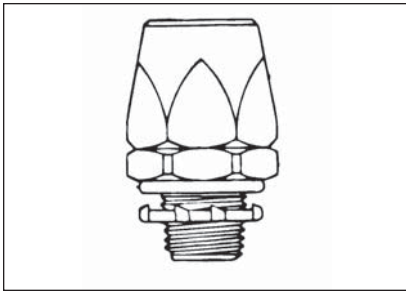


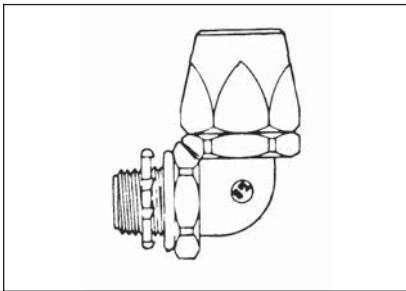
T&B Conduit Fittings

Liquidtight Flexible Nonmetallic Conduit Fittings

Specifications—Type A Conduit Fittings



Series 6302
Liquidtight Flexible Nonmetallic
Conduit Fittings



Series 6322
Liquidtight Flexible Nonmetallic
Conduit Fittings

Application

- To provide a liquidtight, dusttight connection between flexible, nonmetallic conduit and a box or an enclosure.

Features

- Serrated design provides high mechanical pullout strength (A).
- Unique component parts (body/gland) design insures positive seal between conduit and fitting (B).
- Tapered thread hub and sealing 'O' ring provide a liquidtight/dust tight seal to a box or an enclosure (C).
- High strength, chemical resistant, nonburning, nondripping thermoplastic construction.
- Smooth insulated body throughout for maximum dielectric strength.
- Captive 'O' ring and reduced number of parts save installation time (D).

Standard Material

Body	Thermoplastic
Gland	Thermoplastic
'O' Ring	Neoprene
Locknut	Steel (Case Hardened)

Standard Finish

Body, Gland & 'O' Ring	As Molded
Locknut	Electro Zinc

Range

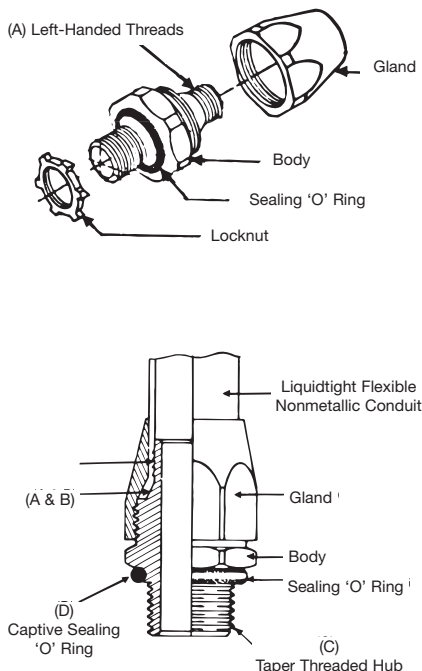
- Conduit Size 1/2" thru 1-1/4"
- Hub Size 1/2" thru 1-1/4" N.P.T.

Suggested Specifications for Type A Conduit and Fittings

- Type A Liquidtight Flexible Nonmetallic Conduit shall be seamless type adequately reinforced with one or more layers of flexible braided reinforcing cords. Conduit jacket shall be of non-kinking oil resistant/water resistant flame retardant material suitable for ambient environmental conditions.
- Where Type A Flexible Nonmetallic Conduit terminates into a threaded or threadless opening, the conduit shall be cut square, deburred, installed with sufficient slack to reduce effects of vibration and assembled with approved fittings such as series 6302 or 3720 manufactured by

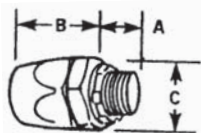
Thomas & Betts. Fittings shall be of malleable iron/steel/thermoplastic construction with taper-threaded hub and:

- (1) Ferrous metallic fittings shall be electro-zinc plated inside outside and equipped with a nylon insulated throat.
- (2) Thermoplastic fittings shall be of high impact chemical resistant, nonburning, nondripping thermoplastic.
- (3) Fittings shall be provided with a captive, moisture resistant/oil resistant synthetic rubber gasket.

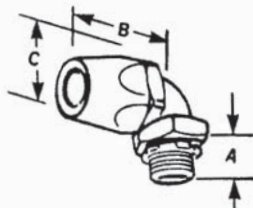


T&B Conduit Fittings

Liquidtight Flexible Nonmetallic Conduit Fittings



Straight Fitting

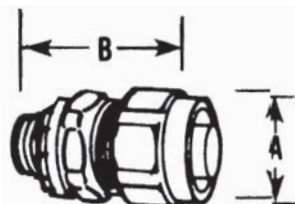


90° Angle Fitting

Designed especially for the Type A, all-plastic raceways now in use for dynamic machine tool applications.

Fittings are constructed of a high-strength, chemically resistant thermoplastic tougher than the raceway itself.

Neoprene sealing ring is furnished with fitting providing a liquidtight seal for knockout applications.



- Nylon insulated throat.
- T&B Sealing Ring to seal knockouts.
- Steel or malleable iron.
- U.L. Listed.
- NPT hub threads to seal in female threads.
- High mechanical pull-out strength.
- Provides positive seal against water, oil and dust.

Thermoplastic Fittings for Liquidtight Flexible Nonmetallic Conduit Type A



Cat. No.	Conduit Size	Dimensions (in.)		
		A	B	C Cross Corners
Straight Fitting				
6302	1/2"	.60	1.68	1.48
6303	3/4"	.61	1.85	1.76
6304	1"	.77	1.89	2.10
6305	1-1/4"	.79	2.30	2.67
90° Angle Fitting				
6322	1/2"	.60	1.56	1.48
6323	3/4"	.61	1.74	1.76
6324	1"	.77	1.78	2.10
6325	1-1/4"	.79	2.13	2.67

Corrosion Resistant Applications

Meets Coast Guard CG293

*Use with our LNM-P Conduit on p. 146

Liquidtight Flexible Nonmetallic Conduit Type A



Cat. No.	Conduit Size	Hub Thread	Dimensions (in.)	
			A	B
3720-TB*	3/8	1/2-14 NPT	1-5/32	2
3721-TB	1/2	1/2-14 NPT	1-3/8	2-1/8
3722-TB	3/4	3/4-14 NPT	1-5/8	2-1/4
3723	1	1-11-1/2 NPT	1-7/8	2-1/2
3724-TB	1-1/4	1-1/4-11-1/2 NPT	2-3/8	2
3725	1-1/2	1-1/2-11-1/2 NPT	2-3/4	3-3/8
3726	2	2-11-1/2 NPT	3-17/32	3-5/8

* Not U.L. Listed

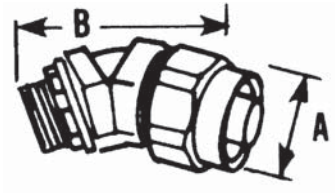
For Dura-Plate™ Finish, add prefix 040- to Cat. No. Consult Customer Service for details.

T&B Conduit Fittings

Liquidtight Flexible Metal Conduit Fittings



45° Metallic Fittings



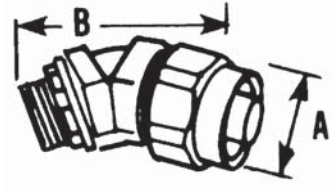
Cat. No.	Conduit Size	Hub Thread	Dimensions (in.)	
			A	B
3730-TB*	3/8	1/2—14 NPT	1-5/32	2-13/32
3731-TB	1/2	1/2—14 NPT	1-3/8	2-9/16
3732	3/4	3/4—14 NPT	1-5/8	3
3733-TB	1	1—11-1/2 NPT	1-7/8	3-1/2
3734-TB	1-1/4	1-1/4—11-1/2 NPT	2-3/8	4-1/8
3735-TB	1-1/2	1-1/2—11-1/2 NPT	2-3/4	4-7/8
3736	2	2—11-1/2 NPT	3-17/32	5-1/2

* Not U.L. Listed

Available with Dura-Plate™ Finish. Consult Customer Service for details.



90° Metallic Fittings



Cat. No.	Conduit Size	Hub Thread	Dimensions (in.)	
			A	B
3740*	3/8	1/2—14 NPT	1-5/32	1-5/8
3741	1/2	1/2—14 NPT	1-3/8	1-3/4
3742	3/4	3/4—14 NPT	1-5/8	2-1/4
3743-TB	1	1—11-1/2 NPT	1-7/8	2-9/16
3744-TB	1-1/4	1-1/4—11-1/2 NPT	2-3/8	3-1/4
3745	1-1/2	1-1/2—11-1/2 NPT	2-3/4	3-1/2
3746-TB	2	2—11-1/2 NPT	2-17/32	4-1/8

* Not U.L. Listed

Available with Dura-Plate™ Finish. Consult Customer Service for details..



NEMA 3R, 4, 6 & 13

Temperature range — -30°C to 105°C.

Liquidtight K.O. Plugs

Cat. No.	Size	Dimensions (in.)
		A
5710	1/2"	1-9/32"
5711	3/4"	1-1/2"
5712	1"	1-27/32"
5713	1-1/4"	27/32"
5714	1-1/2"	2-1/2"
5715	2"	3-3/32"
5716	2-1/2"	3-21/32"
5717	3"	4-19/64"
5718	4"	5-19/64"

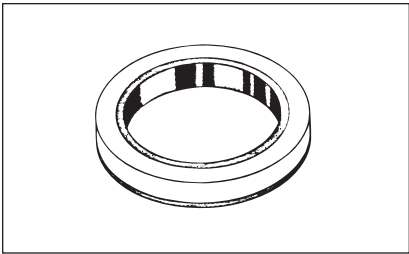
U.L. Listed liquidtight

CSA not applicable

Meets Coast Guard Regulation CG293

T&B Conduit Fittings

Liquidtight Flexible Metal Conduit Fittings



5262 Series

Specifications — Liquidtight Sealing Gaskets

Application

- When used with an externally threaded fitting provides a tight seal against oil, fumes or moisture at the knockout opening.

Standard Material

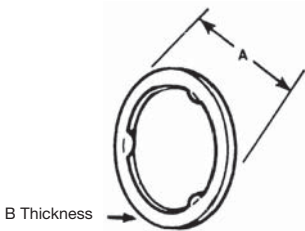
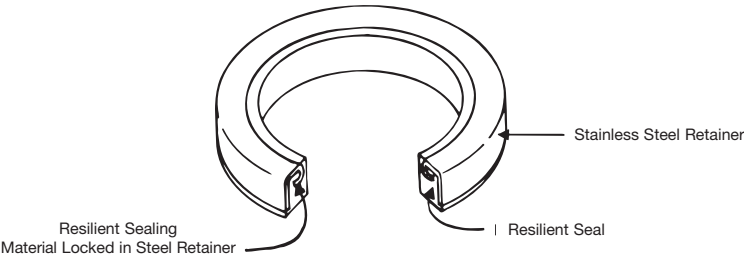
Retainer	Stainless Steel
Sealing Material	Buna N

Range

- 1/2" thru 4" Hub Size

Features

- Locks resilient sealing material in steel.
- Steel retainer protects seal from extruding out under torque and limits compression to an optimum predetermined value; provides high quality seal.
- Resilient material flows and seals rough surfaces.



NEMA 3R, 4, 6 & 13

For use with T&B Fittings. Sealing material resists oil, coolants, and hydraulic fluids as well as water.

Sealing Ring with Stainless Steel Retainer



Cat. No.	Conduit Size	Dimensions (in.)	
		A	B
5299**	1/4"	.80	.11
5261**	3/8"	.95	.11
5262	1/2"	1.16	.18
5263	3/4"	1.49	.19
5264	1"	1.75	.19
5265	1-1/4"	2.15	.22
5266	1-1/2"	2.42	.23
5267	2"	2.92	.23
5268	2-1/2"	3.44	.23
5269	3"	4.08	.23
5270	4"	5.29	.31

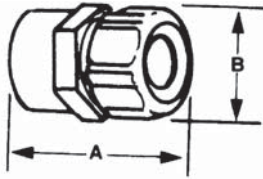
** U.L. not applicable

T&B Conduit Fittings

Liquidtight Flexible Metal Conduit Fittings



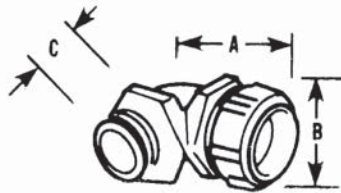
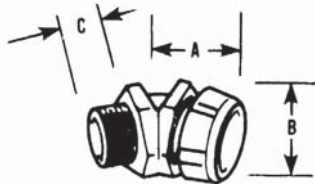
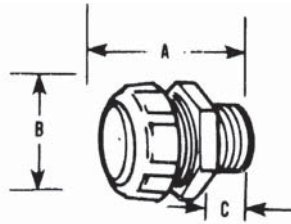
Liquidtight Flexible Metal/MS Fittings



T&B Liquidtight flexible metal and Liquidtight flexible nonmetallic fittings with internal threads to accept AN-MS fitting shells.

Material: Steel

Cat. No.	Trade Size	AN-MS Conn. Shell Size	Internal Thread Thread Size	Dimensions (in.)	
				A	B
LTA03810	3/8	10SL, 12, 12S	5/8—24 UNEF-2B	1-5/32	1
LTA03814	3/8	14, 14S	3/4—20 UNEF-2B	1-5/32	1
LTA05014	1/2	14, 14S	3/4—20 UNEF-2B	1-5/16	1-1/4
LTA05016	1/2	16, 16S	7/8—20 UNEF-2B	1-5/16	1-1/4
LTA05018	1/2	18	1—20 UNEF-2B	1-5/16	1-1/4
LTA07516	3/4	16, 16S	7/8—20 UNEF-2B	1-7/16	1-1/2
LTA07518	3/4	18	1—20 UNEF-2B	1-7/16	1-1/2
LTA07520	3/4	20, 22	1-3/16—18 UNEF-2B	1-7/16	1-1/2
LTA10020	1	20, 22	1-3/16—18 UNEF-2B	1-3/4	1-23/32
LTA10024	1	25, 28	1-7/16—18 UNEF-2B	1-3/4	1-23/32



Fittings for Liquidtight flexible metal conduit with metric threads of PG Form (DIN 40430).

PG Metric Thread Liquidtight Fittings*



	Flexible Conduit Size	Metric PG Thread	Dimensions (mm)		
Cat. No.			A	B	C
Nylon insulated straight fittings					
7330**	1/4"	9	36	21	12
7360**	5/16"	9	36	26	12
7361*	3/8"	11	40	29	14
7362*	3/8"	13.5	40	29	14
7363*	1/2"	16	41	35	14
7364*	3/4"	21	43	42	14
7365	1"	29	56	47	19
7366	1-1/4"	36	67	58	21
7367	1-1/2"	42	72	69	21
7368	2"	48	81	83	21
Nylon insulated 45° angle fittings					
7341	3/8"	11	27	29	14
7342	3/8"	13.5	27	29	14
7343	1/2"	16	30	35	14
7344-TB	3/4"	21	34	42	14
7345	1"	29	44	47	19
7346	1-1/4"	36	51	58	19
7347	1-1/2"	42	60	69	21
7348-TB	2"	48	73	76	24
Nylon insulated 90° angle fittings					
7351	3/8"	11	37	29	14
7352	3/8"	13.5	37	29	14
7353	1/2"	16	40	35	14
7354	3/4"	21	44	42	14
7355	1"	29	56	47	21
7356	1-1/4"	36	70	58	21
7357	1-1/2"	42	75	69	21
7358	2"	48	87	83	24

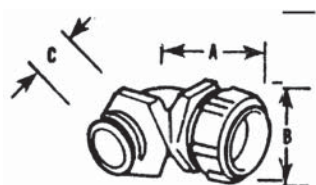
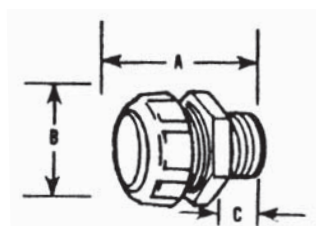
U.L. Listed liquidtight.

*CSA Certified dusttight and watertight.

**U.L. not applicable and not CSA Certified.

T&B Conduit Fittings

Liquidtight Flexible Metal Conduit Fittings



Fittings for Liquidtight flexible metal conduit with metric threads of ISO Form (BS-4568-SA BS 162).

ISO Metric Thread Liquidtight Fittings*

Cat. No.	Flexible Conduit Size	Metric ISO Thread	Dimensions (mm)		
			A	B	C
Nylon insulated straight fittings					
9330	1/4"	16	36	21	12
9331	1/4"	20	36	21	12
9306	5/16"	16	36	26	12
9360	3/8"	16	40	29	16
9361	3/8"	20	40	29	16
9362	1/2"	20	42	35	16
9363	3/4"	25	45	42	16
9364	1"	32	54	47	23
Nylon insulated 45° angle fittings					
9340	3/8"	16	27	29	16
9341	3/8"	20	27	29	16
9342	1/2"	20	27	35	16
9343TB	3/4"	25	31	42	16
9344	1"	32	34	47	23
Nylon insulated 90° angle fittings					
9350	3/8"	16	35	29	16
9351	3/8"	20	35	29	16
9352TB	1/2"	20	39	35	16
9353TB	3/4"	25	43	42	16
9354TB	1"	32	48	47	23

U.L. Listed Liquidtight.



NPT/MS Fitting Adaptors

Cat. No.	N.P.T. Thread	AN-MS Fitting Shell Size	Thread Size	Dimensions (in.)		
				A	Fig.	B
MSA05014	1/2"	14, 14S	3/4—20 UNEF-2B	1.000	1	1.175
MSA05016	1/2"	16, 16S	7/8—20 UNEF-2B	1.000	2	1.175
MSA05018	1/2"	18	1—20 UNEF-2B	1.125	3	1.175
MSA07516	3/4"	16, 16S	7/8—20 UNEF-2B	1.250	1	1.356
MSA07518	3/4"	18	1—20 UNEF-2B	1.250	1	1.300
MSA07520	3/4"	20, 22	1-3/16—18 UNEF-2B	1.375	3	1.300
MSA10020	1	20, 22	1-3/16—18 UNEF-2B	1.500	1	1.431
MSA10024	1	24, 28	1-7/16—18 UNEF-2B	1.625	3	1.313
MSA10032	1	32	1-3/4—18 UNS-2B	2.000	3	1.576
MSA10036	1	36	2—18 UNS-2B	2.250	3	1.738

Not CSA Certified.

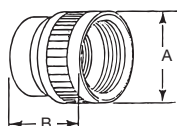


Fig. 1

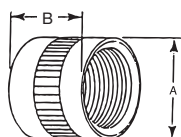


Fig. 2

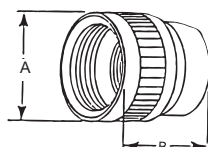


Fig. 3

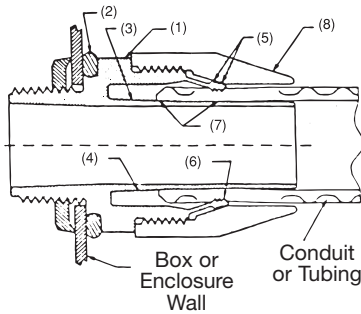
Mechanical adapter with internal threads to mate with NPT threaded fittings and MS type fittings.

Material: aluminum

T&B Conduit Fittings

Liquidtight Flexible Nonmetallic Conduit Fittings

Specification Sheet—Bullet® Liquidtight Fittings for Liquidtight Flexible Nonmetallic Conduit and Tubing



Application:

A series of nonmetallic fittings designed to provide a liquidtight seal when terminating liquidtight nonmetallic conduit (U.L. Type B) or liquidtight nonmetallic tubing to a box or enclosure with knockout opening or a threaded hub.

Plastic Bullet® Liquidtight Fittings Feature:

- Fitting assembles to conduit without disassembly and is designed to be installed with positive installation criteria (gland bottoms on body shoulder).
- Rugged low profile nonmetallic body and gland construction (1); the fitting is equipped with a steel locknut to firmly secure fitting to box or an enclosure and a sealing "O" ring.
- Captive sealing "O" ring (2) with predetermined compression for a reliable seal at enclosure.
- Fitting ferrule designed to accept variations in conduit inside diameter and is tolerant of field conduit cuts (3).
- Ferrule profile designed to reduce friction between conduit I.D. and ferrule (4) allowing conduit to seat properly for an effective seal.
- Outer surface of clamping fingers provided with friction reducing ridges (5) for ease of installation; the inner surface is designed with conduit biting teeth to enhance clamping and sealing action (6).
- Performance of fittings tested to simulate adverse installation conditions.
- Provides a double sealing action (7).
- Elongated gland nut profile (8) designed to provide additional strain relief for 90° pull and an easy hand grip.

- Performance of fitting unaffected by exposure to detergents, cleaners, and sanitizers commonly encountered in food processing plants and typical industrial environment; also unaffected by cutting fluids, wiring pulling compounds and Marine environment.

- Meets industry standards for cold impact and simulated hammer blow.

Standard Material/Finish:

- Body Gland—weather stabilized thermoplastic (black).
- "O" Ring—nitrile (blue)
- Locknut—Steel/electro-zinc plated
- Material temperature rating—thermoplastic -40°C to 105°C.

Material Flammability Rating:

U.L.94-V2.

Conformity

- CSA C22.2 #227.2 & CSA C22.2 #227.3
- U.L.514B
- Watertight requirements of NEMA Type 4 and Type 4X.
- Federal Standard H-28 (NPT threads)
- There is no CEC Rule to use Nonmetallic liquidtight conduit and fittings in Class I, Zone 2 or Class I, Division 2;
Rule 18-202 (4) (b) Class II, Division 1;
Rule 18-252 (4) Class II, Division 2; Rule 18-302 (4) Class III, Division 1.

T&B Conduit Fittings

Liquidtight Flexible Nonmetallic Conduit Fittings

Plastic Bullet® Liquidtight Fittings for T&B NMC Nonmetallic Liquidtight Conduit Type B and T&B NMT Flexible Tubing



Cat. No.	Fig.	Trade Size	A ±.015 (.040) in. (mm)	*B ±.035 (0.90) in. (mm)	C ±.015 (0.40) Across Corners in. (mm)	Min. Throat Dia. D in. (mm)	E Thread NPT	F* (in.) (mm) Approx.
LT38P	1	3/8	.570	1.595 (40.51)	1.354	.417	1/2-14	—
LT438P	2		(14.48)	2.012 (51.10)	(34.39)	(10.59)		1.534 (38.95)
LT938P	3			1.380 (35.05)				1.880 (47.75)
LT50P	1	1/2	.570	1.636 (41.55)	1.448	.550	1/2-14	—
LT450P	2		(14.48)	2.092 (53.14)	(36.78)	(13.97)		1.590 (40.39)
LT950P	3			1.489 (37.82)				1.986 (50.44)
LT75P	1	3/4	.582	1.757 (44.63)	1.740	.740	3/4-14	—
LT475P	2		(14.78)	2.452 (62.28)	(44.20)	(18.80)		1.821 (46.25)
LT975P	3			1.790 (45.47)				2.212 (56.00)
LT100P	1	1	.726	1.923 (48.84)	2.068	.940	1-11-1/2	—
LT4100P	2		(18.44)	2.684 (68.17)	(52.53)	(23.88)		2.034 (51.66)
LT9100P	3			2.104 (53.44)				2.508 (63.70)
LT125P	1	1-1/4	.750	2.164 (54.97)	2.494	1.257	1-1/4-11-1/2	—
LT4125P	2		(19.05)	3.264 (82.91)	(63.35)	(31.93)		2.385 (60.58)
LT9125P	3			2.564 (65.13)				2.856 (72.54)
LT150P	1	1-1/2	.767	3.353 (85.77)	2.784	1.453	1-1/2-11-1/2	—
LT4150P	2		(19.48)	3.605 (91.57)	(70.71)	(36.91)		2.604 (66.14)
LT9150P	3			2.854 (72.49)				3.144 (79.86)
LT200P	1	2	.794	2.605 (66.17)	3.362	1.883	2-8	—
LT4200P	2		(20.17)	4.210 (106.93)	(85.39)	(47.83)		3.050 (77.47)
LT9200P	3			3.432 (87.17)				3.675 (93.34)

* After Assembly

Suggested Specification:

Where liquidtight flexible nonmetallic conduit (U.L. and CSA Type B) or liquidtight flexible nonmetallic tubing is terminated to a box or enclosure, the nonmetallic fittings used shall be able to be installed without disassembly and provide a positive installation criteria. In

the installed condition, the fitting must provide a seal meeting watertight requirements of NEMA Type 4 and Type 4X. The performance of fittings shall be unaffected by exposure to detergents, sanitizers, cutting fluids, wire pulling compounds and oil-based industrial

paints. The fitting must also be capable of withstanding marine environment and cold impact simulating a hammer blow. Installed fittings shall be of the elongated gland type as manufactured by Thomas & Betts LT38P series.

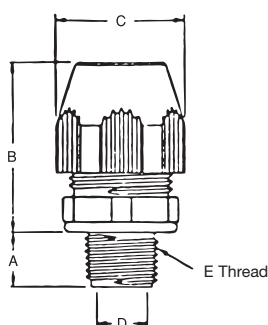


Figure 1

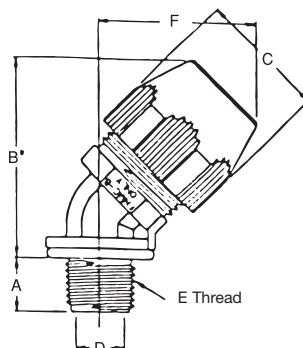


Figure 2

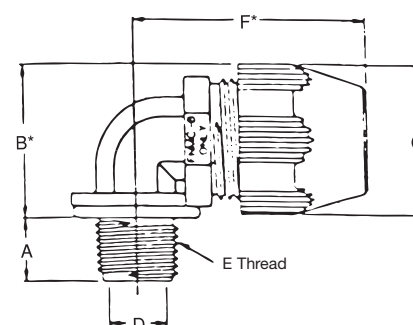


Figure 3