2	8	162.60
GMRHC3	8	217.33
GMRHC4	4	461.58
REDUCING COUPLING fiptxfipt		
GMRC1/4 x 1/8 ☺	25/150	15.57
GMRC3/8 x 1/4	25/150	15.57
GMRC1/2 x 1/4	25/150	14.00
GMRC1/2 x 3/8	30/180	14.56
GMRC3/4 x 1/4	35/210	17.69
GMRC3/4 x 3/8	35/210	17.69
GMRC3/4 x 1/2	50/200	15.56
GMRC1 x 3/8	30/120	33.71
GMRC1 x 1/2	30/120	25.94
GMRC1 x 3/4	25/100	24.09
GMRC11/4 x 1/2	15/60	43.06
GMRC11/4 x 3/4	15/60	33.55
GMRC11/4 x 1	15/60	32.91

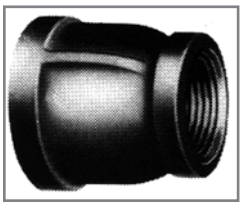
☺ Steel

American Granby™

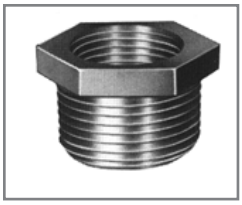
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BMRHC/GMRHC
Reducer Series



BMHB/GMHB Series

☺ Steel

BLACK

NO LEAD ✓ LEAD-FREE

Size	Ctn Qty	List Price
REDUCING COUPLING - con't fiptxfipt		
BMRC11/2 x 1/2	15/60	$ 33.04
BMRC11/2 x 3/4	10/40	37.25
BMRC11/2 x 1	10/40	32.48
BMRC11/2 x 11/4	10/40	28.00
BMRC2 x 1/2	8/32	53.80
BMRC2 x 3/4	8/32	46.45
BMRC2 x 1	15/30	43.90
BMRC2 x 11/4	10/20	46.45
BMRC2 x 11/2	10/20	40.57
BMRC21/2 x 11/2	10	110.65
BMRC21/2 x 2	10	93.26
BMRC3 x 1	8	148.46
BMRC3 x 11/4	8	151.22
BMRC3 x 11/2	8	145.77
BMRC3 x 2	8	120.72
BMRC3 x 21/2	8	140.95
BMRC4 x 2	4	292.19
BMRC4 x 3	4	292.19
HEX BUSHING miptxfipt		
BMHB1/4 x 1/8 ☺	25/150	11.95
BMHB3/8 x 1/8 ☺	25/150	11.95
BMHB3/8 x 1/4 ☺	25/150	11.95
BMHB1/2 x 1/8 ☺	25/150	11.95
BMHB1/2 x 1/4 ☺	25/150	11.95
BMHB1/2 x 3/8 ☺	25/150	11.95
BMHB3/4 x 1/8	25/150	11.28
BMHB3/4 x 1/4	25/150	10.70
BMHB3/4 x 3/8	25/150	11.00
BMHB3/4 x 1/2	25/150	9.88
BMHB1 x 1/8	25/150	16.05
BMHB1 x 1/4	25/150	13.85
BMHB1 x 3/8	25/150	14.24
BMHB1 x 1/2	25/150	10.53
BMHB1 x 3/4	25/150	10.40
BMHB11/4 x 1/8	25/150	19.31
BMHB11/4x1/4	25/150	19.92
BMHB11/4 x 1/2	25/150	15.42
BMHB11/4 x 3/4	25/150	13.56
BMHB11/4 x 1	25/150	13.56
BMHB11/2 x 1/4	15/150	23.22
BMHB11/2 x 1/2	30/120	17.64
BMHB11/2 x 3/4	30/120	17.64
BMHB11/2 x 1	30/120	15.48
BMHB11/2 x 11/4	30/120	17.21
BMHB2 x 1/4	20/80	24.94
BMHB2 x 1/2	20/80	28.02
BMHB2 x 3/4	20/80	22.17
BMHB2 x 1	20/80	21.18
BMHB2 x 11/4	20/80	21.18
BMHB2 x 11/2	20/80	21.68

GALVANIZED

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Size	Ctn Qty	List Price
REDUCING COUPLING - con't fiptxfipt		
GMRC11/2 x 1/2	15/60	$ 50.77
GMRC11/2 x 3/4	10/40	43.26
GMRC11/2 x 1	10/40	43.26
GMRC11/2 x 11/4	10/40	40.85
GMRC2 x 1/2	8/32	73.29
GMRC2 x 3/4	8/32	70.69
GMRC2 x 1	15/30	59.01
GMRC2 x 11/4	10/20	62.40
GMRC2 x 11/2	10/20	59.01
GMRC21/2 x 11/2	10	174.08
GMRC21/2 x 2	10	164.66
GMRC3 x 1	8	231.32
GMRC3 x 11/4	8	231.32
GMRC3 x 11/2	8	218.82
GMRC3 x 2	8	206.82
GMRC3 x 21/2	8	211.19
GMRC4 x 2	4	473.46
GMRC4 x 3	4	473.46
HEX BUSHING miptxfipt		
GMHB1/4 x 1/8 ☺	25/150	19.06
GMHB3/8 x 1/8 ☺	25/150	19.06
GMHB3/8 x 1/4 ☺	25/150	19.06
GMHB1/2 x 1/8 ☺	25/150	19.06
GMHB1/2 x 1/4 ☺	25/150	19.06
GMHB1/2 x 3/8 ☺	25/150	19.06
GMHB3/4 x 1/8	25/150	19.80
GMHB3/4 x 1/4	25/150	19.27
GMHB3/4 x 3/8	25/150	21.54
GMHB3/4 x 1/2	25/150	16.50
GMHB1 x 1/8	25/150	26.49
GMHB1 x 1/4	25/150	22.51
GMHB1 x 3/8	25/150	22.62
GMHB1 x 1/2	25/150	20.35
GMHB1 x 3/4	25/150	18.95
GMHB11/4 x 1/8	25/150	33.14
GMHB11/4 X 1/4	25/150	33.95
GMHB11/4 X 3/8	25/150	33.95
GMHB11/4 x 1/2	25/150	28.93
GMHB11/4 x 3/4	25/150	25.53
GMHB11/4 x 1	25/150	25.53
GMHB11/2 x 1/4	15/120	45.74
GMHB11/2 x 1/2	30/120	35.55
GMHB11/2 x 3/4	30/120	35.55
GMHB11/2 x 1	30/120	32.13
GMHB11/2 x 11/4	30/120	30.79
GMHB2x 1/4	20/80	51.81
GMHB2 x 1/2	20/80	44.56
GMHB2 x 3/4	20/80	41.42
GMHB2 x 1	20/80	41.42
GMHB2 x 11/4	20/80	41.42
GMHB2 x 11/2	20/80	35.72

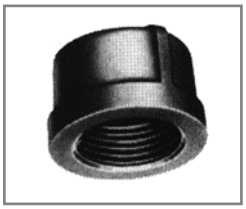
Malleable Iron Fittings - Domestic



BMHB/GMHB Series



BMFB/GMFB Series



BMCA/GMCA Series

Size	Ctn Qty	BLACK List Price	Size	Ctn Qty	GALVANIZED List Price
HEX BUSHING CONT. miptxfipt			**HEX BUSHING CONT. miptxfipt**		
BMHB21/2 x 3/4	20	$ 38.97	GMHB21/2 x 3/4	20	$ 75.43
BMHB21/2 x 1	20	38.97	GMHB21/2 x 1	20	75.43
BMHB21/2 x 11/4	20	38.97	GMHB21/2 x 11/4	20	75.43
BMHB21/2 x 11/2	20	33.92	GMHB21/2 x 11/2	20	67.90
BMHB21/2 x 2	20	33.40	GMHB21/2 x 2	20	59.45
BMHB3 x 1/2	10/20	58.65	GMHB3x1/2	10/20	99.51
BMHB3 x 3/4	10/20	57.26	GMHB3 x 3/4	10/20	99.51
BMHB3 x 1	10/20	52.69	GMHB3 x 1	10/20	99.51
BMHB3 x 11/4	10/20	52.69	GMHB3 x 11/4	10/20	97.20
BMHB3 x 11/2	10/20	52.69	GMHB3 x 11/2	10/20	89.55
BMHB3 x 2	10/20	39.34	GMHB3 x 2	10/20	77.37
BMHB3 x 21/2	10	45.61	GMHB3 x 21/2	10	83.07
BMHB4 x 1	10	119.41	GMHB4 x 1	10	208.54
BMHB4 x 11/4	10	119.41	GMHB4 x 11/4	10	208.54
BMHB4 x 11/2	10	109.96	GMHB4 x 11/2	10	208.54
BMHB4 x 2	10	88.75	GMHB4 x 2	10	162.46
BMHB4 x 21/2	10	107.39	GMHB4 x 21/2	10	208.54
BMHB4 x 3	10	88.75	GMHB4 x 3	10	162.46
FLUSH BUSHING			**FLUSH BUSHING**		
BMFB1 x 3/4	25/150	27.43	GMFB1 x 3/4	25/150	46.22
BMFB11/4 x 1	25/150	29.67	GMFB11/4 x 1	25/150	57.23
DOUBLE TAP BUSHING			**DOUBLE TAP BUSHING**		
BMDTB2X11/4	20	43.80	GMDTB2X1X1	20	73.00
			GMDTB2X11/4X11/4	20	73.00
CAP fipt			**CAP fipt**		
BMCA1/4 ☺	40	8.47	GMCA1/4 ☺	40	11.51
BMCA3/8 ☺	40	7.12	GMCA3/8 ☺	40	11.51
BMCA1/2	50/300	6.14	GMCA1/2	50/300	9.08
BMCA3/4	40/240	8.34	GMCA3/4	40/240	12.57
BMCA1	25/150	10.08	GMCA1	25/150	15.57
BMCA11/4	25/100	13.29	GMCA11/4	25/100	20.51
BMCA11/2	20/80	18.26	GMCA11/2	20/80	26.28
BMCA2	10/40	26.64	GMCA2	10/40	36.81
BMCA21/2	6/12	60.70	GMCA21/2	6/12	106.92
BMCA3	6/12	90.18	GMCA3	6/12	129.57
BMCA4	5/10	154.64	GMCA4	5/10	286.28

☺ Steel

American Granby

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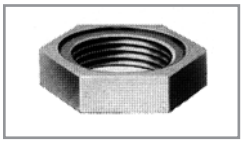
In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204

Malleable Iron Fittings - Domestic

BLACK — NO LEAD ✓ LEAD-FREE

GALVANIZED — NO LEAD < 0.25% Pb by weighted avg, Third Party Certified to NSF / ANSI 372



BMLN/GMLN Series



BMP/GMP Series



BMU/GMU Series



BMFF/GMFF Series

☺ Steel

Size	Ctn Qty	List Price
LOCK NUT		
BMLN1/8 ☺	100/600	$ 7.59
BMLN1/4 ☺	100/600	6.98
BMLN3/8	50/300	**10.15**
BMLN1/2	50/300	**8.72**
BMLN3/4	50/300	**9.48**
BMLN1	40/160	**18.20**
BMLN11/4	40/160	**15.04**
BMLN11/2	40/160	**21.00**
BMLN2	25/100	**34.86**
Square Head Plug mipt		
BMP1/8 ☺	100	$ 1.02
BMP1/4 ☺	100	1.02
BMP3/8 ☺	100	1.02
BMP1/2 ☺	100	1.11
BMP3/4 ☺	100	1.23
BMP1	40/240	**5.68**
BMP11/4	40/160	**9.06**
BMP11/2	40/80	**12.82**
BMP2	25/50	**14.98**
BMP21/2	20/40	**36.47**
BMP3	10/20	**42.24**
BMP4 (BAR HEAD)	5/10	**87.01**
BMP5 (BAR HEAD)	5/5	**163.57**
Unions, 150 lbs UL Listed		
BMU150-1/8	25/150	**49.25**
BMU150-1/4	35/210	**45.58**
BMU150-3/8	35/210	**31.40**
BMU150-1/2	40/160	**28.44**
BMU150-3/4	30/60	**32.69**
BMU150-1	25/50	**42.60**
BMU150-11/4	15/30	**61.10**
BMU150-11/2	12/24	**76.18**
BMU150-2	8/16	**88.57**
BMU150-21/2	8	**263.92**
BMU150-3	8	**317.70**
BMU150-4	1	**784.17**
FLOOR FLANGE (diameter)		
BMFF1/4 2 3/8"	25/150	**28.40**
BMFF3/8 2 15/16"	25/150	**28.40**
BMFF1/2 3"	30/120	**28.40**
BMFF3/4 3 1/4"	30/120	**28.40**
BMFF1 3 7/8"	30/60	**35.69**
BMFF11/4 3 7/8"	30/60	**35.69**
BMFF11/2 4 1/2"	10/40	**45.90**
BMFF2 5 1/2"	15/30	**55.22**
BMFF21/2 5 13/16"	10	**60.59**
BMFF3 6 3/8"	10	**76.50**

Size	Ctn Qty	List Price
LOCK NUT		
GMLN1/8 ☺	100/600	$ **9.05**
GMLN1/4 ☺	100/600	**7.33**
GMLN3/8	50/300	**12.74**
GMLN1/2	50/300	**10.29**
GMLN3/4	50/300	**12.06**
GMLN1	40/160	**21.93**
GMLN11/4	40/160	**21.05**
GMLN11/2	40/160	**27.32**
GMLN2	25/100	**48.11**
Square Head Plug mipt		
GMP1/8 ☺	100	$ 1.52
GMP1/4 ☺	100	1.54
GMP3/8 ☺	100	1.54
GMP1/2 ☺	100	1.66
GMP3/4 ☺	100	1.79
GMP1	40/240	**12.17**
GMP11/4	40/160	**20.29**
GMP11/2	40/80	**27.41**
GMP2	40/50	**34.02**
GMP21/2	20/40	**71.90**
GMP3	10/20	**92.07**
GMP4 (BAR HEAD)	5/10	**178.57**
GMP5 (BAR HEAD)	5/5	**355.03**
Unions, 150 lbs UL Listed		
GMU150-1/8	25/150	**70.21**
GMU150-1/4	35/210	**61.82**
GMU150-3/8	35/210	**41.38**
GMU150-1/2	40/160	**37.74**
GMU150-3/4	30/60	**43.38**
GMU150-1	25/50	**56.82**
GMU150-11/4	15/30	**82.13**
GMU150-11/2	12/24	**99.51**
GMU150-2	8/16	**114.41**
GMU150-21/2	8	**397.39**
GMU150-3	8	**556.17**
GMU150-4	1	**1126.83**
FLOOR FLANGE (diameter)		
GMFF1/4 2 3/8"	25/150	**55.25**
GMFF3/8 2 15/16"	25/150	**55.25**
GMFF1/2 3"	30/120	**70.97**
GMFF3/4 3 1/4"	30/120	**70.97**
GMFF1 3 7/8"	30/60	**64.77**
GMFF11/4 3 7/8"	30/60	**86.09**
GMFF11/2 4 1/2"	10/40	**110.29**
GMFF2 5 1/2"	15/30	**140.08**
GMFF21/2 5 13/16"	10	**170.29**
GMFF3 6 3/8"	10	**166.22**

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299

In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Schedule 80 PVC and CPVC Nipple Features:

- Sturdy, Sch 80 PVC, CPVC
- Chemical Resistant.
- Gray or white (1/2" thru 2") in Sch 80 PVC.
- Threaded on both ends.
- Standard carton quantity of 50 (1/2" diam) or 25 (3/4"thru 2" diam).
- Threaded one end only (TOE) available upon request.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

ORDER BY SIZE ONLY (DIAMETER X LENGTH)
EXAMPLES: 1/2X3 FOR GRAY PVC
1/2X3W FOR WHITE PVC
CPVC1XCLOSE FOR CPVC

SCHEDULE 80 PVC NIPPLE LIST PRICES-GRAY & WHITE
(SHADED AREA INDICATES SIZES AVAILABLE IN WHITE PVC)

PIPE DIA.	LENGTH CLOSE	CLOSE	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
1/4"	7/8"	0.89		1.03		1.13	1.25					2.52
3/8"	1"	0.89		1.03						2.16		
1/2"	1 1/8"	0.74	0.78	0.78	0.83	0.90	0.98	1.19	1.29	1.50	1.75	1.89
3/4"	1 3/8"	0.78		0.83	0.90	0.92	1.11	1.32	1.56	1.81	2.16	2.32
1"	1 1/2"	1.11		1.22	1.32	1.38	1.61	2.00	2.19	2.59	3.11	3.45
1 1/4"	1 5/8"	1.64		1.75	1.92	2.11	2.48	2.91	3.20	3.90	4.50	5.05
1 1/2"	1 3/4"	2.04		2.11	2.33	2.55	2.94	3.40	3.90	4.62	5.33	5.73
2"	2"	2.70			2.94	3.20	3.72	4.37	4.88	5.96	7.08	8.11
3"		9.86				10.73	12.53		16.10	19.67	23.27	26.84
4"		16.17					16.78		21.07	25.58	30.39	35.05

SCHEDULE 80 PVC NIPPLE LIST PRICES
PRE-CUT PIPE THREADED BOTH ENDS

PIPE DIA.	LENGTH 18"	24"	30"	36"	48"
1/2"	2.57	3.16	3.94	4.79	5.94
3/4"	3.09	3.93	4.90	6.08	8.14
1"	4.95	5.92		8.80	11.24
1 1/4"	7.41	9.52			17.90
1 1/2"		11.24		16.04	
2"			17.63	21.21	
3"	37.57	48.30			

SCHEDULE 80 CPVC PIPE NIPPLES

PART NO.	SIZE	CTN QTY	LIST PRICE
CPVC1XCLOSE	1 X CLOSE	25	$ 2.91
CPVC11/2xCLOSE	1 1/2 x CLOSE	25	4.23
CPVC11/2X6	1 1/2X 6	25	12.18
CPVC11/2x8	1 1/2 x 8	25	15.55
CPVC11/2X12	1 1/2 X 12	25	23.08
CPVC2XCLOSE	2 X CLOSE	25	7.07
CPVC2X6	2 X 6	25	17.38
CPVC2x8	2 x 8	25	21.60
CPVC2X12	2 X 12	BULK	31.71
CPVC2x24	2 x 24	BULK	64.18

Nipples - Red Brass, Stainless Steel



Red Brass Nipple Features:

- Red Brass pipe conforms to ASTM B43-91 and ASTM B687-99 R-2011
- 85% copper, 15% zinc, no lead
- **Third party certified to NSF/ANSI 372.**

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

ORDER BY PART NUMBER B80 WITH SIZE (DIAMETER X LENGTH)
EXAMPLE: B80-1/2 X 3

RED BRASS PIPE NIPPLE LIST PRICES

PIPE DIA.	LENGTH CLOSE	CLOSE	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"
1/8"	3/4"	$2.37	2.67	2.87	3.26	3.52	3.79	4.27	4.83	5.23	5.65	6.04
1/4"	7/8"	2.77	3.21	3.64	3.94	4.62	5.13	5.91	6.57	7.13	7.72	8.70
3/8"	1"	2.87	3.40	4.14	4.54	5.48	6.02	7.19	7.63	8.38	9.11	9.86
1/2"	1 1/8"	3.84	4.44	5.21	6.20	7.27	8.32	9.52	10.34	11.38	12.50	13.86
3/4"	1 3/8"	5.52	5.88	6.96	8.08	9.32	10.45	12.13	13.21	14.57	15.92	17.73
1"	1 1/2"	8.15		10.04	11.72	13.50	15.63	17.59	19.61	21.69	23.74	25.88
1 1/4"	1 5/8"	12.29		14.03	15.87	18.78	21.98	24.74	27.39	30.22	33.06	36.18
1 1/2"	1 3/4"	15.98		17.20	20.60	23.66	27.18	30.83	34.65	38.34	41.94	45.55
2"	2"	24.33			26.28	30.32	34.90	39.68	44.22	49.03	53.80	57.57



304 Stainless Steel Nipple Features:

- 304 Stainless steel pipe conforms to ASTM A312/A312M
- Dimension conforms to ASTM A733
- Thread conforms to ANSI/ASME B1.20.1

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

ORDER BY PART NUMBER SS80 WITH SIZE (DIAMETER X LENGTH)
EXAMPLE: SS80-1/2 X 3

STAINLESS STEEL PIPE NIPPLE LIST PRICES

PIPE DIA.	LENGTH CLOSE	CLOSE	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"
1/8"	3/4"	$2.26	2.60	2.76	3.02	3.28	3.54	3.69	3.89	4.15	4.34	4.60
1/4"	7/8"	1.84	2.25	2.51	2.78	3.07	3.34	3.61	3.89	4.15	4.42	4.70
3/8"	1"	2.25	2.65	3.00	3.40	3.75	4.15	4.49	4.83	5.24	5.58	5.99
1/2"	1 1/8"	2.92	3.26	3.75	4.21	4.70	5.16	5.66	6.12	6.57	7.15	7.61
3/4"	1 3/8"	3.75	3.89	4.54	5.16	5.85	6.46	7.08	7.76	8.37	8.99	9.66
1"	1 1/2"	4.98		5.92	6.82	7.76	8.72	9.60	10.54	11.44	13.29	14.32
1 1/4"	1 5/8"	6.60		7.54	8.77	10.08	11.28	12.59	14.90	16.20	17.59	18.97
1 1/2"	1 3/4"	8.16		8.91	10.41	11.91	13.40	15.98	17.63	19.23	20.79	22.45
2"	2"	11.44			13.40	15.45	18.74	20.94	23.07	25.31	27.45	29.63

American Granby

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In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204



Black Steel Nipple Features:

- Standard carton quantity is 25 pieces for all diameters up to 2”and all lengths up to 6”.
- Carton quantities required for nipples through 2” diameter.
- Imported.

ORDER BY PART NUMBER **BS80** WITH SIZE (DIAMETER X LENGTH)
EXAMPLE: **BS80-1/2 x 3**

NO LEAD ✓ LEAD-FREE

BLACK STEEL PIPE NIPPLE LIST PRICES
STANDARD WELDED

PIPE DIA.	LENGTH CLOSE	CLOSE	1 1/2”	2”	2 1/2”	3”	3 1/2”	4”	4 1/2”	5”	5 1/2”	6”	7”	8”	9”	10”	11”	12”
1/8”	3/4”	1.35	1.66	1.66	1.94	1.94	2.33	2.33	4.44	4.44	4.86	4.94		6.70		7.66		
1/4”	7/8”	1.64	1.73	1.73	2.22	2.22	2.57	2.57	3.92	3.92	4.62	4.62	7.10	7.10		8.34		9.19
3/8”	1”	1.66	1.87	1.87	2.44	2.44	2.85	2.85	4.12	4.12	4.58	4.58	8.04	8.04	9.03	9.03	10.27	10.27
1/2”	1 1/8”	1.39	1.39	1.39	1.66	1.66	2.00	2.00	2.33	2.33	2.61	2.61	4.70	4.70	5.65	5.65	6.75	6.75
3/4”	1 3/8”	1.60	1.73	1.73	1.97	1.97	2.44	2.44	3.02	3.02	3.44	3.44	5.76	5.76	6.69	6.69	7.42	7.42
1”	1 1/2”	2.33		2.57	2.70	2.70	3.35	3.35	3.99	3.99	4.70	4.70	7.69	7.69	9.02	9.02	10.33	10.33
11/4”	1 5/8”	2.98		3.34	3.57	3.57	4.21	4.21	5.71	5.71	6.01	6.01	9.66	9.66	11.62	11.62	13.14	13.14
11/2”	1 3/4”	3.67		3.98	4.44	4.44	4.99	4.99	6.09	6.09	7.84	7.84	1.09	11.09	12.96	12.96	14.95	14.95
2”	2”	5.00			5.76	5.76	6.98	6.98	8.01	8.01	9.58	9.58	15.77	15.77	18.51	18.51	21.32	21.32
21/2”	2 1/2”	15.69				16.12	18.98	18.98		20.79	21.72	21.72		27.63		31.06		34.52
3”	2 5/8”	18.64				20.25	24.02	24.02	26.49	26.49	28.77	28.77	38.86	38.86		43.65	48.40	48.40
4”	2 7/8”	28.13						32.52	37.14	37.14	39.71	39.71	45.85	45.85		52.19		61.18
6”	3 1/8”	66.15										115.49		151.18		185.58		220.04

BLACK STEEL PIPE NIPPLE LIST PRICES
PRE-CUT PIPE THREADED BOTH ENDS

PIPE DIA.	PACK QTY	18”	24”	30”	36”	48”	60”	72”
3/8”	5	$ 13.67	17.06					
1/2”	5	10.22	13.42	15.71	18.47	23.38	28.04	34.49
3/4”	5	12.66	16.21	18.95	22.45	29.85	36.56	42.05
1”	3	16.24	21.28	24.50	29.62	38.66	51.38	57.49
1 1/4”	3	20.70	27.88	32.90	40.96	54.31	64.07	
1 1/2”	3	23.65	31.93	38.00	45.41	59.45	80.82	90.20
2”	3	32.90	43.63	50.18	62.37	77.23	99.34	
2 1/2”	3		61.20					
3”	3	77.33	74.23		146.83	171.59		
4”	3	96.54	140.31					

Black Steel Tank Leg Features:

- For use with standard steel tanks
- No cradle required
- Threaded one end x square cut

PART NO.	CTN QTY	LIST PRICE
BS80-11/4X10TOE	5/20	$ 10.09
BS80-11/4X11TOE	5/20	11.08
BS80-11/4X12TOE	5/20	12.01
BS80-11/4X13TOE	5/20	18.11

Nipples - Galvanized Steel



Galvanized Steel Nipple Features:

- Standard carton quantity is 25 pieces for all diameters up to 2”and all lengths up to 6”.
- Carton quantities required for nipples through 2” diameter.
- Imported.

ORDER BY PART NUMBER **GS80** WITH SIZE (DIAMETER X LENGTH)
EXAMPLE: **GS80-1/2 X 3**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

GALVANIZED STEEL PIPE NIPPLE LIST PRICES
STANDARD WELDED

PIPE DIA.	LENGTH CLOSE	CLOSE	1 1/2”	2”	2 1/2”	3”	3 1/2”	4”	4 1/2”	5”	5 1/2”	6”	7”	8”	9”	10”	11”	12”
1/8”	3/4”	1.69	2.36	2.36	3.12	3.12	3.67	3.67	6.20	6.20	6.98	6.98		9.04				
1/4”	7/8”	1.83	2.15	2.15	2.79	2.79	3.34	3.34	4.58	4.58	5.11	5.11	8.75	8.75	10.16	10.16		11.31
3/8”	1”	1.98	2.28	2.28	3.03	3.03	3.61	3.61	4.99	4.99	5.53	5.53		8.85		10.53		11.69
1/2”	1 1/8”	1.60	1.69	1.69	2.00	2.00	2.47	2.47	2.98	2.98	3.35	3.35	5.91	5.91	7.03	7.03	8.00	8.00
3/4”	1 3/8”	1.97	2.11	2.11	2.36	2.36	3.02	3.02	3.62	3.62	4.35	4.35	7.58	7.58	8.42	8.42	9.37	9.37
1”	1 1/2”	2.69		3.17	3.44	3.44	4.12	4.12	5.04	5.04	5.75	5.75	9.58	9.58	10.95	10.95	12.75	12.75
11/4”	1 5/8”	3.61		3.92	4.25	4.25	5.04	5.04	6.24	6.24	7.27	7.27	11.77	11.77	14.03	14.03	16.89	16.89
11/2”	1 3/4”	4.23		4.53	5.04	5.04	6.41	6.41	7.71	7.71	8.67	8.67	13.48	13.48	15.69	15.69		17.97
2”	2”	5.94			6.69	6.69	8.13	8.13	10.38	10.38	12.08	12.08	19.64	19.64	22.99	22.99	26.37	26.37
21/2”	2 1/2”	17.72				18.40	21.35	21.35	23.79	23.79	26.13	26.13	33.66	33.66		38.36	42.91	42.91
3”	2 5/8”	21.22				24.16	28.32	28.32	33.03	33.03	34.94	34.94	47.05	47.05	53.65	53.65	60.33	60.33
4”	2 7/8”	31.79						38.03	42.63	42.63	47.16	47.16		56.23		65.18		74.20
6”	3 1/8”	80.44						99.32				140.42		183.76		225.64		267.46

GALVANIZED STEEL PIPE NIPPLE LIST PRICES
PRE-CUT PIPE THREADED BOTH ENDS

PIPE DIA.	PACK QTY	18”	24”	30”	36”	48”	60”	72”
3/8”	5	16.40						
1/2”	5	12.59	16.21	19.15	22.12	28.38	34.98	41.28
3/4”	5	14.98	19.22	23.63	27.09	35.44	43.35	51.22
1”	3	19.28	25.66	29.97	34.24	47.96	60.33	
1 1/4”	3	25.41	34.07	40.26	46.43	61.55	76.54	
1 1/2”	3	28.89	38.62	46.68	54.71	72.69	92.11	
2”	3	39.43	52.09	64.71	74.40	96.75	120.87	
2 1/2”	3	51.62	76.08	93.12				
3”	3	67.55	106.89	142.59	144.99	192.03		
4”	3	105.01	131.47		249.70	335.68	312.81	

GALVANIZED STEEL REDUCING PIPE NIPPLES

PART NO.	SIZE	CTN QTY	LIST PRICE
GSR80-11/4x1x31/2	1 1/4 x 1 x 3 1/2	25	18.95
GSR80-1x3/4x3	1 x 3/4 x 3	25	17.69

American Granby
www.americangranby.com
In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

PRICE GROUP	DESCRIPTION	DISCOUNT MULTIPLIER
05	PVC INSERT FITTINGS	

American Granby

PRODUCTS | PRICE LIST

PVC INSERT PRESSURE FITTINGS

AGINS | EFFECTIVE JULY 1, 2019

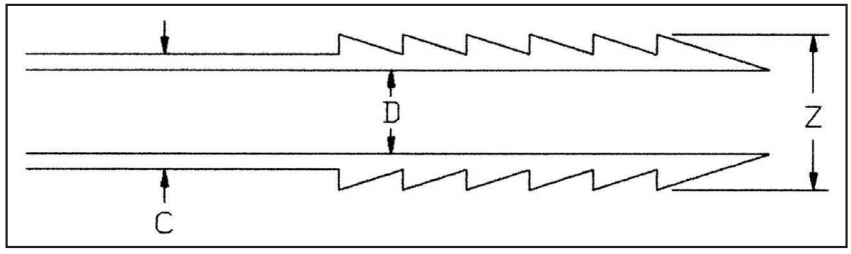
RECOMMENDED INSTALLATION PROCEDURES

INSERT (BARBED) CONNECTIONS:

Sizes **½, ¾ and 1inch** - one clamp directly over barbs.

Sizes **1¼ inch and greater** - one clamp directly over barbs plus one additional clamp.

INSERT DIAMETER DIMENSIONS



MAXIMUM DIAMETERS

Size	C MAX	D MIN	Z MAX
½	0.635	0.406	0.665
¾	0.835	0.562	0.865
1	1.055	0.750	1.095
1¼	1.375	0.995	1.425
1½	1.605	1.125	1.665
2	2.065	1.656	2.125
2½	2.460	2.062	2.520
3	3.065	2.600	3.125
4	4.030	3.525	4.090

TEES



Insert

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-005	½	50	05	2.59
1401-007	¾	50	05	2.81
1401-010	1	25	05	3.66
1401-012	1¼	10	05	5.69
1401-015	1½	10	05	6.46
1401-020	2	10	05	12.77
1401-030	3	5	05	45.95



Insert x Insert x Reducing Insert

REDUCING TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-101	¾ x ¾ x ½	25	05	3.18
1401-130	1 x 1 x ½	25	05	3.72
1401-131	1 x 1 x ¾	25	05	3.75
1401-166	1¼ x 1¼ x ½	25	05	4.88
1401-167	1¼ x 1¼ x ¾	25	05	4.88
1401-168	1¼ x 1¼ x 1	25	05	4.88
1401-209	1½ x 1½ x ½	10	05	8.52
1401-210	1½ x 1½ x ¾	10	05	8.52
1401-211	1½ x 1½ x 1	10	05	8.52
1401-212	1½ x 1½ x 1¼	10	05	8.52
1401-247	2 x 2 x ½	10	05	12.12
1401-248	2 x 2 x ¾	10	05	12.12
1401-249	2 x 2 x 1	10	05	12.12
1401-250	2 x 2 x 1¼	10	05	12.68
1401-251	2 x 2 x 1½	10	05	13.07



Insert x Reducing Insert x Reducing Insert

REDUCING TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-094	¾ x ½ x ½	25	05	3.49
1401-125	1 x ¾ x ¾	25	05	6.05
1401-157	1¼ x 1 x ¾	25	05	6.95
1401-158	1¼ x 1 x 1	25	05	6.95
1401-202	1½ x 1¼ x 1	10	05	8.73
1401-203	1½ x 1¼ x 1¼	10	05	8.73



Insert x Insert x Double Helix

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-099	¾	25	05	4.03
1401-129	1	25	05	4.40



Slip x Slip x Insert

TRANSITION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1102-249	2 x 2 x 1	10	01	6.39*

*See Schedule 40 Price List; Discounts will vary.



Insert x Insert x Bullhead Insert

BULLHEAD TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-074	½ x ½ x ¾	25	05	6.99
1401-102	¾ x ¾ x 1	25	05	8.05
1401-132	1 x 1 x 1¼	25	05	11.24



Insert x Insert x FPT

COMBINATION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1402-005	½	50	05	2.81
1402-007	¾	50	05	4.22
1402-010	1	25	05	4.97
1402-012	1¼	10	05	7.31
1402-015	1½	10	05	12.68
1402-020	2	10	05	15.74



Insert x Insert x FPT

COMBINATION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1402-101	¾ x ¾ x ½	25	05	3.49
1402-130	1 x 1 x ½	25	05	4.60
1402-131	1 x 1 x ¾	25	05	4.60
1402-166	1¼ x 1¼ x ½	25	05	6.25
1402-167	1¼ x 1¼ x ¾	25	05	6.92
1402-168	1¼ x 1¼ x 1	25	05	7.31
1402-209	1½ x 1½ x ½	10	05	9.63
1402-210	1½ x 1½ x ¾	10	05	11.43
1402-211	1½ x 1½ x 1	10	05	11.43
1402-212	1½ x 1½ x 1¼	10	05	11.71
1402-247	2 x 2 x ½	10	05	12.91
1402-248	2 x 2 x ¾	10	05	13.66
1402-249	2 x 2 x 1	10	05	15.03
1402-251	2 x 2 x 1½	10	05	15.74



Insert x Reducing Insert x Reducing FPT

COMBINATION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1402-094	¾ x ½	25	05	4.59
1402-124	1 x ¾ x ½	25	05	5.73
1402-125	1 x ¾ x ¾	25	05	6.82
1402-156	1¼ x 1 x ½	25	05	8.45
1402-157	1¼ x 1 x ¾	25	05	9.89



Insert x Insert x MPT

COMBINATION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1403-005	½	50	05	3.58
1403-007	¾	50	05	4.88
1403-010	1	25	05	6.25
1403-012	1¼	10	05	8.17
1403-015	1½	10	05	9.12



Insert x Insert

90° ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
1406-005	½	50	05	2.36
1406-007	¾	50	05	2.89
1406-010	1	25	05	3.19
1406-012	1¼	10	05	3.58
1406-015	1½	10	05	4.22
1406-020	2	10	05	5.91
1406-030	3	8	05	33.6



Insert x Reducing Insert

90° REDUCING ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
1406-101	¾ x ½	25	05	2.74
1406-131	1 x ¾	25	05	3.36
1406-168	1¼ x 1	25	05	4.97
1406-212	1½ x 1¼	10	05	5.91



Insert x FPT

90° COMBINATION ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
1407-005	½	50	05	2.66
1407-007	¾	50	05	2.89
1407-010	1	25	05	3.72
1407-012	1¼	10	05	5.51
1407-015	1½	10	05	6.25
1407-020	2	10	05	10.60



Insert x FPT

90° Reducing Combination Elbow

Part No	Size (in)	Ctn Qty	Code	List Price
1407-101	¾ x ½	50	05	2.74
1407-130	1 x ½	25	05	2.89
1407-131	1 x ¾	25	05	3.36
1407-166	1¼ x ½	25	05	4.97
1407-167	1¼ x ¾	25	05	4.97
1407-168	1¼ x 1	25	05	4.97
1407-211	1½ x 1	10	05	5.66
1407-212	1½ x 1¼	10	05	6.15
1407-251	2 x 1½	10	05	10.04



Insert x Slip

90° ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
127-957	1½	50	05	10.78



Insert x MPT

90° COMBINATION ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
1413-005	½	50	05	2.97
1413-007	¾	50	05	4.13
1413-010	1	25	05	5.40
1413-012	1¼	10	05	7.18
1413-015	1½	10	05	9.54
1413-020	2	10	05	15.06



FIPT x Insert

SIDE OUTLET ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
1414-101	¾ x ¾ x ½	50	05	6.82
1414-130	1 x 1 x ½	25	05	7.33
1414-131	1 x 1 x ¾	25	05	7.33



Insert

SIDE OUTLET TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1416-007	¾	50	05	8.80
1416-101	¾ x ½	50	05	8.80
1416-130	1 x ½	50	05	9.35
1416-131	1 x ¾	50	05	9.35

CROSS



Insert

CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
1420-007	¾	25	05	6.78
1420-010	1	25	05	8.42

COUPLINGS, ADAPTERS



Insert x Insert

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
1429-005	½	50	05	1.21
1429-007	¾	50	05	1.45
1429-010	1	50	05	1.53
1429-012	1¼	25	05	2.24
1429-015	1½	25	05	2.65
1429-020	2	10	05	5.06
1429-030	3	10	05	22.07
1429-040	4	10	05	30.04



Insert x Reducing Insert

REDUCING COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
1429-101	¾ x ½	50	05	1.96
1429-130	1 x ½	50	05	2.67
1429-131	1 x ¾	50	05	2.03
1429-167	1¼ x ¾	25	05	4.14
1429-168	1¼ x 1	25	05	3.19
1429-210	1½ x ¾	25	05	5.06
1429-211	1½ x 1	25	05	4.83
1429-212	1½x1¼	25	05	3.75
1429-249	2 x 1	10	05	6.82
1429-250	2 x 1¼	10	05	6.35
1429-251	2 x 1½	10	05	6.04



Insert x Double Helix

REDUCING COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
1429-099	¾	50	05	2.61
1429-129	1	50	05	2.79

ADAPTERS



Insert x Spg/Slip

FITTING ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1432-010	1 x 1 Spigot (¾ Slip)	50	05	3.58
1432-131	¾ x 1 Spigot (¾ Slip)	50	05	3.58



Insert x FPT

FEMALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1435-005	½	50	05	5.29
1435-007	¾	50	05	5.73
1435-101	½ x ¾	50	05	6.79
1435-010	1	50	05	6.35
1435-012	1¼	25	05	7.79
1435-015	1½	25	05	9.89
1435-020	2	10	05	12.58



Insert x MPT

MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1436-005	½	50	05	1.20
1436-007	¾	50	05	1.45
1436-010	1	50	05	1.51
1436-012	1¼	20	05	2.38
1436-015	1½	25	05	2.65
1436-020	2	10	05	5.09
1436-030	3	10	05	24.07
1436-040	4	10	05	33.46



Reducing MPT x Insert

REDUCING MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1436-074	½ x ¾	50	05	3.75
1436-075	½ x 1	50	05	3.91
1436-102	¾ x 1	50	05	3.91
1436-132	1 x 1¼	25	05	4.72
1436-133	1 x 1½	25	05	7.13
1436-169	1¼ x 1½	10	05	7.13
1436-213	1 ½ x 2	10	05	9.15



MPT x Reducing Insert

REDUCING MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1436-101	¾ x ½	50	05	3.39
1436-131	1 x ¾	50	05	3.49
1436-167	1¼ x ¾	25	05	4.14
1436-168	1¼ x 1	25	05	4.43
1436-211	1½ x 1	25	05	5.40
1436-212	1½ x 1¼	25	05	5.40
1436-251	2 x 1½	10	05	9.08



MPT x 2" length SP

POOL ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1436-170	1¼	25	05	6.39
1436-205	1½ x 1¼ x 2	25	05	7.36



Insert x SP

INSERT ADAPTER (WHITE PVC)

Part No	Size (in)	Ctn Qty	Code	List Price
460-007	¾ x ¾ SP (½ Slip)	50	01	*
460-010	1 x 1 SP (¾ Slip)	50	01	*
460-015	1½ x 1½ SP	25	01	*

*See Schedule 40 Price List; Discounts will vary.



Slip x Insert PVC pipe to Flexible pipe

ADAPTER (WHITE PVC)

Part No	Size (in)	Ctn Qty	Code	List Price
474-007	¾	50	01	*
474-010	1	50	01	*
474-015	1½	25	01	*

*See Schedule 40 Price List; Discounts will vary.



Insert

INSERT PLUG

Part No	Size (in)	Ctn Qty	Code	List Price
1449-005	½	100	05	2.15
1449-007	¾	100	05	2.24
1449-010	1	50	05	3.01
1449-012	1¼	25	05	3.82
1449-015	1½	25	05	4.18
1449-020	2	10	05	7.36

RISER EXTENDER



MPT x FPT

RISER EXTENDER (WHITE PVC)

Part No	Size (in)	Ctn Qty	Code	List Price
434-005	½ x $2^{1}/_{16}$ lg	50	01	*
434-007	¾ x $1^{5}/_{8}$ lg	50	01	*
434-008	¾ x $2^{15}/_{16}$ lg	50	01	*
434-020	2 x $2^{11}/_{16}$ lg	25	01	*
439-005	½ x $1^{3}/_{8}$ lg	50	01	*

*See Schedule 40 Price List; Discounts will vary.

PVC INSERT FITTINGS
PRICE LIST

DO NOT USE LASCO FITTINGS FOR COMPRESSED AIR OR GASES.
DO NOT TEST PVC PIPING SYSTEMS WITH COMPRESSED AIR OR GASES.
DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY LASCO.
MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.



⚠WARNING:
USE OF COMPRESSED AIR OR GAS IN PVC/CPVC PIPE AND FITTINGS CAN RESULT IN EXPLOSIVE FAILURES AND CAUSE SEVERE INJURY OR DEATH.

STANDARDS AND SPECIFICATIONS – PVC INSERTS

ASTM D-2609	–	Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe.
ASTM D-1784	–	Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
ASTM F-1970	–	Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems.
MATERIAL	–	LASCO Schedule 40 Fittings are produced from PVC TYPE 1, CELL Classification 12454-B.
LISTINGS	–	NSF (National Sanitation Foundation) for potable water services.

American Granby

CUSTOMER SERVICE
Phone: (315) 451-1100 or (800) 776-2266 | Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

PRICE GROUP	DESCRIPTION	DISCOUNT MULTIPLIER
01	SCH 40 PVC through 8"	
91	SCH 40 PVC 10" AND LARGER	

American Granby
Phone: (315) 451-1100 or (800) 776-2266
Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

PRODUCTS | PRICE LIST

SCHEDULE 40 PVC PRESSURE FITTINGS

INCLUDES: SCHEDULE 40 PVC 3/8" TO 12"

AG40P | EFFECTIVE JULY 1, 2019

NOTES



Slip x Slip x Slip

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
401-003	⅜	100	01	3.04
401-005	½	50	01	0.98
401-007	¾	50	01	1.13
401-010	1	50	01	2.12
401-012	1¼	25	01	3.29
401-015	1½	25	01	4.00
401-020	2	25	01	5.83
401-025	2½	10	01	19.23
401-030	3	10	01	25.27
401-040	4	5	01	45.73
401-050	5	4	01	110.43
401-060	6	4	01	153.93
401-080	8	2	01	356.98
401-100	10	1	91	1182.85
401-120	12	1	91	1747.66

Slip x Slip x Slip

REDUCER TEE

Part No	Size (in)	Ctn Qty	Code	List Price
401-094	¾ x ½ x ½	50	01	1.91
401-095	¾ x ½ x ¾	50	01	1.91
401-101	¾ x ¾ x ½	50	01	1.31
401-122	1 x ½ x 1	50	01	3.74
401-124	1 x ¾ x ½	50	01	3.74
401-125	1 x ¾ x ¾	50	01	3.74
401-126	1 x ¾ x 1	50	01	3.74
401-130	1 x 1 x ½	50	01	2.23
401-131	1 x 1 x ¾	50	01	2.43
401-156	1¼ x 1 x ½	25	01	5.11
401-157	1¼ x 1 x ¾	25	01	5.11
401-158	1¼ x 1 x 1	25	01	5.11
401-166	1¼ x 1¼ x ½	25	01	3.62
401-167	1¼ x 1¼ x ¾	25	01	3.62
401-168	1¼ x 1¼ x 1	25	01	3.62
401-199	1½ x 1¼ x ½	25	01	6.35
401-201	1½ x 1¼ x ¾	25	01	6.35
401-202	1½ x 1¼ x 1	25	01	6.35
401-209	1½ x 1½ x ½	25	01	6.35
401-210	1½ x 1½ x ¾	25	01	6.35
401-211	1½ x 1½ x 1	25	01	6.35
401-212	1½ x 1½ x 1¼	25	01	6.35
401-238	2 x 1½ x ¾	10	01	9.07
401-239	2 x 1½ x 1	10	01	9.07
401-241	2 x 1½ x 1½	10	01	9.07
401-247	2 x 2 x ½	10	01	6.24
401-248	2 x 2 x ¾	10	01	6.24
401-249	2 x 2 x 1	10	01	6.24
401-250	2 x 2 x 1¼	10	01	6.24
401-251	2 x 2 x 1½	10	01	6.24
401-287	2½ x 2½ x ½	10	01	19.20
401-288	2½ x 2½ x ¾	10	01	19.20
401-289	2½ x 2½ x 1	10	01	19.20
401-290	2½ x 2½ x 1¼	10	01	19.20
401-291	2½ x 2½ x 1½	10	01	19.20
401-292	2½ x 2½ x 2	10	01	19.20
401-333	3 x 3 x ½	10	01	27.51
401-334	3 x 3 x ¾	10	01	27.51



Slip x Slip x Slip

REDUCER TEE (Con't.)

Part No	Size (in)	Ctn Qty	Code	List Price
401-335	3 x 3 x 1	10	01	27.51
401-336	3 x 3 x 1¼	10	01	27.51
401-337	3 x 3 x 1½	10	01	27.51
401-338	3 x 3 x 2	10	01	27.45
401-339	3 x 3 x 2½	10	01	34.34
NEW PRODUCT 401-415	4 x 4 x ½*	4	01	47.51
401-416	4 x 4 x ¾	4	01	45.73
401-417	4 x 4 x 1	5	01	45.73
401-418	4 x 4 x 1¼	5	01	45.73
401-419	4 x 4 x 1½	5	01	45.73
401-420	4 x 4 x 2	5	01	45.73
401-422	4 x 4 x 3	5	01	45.73
401-486	5 x 5 x 2	5	01	107.23
401-488	5 x 5 x 3	5	01	107.23
401-490	5 x 5 x 4	5	01	107.23
401-528	6 x 6 x 2	5	01	153.93
401-530	6 x 6 x 3	5	01	153.93
401-532	6 x 6 x 4	5	01	153.93
401-582	8 x 8 x 4	2	01	356.98
401-585	8 x 8 x 6	2	01	356.98
NEW PRODUCT 401-621	10 x 10 x 2*	1	91	1,059.97
NEW PRODUCT 401-622	10 x 10 x 2½*	1	91	1,059.97
NEW PRODUCT 401-623	10 x 10 x 3*	1	91	1,059.97
401-624	10 x 10 x 4	1	91	1,059.97
401-626	10 x 10 x 6	1	91	1,013.64
401-628	10 x 10 x 8	1	91	1,297.78
NEW PRODUCT 401-661	12 x 12 x 2 *	1	91	1,241.40
NEW PRODUCT 401-662	12 x 12 x 2½*	1	91	1,659.16
NEW PRODUCT 401-663	12 x 12 x 3*	1	91	1,659.16
401-664	12 x 12 x 4	1	91	1,659.16
401-666	12 x 12 x 6	1	91	1,659.16
401-668	12 x 12 x 8	1	91	1,452.85
401-670	12 x 12 x 10*	1	91	2,281.98

*Sized with BUSHING

Slip x Slip x Slip

BULLHEAD TEE

Part No	Size (in)	Ctn Qty	Code	List Price
401-074	½ x ¾	50	01	2.07
401-102	¾ x 1	50	01	3.74
401-132	1 x 1¼	50	01	5.00
401-133	1 x 1½	25	01	6.46
401-213	1½ x 2	25	01	9.07
401-341	3 x 4	10	01	47.19
NEW PRODUCT 401-344	3 x 3 x 6*	4	01	246.31
NEW PRODUCT 401-426	4 x 4 x 6*	4	01	246.31
NEW PRODUCT 401-428	4 x 4 x 8*	2	01	679.84
NEW PRODUCT 401-492	5 x 5 x 6*	4	01	251.53
NEW PRODUCT 401-535	6 x 6 x 8*	2	01	679.84
NEW PRODUCT 401-537	6 x 6 x 10*	1	91	1,952.07
NEW PRODUCT 401-589	8 x 8 x 10*	1	91	1,952.07
NEW PRODUCT 401-591	8 x 8 x 12*	1	91	2,160.15
NEW PRODUCT 401-632	10 x 10 x 12*	1	91	2,160.15

*Sized with BUSHING

TEES


Slip x Slip x FPT

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
402-005	½	50	01	1.31
402-007	¾	50	01	2.03
402-010	1	50	01	3.74
402-012	1¼	25	01	5.96
402-015	1½	25	01	7.75
402-020	2	10	01	9.82
402-030	3	10	01	38.05
402-040	4	5	01	58.15

Slip x Slip x FPT

REDUCING TEE

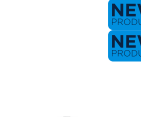
Part No	Size (in)	Ctn Qty	Code	List Price
402-071	½ x ½ x ⅛	50	01	2.81
402-072	½ x ½ x ¼	50	01	2.81
402-074	½ x ½ x ¾	50	01	2.81
402-094	¾ x ½ x ½	50	01	1.96
402-095	¾ x ½ x ¾	50	01	1.96
402-101	¾ x ¾ x ½	50	01	1.73
402-124	1 x ¾ x ½	50	01	3.74
402-125	1 x ¾ x ¾	50	01	3.74
402-130	1 x 1 x ½	50	01	2.62
402-131	1 x 1 x ¾	50	01	3.74
402-156	1¼ x 1 x ½	25	01	5.96
402-157	1¼ x 1 x ¾	25	01	5.96
402-166	1¼ x 1¼ x ½	25	01	6.24
402-167	1¼ x 1¼ x ¾	25	01	6.24
402-168	1¼ x 1¼ x 1	25	01	6.24
402-199	1½ x 1¼ x½	25	01	7.75
402-202	1½ x 1¼ x 1	25	01	7.75
402-209	1½ x 1½ x ½	25	01	7.75
402-210	1½ x 1½ x ¾	25	01	7.75
402-211	1½ x 1½ x 1	25	01	7.75
402-212	1½ x 1½ x 1¼	25	01	7.75
402-239	2 x 1½ x 1	10	01	9.75
402-247	2 x 2 x ½	10	01	9.75
402-248	2 x 2 x ¾	10	01	9.75
402-249	2 x 2 x 1	10	01	9.75
402-250	2 x 2 x 1¼	10	01	9.75
402-251	2 x 2 x 1½	10	01	9.75
402-287	2½ x 2½ x ½	10	01	21.08
402-288	2½ x 2½ x ¾	10	01	21.08
402-289	2½ x 2½ x 1	10	01	21.08
402-290	2½ x 2½ x 1¼	10	01	21.08
402-291	2½ x 2½ x 1½	10	01	21.08
402-292	2½ x 2½ x 2	10	01	21.08
402-333	3 x 3 x ½	10	01	30.15
402-334	3 x 3 x ¾	10	01	30.15
402-335	3 x 3 x 1	10	01	30.15
402-336	3 x 3 x 1¼	10	01	30.15
402-337	3 x 3 x 1½	10	01	30.15
402-338	3 x 3 x 2	10	01	30.15
402-416	4 x 4 x ¾	4	01	50.35
402-417	4 x 4 x 1	5	01	50.35
402-418	4 x 4 x 1¼	5	01	50.35
402-419	4 x 4 x 1½	5	01	50.35
402-420	4 x 4 x 2	5	01	50.35


Slip x Slip x FPT

REDUCING TEE (Con't.)

Part No	Size (in)	Ctn Qty	Code	List Price
402-422	4 x 4 x 3	5	01	50.35
NEW 402-483	5 x 5 x 1*	5	01	136.60
NEW 402-485	5 x 5 x 1½*	5	01	136.60
NEW 402-486	5 x 5 x 2*	5	01	136.60
NEW 402-487	5 x 5 x 2½*	5	01	136.60
NEW 402-488	5 x 5 x 3*	5	01	136.60
402-490	5 x 5 x 4	5	01	131.54
402-528	6 x 6 x 2	5	01	170.66
NEW 402-529	6 x 6 x 2½*	5	01	175.59
402-530	6 x 6 x 3	5	01	170.66
402-532	6 x 6 x 4	5	01	170.66
NEW 402-578	8 x 8 x 2*	2	01	369.05
NEW 402-579	8 x 8 x 2½*	2	01	369.05
NEW 402-582	8 x 8 x 4*	2	01	376.61
NEW 402-621	10 x 10 x 2*	1	01	1,177.02
NEW 402-622	10 x 10 x 2½*	1	01	1,177.02
NEW 402-623	10 x 10 x 3*	1	01	1,177.02
NEW 402-624	10 x 10 x 4*	1	01	1,177.02
NEW 402-661	12 x 12 x 2*	1	01	1,828.01
NEW 402-662	12 x 12 x 2½*	1	01	1,828.01
NEW 402-663	12 x 12 x 3*	1	01	1,828.01
NEW 402-664	12 x 12 x 4*	1	01	1,828.01

*Sized with BUSHING


Slip x Slip x MPT

MANIFOLD TEE

Part No	Size (in)	Ctn Qty	Code	List Price
402B-010	1	50	01	4.24


Slip x FPT x Slip

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
403-005	½	50	01	1.31
403-007	¾	50	01	2.03


FPT x FPT x FPT

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
405-005	½	50	01	3.60
405-007	¾	50	01	5.66
405-010	1	50	01	7.84
405-012	1¼	25	01	10.83
405-015	1½	25	01	11.18


Snap-On x FPT

SNAP-ON TEE

Part No	Size (in)	Ctn Qty	Code	List Price
464-007	¾	25	01	3.60
464-101	¾ x ½	25	01	3.03
464-130	1 x ½	50	01	5.45
464-131	1 x ¾	25	01	5.45


Slip x Slip x INSERT

TRANSITION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1102-249	2 x 2 x 1	10	01	6.39



Slip x Slip

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
406-003	⅜	100	01	3.97
406-005	½	50	01	0.79
406-007	¾	50	01	0.89
406-010	1	50	01	1.59
406-012	1¼	25	01	2.81
406-015	1½	25	01	3.01
406-020	2	25	01	4.72
406-025	2½	10	01	14.40
406-030	3	10	01	17.23
406-040	4	5	01	30.80
406-050	5	5	01	79.60
406-060	6	4	01	97.95
406-080	8	3	01	252.25
406-100	10	1	91	950.17
406-120	12	1	91	1,274.34

Slip x Slip

REDUCING 90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
406-101	¾ x ½	50	01	1.59
406-130	1 x ½	50	01	2.36
406-131	1 x ¾	50	01	2.83
406-167	1¼ x ¾	25	01	4.49
406-168	1¼ x 1	25	01	4.49
406-211	1½ x 1	25	01	7.13
406-212	1½ x 1¼	25	01	7.13
406-249	2 x 1	25	01	8.79
406-250	2 x 1¼	25	01	8.79
406-251	2 x 1½	25	01	12.15

Slip x FPT

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
407-005	½	50	01	0.98
407-007	¾	50	01	1.13
407-010	1	50	01	2.12
407-012	1¼	25	01	3.53
407-015	1½	25	01	3.93
407-020	2	10	01	10.12
407-025	2½	10	01	25.01
407-030	3	10	01	37.48
407-040	4	5	01	56.81

Slip x FPT

REDUCING 90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
407-074	½ x ¾	50	01	2.12
407-101	¾ x ½	50	01	1.17
407-130	1 x ½	50	01	3.24
407-131	1 x ¾	50	01	3.24
407-168	1¼ x 1	25	01	4.72
407-211	1½ x 1	25	01	7.87
407-212	1½ x 1¼	25	01	8.17
407-249	2 x 1	25	01	13.57
407-250	2 x 1¼	10	01	13.57
407-251	2 x 1½	10	01	13.57



FPT x FPT

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
408-005	½	50	01	1.91
408-007	¾	50	01	2.83
408-010	1	50	01	6.03
408-012	1¼	25	01	6.45
408-015	1½	25	01	8.17
408-020	2	10	01	12.37



SP x Slip

90° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
409-005	½	50	01	2.23
409-007	¾	50	01	2.74
409-010	1	50	01	4.72
409-012	1¼	25	01	5.66
409-015	1½	25	01	6.24
409-020	2	10	01	12.04
409-025	2 ½	10	01	21.60
409-030	3	10	01	26.66
409-100	10	1	91	1,415.75
409-120	12	1	91	1,567.81



MPT x Slip

90° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
410-005	½	50	01	1.73
410-007	¾	50	01	2.03
410-010	1	50	01	3.39
410-012	1¼	25	01	4.72
410-015	1½	25	01	4.94
410-020	2	10	01	12.17
410-101	¾ x ½	50	01	2.47

SP x FPT

90° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
411-005	½	50	01	2.15
411-007	¾	50	01	2.59
411-010	1	50	01	4.52
411-012	1¼	25	01	5.42
411-015	1½	25	01	6.83



MPT x FPT



MPT x FPT
(Poly Version)

90° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
412-005	½ PVC	50	01	2.32
412-007	¾ PVC	50	01	2.83
412-010	1 PVC	50	01	4.84
412-012	1¼ PVC	25	01	6.03
412-015	1½ PVC	25	01	6.55
M412-005	½ Poly*	50	01	2.28
M412-007	¾ Poly*	50	01	2.75
M412-010	1 Poly*	50	01	4.81

*Not Listed by NSF

ELBOWS, CROSSES


Slip x Slip x Slip

90° SIDE OUTLET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
413-005	½	50	01	4.27
413-007	¾	50	01	5.83
413-010	1	25	01	7.46
413-015	1½	25	01	8.19
413-020	2	10	01	11.37


Slip x Slip x FPT

90° SIDE OUTLET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
414-005	½	50	01	4.18
414-010	1	25	01	7.48
414-101	¾ x ½	50	01	5.40
414-130	1 x 1 x ½	25	01	7.07

Slip x Slip with SP

REDUCING ELL

Part No	Size (in)	Ctn Qty	Code	List Price
416-251	2 x 1½ (2 Sp)	25	01	12.15
416-292	2½ x 2 (2½ Sp)	10	01	14.23


Slip x Slip

45° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
417-005	½	50	01	1.31
417-007	¾	50	01	2.03
417-010	1	50	01	2.43
417-012	1¼	25	01	3.39
417-015	1½	25	01	4.24
417-020	2	25	01	5.54
417-025	2½	10	01	14.43
417-030	3	10	01	22.38
417-040	4	5	01	40.13
417-050	5	5	01	79.60
417-060	6	4	01	99.15
417-080	8	4	01	238.45
417-100	10	1	91	620.75
417-120	12	1	91	919.86

SP x Slip

45° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
423-015	1½	25	01	4.24
423-020	2	25	01	5.54
423-025	2½	10	01	18.02
423-030	3	10	01	22.38
423-100	10	1	91	784.29
423-120	12	1	91	1,149.07


Slip x Slip

11¼° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
461-100*	10	1	91	456.46
461-120*	12	1	91	722.37

*FABRICATED FROM PIPE


Slip x Slip

22½° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
465-015	1½	20	01	5.46
465-020	2	10	01	7.91
465-025	2½	10	01	20.60
465-030	3	5	01	31.93
465-040	4	4	01	57.36
465-060	6	3	01	141.61
465-100*	10	1	91	456.46
465-120*	12	1	91	722.37

1½ - 4" - 250 p.s.i. working pressure.
6" - 200 p.s.i. working pressure does not comply with ASTM D2466.
*FABRICATED FROM PIPE


SP x Slip

22½° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
466-015	1½	20	01	6.05
466-020	2	10	01	8.35
466-025	2½	10	01	29.90
466-030	3	5	01	46.26
466-040	4	4	01	71.39
466-060	6	3	01	176.25

CROSSES


Slip x Slip x Slip x Slip

CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
420-005	½	50	01	3.01
420-007	¾	50	01	5.01
420-010	1	50	01	6.24
420-012	1¼	25	01	8.24
420-015	1½	25	01	9.34
420-020	2	10	01	13.78
420-025	2½	8	01	29.24
420-030	3	10	01	35.84
420-040	4	5	01	53.14

Slip x Slip x Slip x Slip

REDUCING CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
420-335	3 x 1	10	01	53.66
420-337	3 x 1½	10	01	53.66
420-338	3 x 2	10	01	53.66
420-419	4 x 1½	5	01	52.38
420-420	4 x 2	5	01	52.38


Slip x Slip x MPT x MPT

MANIFOLD CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
421A-010	1	50	01	7.34


Slip x Slip

LONG SOCKET COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
428-015	1½ (1.824*)	25	01	3.94
428-020	2 (1.935*)	25	01	4.91

*Socket depth, each side.

Slip x Slip

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
429-003	⅜	100	01	1.42
429-005	½	100	01	0.51
429-007	¾	50	01	0.71
429-010	1	50	01	1.25
429-012	1¼	25	01	1.73
429-015	1½	25	01	1.85
429-020	2	25	01	2.83
429-025	2 ½	10	01	6.24
429-030	3	10	01	9.77
429-040	4	5	01	14.15
429-050	5	4	01	25.88
429-060	6	5	01	44.71
429-080	8	4	01	83.48
429-100	10	1	91	243.28
429-120	12	1	91	484.69

Slip x Slip

REDUCER COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
429-101	¾ x ½	50	01	1.31
429-131	1 x ¾	50	01	2.23
429-168	1¼ x 1	25	01	3.74
429-211	1½ x 1	25	01	3.97
429-212	1½ x 1¼	25	01	3.97
429-251	2 x 1½	10	01	6.31
429-338	3 x 2	5	01	33.89
NEW PRODUCT 429-416	4 x ¾*	5	01	44.36
NEW PRODUCT 429-417	4 x 1*	5	01	70.44
NEW PRODUCT 429-418	4 x 1¼*	5	01	70.44
NEW PRODUCT 429-419	4 x 1½*	5	01	70.44
429-422	4 x 3	4	01	42.37
NEW PRODUCT 429-530	6 x 3	4	01	69.34
429-532	6 x 4	4	01	55.92
429-582	8 x 4	4	01	129.65
429-585	8 x 6	4	01	143.18
429-626	10 x 6	1	91	686.72
429-628	10 x 8	1	91	686.72
429-668	12 x 8	1	91	781.91
429-670	12 x 10	1	91	781.91

*Sized with BUSHING


FPT x FPT

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
430-005	½	100	01	0.99
430-007	¾	50	01	1.85
430-010	1	50	01	2.43
430-012	1¼	50	01	8.18
430-015	1½	25	01	16.09
430-020	2	25	01	19.46
430-101	¾ x ½	50	01	2.39
430-131	1 x ¾	50	01	4.14
430-005-45	½ GRAY	100	01	1.13
430-007-45	¾ GRAY	50	01	2.07
430-101-45	¾ x ½ GRAY	50	01	3.75
430-131-45	1 x ¾ GRAY	50	01	4.14


FPT x FPT
(Gray Version)

Slip x Slip

NESTED COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
477-005	½*	100	01	0.51
477-007	¾	50	01	0.71
477-010	1	50	01	1.25

*1/2" Nested Couplings do not meet ASTM Standards for Sch 40 fittings and are not NSF listed.

Slip x Slip

DEEP SOCKET COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
482-015	1½ (2.181*)	25	01	4.83
482-020	2 (2.407*)	25	01	7.99
482-025	2½ (3.395*)	10	01	10.27
482-030	3 (3.641*)	10	01	15.48
482-040	4 (3.680*)	5	01	31.09

*Socket depth, each side.

RISER EXTENDER


MPT x FPT

RISER EXTENDER

Part No	Size (in)	Ctn Qty	Code	List Price
434-005	½	50	01	1.45
434-007	¾	50	01	2.43
434-008	¾*	50	01	2.49
434-010	1	50	01	3.03
434-020	2	25	01	6.16
439-198	Increasing 1½ x 2	10	01	7.63

*2 5/16 Long

ADAPTERS


Slip x FPT

FEMALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
435-005	½	100	01	0.89
435-007	¾	50	01	1.13
435-010	1	50	01	1.31
435-012	1¼	25	01	2.03
435-015	1½	25	01	2.32
435-020	2	25	01	3.11
435-025	2½	10	01	7.87
435-030	3	10	01	10.56
435-040	4	5	01	17.49
435-050	5	5	01	45.31
435-060	6	4	01	64.39
435-080	8	4	01	121.40


MPT x Slip

REDUCING MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
436-073	½ x ⅜	100	01	1.42
436-074	½ x ¾	50	01	1.42
436-101	¾ x ½	50	01	1.31
436-102	¾ x 1	50	01	2.03
436-131	1 x ¾	50	01	4.35
436-132	1 x 1¼	25	01	4.72
436-133	1 x 1½	25	01	5.33
436-168	1¼ x 1	25	01	5.33
436-169	1¼ x 1½	25	01	5.33
436-212	1½ x 1¼	25	01	6.44
436-213	1½ x 2	10	01	6.44
436-251	2 x 1½	10	01	7.34
436-252	2 x 2½	10	01	11.44
436-253	2 x 3	10	01	12.84
436-293	2½x 3	10	01	13.82
436-341	3 x 4	10	01	22.13

Slip x FPT

REDUCING FEMALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
435-074	½ x ¾	50	01	1.59
435-101	¾ x ½	50	01	1.59
435-102	¾ x 1	50	01	2.12
435-130	1 x ½	50	01	2.12
435-131	1 x ¾	50	01	2.12
435-211	1 x 1½	25	01	4.24

MPT x FPT

ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
446-074	½ x ¾	50	01	3.03

INSERT Barb x Slip

ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
474-007	¾	50	01	3.03
474-010	1	50	01	3.20
474-015	1½	25	01	5.66
474-020	2	25	01	10.48

MPT x Slip

MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
436-005	½	100	01	0.71
436-007	¾	50	01	0.79
436-010	1	50	01	1.42
436-012	1¼	25	01	1.73
436-015	1½	25	01	2.32
436-020	2	25	01	3.03
436-025	2½	10	01	8.97
436-030	3	10	01	13.09
436-040	4	5	01	16.71
436-050	5	5	01	27.53
436-060	6	4	01	43.57
436-080	8	4	01	197.99

SP x FPT

FITTING ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
478-010	1	25	11	*
478-012	1¼	25	11	*
478-015	1½	25	11	*
478-020	2	20	11	*

*See Swing Joint Price List: Discounts will vary.

INSERT x SP

INSERT ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
460-007	¾ x ¾ SP (½ Slip)	50	01	3.64
460-010	1 x 1 SP (¾ Slip)	50	01	3.81
460-015	1½ x 1½ SP	25	01	4.22

ASTM D 2609 - Plastic INSERT Fitting for Polyethylene (PE) pipe



SP x Slip

REDUCER BUSHING

Part No	Size (in)	Ctn Qty	Code	List Price
437-073	½ x ⅜	100	01	1.51
437-101	¾ x ½	100	01	0.83
437-130	1 x ½	100	01	1.51
437-131	1 x ¾	100	01	1.51
437-166	1¼ x ½	25	01	2.03
437-167	1¼ x ¾	25	01	2.03
437-168	1¼ x 1	25	01	2.03
437-209	1½ x ½	25	01	2.14
437-210	1½ x ¾	25	01	2.14
437-211	1½ x 1	25	01	2.14
437-212	1½ x 1¼	25	01	2.14
437-247	2 x ½	10	01	3.53
437-248	2 x ¾	10	01	3.53
437-249	2 x 1	10	01	3.53
437-250	2 x 1¼	10	01	3.53
437-251	2 x 1½	25	01	3.53
437-287	2½ x ½	10	01	5.67
437-288	2½ x ¾	10	01	5.67
437-289	2½ x 1	10	01	5.67
437-290	2½ x 1¼	10	01	5.67
437-291	2½ x 1½	10	01	5.67
437-292	2½ x 2	10	01	5.67
NEW PRODUCT 437-333	3 x ½*	10	01	11.16
437-334	3 x ¾ *	10	01	8.38
437-335	3 x 1	10	01	8.38
437-336	3 x 1¼	10	01	8.38
437-337	3 x 1½	10	01	8.38
437-338	3 x 2	10	01	8.38
437-339	3 x 2½	10	01	8.38
NEW PRODUCT 437-415	4 X ½*	5	01	22.91
NEW PRODUCT 437-416	4 X ¾*	5	01	22.91
NEW PRODUCT 437-417	4 X 1*	5	01	22.67
NEW PRODUCT 437-418	4 X 1¼*	5	01	22.91
NEW PRODUCT 437-419	4 X 1½*	5	01	22.91
437-420	4 x 2	5	01	18.69
437-421	4 x 2½	5	01	18.69
437-422	4 x 3	5	01	18.69
437-488	5 x 3	5	01	26.29
437-490	5 x 4	4	01	26.29
NEW PRODUCT 437-524	6 x ¾*	5	01	53.87
NEW PRODUCT 437-525	6 x 1*	5	01	53.87
NEW PRODUCT 437-526	6 x 1¼*	5	01	53.87
NEW PRODUCT 437-527	6 x 1½*	5	01	53.87
437-528	6 x 2	5	01	46.27
437-529	6 x 2½*	5	01	46.32
437-530	6 x 3	5	01	46.27
437-532	6 x 4	5	01	46.27
437-534	6 x 5	5	01	46.27
437-578	8 x 2*	5	01	182.62
437-580	8 x 3*	5	01	182.62
437-582	8 x 4	5	01	161.46
437-585	8 x 6	5	01	161.46
437-623	10 x 3*	1	91	484.42
437-624	10 x 4*	1	91	484.42
437-626	10 x 6	1	91	439.40
437-628	10 x 8	1	91	439.40



SP x Slip

REDUCER BUSHING (Con't.)

Part No	Size (in)	Ctn Qty	Code	List Price
437-661	12 x 3*	1	91	654.32
437-664	12 x 4*	1	91	654.32
437-666	12 x 6*	1	91	654.32
437-668	12 x 8	1	91	488.66
437-670	12 x 10	1	91	488.66

*Sized with BUSHING



SP x FPT

REDUCER BUSHING

Part No	Size (in)	Ctn Qty	Code	List Price
438-071	½ x ⅛	100	01	1.73
438-072	½ x ¼	100	01	1.73
438-073	½ x ⅜	100	01	1.73
438-098	¾ x ¼	50	01	1.73
438-101	¾ x ½	100	01	1.31
438-130	1 x ½	100	01	2.12
438-131	1 x ¾	100	01	2.12
438-166	1¼ x ½	25	01	3.24
438-167	1¼ x ¾	25	01	3.24
438-168	1¼ x 1	25	01	3.24
438-209	1½ x ½	25	01	3.74
438-210	1½ x ¾	25	01	3.74
438-211	1½ x 1	25	01	3.74
438-212	1½ x 1¼	25	01	3.74
NEW PRODUCT 438-245	2 x ¼*	10	01	5.01
438-247	2 x ½	10	01	5.01
438-248	2 x ¾	10	01	5.01
438-249	2 x 1	10	01	5.01
438-250	2 x 1¼	10	01	5.01
438-251	2 x 1½	10	01	5.01
NEW PRODUCT 438-287	2 x 2½*	10	01	7.27
438-288	2½ x ¾ *	10	01	7.27
438-289	2½ x 1	10	01	7.27
438-290	2½ x 1¼	10	01	7.27
438-291	2½ x 1½	10	01	7.27
438-292	2½ x 2	10	01	7.27
NEW PRODUCT 438-333	3 x ½*	10	01	9.33
NEW PRODUCT 438-334	3 X ¾*	10	01	8.36
438-335	3 x 1	10	01	8.38
438-336	3 x 1¼	10	01	8.38
438-337	3 x 1½	10	01	8.38
438-338	3 x 2	10	01	8.38
438-339	3 x 2½	10	01	8.38
NEW PRODUCT 438-415	4 X ½*	5	01	25.35
NEW PRODUCT 438-416	4 X ¾*	5	01	25.35
NEW PRODUCT 438-417	4 X 1*	5	01	25.35
NEW PRODUCT 438-418	4 X 1¼*	5	01	25.35
NEW PRODUCT 438-419	4 X 1½*	5	01	25.35
438-420	4 x 2	5	01	18.66
438-421	4 x 2½	5	01	18.66
438-422	4 x 3	5	01	18.66
438-490	5 x 4	5	01	36.39
438-528	6 x 2*	5	01	61.45
438-532	6 x 4	5	01	68.31

*Sized with BUSHING


MPT x FPT

THREADED REDUCER BUSHING

Part No	Size (in)	Ctn Qty	Code	List Price
439-005	½	50	01	1.45
439-052	⅜ x ¼	50	01	3.74
439-072	½ x ¼	50	01	3.74
439-073	½ x ⅜	50	01	3.74
439-098	¾ x ¼	50	01	2.32
439-099	¾ x ⅜	50	01	2.32
439-101	¾ x ½	50	01	2.32
439-130	1 x ½	50	01	3.24
439-131	1 x ¾	50	01	3.24
439-166	1¼ x ½	25	01	4.83
439-167	1¼ x ¾	25	01	4.83
439-168	1¼ x 1	25	01	4.83
439-198	Increasing 1½ x 2	10	01	7.63
439-209	1½ x ½	25	01	5.83
439-210	1½ x ¾	25	01	5.83
439-211	1½ x 1	25	01	5.83
439-212	1½ x 1¼	25	01	5.83
439-249	2 x 1	10	01	6.24
439-250	2 x 1¼	10	01	6.24
439-251	2 x 1½	10	01	6.24
439-292	2½ x 2	10	01	21.82
439-338	3 x 2	5	01	25.81

CAPS


Slip

CAP

Part No	Size (in)	Ctn Qty	Code	List Price
447-005	½	100	01	0.71
447-007	¾	100	01	0.83
447-010	1	50	01	1.31
447-012	1¼	25	01	1.85
447-015	1½	25	01	2.03
447-020	2	25	01	2.43
447-025	2 ½	10	01	7.75
447-030	3	10	01	8.45
447-040	4	5	01	19.23
447-050	5	5	01	32.33
447-060	6	5	01	46.13
447-080	8	4	01	115.87
447-100	10	1	91	207.12
447-120	12	1	91	268.86

FPT

CAP

Part No	Size (in)	Ctn Qty	Code	List Price
448-005	½	100	01	1.51
448-007	¾	100	01	1.73
448-010	1	50	01	2.62
448-012	1¼	25	01	3.11
448-015	1½	25	01	3.24
448-020	2	10	01	5.74
448-025	2 ½	10	01	8.45
448-030	3	10	01	11.06
448-040	4	5	01	19.42

PLUGS


SP

PLUG

Part No	Size (in)	Ctn Qty	Code	List Price
449-003	⅜	50	01	2.14
449-005	½	50	01	1.73
449-007	¾	50	01	2.03
449-010	1	50	01	2.43
449-012	1¼	25	01	3.24
449-015	1½	25	01	4.14
449-020	2	10	01	5.12
449-025	2½	10	01	8.73
449-030	3	10	01	11.56
449-040	4	5	01	26.16

MPT

PLUG

Part No	Size (in)	Ctn Qty	Code	List Price
450-005	½	50	01	2.14
450-007	¾	50	01	2.29
450-010	1	50	01	3.74
450-012	1¼	25	01	3.94
450-015	1½	25	01	4.22
450-020	2	10	01	5.44
450-025	2½	10	01	7.57
450-030	3	10	01	11.46
450-040	4	5	01	25.87

UNIONS



Slip x Slip

Pressure rated at 150 p.s.i. at 73.4°F. UNIONs are listed as NSF 61

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
457-005	½	10	01	7.75
457-007	¾	10	01	8.81
457-010	1	10	01	9.07
457-012	1¼	5	01	29.23
457-015	1½	5	01	30.45
457-020	2	5	01	41.05
457-030	3	5	01	91.80

FPT x FPT

Pressure rated at 150 p.s.i. at 73.4°F. UNIONs are listed as NSF 61

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
458-005	½	10	01	8.67
458-007	¾	10	01	14.49
458-010	1	10	01	19.78
458-012	1¼	5	01	33.97
458-015	1½	5	01	34.71
458-020	2	5	01	42.65
458-030	3	5	01	97.45
458-040	4	4	01	129.32

Buna-N (Nitrile) (Current style)

UNION O-RING

Part No	Size (in)	Ctn Qty	Code	List Price
40116	½	1	01	2.62
40119	¾	1	01	3.19
40123	1	1	01	3.69
40128	1¼	1	01	4.22
40224	1½	1	01	4.73
40228	2	1	01	5.31
40119Q	119	1	01	2.52

WYES



Slip

WYE

Part No	Size (in)	Ctn Qty	Code	List Price
475-015	1½*	20	01	14.67
475-020	2*	10	01	44.02
475-030	3**	5	01	74.16
475-040	4**	6	01	139.86
475-060	6**	3	01	295.92
475-080	8***	1	01	475.96

*235 psi working pressure
**150 psi working pressure
***100 working pressure



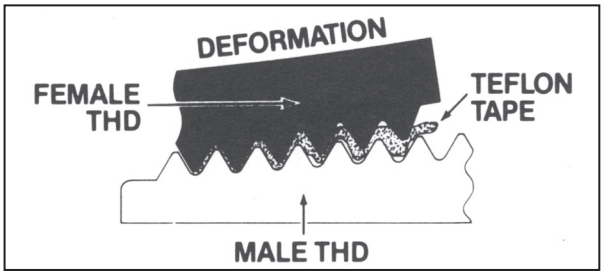
Slip

REDUCING WYE

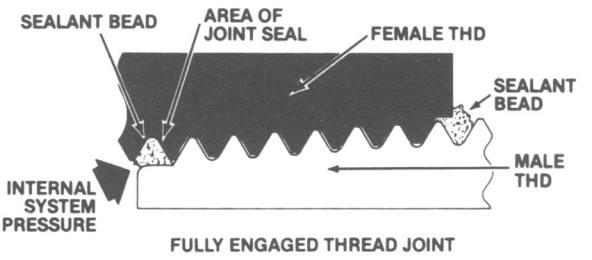
Part No	Size (in)	Ctn Qty	Code	List Price
475-422	4 x 4 x 3**	6	01	152.07
475-532	6 x 6 x 4**	5	01	380.46
475-582	8 x 8 x 4***	2	01	651.71

**150 psi working pressure
***100 working pressure

Why Sealant is Recommended in Threaded Joints



Teflon tape, when compressed between male and female threads in PVC fittings joints, can cause deformation, leading to leakage, and possibly, to cracked female fittings.



Sealant, when compressed between threads, flows outward to achieve an effective seal against leakage in PVC fittings.

DO NOT USE LASCO FITTINGS FOR COMPRESSED AIR OR GASES.
DO NOT TEST PVC PIPING SYSTEMS WITH COMPRESSED AIR OR GASES.
DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY LASCO.
MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.



⚠ WARNING:
USE OF COMPRESSED AIR OR GAS IN PVC/CPVC PIPE AND FITTINGS CAN RESULT IN EXPLOSIVE FAILURES AND CAUSE SEVERE INJURY OR DEATH.

STANDARDS AND SPECIFICATIONS – SCHEDULE 40

ASTM D-1784	–	Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly Vinyl Chloride) (CPVC) Compounds.
ASTM D-2466	–	Socket type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40.
ASTM F-1970	–	Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems.
MATERIAL	–	LASCO Schedule 40 Fittings are produced from PVC TYPE 1, CELL Classification 12454-B.
	–	O-RINGs are produced from a Buna-N (Nitrile) material.
LISTINGS	–	NSF/ANSI Standard 61, Annex G: Drinking Water System Components Weighted average lead content of ≤0.25% and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) NSF/ANSI Standard 14: Plastics Piping system Components and Related Materials. Includes /ANSI Standard 61, Annex G

American Granby

CUSTOMER SERVICE
Phone: (315) 451-1100 or (800) 776-2266 | Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

PRICE GROUP	DESCRIPTION	DISCOUNT MULTIPLIER
02	SCH 80 PVC through 8"	
92	SCH 80 PVC 10" AND LARGER	
VB	GASKET for FLANGE	

American Granby
Phone: (315) 451-1100 or (800) 776-2266
Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

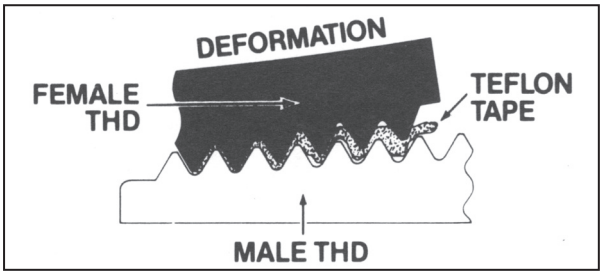
PRODUCTS | PRICE LIST

SCHEDULE 80 PVC PRESSURE FITTINGS

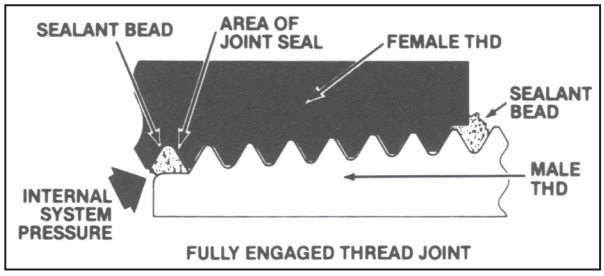
INCLUDES: SCHEDULE 80 PVC 1/4" TO 12"

AG80P | EFFECTIVE JULY 1, 2019

Why LASCO Recommends Sealant in Threaded Joints



Teflon tape, when compressed between male and female threads in PVC fittings joints, can cause deformation, leading to leakage, and possibly, to cracked female fittings.



Sealant, when compressed between threads, flows outward to achieve an effective seal against leakage in PVC fittings. Use a non-hardening thread sealant that is labeled safe for PVC.

⚠ **WARNING:** care must be taken to avoid overtightening during assembly of threaded joints – do not overtorque. Generally 1 to 2 turns beyond finger tight is all that is required to obtain a leak-tight seal for most sizes. Do not use both a tape sealant and a paste sealant simultaneously. Contact LASCO Technical Services for additional information.

NOTE: Some oil based thread pastes and pipe joint compounds contain ingredients that attack PVC or CPVC materials. Suitability of thread paste sealants must be clearly established prior to use. Contact thread paste manufacturer confirm chemical compatibility prior to use.

FLANGE INSTALLATION GUIDELINES

FLANGED CONNECTIONS: Properly installed flanged connections provide a transition fitting to join alternate piping materials, a mechanical means to connect to valves and other equipment, and when joining piping systems where frequent dismantling may be required. The grooved face of the flange provides a liquid tight seal on the gasket when flanges are properly assembled, supported, and proper torque is applied to the bolts.

GASKETS: Full face 1/8" thick elastomeric material with a Shore A Durometer hardness of 50-70; gasket material selected must be compatible with application and fluids conveyed. Variations in gasket material and shore hardness may affect sealing torque required.

FLANGE DIMENSIONS: Flange ring bolt hole dimensions conform to ANSI B 16.5 Class 150 bolt pattern. Threaded flange hubs are tapered iron pipe size threads per ANSI B2.1. Socket flange hubs conform to ASTM D2467 tapered socket dimensions.

PRESSURE RATING: Maximum pressure rating for molded flanges ½" thru 12" diameter 150psi non-shock at 73°F. Appropriate temperature de-rating factors must be applied when working at elevated temperatures greater than 73°F.

BOLTS AND BOLT TORQUE: Select proper bolt size, quantity, length, and washers for the specific sizes of flanges and equipment being assembled. Always use two (2) wide flat washers per bolt (one under the head and one under the nut). Threads should be clean and well lubricated.

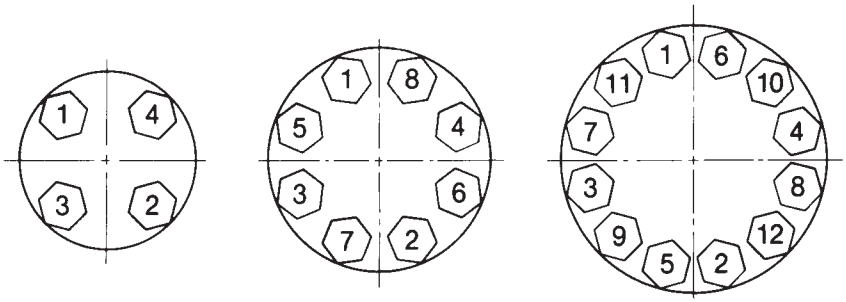
⚠**WARNING: USE ONLY LUBRICANTS COMPATIBLE WITH PVC OR CPVC MATERIAL.**

FLANGE ASSEMBLY:

Once the flange hub is correctly joined to the pipe and allowed to cure properly, and the piping system is supported properly, the method for joining two flanges is as follows:

1. Make sure the system is properly supported and aligned, and that mating surfaces of flanges being joined are not separated. Do not use bolts to align system or to pull flanges together.
   ⚠**WARNING: STRESS INDUCED FROM MISALIGNMENT OR IMPROPER SUPPORT WILL DAMAGE THE FLANGE.**
2. With gasket in place align all bolt holes of mating flanges by rotating the flange ring into position.
3. Insert all bolts, flat washers (two standard flat washers per bolt), and nuts.
4. Be certain the faces of the mating surfaces are flush against the gasket prior to bolting down the flanges.
5. Using the illustrated bolt-tightening sequence shown below, tighten all the nuts by hand until snug. Once snug by hand, tighten the bolts diametrically opposite each other (180°) using the sequence shown with a torque wrench. Apply uniform pressure across the flange by tightening in stages of 5 ft-lb increments until final torque values shown in the following table are obtained. Do not over tighten.
   ⚠**WARNING!: OVER TORQUING WILL DAMAGE THE FLANGE.**
6. Care must be taken to avoid bending stresses to the flange when mating to raised faced flange, metallic flange, stationary flanged objects or wafer-style valves. The plastic flange, attached pipe, fitting, and or valve must be supported properly to eliminate stress on the plastic flange.

RECOMMENDED FLANGE BOLT TORQUE FOR LASCO PLASTIC FLANGES



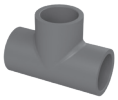
NOTE: Bolt length based on connecting two (2) LASCO flanges, two (2) flat washers, and nut. Actual Bolt lengths required and torque values necessary to seal will vary based on type of equipment being joined. Adjustments will need to be made to when assembling flanges to accommodate valves and other equipment.

Reference ASME B16.5 and ASME NM-1 as applicable. Contact LASCO Technical Services for additional information.

NOTE: certain applications may require flange bolts to be re-torqued at least 24 hours after gasket installation depending on flange materials beign joined (i.e. transition from PVC to HDPE), and gasket material selected. Work with gasket manufacturer for proper material selection and other gasket design recommendations prior to installation. When evaluating gasket material, be certain to include any surge pressure that culd be caused by opening valves and starting pumps.

Flange Size	No. of Bolt Holes	Bolt Dia. (in.)	Min. Bolt Length (in.)	Recommended Torque (Ft./Lbs.)
½	4	½	2	15-20
¾	4	½	2	15-20
1	4	½	2¼	15-20
1¼	4	½	2¼	15-20
1½	4	½	2½	15-20
2	4	5/8	3	20-30
2½	4	5/8	3¼	20-30
3	4	5/8	3¼	20-30
4	8	5/8	3½	20-30
5	8	3/4	3¾	25-35
6	8	3/4	4	33-50
8	8	3/4	4½	33-50
10	12	7/8	5	53-75
12	12	7/8	5	53-75

Use primer and appropriate heavy bodied solvent cement for materials being joined and allow to cure properly prior to flange assembly - follow LASCO solvent welding instructions and/or contact LASCO Technical Services for additional information.



Slip x Slip x Slip

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
801-002	¼	25	02	11.45
801-003	⅜	50	02	11.45
801-005	½	25	02	11.45
801-007	¾	25	02	11.99
801-010	1	25	02	15.02
801-012	1¼	10	02	41.22
801-015	1½	10	02	41.22
801-020	2	10	02	51.54
801-025	2½	5	02	56.03
801-030	3	5	02	70.03
801-040	4	5	02	81.14
801-060	6	4	02	277.05
801-080	8	2	02	642.57
801-100	10	1	92	2,122.91
801-120	12	1	92	2,998.13



Slip x Slip x Slip

REDUCER TEE

Part No	Size (in)	Ctn Qty	Code	List Price
801-072	½ x ½ x ¼	25	02	13.78
801-073	½ x ⅜	25	02	13.78
801-101	¾ x ¾ x ½	25	02	8.78
801-130	1 x 1 x ½	25	02	12.67
801-131	1 x 1 x ¾	25	02	12.67
801-157	1¼ x1 x ¾*	15	02	20.92
801-158	1¼ x 1 x 1*	15	02	20.92
801-159	1¼ x 1 x 1¼*	15	02	20.92
801-166	1¼ x 1¼ x ½*	10	02	34.97
801-167	1¼ x 1¼ x ¾*	10	02	27.52
801-168	1¼ x 1¼ x 1	15	02	27.52
801-202	1½ x 1¼ x 1*	10	02	26.14
801-209	1½ x 1½ x ½*	10	02	27.52
801-210	1½ x 1½ x ¾	10	02	27.52
801-211	1½ x 1½ x 1	10	02	27.52
801-212	1½ x 1½ x 1¼	10	02	27.52
801-247	2 x 2 x ½	10	02	34.86
801-248	2 x 2 x ¾	10	02	34.86
801-249	2 x 2 x 1	10	02	34.86
801-250	2 x 2 x 1¼	10	02	40.82
801-251	2 x 2 x 1½	10	02	34.86
801-289	2½ x 2½ x 1*	10	02	45.48
801-290	2½ x 2½ x 1¼	5	02	45.48
801-291	2½ x 2½ x 1½	5	02	45.48
801-292	2½ x 2½ x 2	5	02	45.48
801-333	3 x 3 x ½*	5	02	63.91
801-334	3 x 3 x ¾*	5	02	72.12
801-335	3 x 3 x 1*	5	02	63.91
801-336	3 x 3 x 1¼ *	5	02	63.91
801-337	3 x 3 x 1½	5	02	63.92
801-338	3 x 3 x 2	5	02	63.92
801-339	3 x 3 x 2½*	6	02	63.91
801-415	4 x 4 x ½*	5	02	126.39
801-416	4 x 4 x ¾*	5	02	126.39

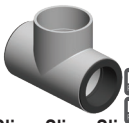


Slip x Slip x Slip

REDUCER TEE con't.

Part No	Size (in)	Ctn Qty	Code	List Price
801-417	4 x 4 x 1*	5	02	126.39
801-418	4 x 4 x 1¼*	5	02	126.39
801-419	4 x 4 x 1½*	5	02	103.27
801-420	4 x 4 x 2	5	02	103.27
801-421	4 x 2½*	5	02	302.54
801-422	4 x 4 x 3	5	02	103.27
801-525	6 x 6 x 1*	6	02	206.35
801-526	6 x 6 x 1¼*	4	02	268.57
801-527	6 x 6 x 1½*	4	02	268.57
801-528	6 x 6 x 2*	6	02	206.35
801-529	6 x 6 x 2½*	4	02	268.35
801-530	6 x 6 x 3	5	02	206.35
801-532	6 x 6 x 4	5	02	277.05
801-580	8 x 8 x 3**	1	02	750.17
801-585	8 x 8 x 6*	2	02	642.57
801-623	10 x 10 x 3*	1	92	1,977.92
801-624	10 x 10 x 4*	1	92	1,977.92
801-626	10 x 10 x 6*	1	92	1,868.17
801-628	10 x 10 x 8*	1	92	2,198.58
801-666	12 x 12 x 6*	1	92	3,383.33
801-668	12 x 12 x 8*	1	92	2,779.27
801-670	12 x 12 x 10*	1	92	3,721.83

*Sized with BUSHING
** Sized with 2 BUSHINGS

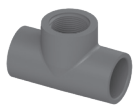


Slip x Slip x Slip

BULLHEAD TEE

Part No	Size (in)	Ctn Qty	Code	List Price
NEW PRODUCT 801-536	6 x 6 x 8*	5	02	1,217.74
NEW PRODUCT 801-537	6 x 6 x 10*	5	92	3,496.37
NEW PRODUCT 801-589	8 x 8 x 10*	5	92	3,496.37
NEW PRODUCT 801-591	8 x 8 x 12*	5	92	4,583.97
NEW PRODUCT 801-632	10 x 10 x 12*	5	92	4,605.14

*Sized with BUSHING



Slip x Slip x FPT

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
802-005	½	25	02	18.12
802-007	¾	25	02	23.41
802-010	1	25	02	27.4
802-012	1¼	10	02	29.28
802-015	1½	5	02	34.39
802-020	2	5	02	42.45

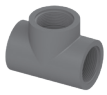


Slip x Slip x FPT

REDUCING TEE

Part No	Size (in)	Ctn Qty	Code	List Price
802-072	½ x ½ x ¼*	25	02	19.22
802-101	¾ x ¾ x ½ *	15	02	16.62
802-130	1 x 1 x ½*	50	02	17.27
802-131	1 x 1 x ¾ *	15	02	22.19
802-166	1¼ x 1¼ x ½*	25	02	28.24
802-167	1¼ x 1¼ x ¾*	15	02	28.24
802-168	1¼ x 1¼ x 1*	10	02	56.06
802-209	1½ x 1½ x ½*	25	02	34.97
802-210	1½ x 1½ x ¾*	20	02	34.97
802-211	1½ x 1½ x 1*	10	02	34.97
802-212	1½ x 1½ x 1¼*	10	02	34.97
802-247	2 x 2 x ½*	10	02	39.95
802-248	2 x 2 x ¾*	10	02	39.95
802-249	2 x 2 x 1*	10	02	53.15
802-250	2 x 2 x 1¼	10	02	53.15
802-251	2 x 2 x 1½	10	02	74.11
802-291	2½ x 2½ x 1½	5	02	91.98
802-292	2½ x 2½ x 2*	10	02	102.69
802-333	3 x 3 x ½*	5	02	72.12
802-334	3 x 3 x ¾*	5	02	72.12
802-335	3 x 3 x 1*	5	02	86.74
802-336	3 x 3 x 1¼*	5	02	86.74
802-337	3 x 3 x 1½*	5	02	86.74
802-338	3 x 3 x 2*	5	02	110.77
802-339	3 x 3 x 2½*	5	02	155.79
802-415	4 x 4 x ½*	5	02	126.92
802-416	4 x 4 x ¾*	5	02	126.92
802-417	4 x 4 x 1*	5	02	126.92
802-418	4 x 4 x 1¼*	5	02	126.92
802-419	4 x 4 x 1½*	5	02	126.92
802-420	4 x 4 x 2*	5	02	189.71
802-421	4 x 4 x 2½*	5	02	189.71
802-422	4 x 4 x 3*	5	02	212.37
802-528	6 x 6 x 2*	1	02	537.82
802-529	6 x 6 x 2½*	4	02	295.33
802-530	6 x 6 x 3*	5	02	412.27
802-532	6 x 6 x 4*	1	02	666.47

*Sized with BUSHING



FPT x FPT x FPT

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
805-002	¼	25	02	13.23
805-003	⅜	25	02	13.23
805-005	½	25	02	13.23
805-007	¾	25	02	14.72
805-010	1	25	02	32.49
805-012	1¼	10	02	34.45
805-015	1½	10	02	41.76
805-020	2	10	02	44.89
805-025	2½	5	02	163.48
805-030	3	5	02	170.73
805-040	4	5	02	277.48

ELBOWS



Slip x Slip

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
806-002	¼	25	02	4.05
806-003	⅜	25	02	4.05
806-005	½	25	02	4.05
806-007	¾	25	02	5.18
806-010	1	25	02	8.38
806-012	1¼	10	02	11.18
806-015	1½	10	02	11.98
806-020	2	10	02	14.48
806-025	2½	5	02	33.87
806-030	3	5	02	38.07
806-040	4	5	02	57.89
806-060	6	4	02	164.75
806-080	8	2	02	454.09
806-100	10	1	92	2,032.22
806-120	12	1	92	2,649.15



Slip x FPT

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
807-005	½	25	02	15.96
807-007	¾	25	02	18.77
807-010	1	25	02	20.31
807-012	1¼	10	02	23.41
807-015	1½	10	02	27.94
807-020	2	10	02	36.18



FPT x FPT

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
808-002	¼	25	02	10.06
808-003	⅜	25	02	10.06
808-005	½	25	02	9.39
808-007	¾	25	02	11.71
808-010	1	25	02	14.72
808-012	1¼	10	02	15.86
808-015	1½	10	02	22.51
808-020	2	10	02	25.34
808-025	2½	5	02	98.67
808-030	3	5	02	159.12
808-040	4	5	02	279.97



Slip x Slip

11¼° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
861-100*	10	1	92	798.75
861-120*	12	1	92	1,169.29

* Fabricated from Pipe



Slip x Slip

22½° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
865-020	2	50	02	40.16
865-030	3	50	02	102.93
865-100*	10	1	92	798.75
865-120*	12	1	92	1,169.29

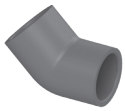
Note: Meets ASTM D-2467 socket and wall dimensions, but fitting pattern is not in D-2467. Working pressure rating of 150 p.s.i. Not NSF Standard 14 Listed.
* Fabricated from Pipe



Slip x Slip

30° ELL

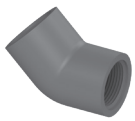
Part No	Size (in)	Ctn Qty	Code	List Price
815-060	6	8	02	232.88



Slip x Slip

45° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
817-002	¼	25	02	14.53
817-003	⅜	50	02	14.53
817-005	½	25	02	7.63
817-007	¾	25	02	11.67
817-010	1	25	02	17.49
817-012	1¼	10	02	22.29
817-015	1½	10	02	26.36
817-020	2	10	02	34.16
817-025	2½	5	02	71.73
817-030	3	5	02	87.31
817-040	4	5	02	157.22
817-060	6	4	02	197.98
817-080	8	2	02	429.25
817-100	10	1	92	1,351.42
817-120	12	1	92	1,743.24



FPT x FPT

45° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
819-005	½	25	02	15.07
819-007	¾	20	02	16.19
819-010	1	25	02	20.34
819-012	1¼	15	02	31.01
819-015	1½	10	02	38.99
819-020	2	5	02	57.81
819-025	2½	5	02	114.37
819-030	3	5	02	183.97
819-040	4	5	02	263.99

CROSS



Slip x Slip
x Slip x Slip

CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
820-015	1½	25	02	99.93
820-020	2	4	02	111.32
820-030	3	5	02	189.32
820-040	4	3	02	329.39



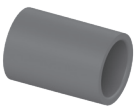
Slip x Slip
x Slip x Slip

REDUCING CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
820-209	1½ X ½*	20	02	121.34
820-210	1½ X ¾*	15	02	121.34
820-211	1½ X 1*	25	02	121.34
820-212	1½ X 1¼*	25	02	121.34

*Sized with BUSHING

COUPLINGS



Slip x Slip

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
829-002	¼	25	02	11.75
829-003	⅜	25	02	11.75
829-005	½	25	02	7.34
829-007	¾	25	02	9.94
829-010	1	25	02	10.22
829-012	1¼	10	02	15.56
829-015	1½	10	02	16.78
829-020	2	10	02	18.01
829-025	2½	5	02	44.34
829-030	3	5	02	50.92
829-040	4	5	02	63.76
829-060	6	5	02	137.21
829-080	8	4	02	186.73
829-100	10	1	92	640.88
829-120	12	1	92	738.61



Slip x Slip

REDUCER COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
829-052	⅜ x ¼*	25	02	11.75
829-072	½ x ¼*	25	02	11.75
829-101	¾ x ½	20	02	9.00
829-131	1 x ¾	25	02	13.09
829-166	1¼ x ½*	25	02	26.60
829-167	1¼ x ¾*	25	02	26.60
829-168	1¼ x 1	10	02	26.60
829-209	1½ x ½*	25	02	27.84
829-210	1½ x ¾*	25	02	27.84
829-211	1½ x 1	10	02	34.39

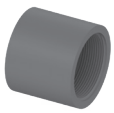


Slip x Slip

REDUCER COUPLING con't.

Part No	Size (in)	Ctn Qty	Code	List Price
829-212	1½ x 1¼	10	02	34.39
829-247	2 x ½*	25	02	31.41
829-248	2 x ¾*	10	02	31.41
829-249	2 x 1*	25	02	31.41
829-250	2 x 1¼*	10	02	31.41
829-251	2 x 1½*	5	02	31.41
829-290	2½ x 1¼*	10	02	59.34
829-291	2½ x 1½*	10	02	41.89
829-292	2½ x 2*	10	02	41.89
829-335	3 x 1*	8	02	95.79
829-336	3 x 1¼*	6	02	95.79
829-337	3 x 1½*	8	02	95.79
829-338	3 x 2	5	02	77.14
829-339	3 x 2½*	10	02	109.99
829-417	4 x 1*	6	02	159.31
829-419	4 x 1½*	6	02	159.31
829-420	4 x 2*	6	02	147.06
829-421	4 x 2½*	4	02	147.06
829-422	4 x 3	5	02	145.33
829-528	6 x 2*	6	02	363.87
829-530	6 x 3*	5	02	367.59
829-532	6 x 4	5	02	296.42
829-585	8 x 6	2	02	897.76
NEW PRODUCT 829-619	10 x 2*	1	92	1,199.08
NEW PRODUCT 829-623	10 x 3*	1	92	1,113.80
829-624	10 x 4*	1	92	1,051.02
829-626	10 x 6*	1	92	1,211.29
829-628	10 x 8*	1	92	1,051.02
NEW PRODUCT 829-668	12 x 8*	1	92	1,195.97
NEW PRODUCT 829-670	12 x 10*	1	92	1,195.97

*Sized with BUSHING

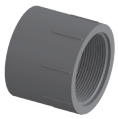


FPT x FPT

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
830-002	¼	25	02	8.81
830-005	½	25	02	8.20
830-007	¾	25	02	11.73
830-010	1	25	02	12.58
830-012	1¼	10	02	15.56
830-015	1½	10	02	34.61
830-020	2	10	02	36.35
830-025	2½	5	02	86.75
830-030	3	5	02	101.73
830-040	4	5	02	176.16

ADAPTERS



Slip x FPT

FEMALE ADAPTER

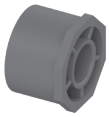
Part No	Size (in)	Ctn Qty	Code	List Price
835-002	¼	50	02	12.42
835-005	½	25	02	6.87
835-007	¾	25	02	10.22
835-010	1	25	02	15.06
835-012	1¼	10	02	24.39
835-015	1½	10	02	29.89
835-020	2	10	02	52.16
835-025	2½	5	02	82.35
835-030	3	5	02	92.69
835-040	4	5	02	159.33



MPT x Slip

MALE ADAPTER

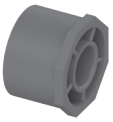
Part No	Size (in)	Ctn Qty	Code	List Price
836-005	½	25	02	8.59
836-007	¾	25	02	9.47
836-010	1	25	02	16.38
836-012	1¼	10	02	19.15
836-015	1½	10	02	27.52
836-020	2	10	02	39.80
836-025	2½	5	02	45.23
836-030	3	5	02	50.20
836-040	4	5	02	89.33



SP x Slip

REDUCER BUSHING (FLUSH STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
837-052	⅜ x ¼	25	02	6.48
837-072	½ x ¼	25	02	6.48
837-073	½ x ⅜	25	02	6.48
837-101	¾ x ½	25	02	2.36
837-129	1 x ⅜*	50	02	13.52
837-130	1 x ½	25	02	6.78
837-131	1 x ¾	25	02	6.78
837-166	1¼ x ½	10	02	10.64
837-167	1¼ x ¾	10	02	10.64
837-168	1¼ x 1	10	02	10.64
837-209	1½ x ½	10	02	14.48
837-210	1½ x ¾	10	02	14.48
837-211	1½ x 1	10	02	14.48
837-212	1½ x 1¼	10	02	14.48
837-247	2 x ½	10	02	20.63
837-248	2 x ¾	10	02	20.63
837-249	2 x 1	10	02	20.63
837-250	2 x 1¼	10	02	20.63
837-251	2 x 1½	10	02	20.63
837-287	2½ x ½*	10	02	47.93
837-288	2½ x ¾*	10	02	47.93
837-289	2½ x 1	10	02	35.83
837-290	2½ x 1¼	10	02	35.83
837-291	2½ x 1½	10	02	35.83
837-292	2½ x 2	10	02	35.83
837-333	3 x ½*	10	02	65.99
837-334	3 x ¾*	10	02	63.88
837-335	3 x 1	5	02	56.86
837-336	3 x 1¼	5	02	56.86
837-337	3 x 1½	5	02	56.86
837-338	3 x 2	5	02	56.86
837-339	3 x 2½	5	02	56.86
837-415	4 x ½*	6	02	101.06
837-416	4 x ¾*	6	02	101.06
837-417	4 x 1*	6	02	101.06
837-418	4 x 1¼*	6	02	101.06
837-419	4 x 1½*	6	02	101.06
837-420	4 x 2	5	02	78.72
837-421	4 x 2½	5	02	78.72
837-422	4 x 3	5	02	78.72
837-524	6 x ¾*	5	02	131.39
837-525	6 x 1*	5	02	124.82
837-526	6 x 1¼*	5	02	131.39
837-527	6 x 1½*	5	02	131.39
837-528	6 x 2	5	02	109.46
837-529	6 x 2½*	5	02	169.72
837-530	6 x 3	5	02	109.46
837-532	6 x 4	5	02	109.46
837-578	8 x 2*	4	02	383.40
837-580	8 x 3*	4	02	383.40
837-582	8 x 4*	4	02	266.29
837-585	8 x 6	5	02	266.27
837-624	10 x 4*	1	92	741.40
837-626	10 x 6	1	92	625.55
837-628	10 X 8	1	92	625.55
837-666	12 x 6*	1	92	1,009.40

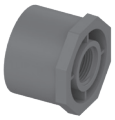


SP x Slip

REDUCER BUSHING (FLUSH STYLE) con't.

Part No	Size (in)	Ctn Qty	Code	List Price
837-668	12 x 8	1	92	722.92
837-670	12 x 10	1	92	722.92

*Sized with Bushing

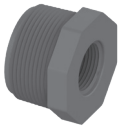


SP x FPT

REDUCER BUSHING (FLUSH STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
838-052	⅜ x ¼	25	02	6.48
838-072	½ x ¼	25	02	6.48
838-098	¾ x ¼	50	02	4.27
838-101	¾ x ½	25	02	4.27
838-128	1 x ¼*	50	02	7.43
838-130	1 x ½	25	02	6.78
838-131	1 x ¾	25	02	6.78
838-166	1¼ x ½	25	02	13.75
838-167	1¼ x ¾	10	02	13.75
838-168	1¼ x 1	10	02	13.75
838-207	1½ x ¼	25	02	16.38
838-209	1½ x ½	10	02	17.25
838-210	1½ x ¾	10	02	17.25
838-211	1½ x 1	10	02	17.25
838-212	1½ x 1¼	10	02	17.25
838-247	2 x ½	10	02	21.08
838-248	2 x ¾	10	02	21.08
838-249	2 x 1	10	02	21.08
838-250	2 x 1¼	10	02	21.08
838-251	2 x 1½	10	02	21.08
838-287	2½ x ½*	10	02	44.64
838-288	2½ x ¾*	10	02	44.64
838-289	2½ x 1*	10	02	82.66
838-290	2½ x 1¼*	10	02	44.64
838-291	2½ x 1½*	10	02	44.64
838-292	2½ x 2	10	02	44.63
838-334	3 x ¾*	10	02	82.66
838-335	3 x 1*	10	02	82.66
838-336	3 x 1¼*	10	02	82.66
838-337	3 x 1½ *	10	02	82.66
838-338	3 x 2	5	02	82.66
838-339	3 x 2½	5	02	82.66
838-419	4 x 1½*	6	02	159.77
838-420	4 x 2	5	02	126.98
838-421	4 x 2½*	6	02	126.98
838-422	4 x 3	5	02	126.98
838-528	6 x 2*	5	02	146.27
838-530	6 x 3*	5	02	146.27
838-532	6 x 4	5	02	146.28

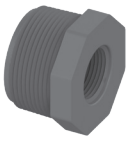
*Sized with Bushing



MPT x FPT

REDUCER BUSHING (FLUSH STYLE)

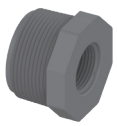
Part No	Size (in)	Ctn Qty	Code	List Price
839-052	⅜ x ¼	25	02	14.79
839-072	½ x ¼	25	02	14.79
839-073	½ x ⅜	25	02	14.79
839-098	¾ x ¼	25	02	11.02
839-099	¾ x ⅜	25	02	11.02
839-101	¾ x ½	25	02	9.08
839-128	1 x ¼	25	02	17.81
839-129	1 x ⅜	25	02	14.23



MPT x FPT

REDUCER BUSHING (FLUSH STYLE) con't.

Part No	Size (in)	Ctn Qty	Code	List Price
839-130	1 x ½	25	02	14.23
839-131	1 x ¾	25	02	14.23
839-166	1¼ x ½	10	02	15.09
839-167	1¼ x ¾	10	02	15.09
839-168	1¼ x 1	10	02	15.09
839-209	1½ x ½	10	02	17.89
839-210	1½ x ¾	10	02	17.89
839-211	1½ x 1	10	02	17.89
839-212	1½ x 1¼	10	02	17.89
839-247	2 x ½	10	02	26.20
839-248	2 x ¾	10	02	26.20
839-249	2 x 1	10	02	26.20
839-250	2 x 1¼	10	02	26.20
839-251	2 x 1½	10	02	26.20
839-292	2½ x 2	5	02	35.51
839-337	3 x 1½	5	02	48.22
839-338	3 x 2	5	02	48.22
839-339	3 x 2½	5	02	48.22
839-420	4 x 2	5	02	97.32
839-422	4 x 3	5	02	126.98



MPT x BSP

REDUCER BUSHING (FLUSH STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
845-249	2 x 1	10	02	26.79

CAPS

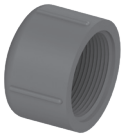


Slip

CAP

Part No	Size (in)	Ctn Qty	Code	List Price
847-002	¼	25	02	9.33
847-003	⅜	25	02	9.33
847-005	½	25	02	7.18
847-007	¾	25	02	7.57
847-010	1	25	02	13.45
847-012	1¼	10	02	16.23
847-015	1½	10	02	16.23
847-020	2	10	02	32.05
847-025	2½	5	02	65.45
847-030	3	5	02	76.59
847-040	4	5	02	129.15
847-060	6	4	02	321.27
847-080	8	4	02	412.48
847-100	10	1	92	421.96
847-120	12	1	92	633.26

CAPS

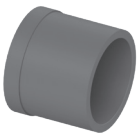


FPT

CAP

Part No	Size (in)	Ctn Qty	Code	List Price
848-002	¼	25	02	9.00
848-003	⅜	25	02	9.00
848-005	½	25	02	9.00
848-007	¾	25	02	10.06
848-010	1	25	02	12.67
848-012	1¼	10	02	15.09
848-015	1½	10	02	17.25
848-020	2	10	02	33.87
848-025	2½	5	02	67.76
848-030	3	5	02	79.77
848-040	4	5	02	140.46

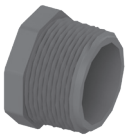
PLUGS



SP

PLUG

Part No	Size (in)	Ctn Qty	Code	List Price
849-007	¾	50	02	7.48
849-010	1	50	02	8.43
849-012	1¼	25	02	10.77
849-015	1½	10	02	11.81
849-020	2	5	02	15.63



MPT

PLUG

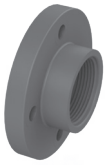
Part No	Size (in)	Ctn Qty	Code	List Price
850-002	¼	25	02	7.76
850-003	⅜	25	02	7.76
850-005	½	25	02	6.92
850-007	¾	25	02	7.18
850-010	1	25	02	8.81
850-012	1¼	10	02	12.99
850-015	1½	10	02	15.78
850-020	2	10	02	16.19
850-025	2½	5	02	45.23
850-030	3	5	02	52.78
850-040	4	5	02	102.75


Slip

FLANGE (SOLID STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
851-005	½	25	02	22.23
851-007	¾	25	02	23.76
851-010	1	25	02	26.45
851-012	1¼	10	02	27.23
851-015	1½	10	02	27.84
851-020	2	10	02	37.06
851-025	2½	5	02	57.21
851-030	3	5	02	63.17
851-040	4	5	02	80.00
851-060	6	5	02	125.78

See NOTE under Flange Installation Data (pg. 2)


FPT

FLANGE (SOLID STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
852-005	½	25	02	26.60
852-007	¾	25	02	31.18
852-010	1	25	02	34.13
852-012	1¼	10	02	47.06
852-015	1½	10	02	51.36
852-020	2	10	02	52.52
852-025	2½	5	02	120.77
852-030	3	5	02	124.29
852-040	4	5	02	233.54

See NOTE under Flange Installation Data (pg. 2)


Blind

FLANGE

Part No	Size (in)	Ctn Qty	Code	List Price
853-005	½	5	02	31.16
853-007	¾	5	02	37.13
853-010	1	5	02	50.69
853-012	1¼	10	02	62.23
853-015	1½	5	02	62.23
853-020	2	5	02	92.99
853-025	2½	5	02	151.48
853-030	3	5	02	182.79
853-040	4	5	02	227.74
853-060	6	2	02	276.72
853-080	8	2	02	346.38

See NOTE under Flange Installation Data (pg. 2)


Slip

FLANGE (VAN STONE STYLE - LOOSE RING)

Part No	Size (in)	Ctn Qty	Code	List Price
854-005	½	5	02	22.19
854-007	¾	5	02	23.75
854-010	1	5	02	26.43
854-012	1¼	5	02	27.22
854-015	1½	5	02	27.78
854-020	2	5	02	37.01
854-025	2½	5	02	57.15
854-030FT	3	5	02	63.15
854-040FT	4	5	02	79.87
854-050FT	5	5	02	125.67
854-060FT	6	5	02	125.67
854-080FT	8	5	02	204.63


Slip

FLANGE (VAN STONE STYLE - LOOSE RING) con't.

Part No	Size (in)	Ctn Qty	Code	List Price
854-100FT	10	2	92	264.94
854-120FT	12	1	92	285.65

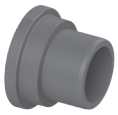
FT Represents FiberTuff Ring.
See NOTE under Flange Installation Data (pg. 2)


SP

FLANGE (VAN STONE STYLE - LOOSE RING)

Part No	Size (in)	Ctn Qty	Code	List Price
856-005	½	25	02	22.33
856-007	¾	5	02	23.93
856-010	1	5	02	26.66
856-012	1¼	10	02	27.51
856-015	1½	5	02	28.04
856-020	2	5	02	37.28
856-025	2½	5	02	57.63
856-030FT	3	5	02	63.65
856-040FT	4	5	02	80.55
856-050FT	5	5	02	125.66
856-060FT	6	5	02	126.69
856-080FT	8	5	02	226.66
856-100FT	10	2	92	264.94
856-120FT	12	2	92	285.65

FT Represents FiberTuff Ring.
See NOTE under Flange Installation Data (pg. 2)


SP

FLANGE HUB SPIGOT

Part No	Size (in)	Ctn Qty	Code	List Price
82060	3	5	02	$23.37
82062	4	5	02	$34.97
82063	5	5	02	$69.93
82064	6	5	02	$76.46
82065	8	2	02	$170.86
82066	10	2	92	$208.13
82067	12	2	92	$230.85


Slip

FLANGE HUB SOCKET

Part No	Size (in)	Ctn Qty	Code	List Price
82090	3	5	02	$20.31
82092	4	5	02	$28.72
82093	5	5	02	$62.27
82094	6	5	02	$53.19
82095	8	5	02	$146.28
82096	10	2	92	$192.18
82097	12	1	92	$221.19



FLANGE GASKET

Part No	Size (in)	Ctn Qty	Code	List Price
20GE	FOR 2" FLANGE	25	VB	$2.67
25GE	FOR 2½" FLANGE	25	VB	$3.95
30GE	FOR 3" FLANGE	25	VB	$3.95
40GE	FOR 4" FLANGE	25	VB	$4.66
50GE	FOR 5" FLANGE	10	VB	$6.23
60GE	FOR 6" FLANGE	10	VB	$8.84
80GE	FOR 8" FLANGE	5	VB	$13.93
100GE	FOR 10" FLANGE	5	VB	$16.25
120GE	FOR 12" FLANGE	5	VB	$20.87

NOTE: Bolt sets for Flange x Flange connections are not offered. For bolt size and quantity requirements, see page 2.
Gaskets are: EPDM material, ANSI B16.5 Class 150 dimensions, 1/8" Thick



FLANGE BOLT KIT

Part No	Size (in)	Ctn Qty	Code	List Price
NEW PRODUCT F20BSG	FOR 2" FLANGE	1	VB	16.25
NEW PRODUCT F30BSG	FOR 2½" & 3" FLANGE	1	VB	20.50
NEW PRODUCT F40BSG	FOR 4" FLANGE	1	VB	38.00
NEW PRODUCT F50BSG	FOR 5" FLANGE	1	VB	57.00
NEW PRODUCT F80BSG	FOR 6" & 8" FLANGE	1	VB	63.00
NEW PRODUCT F120BSG	FOR 10" & 12" FLANGE	1	VB	144.00

Gasket not inlcuded in Bolt Kit

NIPPLES



MPT x MPT

REDUCING TBE NIPPLE

Part No	Size (in)	Ctn Qty	Code	List Price
882-101	¾ x ½	50	02	1.80

See Nipple Price List (discounts will vary)

WYES



Slip x Slip x Slip

WYE

Part No	Size (in)	Ctn Qty	Code	List Price
875-020 †	2	5	01	124.26
875-030 ‡	3	5	01	399.49
875-040 ‡	4	4	01	549.96
875-060 ‡	6	5	01	676.06
875-080 §	8	5	01	1,359.59

† 235 psi working pressure
‡ 150 psi working pressure
§ 100 psi working pressure



Slip x Slip x Slip

REDUCING WYE

Part No	Size (in)	Ctn Qty	Code	List Price
875-247 †	2 x 2 x ½*	10	02	147.83
875-248 †	2 x 2 x ¾*	10	02	147.83
875-249 †	2 x 2 x 1*	10	02	147.83
875-250 †	2 x 2 x 1¼*	10	02	147.83
875-251 †	2 x 2 x 1½*	10	02	147.83
875-335 ‡	3 x 3 x 1*	5	02	465.64
875-336 ‡	3 x 3 x 1¼*	5	02	465.64
875-337 ‡	3 x 3 x 1½*	5	02	465.64
875-338 ‡	3 x 3 x 2*	4	02	465.64
875-339 ‡	3 x 3 x 2½*	5	02	465.64
875-420 ‡	4 x 4 x 2*	4	02	585.43
875-422 ‡	4 x 4 x 3*	4	02	585.43
875-528 ‡	6 x 6 x 2*	5	02	637.43
875-530 ‡	6 x 6 x 3*	5	02	637.43
875-532 ‡	6 x 6 x 4	5	02	515.25
875-578 §	8 x 8 x 2*	1	02	1,778.56
875-580 §	8 x 8 x 3*	1	02	1,778.56
875-582 §	8 x 8 x 4	1	02	1,359.59
875-585 §	8 x 8 x 6*	1	02	1,659.08

* Sized with Bushing
† 235 psi working pressure
‡ 150 psi working pressure
§ 100 psi working pressure

UNIONS



Slip x MPT

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
896-005	½	10	02	20.17
896-007	¾	10	02	21.31
896-010	1	10	02	29.95
896-012	1¼	5	02	58.14
896-015	1½	5	02	61.60
896-020	2	5	02	75.34
896-030	3	5	02	169.99
896-168	1¼ x 1	5	02	79.29

Pressure rated at 235 p.s.i. at 73°F.
Unions are listed as NSF 61.



Slip x Slip

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
897-002	¼	25	02	28.14
897-003	⅜	25	02	28.14
897-005	½	10	02	14.73
897-007	¾	10	02	19.13
897-010	1	10	02	21.82
897-012	1¼	5	02	43.36
897-015	1½	5	02	49.09
897-020	2	5	02	66.54
897-030	3	5	02	123.92
897-040	4	4	02	159.13

Pressure rated at 235 p.s.i. at 73°F.
Unions are listed as NSF 61.



FPT x FPT

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
898-005	½	10	02	17.46
898-007	¾	10	02	24.46
898-010	1	10	02	32.51
898-012	1¼	5	02	62.04
898-015	1½	5	02	76.82
898-020	2	5	02	118.18
898-030	3	5	02	299.79
898-040	4	4	02	352.28

Pressure rated at 235 p.s.i. at 73°F.
Unions are listed as NSF 61.



Slip x FPT

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
899-005	½	10	02	18.34
899-007	¾	10	02	25.64
899-010	1	10	02	34.09
899-012	1¼	5	02	65.13
899-015	1½	5	02	80.62
899-020	2	5	02	124.12

Pressure rated at 235 p.s.i. at 73°F.
Unions are listed as NSF 61.

UNION O-RINGS


Viton

UNION O-RING (CURRENT STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
80115	½	1	02	$3.03
80118	¾	1	02	$3.36
80215	1	1	02	$4.13
80221	1¼	1	02	$7.07
80223	1½	1	02	$7.78
80227	2	1	02	$7.78
80235	3	1	02	$17.68


Viton

UNION O-RING (PRIOR TO 2004)

Part No	Size (in)	Ctn Qty	Code	List Price
80213	½	1	02	$3.03
80216	¾	1	02	$3.36
80222	1	1	02	$4.13
80225	1¼	1	02	$7.07
80227	1½	1	02	$7.78
80231	2	1	02	$9.54
80240	3	1	02	$17.68

PVC SCHEDULE 80
PRICE LIST

DO NOT USE LASCO FITTINGS FOR COMPRESSED AIR OR GASES.
DO NOT TEST PVC PIPING SYSTEMS WITH COMPRESSED AIR OR GASES.
DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY LASCO.
MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.



⚠WARNING:
USE OF COMPRESSED AIR OR GAS IN PVC/CPVC PIPE AND FITTINGS CAN RESULT IN EXPLOSIVE FAILURES AND CAUSE SEVERE INJURY OR DEATH.

STANDARDS AND SPECIFICATIONS – SCHEDULE 80

ASTM D-1784	–	Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly Vinyl Chloride) (CPVC) Compounds.
ASTM D-2464	–	Threaded type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80.
ASTM D-2467	–	Socket Type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80.
ASTM F-1970	–	Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems.
MATERIAL	–	LASCO Schedule 80 Fittings are produced from PVC TYPE 1, CELL Classification 12454-B.
	–	O-RINGs are produced from a fluorocarbon elastomer (VITON).
LISTINGS	–	NSF (National Sanitation Foundation) for potable water services.

American Granby

CUSTOMER SERVICE
Phone: (315) 451-1100 or (800) 776-2266 | Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

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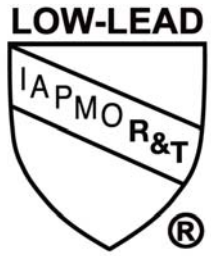
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The following four symbols appear in the AGI catalog to reference the lead free status of any AGI product.



The **UPC/IAPMO R&T** Low Lead symbol indicates products that AGI or our supplier has had certified by IAPMO to NSF/ANSI 372 standards and can be sold in California as well as the rest of the U.S.



The **No Lead/<0.25% weighted avg./NSF/ANSI 372** symbol indicates a product that has been NSF/ANSI 372 certified by another testing agency (other than IAPMO) and can be sold in California as well as the rest of the U.S.



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The **No Lead/Lead Free** symbol indicates a product not made from brass or bronze and does not contain lead that can be sold in all states except California and Louisiana (2013).

Weight of Water and Pipe (per foot)

Pipe Size	Pipe Type	Pipe ID	Water Weight	Pipe Weight	Total Weight
1"	125 PSI Polyethylene	1.04"	0.38 lbs.	0.20 lbs.	0.58 lbs.
1 1/4"	125 PSI Polyethylene	1.38"	0.65 lbs.	0.33 lbs.	0.98 lbs.
1"	160 PSI Polyethylene	1.049"	0.38 lbs.	0.26 lbs.	0.64 lbs.
1 1/4"	160 PSI Polyethylene	1.38"	0.65 lbs.	0.43 lbs.	1.08 lbs.
1"	Sch 80 PVC	0.957"	0.31 lbs.	0.40 lbs.	0.71 lbs.
1 1/4"	Sch 80 PVC	1.278"	0.56 lbs.	0.55 lbs.	1.11 lbs.
1 1/2"	Sch 80 PVC	1.5"	0.77 lbs.	0.66 lbs.	1.43 lbs.
2"	Sch 80 PVC	1.939"	1.28 lbs.	0.92 lbs.	2.20 lbs.
1"	Steel	1.049"	0.38 lbs.	1.68 lbs.	2.06 lbs.
1 1/4"	Steel	1.38"	0.65 lbs.	2.28 lbs.	2.93 lbs.
1 1/2"	Steel	1.61"	0.88 lbs.	2.73 lbs.	3.61 lbs.
2"	Steel	2.067"	1.45 lbs.	3.68 lbs.	5.13 lbs.

PLASTIC PIPE: FRICTION LOSS (IN FEET OF HEAD) PER 100 Ft.

GPM	GPH	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
1	60	4.25	1.39	.356	.11							
2	120	15.13	4.83	1.21	.38	.10						
3	180	31.97	9.96	2.51	.77	.21	.10					
4	240	54.97	17.07	4.21	1.30	.35	.16					
5	300	84.41	25.76	6.33	1.92	.51	.24					
6	360		36.34	8.83	2.69	.71	.33	.10				
8	480		63.71	15.18	4.58	1.19	.55	.17				
10	600		97.52	25.98	6.88	1.78	.83	.25	.11			
15	900			49.68	14.63	3.75	1.74	.52	.22			
20	1200			86.94	25.07	6.39	2.94	.86	.36	.13		
25	1500				38.41	9.71	4.44	1.29	.54	.19		
30	1800					13.62	6.26	1.81	.75	.26		
35	2100					18.17	8.37	2.42	1.00	.35	.09	
40	2400					23.55	10.70	3.11	1.28	.44	.12	
45	2700					29.44	13.46	3.84	1.54	.55	.15	
50	3000						16.45	4.67	1.93	.66	.17	
60	3600						23.48	6.60	2.71	.93	.25	
70	4200							8.83	3.66	1.24	.33	
80	4800							11.43	4.67	1.58	.41	
90	5400							14.26	5.82	1.98	.52	
100	6000								7.11	2.42	.63	.08
125	7500								10.83	3.80	.95	.13
150	9000									5.15	1.33	.18
175	10500									6.90	1.78	.23
200	12000									8.90	2.27	.30

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COPPER PIPE: FRICTION LOSS (IN FEET OF HEAD) PER 100 Ft.

GPM	GPH	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
1	60	6.2	1.8	.39								
2	120	19.6	6.0	1.2								
5	300		30.0	5.8	1.6							
7	420		53.00	11.0	3.2	2.2						
10	600			19.6	5.3	3.9						
15	900			37.0	9.9	6.2	2.1					
18	1080			55.4	16.1	6.9	3.2					
20	1200				18.5	10.4	3.9					
25	1500				27.7	14.3	5.3	1.5				
30	1800				39.3	18.7	7.6	2.1				
35	2100				48.5	25.4	10.2	2.8				
40	2400					30.0	13.2	3.5	1.2			
45	2700					39.3	16.2	4.2	1.6			
50	3000						19.4	5.1	1.8			
60	3600						27.7	6.9	2.5	1.1		
70	4200						40.0	9.2	3.5	1.4		
75	4500						41.6	9.9	3.7	1.6		
80	4800						45.0	11.6	4.2	1.8		
90	5400						50.8	13.9	4.8	2.2		
100	6000							16.9	6.2	2.8		
125	7500							25.4	8.6	3.7		
150	9000							32.3	11.6	4.8	1.2	
175	10500							41.6	16.2	6.9	1.7	
200	12000							57.8	20.8	9.0	2.1	

STEEL PIPE: FRICTION LOSS (IN FEET OF HEAD) PER 100 Ft.

GPM	GPH	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
1	60	.3	1.86	.26								
2	120	15.00	4.78	1.21	.38							
3	180	31.80	10.00	2.50	.77							
4	240	54.90	17.10	4.21	1.30	.34						
5	300	83.50	25.80	6.32	1.93	.51	.24					
6	360		36.50	8.87	2.68	.70	.33	.10				
7	420		48.70	11.80	3.56	.93	.44	.13				
8	480		62.70	15.00	4.54	1.18	.56	.17				
9	540			18.80	5.65	1.46	.69	.21				
10	600			23.00	6.86	1.77	.83	.25	.11	.04		
12	720			32.60	9.62	2.48	1.16	.34	.15	.05		
15	900			49.70	14.70	3.74	1.75	.52	.22	.08		
20	1200			86.10	25.10	6.34	2.94	.87	.36	.13		
25	1500				38.60	9.65	4.48	1.30	.54	.19		
30	1800				54.60	13.60	6.26	1.82	.75	.26		
35	2100				73.40	18.20	8.37	2.42	1.00	.35		
40	2400				95.00	23.50	10.79	3.10	1.28	.44		
45	2700					30.70	13.45	3.85	1.60	.55		
70	4200					68.80	31.30	8.86	3.63	1.22	.35	
100	6000						62.20	17.40	7.11	2.39	.63	
150	9000							38.00	15.40	5.14	1.32	
200	1200							66.30	26.70	8.90	2.27	.736

HEAD AND PRESSURE EQUIVALENTS

Feet Head of Water and Equivalent Pressures

Feet Head	PSI
1	.43
2	.87
3	1.30
4	1.73
5	2.17
6	2.60
7	3.03
8	3.46
9	3.90
10	4.33
20	8.66
30	12.99
40	17.32
50	21.65
60	25.99
70	30.32
80	34.65
90	38.96
100	43.31
110	47.64
120	51.97
130	56.30
140	60.63
150	64.96
160	69.29
170	73.63
180	77.96
190	82.29
200	86.62
225	97.45
250	108.27
275	119.10
300	129.93
325	140.75
350	151.58
400	173.24
500	216.55
600	259.85

Pressure and Equivalent Feet Head of Water

PSI	Feed Head
1	2.31
2	4.62
3	6.93
4	9.24
5	11.54
6	13.85
7	16.16
8	18.47
9	20.78
10	23.09
15	34.63
20	46.18
25	57.72
30	69.27
40	92.36
50	115.45
60	138.54
70	161.63
80	184.72
90	207.81
100	230.90
110	253.98
120	277.07
125	288.62
130	300.16
140	323.25
150	346.34
160	369.43
170	392.52
180	415.61
190	438.90
200	461.78
225	519.51
250	577.24
275	643.03
300	692.69
325	750.41
350	808.13

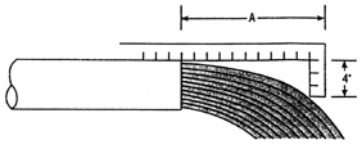
To change head in feet to pressure in pounds, multiply by .434
To change pressure in pounds to head in feet, multiply by 2.3

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CALCULATION OF DISCHARGE RATE
USING HORIZONTAL OPEN DISCHARGE FORMULA

FULL PIPE FLOW -

An L-shaped measuring square can be used to estimate flow capacity, using the chart below. As shown in illustration, place 4" side of square so that it hangs down and touches the water. The horizontal distance shown "A" is located in the first column of the chart and you read across to the pipe diameter (ID) to find the gallons per minute discharge rate.



DISCHARGE RATES IN GPM - NOMINAL PIPE SIZE (ID)

Horizontal Discharge	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
4	5.7	9.8	13.3	22.0	31.3	48.5	83.5					
5	7.1	12.2	16.6	27.5	39.0	61.0	104	163				
6	8.5	14.7	20.0	33.0	47.0	73.0	125	195	285			
7	10.0	17.1	23.2	38.5	55	85	146	228	334	380		
8	11.3	19.6	26.5	44.0	62.5	97.5	166	260	380	665	1060	
9	12.8	22.0	29.8	49.5	70.0	110	187	293	430	750	1190	1160
10	14.2	24.5	33.2	55.5	78.2	122	208	326	476	830	1130	1850
11	15.6	27.0	36.5	60.5	86.0	134	229	360	525	915	1460	2100
12	17.0	29.0	40.0	66.0	94.0	146	250	390	570	1000	1600	2220
13	18.5	31.5	43.0	71.5	102	158	270	425	620	1080	1730	2400
14	20.0	34.0	46.5	77.0	109	170	292	456	670	1160	1860	2590
15	21.3	36.3	50.0	82.5	117	183	312	490	710	1250	2000	2780
16	22.7	39.0	53.0	88.0	125	196	334	520	760	1330	2120	2960
17		41.5	56.5	93.0	133	207	355	550	810	1410	2260	3140
18			60.0	99.0	144	220	375	590	860	1500	2390	3330
19				110	148	232	395	620	910	1580	2520	3500
20					156	244	415	650	950	1660	2660	3700

NEMA CONTROL PANEL RATINGS

Rating	Desc	Explanation
NEMA 1	General Purpose	To prevent accidental contact with enclosed apparatus. Suitable for application indoors where not exposed to unusual service conditions.
NEMA 2	Driptight	To prevent accidental contact, and in addition, to exclude falling moisture or dirt.
NEMA 3	Weatherproof	Protection against specified weather hazards. Suitable for outdoors.
NEMA 3R	Raintight	Protects against entrance of water from a beating rain. Suitable for general outdoor application not requiring sleetproof.
NEMA 4	Watertight	Designed to exclude water applied in form of hose stream. To protect against stream of water during cleaning operations, etc.
NEMA 4X	Watertight & Corrosion Rest.	Designed to exclude water applied in form of hose stream. To protect against stream of water during cleaning operations, etc. Corrosion Resistant
NEMA 5	Dust tight	Constructed so that dust will not enter enclosed case. Being replaced in some equipment by NEMA 12
NEMA 6	Submersible	Intended to permit enclosed apparatus to be operated successfully when submerged in water under specified pressure and time
NEMA 7	Hazardous Locations	Designed to meet application requirements of the NEC for Class I, Class I - Air Hazardous Locations (explosive atmospheres) Circuit interruption occurs in air.
NEMA 8	Hazardous Locations Class II - Oil A,B,C,D	Identical to NEMA 7 above, except the apparatus is immersed in oil.
NEMA 9	Hazardous Locations Class II - Oil E, F, G	Designed to meet application requirements of the NEC for Class II Hazardous Locations (combustible dust, etc.)
NEMA 10	Bureau of Mines	Meets requirements of US Bureau of Mines. Suitable for coal mines.
NEMA 11	Oil Immersed	Provides oil immersion of apparatus such that it is suitable for application Fume Resistant where equipment is subject to acid or other corrosive fumes.
NEMA 12	Industrial Use	For use in those industries where it is desired to exclude dust, lint, fibers and flyings, or oil or coolant seepage.

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