Victaulic®

I-P500

FIELD INSTALLATION HANDBOOK

Vic-Press™

SCHEDULE 10S SYSTEM PRODUCTS

- O-RING INFORMATION
- PIPE PREPARATION
- PRODUCT INSTALLATION

⚠ WARNING

- **Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic products.**
- **Depressurize and drain piping systems before attempting to install, remove, adjust, or maintain any Victaulic products.**
- **Wear safety glasses, hardhat, foot protection, and hearing protection.**

Failure to follow instructions and warnings could cause system failure, resulting in serious personal injury and/or property damage.

If you need additional copies of any instructions, or if you have questions about the safe and proper installation or operation of Victaulic products, contact Victaulic.

For the most up-to-date information on Victaulic products, visit: www.victaulic.com

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General Information

HAZARD IDENTIFICATION

Definitions for identifying the various hazard levels are provided below.

This safety alert symbol indicates important safety messages. When you see this symbol, be alert to the possibility of personal injury. Carefully read and fully understand the message that follows.

⚠ DANGER

- **The use of the word "DANGER" identifies an immediate hazard with a likelihood of death or serious personal injury if instructions, including recommended precautions, are not followed.**

⚠ WARNING

- **The use of the word "WARNING" identifies the presence of hazards or unsafe practices that could result in death or serious personal injury if instructions, including recommended precautions, are not followed.**

⚠ CAUTION

- **The use of the word "CAUTION" identifies possible hazards or unsafe practices that could result in personal injury and product or property damage if instructions, including recommended precautions, are not followed.**

NOTICE

- **The use of the word "NOTICE" identifies special instructions that are important but not related to hazards.**

INTRODUCTION

This field installation handbook is a basic field reference guide for Victaulic Vic-Press Schedule 10S System Products. This handbook provides easy reference to proper installation information. In addition to this handbook, Victaulic offers the following handbooks for other products/materials:

- I-100 – Installation Instructions for IPS and Metric Carbon Steel, Stainless Steel, and Aluminum Products
- I-300 – Installation Instructions for AWWA Products
- I-600 – Installation Instructions for Copper Connection Products
- I-900 – Installation Instructions for HDPE Products

Additional copies of installation information are available from Victaulic, or Victaulic stocking distributors, upon request.

Always follow good piping practices. Specified pressures, temperatures, external loads, internal loads, performance standards, and tolerances must never be exceeded.

Many applications require recognition of special conditions, code requirements, and the use of safety factors. Qualified engineers should reference Section 26 of the Victaulic General Catalog (G-100) and Victaulic publication 05.01, "Gasket Selection Guide," when determining requirements for special applications.

NOTICE

- **Victaulic Company maintains a continual policy of product improvement. Therefore, Victaulic reserves the right to change product specifications, designs, and standard equipment without notice and without incurring obligation.**
- **VICTAULIC COMPANY IS NOT RESPONSIBLE FOR SYSTEM DESIGN, NOR DOES THE COMPANY ASSUME ANY RESPONSIBILITY FOR SYSTEMS THAT ARE DESIGNED IMPROPERLY.**
- **This handbook is not intended to be a substitute for competent, professional assistance, which is a prerequisite for any product application.**
- **The information published in this handbook and other Victaulic literature supersedes all previously published information.**
- **Drawings and/or pictures in this manual may be exaggerated for clarity.**
- **The field assembly handbook contains trademarks, copyrights, and products with patented features that are the exclusive property of Victaulic Company.**
- **WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE ITS ACCURACY, VICTAULIC, ITS SUBSIDIARIES, AND ITS AFFILIATED COMPANIES MAKE NO EXPRESSED OR IMPLIED WARRANTY OF ANY KIND REGARDING THE INFORMATION CONTAINED OR REFERENCED IN THIS HANDBOOK. ANYONE WHO USES THE INFORMATION CONTAINED HEREIN DOES SO AT THEIR RISK AND ASSUMES ANY LIABILITY THAT RESULTS FROM SUCH USE.**

IMPORTANT INFORMATION

ASTM A-312 Types 304/304L and 316/316L Schedules 5S and 10S Stainless Steel Pipe

Vic-Press Schedule 10S System Products are designed for joining ASTM A-312 Schedules 5S and 10S stainless steel pipe (Types 304/304L or 316/316L) in ½-inch/21.3-mm, ¾-inch/26.9-mm, 1-inch/33.7-mm, 1½-inch/48.3-mm, and 2-inch/60.3-mm sizes.

When used with Schedule 10S stainless steel pipe, Vic-Press Schedule 10S System Products are rated up to a maximum working pressure of 500-psi/3447-kPa (except steam), in accordance with standard temperature/pressure charts for water, oil, non-combustible gases, and general chemical services. Always refer to the Vic-Press Schedule 10S product submittal for maximum working pressures for flange adapters, valves, unions, etc.

When used with Schedule 5S stainless steel pipe, Vic-Press Schedule 10S System Products are rated for 300-psi/2068-kPa maximum working pressure or ANSI Class 150 (except steam), in accordance with standard temperature/pressure charts for water, oil, non-combustible gases, and general chemical services.

Vic-Press Schedule 10S System Products for Schedules 5S and 10S stainless steel pipe are UL classified in accordance with ANSI/NSF 61 for cold (+73°F/+23°C) potable water service and hot (+180°F/+82°C) potable water service.

For support requirements, refer to ASME B31.1, B31.3, and B31.9.

Victaulic seals are designed to perform in a wide range of temperatures and operating conditions. As with any installation, there is a direct relationship between temperature, continuity of service, and seal life. Victaulic publication 05.01, “Gasket Selection Guide,” must be referenced for gasket grade recommendations for each application.

⚠ WARNING

- **It is the responsibility of system designers to verify the suitability of ASTM A-312 Schedules 5S and 10S (Types 304/304L and 316/316L) stainless steel pipe for use with the intended fluid media.**
- **Chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate and their effect on ASTM A-312 Schedules 5S and 10S (Types 304/304L and 316/316L) stainless steel pipe must be evaluated by the material specifier to confirm system life will be adequate for the intended service.**

Failure to follow these instructions could cause product failure, resulting in serious personal injury and/or property damage.

Seal Selection

⚠ CAUTION

- **To ensure maximum product performance, always specify the proper grade seal for the intended service.**

Failure to select the proper grade seal for the service may cause joint failure, resulting in property damage.

Many factors must be considered for optimum seal performance. Do not subject seals to temperatures beyond the recommended limits, since excessive temperatures will degrade seal life and performance.

The services listed below are general service recommendations, and they apply only to Victaulic seals. Recommendations for a particular service do not necessarily imply compatibility of the couplings, related fittings, or other components for the same service. Always refer to the latest Victaulic Gasket Selection Guide (05.01) for service recommendations.

Standard Seal

Grade	Temperature Range	Compound	Color Code	General Service Recommendations*
H	–20°F to +210°F/ –29°C to +99°C	HNBR	Two Orange Stripes	Recommended for varying concentrations of hot petroleum/water mixtures; hydrocarbons; air with oil vapors; vegetable and mineral oils; and automotive fluids, such as engine oil and transmission oil, within the specified temperature range. UL classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service.
	Grade "H" is the standard seal material. Vic-Press System Products will ship with Grade "H" seals, unless specified otherwise at the time of order.			

Optional Seals

Grade	Temperature Range	Compound	Color Code	General Service Recommendations*
E	–30°F to +250°F/ –34°C to +121°C	EPDM	Green Stripe	Recommended for hot water service within the specified temperature range, plus a variety of dilute acids, oil-free air, and many chemical services. UL classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service. **NOT RECOMMENDED FOR PETROLEUM SERVICES AND STEAM SERVICES.**
O	+20°F to +300°F/ –7°C to +149°C	Fluoro-elastomer	Blue Stripe	Recommended for oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids, and air with hydrocarbons. ANSI/NSF 61 Annex G Certified for potable water up to +180°F/+82°C. **NOT RECOMMENDED FOR HOT WATER AND STEAM SERVICES.**

* Vic-Press Schedule 10S System Products must be used only for services that are compatible with the seal and fitting materials. Incompatible services may result in leakage. Refer to the Victaulic Gasket Selection Guide (05.01) for specific recommendations.

PREVENTION OF STAINLESS STEEL CONTAMINATION

These recommendations are provided as a general guideline to help prevent surface contamination of stainless steel products.

Handling and Storage

1. Stainless steel products should be handled only with non-contaminating apparatus (i.e. nylon straps or apparatus protected with a non-contaminating buffer material).
2. If carbon steel straps are used, a buffer material must be placed between the strap and the stainless steel product. Common non-contaminating buffer materials include wood, cardboard, paper, canvas, and other stainless steel material.
3. Stainless steel products must be stocked on non-contaminating racks or skids.
4. Stainless steel products must be stocked in an area separate from iron or carbon steel products.
5. Do no climb on or stand on stainless steel products.
6. In storage areas where salt is present in the air (i.e. near the ocean), stainless steel products must be covered with a plastic tarp.

Shipping

1. Stainless steel products must be shipped with new, non-contaminating and non-damaging packing materials.
2. If markings are required directly on stainless steel products, the marking must have a water-soluble chloride content less than 50 parts per million (ppm). This chloride content must be measured upon drying of the marking.
3. Identification tags and connectors, if required, must be constructed from non-contaminating materials.
4. Stainless steel products must be shipped separately from iron or carbon steel products. If stainless steel and/or iron or carbon steel products must be shipped together, care must be taken to completely separate the dissimilar materials by using a non-contaminating buffer.

PIPE SPECIFICATIONS

ASTM A-312 Types 304/304L and 316/316L Schedule 5S Stainless Steel Pipe

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	Pipe Dimensions and Weights				
		Maximum Outside Diameter	Minimum Outside Diameter	Nominal Inside Diameter inches/mm	Nominal Wall Thickness inches/mm	Approximate Weight of Pipe Per foot (lbs/kg)
½	0.840 21.3	0.855 21.72	0.809 20.55	0.710 18.0	0.065 1.7	0.6 0.2
¾	1.050 26.9	1.065 27.05	1.019 25.88	0.920 23.4	0.065 1.7	0.7 0.3
1	1.315 33.7	1.330 33.78	1.284 32.61	1.185 30.1	0.065 1.7	0.9 0.4
1 ½	1.900 48.3	1.915 48.64	1.869 47.47	1.770 45.0	0.065 1.7	1.3 0.5
2	2.375 60.3	2.406 61.11	2.344 59.54	2.245 57.0	0.065 1.7	1.7 0.7

ASTM A-312 Types 304/304L and 316/316L Schedule 10S Stainless Steel Pipe

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	Pipe Dimensions and Weights				
		Maximum Outside Diameter	Minimum Outside Diameter	Nominal Inside Diameter inches/mm	Nominal Wall Thickness inches/mm	Approximate Weight of Pipe Per foot (lbs/kg)
½	0.840 21.3	0.855 21.72	0.809 20.55	0.674 17.1	0.083 2.1	0.7 0.3
¾	1.050 26.9	1.065 27.05	1.019 25.88	0.884 22.5	0.083 2.1	0.9 0.4
1	1.315 33.7	1.330 33.78	1.284 32.61	1.097 27.9	0.109 2.8	1.4 0.6
1 ½	1.900 48.3	1.915 48.64	1.869 47.47	1.682 42.7	0.109 2.8	2.1 0.9
2	2.375 60.3	2.406 61.11	2.344 59.54	2.157 54.8	0.109 2.8	2.7 1.2

MINIMUM PIPE-NIPPLE LENGTH REQUIREMENTS

⚠ WARNING

- **Pipe for use with Vic-Press Schedule 10S System Products must meet the minimum pipe-nipple length requirements specified in the table below.**

Failure to follow these instructions could cause improper product installation, resulting in serious personal injury and/or property damage.

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	Minimum Pipe-Nipple Length Required inches/mm
½	0.840 21.3	3⅛ 79
¾	1.050 26.9	3⅛ 79
1	1.315 33.7	4 102
1½	1.900 48.3	3½ 89
2	2.375 60.3	4 102

PIPING SUPPORT

⚠ WARNING

- **DO NOT climb on or hang from piping installed with Vic-Press Schedule 10S System Products.**

Failure to follow this instruction will cause undue stress on installed joint, resulting in joint failure, serious personal injury, and property damage.

Piping that is joined with Vic-Press Schedule 10S System Products, like all other piping systems, requires support to carry the weight of pipes and equipment. The support method must eliminate stress on joints, piping, and other components. In addition, the method of support must allow pipeline movement, where required, along with other design requirements, such as drainage.

The tables on the following page list the suggested maximum span between pipe supports for horizontal, straight runs of pipe.

NOTICE

- **The values listed in the tables on the following page are not intended to be used as specifications for all installations, and they DO NOT apply where critical calculations are made or where there are concentrated loads between supports.**
- **Victaulic Company is not responsible for system design, nor does the Company assume any responsibility for systems that are designed improperly.**

Piping Support for ASTM A-312 Types 304/304L and 316/316L Schedule 5S Stainless Steel Pipe

For ASTM A-312 Types 304/304L and 316/316L Schedule 5S stainless steel pipe, the maximum support spacing corresponds to ASME B31.1, B31.3, or B31.9, as noted, and must be used only in conjunction with Vic-Press Schedule 10S System Products.

Pipe Size		Suggested Maximum Span Between Supports – feet/meters					
		Water Service			Gas/Air Service		
Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	B31.1	B31.3	B31.9	B31.1	B31.3	B31.9
½	0.840 21.3	6.5 2.0	6.5 2.0	7.0 2.1	7.0 2.1	7.0 2.1	7.5 2.3
¾	1.050 26.9	7.5 2.3	7.5 2.3	8.0 2.4	8.0 2.4	8.0 2.4	9.0 2.7
1	1.315 33.7	8.0 2.4	8.0 2.4	9.5 2.9	9.0 2.7	9.0 2.7	10.5 3.2
1 ½	1.900 48.3	9.5 2.9	9.5 2.9	11.0 3.4	11.0 3.4	11.0 3.4	14.0 4.3
2	2.375 60.3	10.5 3.2	10.5 3.2	11.5 3.5	12.5 3.8	12.5 3.8	15.5 4.7

Piping Support for ASTM A-312 Types 304/304L and 316/316L Schedule 10S Stainless Steel Pipe

For ASTM A-312 Types 304/304L and 316/316L Schedule 10S stainless steel pipe, the maximum support spacing corresponds to ASME B31.1, B31.3, or B31.9, as noted, and must be used only in conjunction with Vic-Press Schedule 10S System Products.

Pipe Size		Suggested Maximum Span Between Supports – feet/meters					
		Water Service			Gas/Air Service		
Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	B31.1	B31.3	B31.9	B31.1	B31.3	B31.9
½	0.840 21.3	6.5 2.0	6.5 2.0	7.0 2.1	7.0 2.1	7.0 2.1	7.5 2.3
¾	1.050 26.9	7.5 2.3	7.5 2.3	8.5 2.6	8.0 2.4	8.0 2.4	9.0 2.7
1	1.315 33.7	8.5 2.6	8.5 2.6	10.0 3.1	9.0 2.7	9.0 2.7	10.5 3.2
1 ½	1.900 48.3	10.0 3.1	10.0 3.1	12.5 3.8	11.0 3.6	11.0 3.6	13.5 4.1
2	2.375 60.3	11.0 3.6	11.0 3.6	13.0 4.0	12.5 3.8	12.5 3.8	15.5 4.7

OPERATOR SAFETY REQUIREMENTS FOR VICTAULIC PFT510 VIC-PRESS SCHEDULE 10S TOOLS

NOTICE

- **Although Victaulic PFT510 Vic-Press Schedule 10S Tools for Vic-Press Schedule 10S System Products are manufactured for safe, dependable operation, it is impossible to anticipate the combinations of circumstances that could result in an accident. The following instructions are recommended for safe operation of Victaulic PFT510 Vic-Press Tools. Always refer to the specific operating and maintenance instructions manual for complete safety requirements.**

1. **Read and understand the TM-PFT510 Operating and Maintenance Manual.** Read the supplied manual carefully before operating or lubricating the Victaulic PFT510 Vic-Press Schedule 10S Tool. Become familiar with the tool's features, operations, applications, and limitations. Be particularly aware of its specific hazards. Store the operator's manual in a readily available location. If you require additional copies of any literature, contact Victaulic.
2. **Vic-Press Schedule 10S System Products are designed for use only with ASTM A-312 Types 304/304L and 316/316L Schedules 5S and 10S stainless steel pipe.**
3. **Prevent accidental start-ups.** Do not carry a tool with your finger on the trigger.
4. **Operating environment.** Do not operate tools in damp locations. Wear hearing protection in noisy shop operations. Ensure that the work area is well lit. Avoid locations near flammable liquids and gaseous, explosive atmospheres.
5. **Keep work areas clean.** Keep the work area clear of obstructions that could limit the movement of the operator. Clean up all spills.
6. **Make sure there is adequate space to operate the tool properly.** Assembly of Vic-Press Schedule 10S System Products requires sufficient space to open the jaws for proper placement over fittings.
7. **Wear proper clothing.** Do not wear unbuttoned jackets, loose sleeve cuffs, neckties, or anything else that can become tangled in moving parts. Always wear safety glasses and foot protection. Rubber gloves and non-skid footwear are recommended.
8. **Stay alert.** Do not operate tools if you are drowsy from medication or fatigue. Avoid horseplay around tools, and keep bystanders a safe distance away from the immediate work area.
9. **Inspect the equipment.** Before starting the tool, check all moveable parts for any obstructions. Make sure tool components are installed and secured properly.
10. **Keep fingers and hands away from press jaws during tool operation.**
11. **Secure work.** Use clamps, vices, or secured pipe hangers to hold the work and to free the hands of the operator.
12. **Do not over-reach.** Maintain proper footing and balance at all times.
13. **Do not misuse tools.** Perform only the functions for which the tool was designed. Do not force the tool.
14. **Use only Victaulic Vic-Press Schedule 10S System press jaws in the proper size for the product being installed.**
15. **Always remove the battery before lubricating tool components.** Only authorized personnel should lubricate tool components.

16. **Always maintain tools.** Keep tools clean for safe, dependable operation. Follow all cleaning and lubricating instructions and jaw maintenance instructions. Report any unsafe conditions to authorized personnel for immediate correction.

17. **Check for damaged parts.** Check for alignment of moving parts, breakage of parts, mounting, and other conditions that may affect tool or jaw operation. Parts that are damaged should be replaced by an authorized service center. Defective switches should be replaced by an authorized service center. Do not use the tool if the power switch does not operate properly.

18. **DO NOT ALTER THE PFT510 VIC-PRESS SCHEDULE 10S TOOL OR JAWS IN ANY WAY. Alterations to any tool components will void the Victaulic warranty.**

19. **Do not remove any labels from the tool.** Replace any damaged or worn labels.

20. **Store Victaulic PFT510 Vic-Press Schedule 10S Tools in a dry, secure area when not in use.**

VICTAULIC PFT510 VIC-PRESS SCHEDULE 10S TOOL RATINGS

The Victaulic PFT510 Vic-Press Schedule 10S Tool is designed for joining only Victaulic Vic-Press Schedule 10S System Products with ASTM A-312 Schedules 5S and 10S stainless steel pipe (Types 304/304L or 316/316L) in ½-inch/ 21.3-mm, ¾-inch/26.9-mm, 1-inch/33.7-mm, 1½-inch/48.3-mm, and 2-inch/60.3-mm sizes.

⚠ WARNING

- **DO NOT attempt to install Victaulic Vic-Press Schedule 10S System Products with any tool other than the Victaulic PFT510 Vic-Press Schedule 10S Tool.**
- **DO NOT attempt to install Victaulic Vic-Press Schedule 10S System Products with carbon steel pipe.**

Failure to follow these instructions will cause improper product installation and joint failure, resulting in serious personal injury and/or property damage.

APPROXIMATE AMOUNT OF PRESSES WITH A FULLY-CHARGED BATTERY

The following table lists the approximate amount of presses, according to pipe size, that can be expected from a PFT510 Vic-Press Schedule 10S Tool with a fully-charged battery. **NOTE:** The amount of presses may vary with pipe properties, age of the batteries, etc.

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	Approximate Amount of Presses from a Fully-Charged Battery
½	0.840 21.3	136
¾	1.050 26.9	110
1	1.315 33.7	87
1 ½	1.900 48.3	47
2	2.375 60.3	35

SPACE REQUIRED FOR THE PRESSING OPERATION - VICTAULIC PFT510 VIC-PRESS SCHEDULE 10S TOOL

Assembly of Vic-Press Schedule 10S System Products requires sufficient space for opening the press jaws and placing them over the coupling or fitting. The tool must be perpendicular to the coupling or fitting and the connecting pipe.

Table I Space Requirement Dimensions

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	A inches/mm	B inches/mm	C inches/mm
½	0.840 21.3	1 ¾ 44	4 102	4 ½ 114
¾	1.050 26.9	1 ¾ 44	4 102	4 ½ 114
1	1.315 33.7	1 ¾ 44	4 102	4 ¾ 121
1 ½	1.900 48.3	4 ¾ 121	5 127	6 ¼ 159
2	2.375 60.3	4 ¾ 121	5 ¼ 133	6 ¾ 171

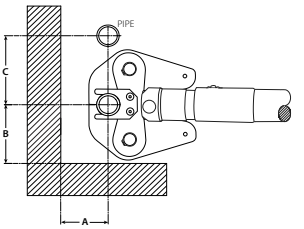


Table II Space Requirement Dimensions

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	A inches/mm	B inches/mm	C inches/mm
½	0.840 21.3	2 ¼ 57	2 ¾ 70	5 ¾ 146
¾	1.050 26.9	2 ½ 64	2 ¾ 70	6 ¼ 159
1	1.315 33.7	3 76	2 ¾ 70	7 178
1 ½	1.900 48.3	4 ¾ 121	5 127	6 ¼ 159
2	2.375 60.3	4 ¾ 121	5 ¼ 133	6 ¾ 171

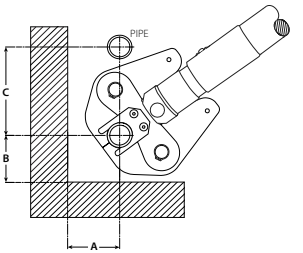
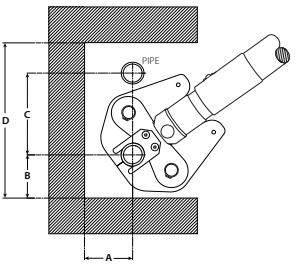


Table III Space Requirement Dimensions

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	A inches/ mm	B inches/ mm	C inches/ mm	D inches/ mm
½	0.840 21.3	2 ¼ 57	2 ¾ 70	5 ¾ 146	12 ½ 318
¾	1.050 26.9	2 ½ 64	2 ¾ 70	6 ¼ 159	12 ½ 318
1	1.315 33.7	3 76	2 ¾ 70	7 178	13 330
1 ½	1.900 48.3	4 ¾ 121	5 127	6 ¼ 159	16 406
2	2.375 60.3	4 ¾ 121	5 ¼ 133	6 ¾ 171	18 457



Vic-Press Schedule 10S System Products for Schedules 5S and 10S Stainless Steel Pipe

Installation Instructions

Victaulic®

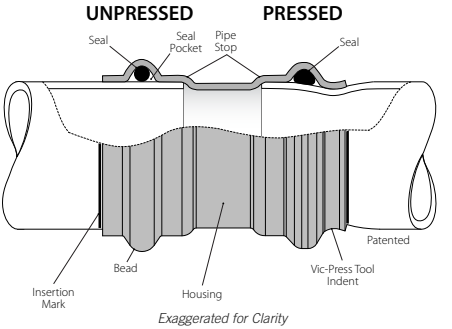
I-P500_13

INSTALLATION REQUIREMENTS

⚠ WARNING

- **Read and understand all instructions, including the operating and maintenance manual for the PFT510 Vic-Press Schedule 10S Tool, before attempting to install any Victaulic Vic-Press Schedule 10S System Products.**
- **Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.**
- **Wear safety glasses, hardhat, and foot protection.**

Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.



Exaggerated for Clarity

The following instructions contain important information regarding installation of Victaulic Vic-Press Schedule 10S System Products and must be followed to ensure proper joint performance.

Check the supplied seal to ensure it is suitable for the intended service. Refer to the "Seal Selection" section for details.

Read the operating and maintenance manual provided with the PFT510 Vic-Press Schedule 10S Tool.

Pipe dimensions must be within published tolerances; these tolerances are subject to specified standards for acceptability. Refer to the "Pipe Specifications" section for details.

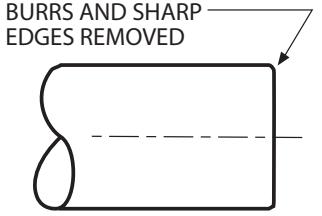
Always measure the insertion depth by using the Vic-Press Schedule 10S Marking Gauge or a ruler or tape measure. Place a mark at the proper insertion-depth measurement. This mark is a critical indicator for full insertion of the pipe end into the fitting. Refer to the "Marking the Pipe" section for requirements.

SEALS IN VIC-PRESS SCHEDULE 10S SYSTEM PRODUCTS MAY BE PRE-LUBRICATED. If product is shipped from the factory in bags, it is an indication that the seals are pre-lubricated. The shipping bag helps to keep the pre-lubrication intact. DO NOT remove product from the shipping bag until it is ready to be installed/pressed. If product is not shipped from the factory in a bag, the seals ARE NOT pre-lubricated. Refer to the "Important Lubrication Information" section for details.

Vic-Press Schedule 10S System Products have unique center-to-end or end-to-end dimensions. Threaded products with special features such as probes, escutcheon cups, etc., must be checked to ensure the thread standard and insertion length are compatible with threaded adapters. Failure to verify dimensional suitability may result in difficult and/or improper assembly.

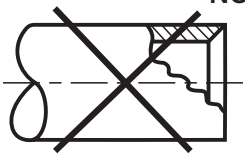
PIPE PREPARATION

ACCEPTABLE



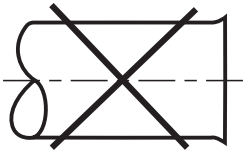
Pipe ends shall be square cut. The pipe OD shall not contain burrs, sharp edges, raised weld beads, axial score marks, scratches, and indentations.

NOT ACCEPTABLE



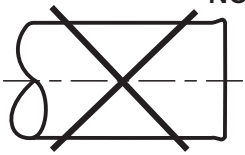
Excessive chamfer on the pipe ID will cut the seal during product assembly. Excessive chamfer is not acceptable.

NOT ACCEPTABLE

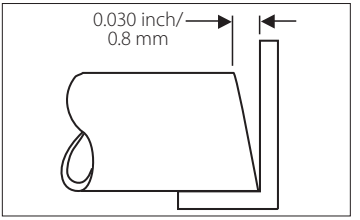


Abrasive wheels and saws will leave edges on pipe ends that are especially pronounced on one side. Burrs and sharp edges are not acceptable.

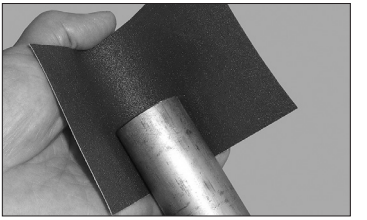
NOT ACCEPTABLE



Dull wheel cutters will push ridges up at the pipe OD, which will result in oversized pipe diameters. Oversized pipe diameters are not acceptable.



1. Pipe ends shall be square cut ("S" dimension shown above) within 0.030 inch/ 0.8 mm.



2. Clean and inspect the pipe ends. Make sure the pipe ends do not contain burrs, sharp edges, raised weld beads, axial score marks, scratches, and indentations a minimum of 2 inches/51 mm back from the pipe end.

MARKING THE PIPE

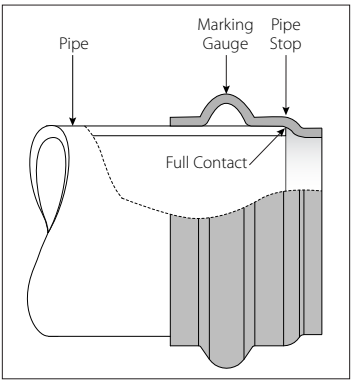
⚠ CAUTION

- **Insertion depth must be measured and marked on the pipe ends to provide visual confirmation that the pipe is inserted fully into the fitting.**

Failure to follow this instruction could cause improper product assembly, resulting in joint leakage and/or property damage.

Pipe insertion depth must be measured by using the Vic-Press Schedule 10S Marking Gauge or a ruler or tape measure. Refer to the instructions below, which provide detailed directions for measuring and marking pipe ends.

Vic-Press Schedule 10S Marking Gauge

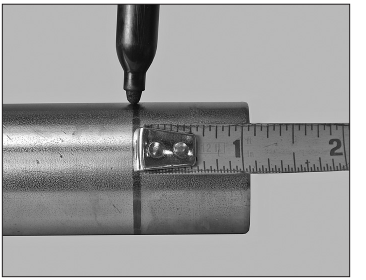


1. When using the Vic-Press Schedule 10S Marking Gauge, insert the pipe end into the correct size gauge. Make sure the pipe end contacts the pipe stop (refer to the sketch above).

2. While the pipe is inserted completely into the gauge, mark the pipe along the edge of the gauge with a marker or paint stick, as shown above.

3. Remove the gauge from the pipe.

Ruler or Tape Measure



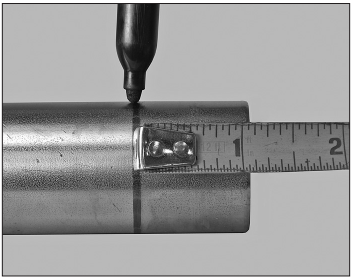
1. When using a ruler or tape measure, refer to the "Vic-Press Schedule 10S Insertion Depth Requirements" table below. Measure back from the pipe end. Place a mark around the pipe circumference with a marker or paint stick, as shown above.

Vic-Press Schedule 10S Insertion Depth Requirements

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	Insertion Depth Requirements inches/mm
½	0.840 21.3	1 1⁄16 27
¾	1.050 26.9	1 1⁄16 27
1	1.315 33.7	1 3⁄16 30
1 ½	1.900 48.3	1 3⁄8 35
2	2.375 60.3	1 5⁄8 41

Vic-Press Schedule 10S Slip Couplings

Vic-Press Schedule 10S Slip Couplings do not contain a pipe stop so that insertion to various depths can be accommodated. For proper assembly, the pipe must be inserted into the fitting to the minimum depth listed in the "Vic-Press Schedule 10S Slip Coupling Minimum Insertion Depth Requirements" table below.



1. Refer to the "Vic-Press Schedule 10S Slip Coupling Minimum Insertion Depth Requirements" table below. Use a ruler or tape measure to measure back from the pipe end. Place a mark around the pipe circumference with a marker or paint stick, as shown above.

Vic-Press Schedule 10S Slip Coupling Minimum Insertion Depth Requirements

Nominal Diameter inches	Actual Pipe Outside Diameter inches/mm	Insertion Depth Requirements inches/mm
½	0.840 21.3	1 1⁄16 27
¾	1.050 26.9	1 1⁄16 27
1	1.315 33.7	1 3⁄16 30
1 ½	1.900 48.3	1 3⁄8 35
2	2.375 60.3	1 5⁄8 41

IMPORTANT LUBRICATION INFORMATION

Handling of Product That IS Pre-Lubricated

⚠ CAUTION

- **DO NOT remove the Vic-Press Schedule 10S System Product from the shipping bag until it is ready to be installed/pressed.**
- **Handling and storage of product that is pre-lubricated is critical for ensuring proper product performance.**

Failure to follow instructions could cause dirt or debris accumulation on the pre-lubricated seals, resulting in pinching or tearing of seals, joint leakage, and property damage.

If product is shipped from the factory in bags, it is an indication that the seals are pre-lubricated and do not require additional lubrication. The shipping bag helps to keep the pre-lubrication intact. DO NOT remove product from the shipping bag until it is ready to be installed/pressed.

However, in cases where product was removed from the shipping bag and stored outside for any length of time, the seals and fitting interior shall be inspected to ensure debris is not present. If the product is mishandled, or if any dirt or debris is present on the seals or inside the fitting, remove the seals from the seal pocket. Clean the seals and fitting with water, then apply a thin coat of Victaulic Lubricant to the entire surface of each seal. Replace the seals properly in the seal pocket.

If one side of the fitting is installed/pressed, and the other side will be unpressed or exposed to the environment for an extended time period, the exposed side should be covered to protect the seal from dirt or debris accumulation. If this instruction is not followed, the seal from the exposed side of the fitting may need to be removed, cleaned, and lubricated, as described above.

Handling of Product That IS NOT Pre-Lubricated

⚠ CAUTION

- **Seals for Vic-Press Schedule 10S System Products, that are not shipped from the factory in bags, must be lubricated.**

Failure to follow this instruction could cause pinching or tearing of seals, resulting in joint leakage and/or property damage.

IF PRODUCT IS NOT SHIPPED FROM THE FACTORY IN A BAG, THE SEALS ARE NOT PRE-LUBRICATED AND MUST BE LUBRICATED IN THE FOLLOWING MANNER. Lubrication is essential to prevent seals from being pinched during installation. Fittings should be dipped into a soapy water solution. **Make sure the seals are wetted thoroughly, and complete all pressing steps while the seals are still wet.**

PRODUCT ASSEMBLY

1. Check the openings of Vic-Press Schedule 10S System Products to make sure seals are seated properly inside the seal pocket. Verify that the seals are a material grade that is compatible with the intended service.

⚠ CAUTION

- **DO NOT force the pipe into the coupling or fitting.**
- **Insert the pipe into the coupling or fitting with a slight twisting action to ease insertion.**

Forcing the pipe into position may cause damage to the seal, resulting in joint leakage and/or property damage.

2. For Standard Couplings and Fittings: Insert the pipe into the coupling or fitting with a slight twisting action to ease insertion. The pipe must contact the pipe stop inside the coupling or fitting. Make sure the pipe is inserted fully up to the mark that was made in previous steps.

2a. For Slip Couplings: Insert the pipe into the slip coupling with a slight twisting action to ease insertion. Since slip couplings do not contain a pipe stop, make sure the pipe is inserted fully up to the mark that was made in the "Vic-Press Schedule 10S Slip Couplings" section.

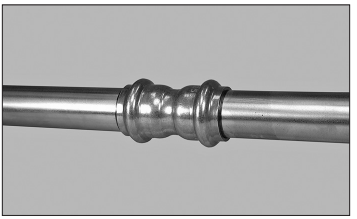
⚠ WARNING

- **Before operating the Victaulic PFT510 Vic-Press Schedule 10S Tool, read and understand the TM-PFT510 Operating and Maintenance Manual and all labels on the tool.**
- **DO NOT ALTER THE PFT510 VIC-PRESS SCHEDULE 10S TOOL OR JAWS IN ANY WAY. ALTERATIONS TO ANY TOOL COMPONENTS WILL VOID THE VICTAULIC WARRANTY.**

Failure to follow instructions may result in serious personal injury, improper tool operation, improper joint assembly, and property damage.

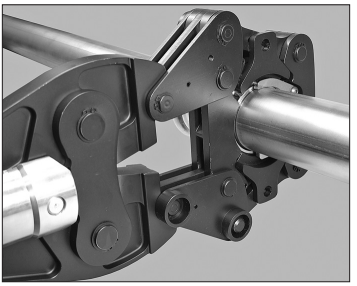
NOTICE

- **For Vic-Press Schedule 10S System Products with threaded connections, the outlet section of the fitting must be held rigid with a pipe wrench during tightening.**



Standard Vic-Press Jaw for ½-inch/21.3-mm, ¾-inch/26.9-mm, and 1-inch/33.7-mm Sizes

Press Ring/Vic-Press Adapter Jaw Assembly for 1½-inch/48.3-mm and 2-inch/60.3-mm Sizes



3. Align the pipe. Make sure the joint is straight and the pipe marks indicate full insertion into the coupling or fitting before performing the pressing operation. The PFT510 Vic-Press Schedule 10S Tool will not straighten a deflected joint during the pressing operation. Straight joints can be achieved through proper supports and careful tool handling. **NOTE:** For 1½-inch/48.3-mm and 2-inch/60.3-mm sizes, the press ring/Vic-Press adapter jaw assembly (shown above) must be utilized. Always refer to the TM-PFT510 Operating and Maintenance Manual for details on proper tool setup and operation.

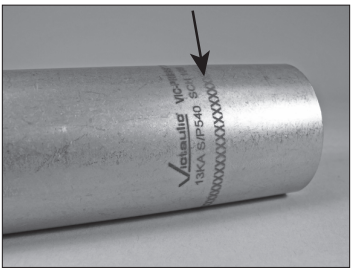
STYLES P540/P560 VIC-PRESS SCHEDULE 10S END PLUGS FOR FUTURE SYSTEM EXPANSION

⚠ WARNING

- **Read and understand all instructions before attempting to install any Victaulic piping products.**
- **Depressurize and drain the piping system before attempting to cut into an existing Vic-Press Schedule 10S system.**
- **DO NOT use torches or other heat sources near Vic-Press Schedule 10S System Products.**
- **Wear safety glasses, hardhat, and foot protection.**

Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.

INITIAL INSTALLATION OF END PLUG



1. The Vic-Press Schedule 10S End Plug contains an insertion depth mark, shown above, to facilitate installation.

2. Install the Vic-Press Schedule 10S End Plug per the “Product Assembly” section of this handbook. Make sure the insertion depth mark on the end plug indicates full insertion into the Vic-Press Schedule 10S fitting, as shown above.

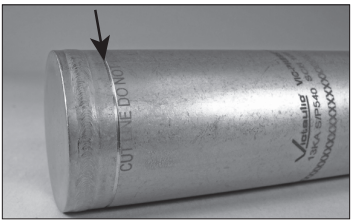
INSTRUCTIONS FOR SYSTEM EXPANSION

⚠ WARNING

- **Depressurize and drain the piping system completely before attempting to cut into an existing system.**

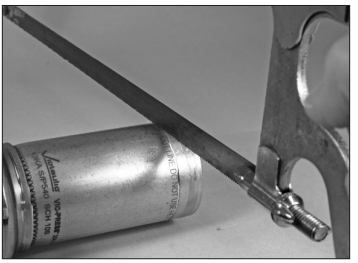
Failure to follow this instruction could result in serious personal injury and property damage.

1. Depressurize and drain the piping system completely.

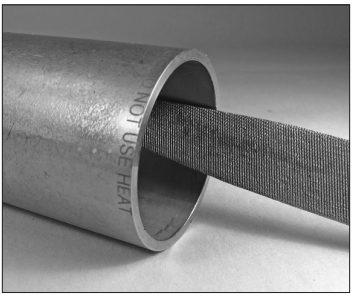


2. End plugs are provided with an indented end-cut-off score line for starting the cut with a saw. To prevent damage to the seal in the adjoining Vic-Press fitting, **DO NOT** use torches or other heat sources for cutting off the end.

2a. Prior to cutting, make sure no obstructions will be compromised at the end of the cut (i.e. electrical lines, other piping).

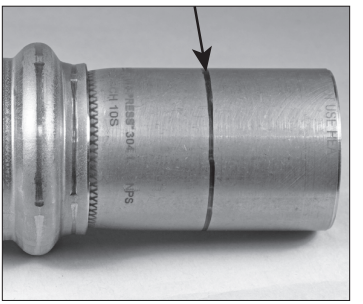


3. Using a saw, start the cut on the indented end-cut-off score line. **NOTE:** The indented end-cut-off score line is provided for precise cut location. **DO NOT** cut the end plug at any location other than the indented end-cut-off score line. This location is important for installation of the adjoining Vic-Press Schedule 10S fitting.



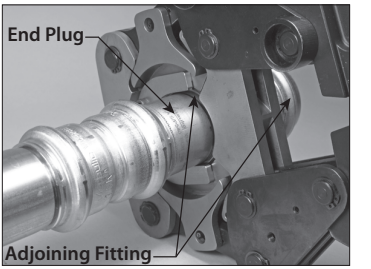
4. After the cut is complete, use a file to remove burrs and sharp edges from the end (inside and outside diameters). Check the end to make sure it is cut square. **NOTE:** It is important to remove all burrs and sharp edges to prevent damage to the seals of the Vic-Press Schedule 10S fitting that will be added to the existing system.

4a. Clean the pipe end to remove debris from cutting and filing.



5. Insertion depth must be measured by using the Vic-Press Schedule 10S Marking Gauge or a ruler or tape measure and then marked with a marker or paint stick. Refer to the "Marking the Pipe" section in this handbook for complete insertion depth marking requirements.

6. Refer to the “Product Assembly” section of this handbook to install the adjoining Vic-Press Schedule 10S fitting.



7. Make sure the cut-off end of the end plug is inserted fully up to the mark made in step 5. Complete the installation by using the PFT510 Vic-Press Schedule 10S Tool. Always refer to the TM-PFT510 Operating and Maintenance Manual for detailed safety information and instructions for using the tool.

⚠ WARNING

- **Use ONLY the Victaulic PFT510 Vic-Press Schedule 10S Tool for proper installation of Vic-Press Schedule 10S System Products.**

Failure to follow this instruction will cause improper assembly and joint failure, resulting in serious personal injury and property damage.

INSTALLATION INSPECTION

⚠ WARNING

- **Always inspect each joint to ensure proper product installation.**
- **Undersized or oversized pipe and improperly pressed fittings are unacceptable. Any of these conditions must be corrected before attempting to pressurize the system.**

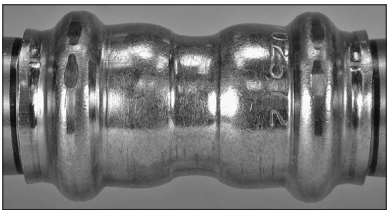
Failure to follow these instructions could result in serious personal injury, property damage, joint leakage, and/or joint failure.

Proper pipe preparation and proper pressing of couplings or fittings is essential for maximum joint performance. **THESE CONDITIONS MUST BE PRESENT TO ENSURE PROPER JOINT ASSEMBLY.**

1. Re-inspect all joints before and after the field test to identify potential failure points.

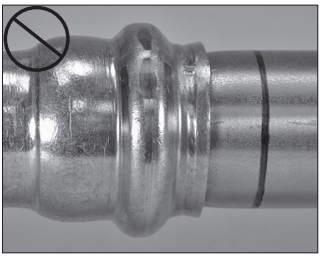
2. Inspect the pressed joint, and compare it to the photos shown below. If the pressed joint does not look like the photo labeled "Proper Press," the joint must be cut out, and a new coupling or fitting must be installed.

PROPER PRESS

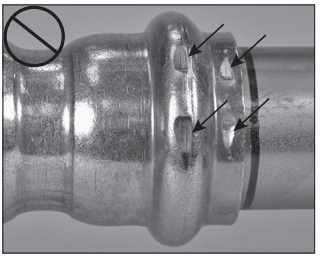


Pipe Ends Inserted Fully, Both Ends Pressed Properly

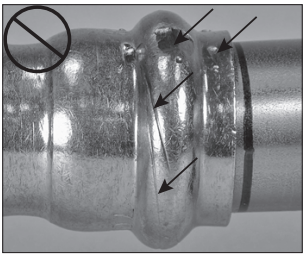
IMPROPER PRESSES (NOT ACCEPTABLE)



Pipe End Not Inserted Fully



Not Fully Pressed



Not Pressed Correctly Due to Incorrect Press Jaw Placement

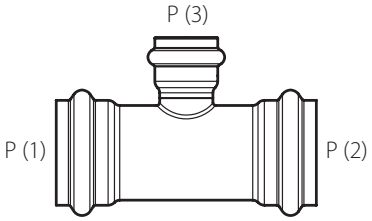
Product Data

The following information contains center-to-end, end-to-end, take-out, and similar overall dimensions for Vic-Press Schedule 10S System Products. Refer to the current Victaulic submittal for complete dimensional information and for products not listed in this section.

NOTICE

- **Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.**

VIC-PRESS SCHEDULE 10S SYSTEM PRODUCTS END-TYPE CODE

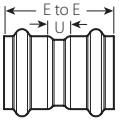


END TYPE CODE

P = Vic-Press Schedule 10S
F = Female Pipe Thread
M = Male Pipe Thread
T = Plain End
L = Flanged
G = Grooved
W = Welded
EOB = End-of-Branch

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

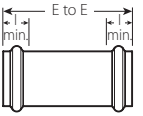
Styles P507 and P597 – Standard Couplings (P x P)



STYLES P507 AND P597

Size		Dimensions – inches/mm	
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	E to E	U Takeout
½ 15	0.840 21.3	2.78 70.6	0.65 16.5
¾ 20	1.050 26.7	2.78 70.6	0.65 16.5
1 25	1.315 33.7	3.11 79.0	0.73 18.5
1 ½ 40	1.900 48.3	3.48 88.4	0.72 18.3
2 50	2.375 60.3	3.96 100.6	0.71 18.0

Styles P508 – Slip Coupling (P x P)



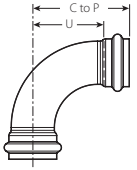
STYLE P508

Size		Dimensions – inches/mm	
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	E to E	I Minimum Pipe Insertion
½ 15	0.840 21.3	3.79 96.2	1 1⁄16 27
¾ 20	1.050 26.7	3.92 99.6	1 1⁄16 27
1 25	1.315 33.7	4.55 115.6	1 3⁄16 30
1 ½ 40	1.900 48.3	5.33 135.3	1 3⁄8 35
2 50	2.375 60.3	6.18 157.1	1 5⁄8 41

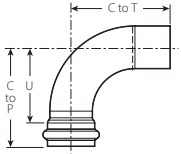
Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

Styles P568 and P586 – 90° Elbows (P x P)
Styles P562 and P542 – 90° Street Elbows (P x T)
Styles P571 and P591 – 45° Elbows (P x P)
Styles P563 and P543 – 45° Street Elbows (P x T)



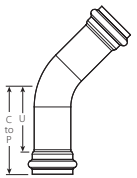
STYLES P568 AND P586



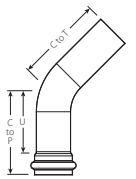
STYLES P562 AND P542

Size		Styles P568 and P586 90° Elbows		Styles P562 and P542 90° Street Elbows		
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	C to P inches/mm	U Takeout inches/mm	C to P* inches/mm	U Takeout inches/mm	C to T
½ 15	0.840 21.3	2.64 67.1	1.53 38.9	2.64 67.1	1.53 38.9	3.04 77.2
¾ 20	1.050 26.7	2.95 74.9	1.89 48.0	2.95 74.9	1.89 48.0	3.35 85.1
1 25	1.315 33.7	3.52 89.4	2.33 59.2	3.52 89.4	2.33 59.2	4.32 109.7
1 ½ 40	1.900 48.3	4.55 115.6	3.18 80.8	4.55 115.6	3.18 80.8	4.55 115.6
2 50	2.375 60.3	5.52 140.2	3.90 99.1	5.52 140.2	3.90 99.1	5.52 140.2

* C to T dimensions for Styles P562 and P542 are equivalent to the C to P dimensions



STYLES P571 AND P591



STYLES P563 AND P543

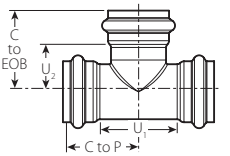
Size		Styles P571 and P591 45° Elbows		Styles P563 and P543 45° Street Elbows		
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	C to P inches/mm	U Takeout inches/mm	C to P* inches/mm	U Takeout inches/mm	C to T
½ 15	0.840 21.3	1.89 48.0	0.83 21.1	1.89 48.0	0.83 21.1	1.89 48.0
¾ 20	1.050 26.7	2.56 65.0	1.50 38.1	2.56 65.0	1.50 38.1	2.56 65.0
1 25	1.315 33.7	3.27 83.1	2.09 53.1	3.27 83.1	2.09 63.9	3.27 83.1
1 ½ 40	1.900 48.3	4.96 126.0	3.59 91.2	4.96 126.0	3.59 91.2	4.96 126.0
2 50	2.375 60.3	5.84 148.3	4.22 107.2	5.84 148.3	4.22 107.2	5.84 148.3

* C to T dimensions for Styles P563 and P543 are equivalent to the C to P dimensions

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

Styles P572 and P592 – Tees (P x P x P)

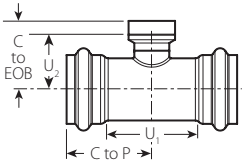


STYLES P572 AND P592

Size		Dimensions – inches/mm			
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	C to P	U_1	C to EOB	U_2
½ 15	0.840 21.3	1.71 43.4	1.29 32.8	1.91 48.5	0.84 21.3
¾ 20	1.050 26.7	2.01 51.1	1.89 48.0	1.93 49.0	0.87 22.1
1 25	1.315 33.7	2.27 57.7	2.17 55.1	2.24 56.9	1.05 26.7
1 ½ 40	1.900 48.3	2.72 69.1	2.68 68.1	2.74 69.6	1.37 34.8
2 50	2.375 60.3	3.21 81.5	3.17 80.5	3.36 85.3	1.73 43.9

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

Styles P578 and P588 – Tees with Threaded Branch (P x P x F†)



STYLES P578 AND P588

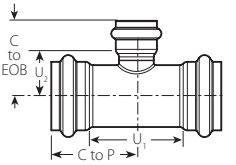
Size					Dimensions – inches/mm			
Nominal Size inches/mm					C to P	U_1 Takeout	C to EOB	U_2 Takeout
½ 15	×	½ 15	×	½ 15	1.71 43.4	1.29 32.8	1.46 37.1	0.93 23.6
¾ 20	×	¾ 20	×	½ 15	2.01 51.1	1.89 48.0	1.57 39.9	1.04 26.4
				¾ 20	2.01 51.1	1.89 48.0	1.56 39.6	1.02 25.9
1 25	×	1 25	×	½ 15	2.27 57.7	2.17 55.1	1.70 43.2	1.17 29.7
				¾ 20	2.27 57.7	2.17 55.1	1.70 43.2	1.15 29.2
				1 25	2.27 57.7	2.17 55.1	1.83 46.5	1.15 29.2
1 ½ 40	×	1 ½ 40	×	½ 15	2.72 69.1	2.68 68.1	1.99 50.5	1.46 37.1
				¾ 20	2.72 69.1	2.68 68.1	1.99 50.5	1.44 36.6
				1 25	2.72 69.1	2.68 68.1	2.12 53.8	1.44 36.6
2 50	×	2 50	×	½ 15	3.21 85.1	3.17 80.5	2.23 56.6	1.70 43.2
				¾ 20	3.21 85.1	3.17 80.5	2.23 56.6	1.68 42.7
				1 25	3.21 85.1	3.17 80.5	2.36 59.9	1.68 42.7

† Available with British Standard Pipe Threads. Specify BSPT on order.

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

Styles P573 and P593 – Tees with Reducing Branch (P x P x P)



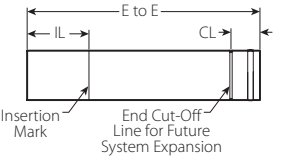
STYLES P573 AND P593

Size					Dimensions – inches/mm			
Nominal Size inches/mm					C to P	U_1 Takeout	C to EOB	U_2 Takeout
¾ 20	×	¾ 20	×	½ 15	2.01 51.1	1.89 48.0	2.01 51.1	0.95 24.1
1 25	×	1 25	×	½ 15	2.27 57.7	2.17 55.1	2.14 54.4	1.08 27.4
				¾ 20	2.27 57.7	2.17 55.1	2.07 52.6	1.00 25.4
1 ½ 40	×	1 ½ 40	×	½ 15	2.72 69.1	2.69 68.3	2.44 62.0	1.17 29.7
				¾ 20	2.72 69.1	2.69 68.3	2.36 59.9	1.29 32.8
				1 25	2.72 69.1	2.69 68.3	2.53 62.3	1.34 34.0
2 50	×	2 50	×	½ 15	3.21 81.5	3.16 80.3	2.67 67.8	1.61 40.9
				¾ 20	3.21 81.5	3.16 80.3	2.60 66.0	1.53 38.9
				1 25	3.21 81.5	3.16 80.3	2.77 70.4	1.58 40.1
				1 ½ 40	3.21 81.5	3.16 80.3	2.98 75.7	1.60 40.6

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

Styles P560 and P540 – End Plugs for Future System Expansion



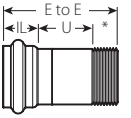
STYLES P560 AND P540

Size		Dimensions – inches/mm		
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	E to E	IL Insertion Length	CL Cut-Off Line
½ 15	0.840 21.3	4.00 101.6	1.06 26.9	0.50 12.7
¾ 20	1.050 26.7	4.00 101.6	1.06 26.9	0.50 12.7
1 25	1.315 33.7	4.38 111.3	1.19 30.2	0.50 12.7
1 ½ 40	1.900 48.3	4.75 120.7	1.38 35.1	0.50 12.7
2 50	2.375 60.3	5.25 133.4	1.63 41.4	0.50 12.7

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

Styles P576 and P596 – Male Threaded Adapters (P x M†)



STYLES P576 AND P596

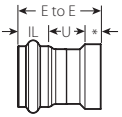
Size			Dimensions – inches/mm		
Nominal Size inches/mm			E to E	U Takeout	IL Insertion Length
½ 15	×	½ 15	3.93 99.8	2.32 58.9	1.06 26.9
¾ 20	×	½ 15	3.34 84.8	1.75 44.5	1.06 26.9
		¾ 20	3.85 97.8	2.22 56.4	1.06 26.9
		1 25	3.34 84.8	1.60 40.6	1.06 26.9
1 25	×	¾ 20	3.50 88.9	1.77 45.0	1.19 30.2
		1 25	4.19 106.4	2.32 58.9	1.19 30.2
1 ½ 40	×	¾ 20	3.65 92.7	1.73 43.9	1.38 35.1
		1 ½ 40	4.38 111.3	2.28 57.9	1.38 35.1
2 50	×	2 50	4.86 123.4	2.46 62.5	1.63 41.4

* Length of effective thread
† Available with British Standard Pipe Threads. Specify BSPT on order.

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

Styles P579 and P599 – Female Threaded Adapters (P x F†)

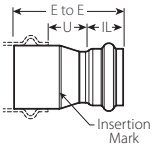


STYLES P579 AND P599

Size			Dimensions – inches/mm		
Nominal Size inches/mm			E to E	U Takeout	IL Insertion Length
½ 15	×	½ 15	2.39 60.7	0.79 20.1	1.06 26.9
¾ 20	×	½ 15	2.31 58.7	0.71 18.0	1.06 26.9
		¾ 20	2.31 58.7	0.79 20.1	1.06 26.9
1 25	×	½ 15	2.47 62.7	0.75 19.1	1.19 30.2
		¾ 20	2.47 62.7	0.73 18.5	1.19 30.2
		1 25	2.60 66.0	0.88 22.4	1.19 30.2
1 ½ 40	×	1 25	2.92 74.2	0.91 23.1	1.38 35.1
		1 ¼ 30	2.92 74.2	0.86 21.8	1.38 35.1
		1 ½ 40	2.92 74.2	0.86 21.8	1.38 35.1
2 50	×	1 ¼ 30	3.57 90.7	1.24 31.5	1.63 41.4
		1 ½ 40	3.57 90.7	1.24 31.5	1.63 41.4
		2 50	3.57 90.7	1.24 31.5	1.63 41.4

* Length of effective thread
† Available with British Standard Pipe Threads. Specify BSPT on order.

Styles P583 and P582 – Reducer Inserts (T x P)



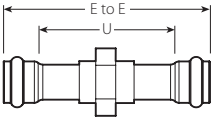
STYLES P583 AND P582

Size			Dimensions – inches/mm		
Nominal Size inches/mm			E to E	U Takeout	IL Insertion Length
1 25	×	¾ 20	3.23 82.0	0.98 24.9	1.06 26.9
2 50	×	1 ½ 40	4.11 104.4	1.10 27.9	1.38 35.1

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

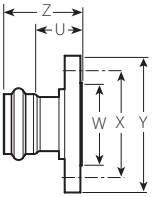
Styles P585 and P584 – Threaded Unions (P x P)



STYLES P585 AND P584

Size		Dimensions – inches/mm	
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	E to E	U Takeout
½ 15	0.840 21.3	7.50 190.5	5.37 136.4
¾ 20	1.050 26.7	7.37 187.2	5.24 133.1
1 25	1.315 33.7	7.59 192.8	5.21 132.3
1 ½ 40	1.900 48.3	8.36 212.3	5.61 142.5
2 50	2.375 60.3	8.01 203.5	4.76 120.9

Styles P575 and P595 – Flange Adapters (P x L)



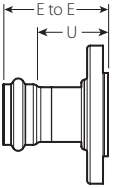
STYLES P575 AND P595

Size		Dimensions – inches/mm				
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	U Takeout	W	X	Y	Z
½ 15	0.840 21.3	2.39 60.7	1.38 35.0	2.38 60.5	3.50 88.9	3.46 87.9
¾ 20	1.050 26.7	2.27 57.7	1.69 42.9	2.75 69.9	3.88 98.6	3.34 84.8
1 25	1.315 33.7	2.27 57.7	2.00 50.8	3.12 79.3	4.25 108.0	3.46 87.9
1 ½ 40	1.900 48.3	2.06 52.3	2.88 73.2	3.88 98.6	5.00 127.0	3.45 87.6
2 50	2.375 60.3	1.79 45.5	3.62 92.0	4.75 120.7	6.00 152.4	3.42 86.9

⚠ Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

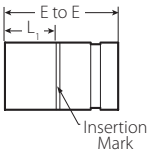
Styles P566 and P565 – Van Stone Flange Adapters (P x L)



STYLES P566 AND P565

Size		Dimensions – inches/mm	
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	E to E	U Takeout
½ 15	0.840 21.3	3.37 85.6	2.30 58.4
¾ 20	1.050 26.7	3.29 83.6	2.22 56.4
1 25	1.315 33.7	3.45 87.6	2.26 57.4
1 ½ 40	1.900 48.3	3.61 91.7	2.22 56.4
2 50	2.375 60.3	4.55 115.6	2.92 74.2

Styles P577 and P587 – Transition Nipples (G x T)



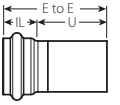
STYLES P577 AND P587

Size		Dimensions – inches/mm	
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	E to E	L_1 Minimum
¾ 20	1.050 26.7	4.00 101.6	1.06 26.9
1 25	1.315 33.7	4.00 101.6	1.19 30.2
1 ½ 40	1.900 48.3	4.00 101.6	1.38 35.1
2 50	2.375 60.3	4.00 101.6	1.63 41.4

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM FITTINGS

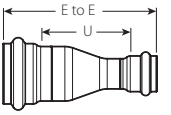
Style P561 – Weld Adapter (P x T)



STYLE P561

Size		Dimensions – inches/mm		
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	E to E	U Takeout	IL Insertion Length
½ 15	0.840 21.3	3.92 99.6	2.85 72.4	1.06 26.9
¾ 20	1.050 26.7	3.84 97.5	2.77 70.4	1.06 26.9
1 25	1.315 33.7	4.18 106.2	3.00 76.2	1.19 30.2
1 ½ 40	1.900 48.3	4.37 111.0	2.98 75.7	1.38 35.1
2 50	2.375 60.3	4.85 123.2	3.22 81.8	1.63 41.4

Styles P574 and P594 – Concentric Reducers (P x P)



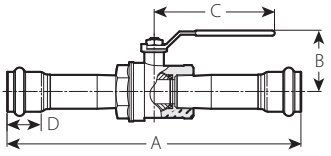
STYLES P574 AND P594

Size			Dimensions – inches/mm	
Nominal Size inches/mm			E to E	U Takeout
¾ 20	×	½ 15	4.25 108.0	2.13 54.1
1 25	×	½ 15	4.92 125.0	2.67 67.8
		¾ 20	4.84 122.9	2.59 65.8
1 ½ 40	×	½ 15	5.57 414.5	3.13 79.5
		¾ 20	5.49 139.4	3.06 77.7
		1 25	5.66 143.8	3.09 78.5
2 50	×	½ 15	6.52 168.5	3.84 97.5
		¾ 20	6.44 163.6	3.76 95.5
		1 25	6.60 167.6	3.79 96.3
		1 ½ 40	6.75 171.5	3.76 95.5

⚠ Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM BALL VALVES

Series P589 – Vic-Press Brass Body Ball Valve with Stainless Steel Vic-Press Schedule 10S Ends (P x P)



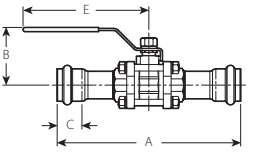
SERIES P589

Size		Dimensions – inches/mm			
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	A ± 0.125/ 3.18	B	C	D
½ 15	0.840 21.3	9.030 229.36	1.42 36.1	3.03 77.0	1.06 26.9
¾ 20	1.050 26.7	9.120 234.65	1.90 48.3	3.74 95.0	1.06 26.9
1 25	1.315 33.7	10.108 256.74	2.05 52.1	3.74 95.0	1.19 30.2
1 ½ 40	1.900 48.3	11.180 283.97	2.76 70.1	5.40 137.2	1.38 35.1
2 50	2.375 60.3	12.690 322.33	3.15 80.0	5.40 137.2	1.63 41.4

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

VIC-PRESS SCHEDULE 10S SYSTEM BALL VALVES

Series P569 – Vic-Press Schedule 10S, Type 316 Stainless Steel Ball Valve

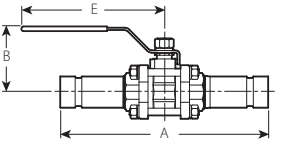


VIC-PRESS SCHEDULE 10S X VIC-PRESS SCHEDULE 10S (P X P)

Size		Dimensions – inches/mm			
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	A End to End	B	C	E
½ 15	0.840 21.3	8.26 209.8	2.17 55.1	1.06 26.9	5.24 133.1
¾ 20	1.050 26.7	8.36 212.3	2.32 58.9	1.06 26.9	5.24 133.1
1 25	1.315 33.7	8.77 222.8	2.76 70.1	1.19 30.2	6.02 152.9
1 ½ 40	1.900 48.3	9.76 247.9	3.31 84.1	1.38 35.1	7.52 191.0
2 50	2.375 60.3	9.83 249.7	3.62 91.9	1.63 41.4	7.52 191.0

For dimensions with gear operator, contact Victaulic.

Series P569 – Vic-Press Schedule 10S, Type 316 Stainless Steel Ball Valve



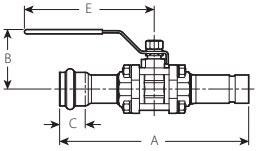
GROOVE X GROOVE (G X G)

Size		Dimensions – inches/mm		
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	A End to End	B	E
¾ 20	1.050 26.7	8.54 216.9	2.32 58.9	5.24 133.1
1 25	1.315 33.7	8.75 222.3	2.76 70.1	6.02 152.9
1 ½ 40	1.900 48.3	10.90 276.9	3.31 84.1	7.52 191.0
2 50	2.375 60.3	12.11 307.6	3.62 91.9	7.52 191.0

For dimensions with gear operator, contact Victaulic.

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

Series P569 – Vic-Press Schedule 10S, Type 316 Stainless Steel Ball Valve



VIC-PRESS SCHEDULE 10S X GROOVE (P X G)

Size		Dimensions – inches/mm			
Nominal Size inches/mm	Actual Pipe Outside Diameter inches/mm	A End to End	B	C	E
¾ 20	1.050 26.7	8.44 214.4	2.32 58.9	1.06 26.9	5.24 133.1
1 25	1.315 33.7	8.76 222.5	2.76 70.1	1.19 30.2	6.02 152.9
1 ½ 40	1.900 48.3	10.32 262.1	3.31 84.1	1.38 35.1	7.52 191.0
2 50	2.375 60.3	10.92 277.4	3.62 91.9	1.63 41.4	7.52 191.0

For dimensions with gear operator, contact Victaulic.

Always refer to the current Victaulic submittal publication in the G-100 General Catalog or on the website www.victaulic.com for the most up-to-date dimensional information.

Helpful Information

ENGLISH AND METRIC CONVERSION CHART

Convert US to Metric				Convert Metric to US		
25.4	X	inches (in)	=	millimeters (mm)	X	0.03937
0.3048	X	feet (ft)	=	meter (m)	X	3.281
0.4536	X	pounds (lbs)	=	kilograms (kg)	X	2.205
28.35	X	ounces (oz)	=	grams (g)	X	0.03527
6.894	X	pressure (psi)	=	kilopascals (kPa)	X	0.145
.069	X	pressure	=	Bar	X	14.5
4.45	X	end load (lbs)	=	Newtons (N)	X	0.2248
1.356	X	torque (ft-lbs)	=	Newton meters (N•m)	X	0.738
F – 32 ÷ 1.8		temperature (°F)	=	Celsius (°C)		C ÷ 17.78 X 1.8
745.7	X	horsepower (hp)	=	watts (W)	X	1.341 X 10^{-3}
3.785	X	gallons per minute (gpm)	=	liters per minute (l/m)	X	0.2642
3.7865	X	10^{-3} gallons per minute (gpm)	=	cubic meters per minute (m^3/m)	X	264.2

DECIMAL EQUIVALENTS OF FRACTIONS

Fraction in inches	Decimal Equivalent inches	Decimal Equivalent millimeters
1/64	0.016	0.397
1/32	0.031	0.794
3/64	0.047	1.191
1/16	0.063	1.588
5/64	0.781	1.984
3/32	0.094	2.381
7/64	0.109	2.778
1/8	0.125	3.175
9/64	0.141	3.572
5/32	0.156	3.969
11/64	0.172	4.366
3/16	0.188	4.763
13/64	0.203	5.159
7/32	0.219	5.556
15/64	0.234	5.953
1/4	0.250	6.350
17/64	0.266	6.747
9/32	0.281	7.144
19/64	0.297	7.541
5/16	0.313	7.938
21/64	0.328	8.334
1/3	0.333	8.467
11/32	0.344	8.731
23/64	0.359	9.128
3/8	0.375	9.525
25/64	0.391	9.922
13/32	0.406	10.319
27/64	0.422	10.716
7/16	0.438	11.113
29/64	0.453	11.509
15/32	0.469	11.906
1/2	0.500	12.700

Fraction in inches	Decimal Equivalent inches	Decimal Equivalent millimeters
33/64	0.516	13.097
17/32	0.531	13.494
35/64	0.547	13.891
9/16	0.563	14.288
37/64	0.578	14.684
19/32	0.594	15.081
39/64	0.609	15.478
5/8	0.625	15.875
41/64	0.641	16.272
21/32	0.656	16.669
43/64	0.672	17.066
11/16	0.688	17.463
45/64	0.703	17.859
23/32	0.719	18.256
47/64	0.734	18.653
3/4	0.750	19.050
49/64	0.766	19.447
25/32	0.781	19.844
51/64	0.797	20.241
13/16	0.813	20.638
53/64	0.828	21.034
27/32	0.844	21.431
55/64	0.859	21.828
7/8	0.875	22.225
57/64	0.891	22.622
29/32	0.906	23.019
59/64	0.922	23.416
15/16	0.938	23.813
61/64	0.953	24.209
31/32	0.969	24.606
63/64	0.984	25.003
1	1.000	25.400

MINUTES CONVERTED TO DECIMALS OF A DEGREE

Min.	Deg.
1	.0166
2	.0333
3	.0500
4	.0666
5	.0833
6	.1000
7	.1166
8	.1333
9	.1500
10	.1666
11	.1833
12	.2000
13	.2166
14	.2333
15	.2500

Min.	Deg.
16	.2666
17	.2833
18	.3000
19	.3166
20	.3333
21	.3500
22	.3666
23	.3833
24	.4000
25	.4166
31	.5166
32	.5333
33	.5500
34	.5666
35	.5833

Min.	Deg.
26	.4333
27	.4500
28	.4666
29	.4833
30	.5000
41	.6833
42	.7000
43	.7166
44	.7333
45	.7500
46	.7666
47	.7833
48	.8000
49	.8166
50	.8333

Min.	Deg.
36	.6000
37	.6166
38	.6333
39	.6500
40	.6666
51	.8500
52	.8666
53	.8833
54	.9000
55	.9166
56	.9333
57	.9500
58	.9666
59	.9833
60	1.0000

WATER PRESSURE TO FEET-OF-HEAD

Pounds Per Square Inch	Feet of 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

Pounds Per Square Inch	Feet of Head
100	230.90
110	253.93
120	277.07
130	300.16
140	323.25
150	346.34
160	369.43
170	392.52
180	415.61
200	461.78
250	577.24
300	692.69
350	808.13
400	922.58
500	1154.48
600	1385.39
700	1616.30
800	1847.20
900	2078.10
1000	2309.00

FEET-OF-HEAD OF WATER TO PRESSURE

Feet of Head	Pounds Per Square Inch
1	0.43
2	0.87
3	1.30
4	1.73
5	2.17
6	2.60
7	3.03
8	3.46
9	3.90
10	4.33
15	6.50
20	8.66
25	10.83
30	12.99
40	17.32
50	21.65
60	25.99
70	30.32
80	34.65
90	39.98

Feet of Head	Pounds Per Square Inch
100	43.31
110	47.64
120	51.97
130	56.30
140	60.63
150	64.96
160	69.29
170	76.63
180	77.96
200	86.62
250	108.27
300	129.93
350	151.58
400	173.24
500	216.55
600	259.85
700	303.16
800	346.47
900	389.78
1000	433.00

WHERE TO FIND INSTALLATION INSTRUCTIONS FOR ADDITIONAL PRODUCTS

The following table provides a listing of products and installation information. If you need additional copies of any installation information, contact Victaulic at 1-800-PICK VIC.
NOTE: If two sources of instructions are referenced in this index, Victaulic recommends the use of both to ensure proper product installation.

Product	Where to Find Instructions
Aquamine® Spline Couplings	I-Aquamine
Depend-O-Lok Type Couplings	Instructions Shipped with Coupling
FireLock® Automatic Sprinkler Products	I-40
FireLock Fire Protection Valves and Accessories	Manual Shipped with Valve or Accessory
PermaLynx™ Permanent Push-to-Connect System Products	I-PermaLynx and I-600
Pipe Preparation Tools	Manual Shipped with Tool
Pressfit® System Products	I-500
VicFlex™ Products	Instructions Shipped with Product
Vic-Press Schedule 10S System Products	I-P500
Series 247 FireLock Residential Zone Control Riser Module Assembly	I-247
Series 317 AWWA Check Valve	I-317
Series 365 AWWA Vic-Plug® Valve (3 – 12-inch/88.9 – 323.9-mm Sizes)	I-365/366/377.3-12
Series 377 Vic-Plug Balancing Valve	I-365/366/377.3-12
Series 608 Copper Connection Butterfly Valve	I-600
Series 700 Butterfly Valve	Manual Shipped with Valve and I-100
Series 702 Butterfly Valve	I-702.GO
Series 705 FireLock Butterfly Valve	I-765/705
Series 707C Supervised Closed Butterfly Valve	I-766/707C
Series 712/712S Swinger® Check Valve	I-100
Series 713 Swinger Check Valve	I-100
Series W715 AGS Dual-Disc Vic-Check Valve	I-100
Series 716H/716 Vic-Check® Valve	I-100
Series 717H/717 Check Valve	I-100
Series 717HR/717R Check Valve	I-100
Series 722 Brass Body Ball Valve	I-100
Series 723/723S Diverter Ball Valve	I-100
Series 726/726S Vic-Ball® Valve	I-100
Series 728 FireLock Ball Valve	I-728
Series 730 Vic-Strainer® Tee Type	I-730/732/AGS
Series W730 AGS Vic-Strainer Tee Type	I-730/732/AGS

Product	Where to Find Instructions
Series 731-D Suction Diffuser	I-731D
Series 731-I Suction Diffuser (Europe Only)	I-731I/W731I
Series W731-I AGS Suction Diffuser (Europe Only)	I-731I/W731I
Series 732 Vic-Strainer Wye Type	I-730/732/AGS
Series W732 AGS Vic-Strainer Wye Type	I-730/732/AGS
Series 747M FireLock Zone Control Riser Module Assembly	I-747M
Series 761 Vic-300 MasterSeal® Butterfly Valve	I-VIC300MS and I-100
Series W761 AGS Vic-300 Butterfly Valve	I-AGS.GO and I-100
Series 763 Butterfly Valve	I-100
Series 765 FireLock Butterfly Valve	I-765/705
Series 766 Butterfly Valve with Supervised-Closed Switches	I-766/707C
Series 779 Venturi Check Valve	I-100
Series 782/783 TA Bypass	Instructions Shipped with Valve
Series 785 TA TBVS Sweated-End Mini Circuit Balancing Valve	Instructions Shipped with Valve
Series 786 TA STAS Soldered-End Circuit Balancing Valve	Instructions Shipped with Valve
Series 787 TA STAD NPT Female Threaded Circuit Balancing Valve	Instructions Shipped with Valve
Series 788 TA STAF Flanged-End Circuit Balancing Valve	Instructions Shipped with Valve
Series 789 TA STAG Grooved-End Circuit Balancing Valve	Instructions Shipped with Valve
Style 005 FireLock Rigid Coupling	I-100
Style 009H/009/009V FireLock EZ™ Rigid Coupling	I-009H/009/009V and I-100
Style 07 Zero-Flex® Rigid Coupling (1 – 12-inch/33.7 – 323.9-mm Sizes)	I-100
Style 07 Zero-Flex Rigid Coupling (14 – 24-inch/355.6 – 610-mm Sizes)	IT-07 and I-100
Style W07 AGS Rigid Coupling	I-W07/W77 and I-100
Style 22 Coupling for Vic-Ring Adapters and Shouldered-End Pipe	I-6000
Style 31 Coupling for AWWA Ductile Iron	I-300
Style 31 Coupling for Vic-Ring Adapters and Shouldered-End Pipe	I-6000
Style 41 Coupling for Vic-Ring Adapters and Shouldered-End Pipe	I-6000
Style 44 Coupling for Vic-Ring Adapters and Shouldered-End Pipe	I-6000
Style 72 Outlet Coupling	I-100
Style 75 Flexible Coupling	I-100

Product	Where to Find Instructions
Style 77/77A/77S Flexible Coupling	I-100
Style 77DX Flexible Stainless Steel Coupling for Duplex and Super Duplex Pipe	I-100
Style W77 AGS Flexible Coupling	I-W07/W77 and I-100
Style 78/78A Snap-Joint® Coupling	I-100
Style 89 Rigid Coupling for Stainless Steel	IT-89 and I-100
Style W89 AGS Rigid Coupling for Stainless Steel	I-W89
Style 99 Roust-A-Bout Coupling for Plain-End Steel	IT-99 and I-100
Style 107H/107 QuickVic® Rigid Coupling for Steel Pipe	I-107H/107 and I-100
Style 150 Mover® Expansion Joint	Submittal 09.06
Style 155 Expansion Joint	Submittal 09.06
Style W155 AGS Expansion Joint	Submittal 09.06
Style 177 QuickVic Flexible Coupling for Steel Pipe	I-177 and I-100
Style 307 Coupling for Grooved NPS Steel to Grooved AWWA Ductile Iron	I-300
Style 341 Vic-Flange Adapter for AWWA Ductile Iron	I-300
Style 441 Vic-Flange for Stainless Steel	I-441 and I-100
Style 475 Lightweight, Flexible Stainless Steel Coupling	I-100
Style 475DX Flexible Stainless Steel Coupling for Duplex and Super Duplex Pipe	I-100
Style 489 Rigid Coupling for Stainless Steel (1½ – 4-inch/48.3 – 114.3-mm Sizes)	IT-489.2-4 and I-100
Style 489 Rigid Coupling for Stainless Steel (6 – 12-inch and 139.7 – 318.5-mm Metric and JIS Sizes)	IT-489 and I-100
Style 489DX Stainless Steel Coupling for Duplex and Super Duplex Pipe	I-100
Style 606 Rigid Coupling for Copper Tubing	I-600
Style 607 QuickVic® Rigid Coupling for Copper Tubing	I-607 and I-600
Style 622 Mechanical-T® Bolted Branch Outlet for Copper Tubing	I-622 and I-600
Style 641 Vic-Flange Adapter for Copper Tubing	I-600
Style 707-IJ Transition Coupling for NPS to JIS	I-100
Style 720 TestMaster™ II Alarm Test Module	I-720
Style 720 TestMaster II Alarm Test Module with Pressure Relief Option	I-720PR

Product	Where to Find Instructions
Style 735 Fire Pump Test Meter	I-100
Style 738 TA Portable Differential Meter	Instructions Shipped with Meter
Style 739 Portable Master Meter	Instructions Shipped with Meter
Style 740 TA CBI Meter	Instructions Shipped with Meter
Style 741 NPS and Metric Vic-Flange Adapter	I-100
Style W741 AGS Vic-Flange Adapter	IT-W741 and I-100
Style 743 Vic-Flange Adapter	I-100
Style 744 FireLock Flange Adapter	I-100
Style 750 Reducing Coupling	I-100
Style 770 Large-Diameter Coupling	IT-770 and I-100
Style 791 Vic-Boltless® Coupling	I-100
Style 808 Duo-Lock Coupling	I-808
Style 912 FireLock Low-Profile Sprinkler-Tee (Europe Only)	I-912 and I-100
Style 920 and 920N Mechanical-T Outlets	I-920/920N and I-100
Style 922 FireLock Outlet-T	I-922 and I-100
Style 923 Vic-Let Strapless Outlet	I-923 and I-100
Style 924 Vic-O-Well Strapless Thermometer Outlet	I-100
Style 926 Mechanical-T Spigot Assembly	I-926 and I-100
Style 931 Vic-Tap II Mechanical-T	VT-II
Style 994 Vic-Flange Adapter for HDPE	IT-994 and I-900
Style 995 Coupling for Plain-End NPS and Metric HDPE	IT-995 and I-900
Style 997 Transition Coupling for HDPE to Steel	IT-997 and I-900
Style 2970 Aquamine Coupling for Plain-end NPS PVC	IT-2970
Style 2971 Aquamine Transition Coupling for Plain-End NPS PVC to Plain-End HDPE	IT-2971
Style 2972 Aquamine Transition Coupling for Plain-End NPS PVC to Grooved NPS Steel	IT-2972
Style HP-70 Rigid Coupling (2 – 12-inch/60.3 – 323.9-mm Sizes)	I-100
Style HP-70 Rigid Coupling (14 – 16-inch/355.6 – 406.4-mm Sizes)	IT-70 and I-100
Style HP-70ES Rigid Coupling with EndSeal® Gasket (2 – 12-inch/60.3 – 323.9-mm Sizes)	I-100

VICTAULIC GLOBAL CONTACT INFORMATION

US & WORLD HEADQUARTERS

P.O. Box 31
Easton, PA 18044-0031 USA

4901 Kesslersville Road
Easton, PA 18040 USA

1-800-PICK-VIC
(+1-800-742-5842)
(within North America)
+1-610-559-3300
+1-610-250-8817 (fax)
pickvic@victaulic.com

CANADA

123 Newkirk Road
Richmond Hill, ON L4C 3G5
+1-905-884-7444
+1-905-884-9774 (fax)
viccanada@victaulic.com

CENTRAL AND SOUTH AMERICA

P.O. Box 31
Easton, PA 18044-0031 USA

4901 Kesslersville Road
Easton, PA 18040 USA

+1-610-559-3300
+1-610-559-3608 (fax)
vical@victaulic.com

UNITED KINGDOM

Units B1 & B2, SG1 Industrial Park
Cockerell Close
Gunnels Wood Road
Stevenage
Hertfordshire SG1 2NB (UK)

+44-(0)-1438-310-690
+44-(0)-1438-310-699 (fax)
0124-60219 (direct to Ireland
within the UK)
viceuro@victaulic.be

EUROPE

Prijkelstraat 36
9810 Nazareth, Belgium

+32-9-381-15-00
+32-9-380-44-38 (fax)
viceuro@victaulic.be

MIDDLE EAST

P.O. Box 17683
Unit XB 8
Jebel Ali Free Zone
Dubai
United Arab Emirates

+971-4-883-88-70
+971-4-883-88-60 (fax)

ASIA

Unit 06-10, Floor 3A
A Mansion 291 Fumin Road
Shanghai, China 200031

+86-21-6170-1222
+86-21-6170-1221 (fax)
vicap@victaulic.com

AUSTRALIA AND NEW ZEALAND

7 Chambers Road
Unit 1
Altona North, Victoria
Australia 3025

1-300-PIC-VIC
(+1-300-742-842)
+61-3-9392-4000
+61-3-9392-4096 (fax)
vicaust@victaulic.com

INDIA PRIV. LTD.

Indialand Global Industrial Park
Plot 4, Hinjewadi, Phase I, Mulshi
Pune 411057 (India)

+91-20-67-919-300
+91-20-67-919-361 (fax)
viceuro@victaulic.be

www.victaulic.com

UPDATED 09/2012
I-P500 6236 REV. D Z00P500PHB