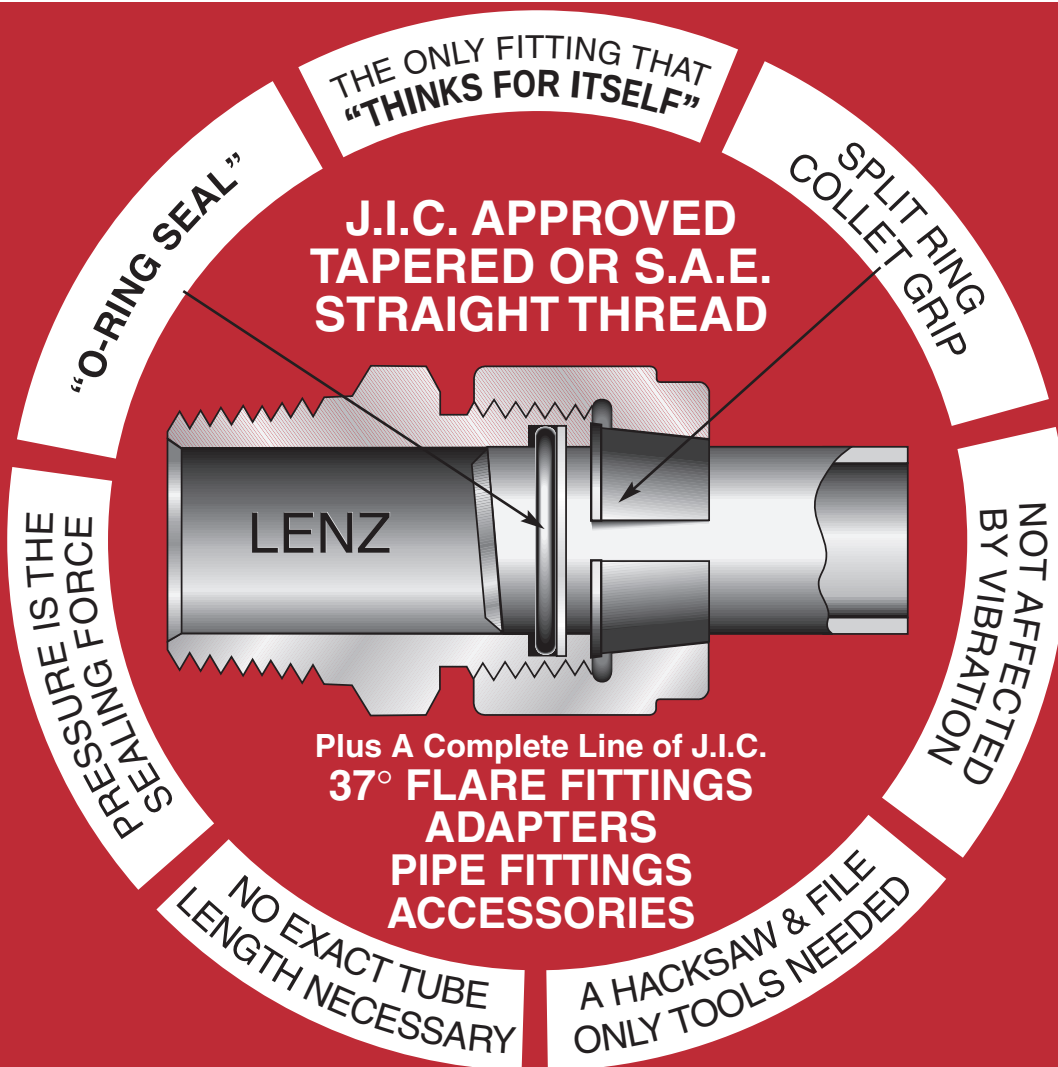




“O-RING SEAL” TUBE FITTINGS & ADAPTERS

CATALOG NO. 127R-A



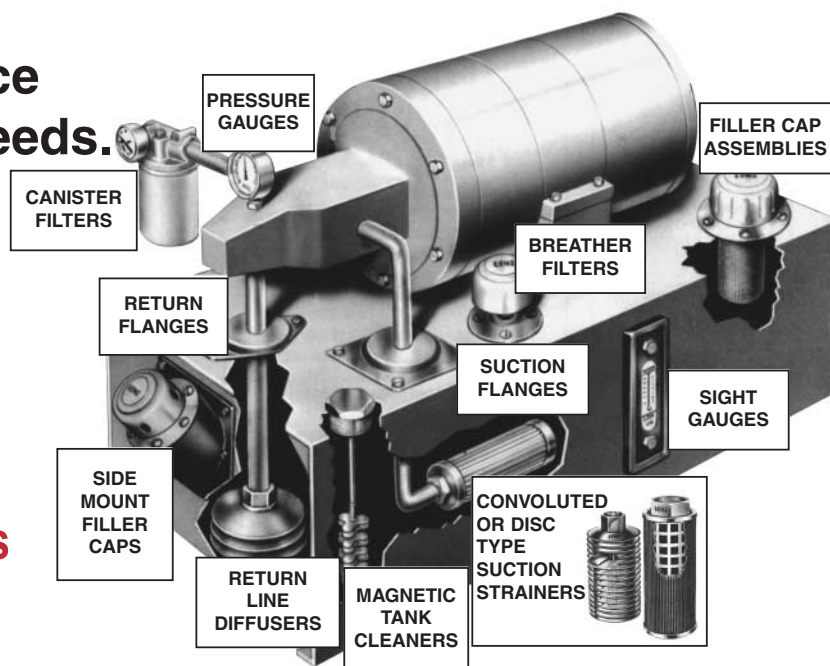
“Another quality product, Only from Lenz”

LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>

LENZ is your one source
for all your hydraulic needs.



Complete selection of Hydraulic Tank Accessories for Fluid Power Control



GIANT SIZE FILLER CAPS

Super 57-XL Series

New, heavy-duty air-intake gives 5 times greater filtered air flow of 200 GPM. Filters (40, 15 & 10 Mic.), breathes, strains & protects! 3" diameter. Cap is fluted for easy gripping. Weather-proof design. As shown, in kits with template & instructions. Easily installed. Cap extends only 2 1/4" above the tank.

Request Catalog TA-81

STANDARD FILLER CAPS

FCS Series

Standard for all average uses. Oversize filter permits 40 GPM. In regular, weather proof or non-vented 2 1/8" diameter caps. With or without chain. Filters (40 Microns), breathes, strains & protects. As shown, in kits with template & full instructions. Easily installed. Lengths, mesh, & materials can be varied.

Request Catalog TA-81

SUPER FILLER CAP

Model FCS-1303

Fast fill! Large opening is designed to speed up filling of reservoir to minimize chance of dirt entry. Easy to fit...easy to clean...large strainer takes cold oil fast. Non-vented type cap. Available in 70 and 24 mesh sizes.

Request Catalog TA-81

TANK BREATHER FILTERS

BF Series In 5 Sizes

Act as ventilators. Filter as fine as 10 Microns OPT and 40 Microns STD provide a standard flow of clean fresh air. All metal except foam filter element, easily cleaned. Corrosion resistant 1/4" NPT thru 1" NPT sizes handle air flows to 75 GPM.

Request Catalog TA-81

2 1/2" & 4" GLYCERIN-FILLED PRESSURE GAUGES

BAC Series Precision Built For Long-Life & Superior Performance



Dampens pulsation & vibrations. Eliminates pointer flutter & insures accuracy. Completely sealed, corrosion resistant brass case...all brass movement.

2 1/2" from 30" vacuum; 15 to 10,000 PSI. 4" from 160 to 15,000 PSI. English-metric dials. Bottom and rear mounts.

Request Catalog PG-111

2 1/2" STANDARD PRESSURE GAUGES

LZ Series For All Types of Hydraulic & Pneumatic Applications



Full selection of ranges to 6000 PSI. Bronze Bushed completely sealed all brass movement. Black steel cases. Designed to assure complete satisfaction and outstanding performance. Bottom, rear center and clamp mounts. English-Metric Dials.

Request Catalog PG-111

2 1/2" & 4" GLYCERIN-FILLED STAINLESS STEEL PRESSURE GAUGES

New! Model SS



Stainless Throughout

Both sizes from 30 to 15,000 PSI. 1/4" male NPT 316SS Bourdon tube and socket. Designed for complete satisfaction where SS is required. Bottom and rear center mounts. Safety blowout plug included. English-Metric Dials.

Request Catalog PG-111

DELUXE SEALED-BACK FLUID LEVEL SIGHT GAUGE

Three sizes, 3 1/4", 5" and 7" center to center. (L). Black finish, heavy aluminum alloy body frames. 3", 5" and 7" sizes also available with F° or C° thermometer. Supplied with bolts, gaskets, template & instructions. Models in all sizes also available for phosphate ester (fire-proof) hydraulic fluids.

Request Catalog TA-81

SUCTION & RETURN FLANGES

SF & RF Series



Provides absolute leakproof seals to pipes passing thru tank tops. Keeps fluid in-dirt out, also serve as inspection ports.

No welding or unions! Supplied with bolts, washers, templates & instructions. SF & SFO Models permit removal of suction filters.

Request Catalog TA-81

MAGNETIC TANK CLEANERS

1000, 2000, 3000, & 4000 Series



Magnetic Cleaners - 2 Types: Multi-Magnet with 3 to 24 Alnico magnets; Slim-Line with magnets encased in tube. Holds ferrous materials as fine as 1 grain. Bearing, gear and pump life increased over 100%! Standard 5" rod length can be varied to fit tank depth.

Request Catalog TA-81

SIDE MOUNT FILLER CAPS

SM Series For End or Side Filling Tank Needs



Makes tank customizing easier. Heavy duty, 1-piece, Zinc plated, steel housing. Has same specifications as Standard FCS Series. In regular, weatherproof, or non-vented 2 1/8" caps or 3" diameter. Giant cap. Complete with nuts, bolts, seals, gaskets, template and instructions.

Request Catalog TA-81

HEAVY DUTY LINE FILTERS

Model DH-R For Suction or Return Line Application



Up to 300 PSI and temperatures from -60° to 250° F. Available with 10 or 30 micron disposable cartridges or cleanable stainless steel cloth. Easily accessible for quick removal. Relief valve appropriately rated for suction or return line application.

Request Catalog SF-11A

CANISTER FILTERS

CP Series - Disposable Types



Designed for fluid power units where return line pressures do not exceed 100 PSI. Offers exceptional protection to entire hydraulic system. Filter element is sealed in sturdy, disposable canister. Relief valve rated at 5 PSI for suction line applications - 15 PSI & 25 PSI for return line use. 10 or 30 micron filter. Indicating gauge optional.

Request Catalog SF-11A

STACKING DISC SUMP STRAINERS

Standard - Magnetic



All-metal disc-type for petroleum base and fire-resistant hydraulic oils, waters and fluids. Works efficiently vertically or horizontally. Easy and complete cleaning. Magnetic model adds magnetic separation to efficient straining action of the stacking discs. 100, 60, or 30 mesh wire screen available.

Request Catalog SF-11A

RETURN LINE DIFFUSER

Model R Disc-Type



Slows down and spreads oil returning from the hydraulic system to mix with remaining cool oil in the sump. 8 or 30 mesh wire cloth available from 3 3/4" to 6" diameter; 1/8" to 3" height.

Request Catalog SF-11A

SUMP-FILTER STRAINERS

49 Series & N-49 (Nylon Series)



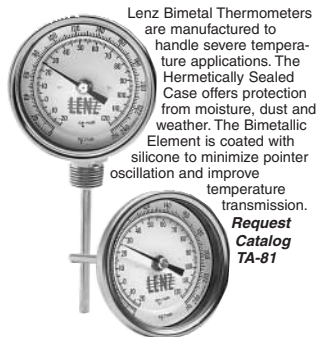
Single, suction-type unit. Low cost, one-piece construction. Plated ends. Cylinder to prevent collapsing. Pleated, reusable Stainless wire cloth. Gives trouble-free positive protection. Easily cleaned. Relief valve in bottom optional. Assembled & boxed with full instructions. Easily installed.

Request Catalog SF-11A

This information is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented is based on laboratory testing and does not necessarily indicate end product performance. It is recommended that users of LENZ products conduct their own evaluations to determine suitability for the intended applications.

LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>

BI-METAL THERMOMETERS



Lenz Bi-Metal Thermometers are manufactured to handle severe temperature applications. The Hermetically Sealed Case offers protection from moisture, dust and weather. The Bimetallic Element is coated with silicone to minimize pointer oscillation and improve temperature transmission.

Request Catalog TA-81

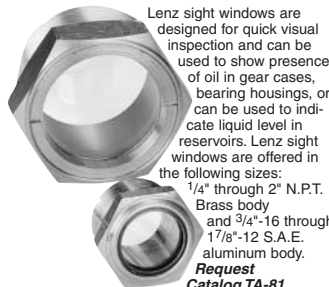
HIGH & LOW PRESSURE BALL VALVES



Lenz ball valves are manufactured in carbon steel for high pressure, up to 7,500 p.s.i. and in Brass for low pressure up to 600 p.s.i. Lenz ball valves are offered in the following sizes: 1/4" through 4" N.P.T. and 7/16"-20 through 1 7/8"-12 S.A.E.

Request Catalog TA-81

SIGHT WINDOWS



Lenz sight windows are designed for quick visual inspection and can be used to show presence of oil in gear cases, bearing housings, or can be used to indicate liquid level in reservoirs. Lenz sight windows are offered in the following sizes: 1/4" through 2" N.P.T. Brass body and 3/4"-16 through 1 7/8"-12 S.A.E. aluminum body.

Request Catalog TA-81

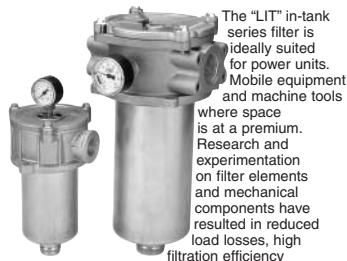
FILLER CAP AND NECKS



Request Catalog TA-81

MODEL "LIT" SERIES IN-TANK FILTERS

DISPOSABLE FILTER CARTRIDGE TYPE



The "LIT" in-tank series filter is ideally suited for power units. Mobile equipment and machine tools where space is at a premium. Research and experimentation on filter elements and mechanical components have resulted in reduced load losses, high filtration efficiency and excellent performance in concentrating contaminants.

Request Catalog SF-11A

TANK MOUNTED STRAINERS LTMA SERIES



Designed for ease of servicing.

Specifications:
• S.A.E. 2 1/2"-12 to 1 1/4" hose barbed tube
• Machined bushing
• Perforated steel support tubes
• 100 mesh stainless steel pleated elements

Options:
• No by-pass or 5 P.S.I. by-pass
• Custom screens available on request

Request Catalog SF-11A

2 1/2" GLYCERIN-FILLED DUAL SCALE STAINLESS CASE BRASS MOVEMENT PRESSURE GAUGES (ENGLISH-METRIC)



Model No. AFC-25 (Stainless Case, Brass Connection) 30 HG to 15,000 P.S.I.
Accuracy: Within 2.0% of Maximum Graduation
Case: Stainless Steel
Bourdon Tube: Phosphor Bronze
Movement: Brass with Highly Finished Bearing Surfaces
Connection: 1/4" Male NPT Brass Bottom or Rear Center Connection Safety Blow-Out Plug Included Restrictors Standard.

Request Catalog PG-111

RETURN LINE DIFFUSERS LDFD SERIES



Designed for ease of servicing.

Specifications:
• Zinc-plated steel
• Mounting: Can be vertical or horizontal with discharge side directed away from suction and preferably toward a tank wall or bottom.

Request Catalog SF-11A

ADAPTERS



Lenz Manufactures a complete line of Hydraulic Adapters and Hose Fittings that meet or exceed J.I.C./S.A.E. standards and are interchangeable with other standard hose adapters.

Request Catalog AD-90

3" HIGH NECK FLANGE

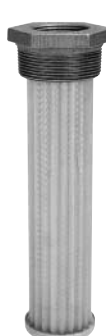


The 3" high neck flange is suited to help prevent tank

top dirt from plugging up the air filter and ideal for mobile applications, virtually eliminating spillage. This high neck flange puts the air filter 3" above the tank top.

Request Catalog TA-81

TANK MOUNTED STRAINERS LTM SERIES



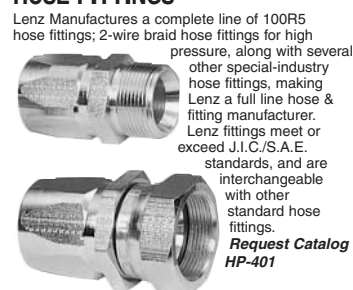
Designed for ease of servicing. Access to tank interior is not necessary

Specifications:
• Cast iron bushings
• Perforated steel support tubes
• 100 mesh stainless steel pleated elements

Options:
• No by-pass or 5 P.S.I. by-pass
• Custom screens available on request

Request Catalog SF-11A

HOSE FITTINGS



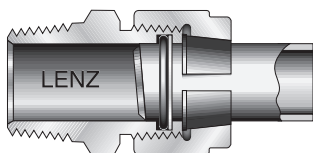
Lenz Manufactures a complete line of 100R5 hose fittings; 2-wire braid hose fittings for high pressure, along with several other special-industry hose fittings, making Lenz a full line hose & fitting manufacturer. Lenz fittings meet or exceed J.I.C./S.A.E. standards, and are interchangeable with other standard hose fittings.

Request Catalog HP-401

TUBE FITTINGS

The exclusive Lenz "O-Ring" Seal tube fitting is the most easily installed, labor saving, perfect sealing fitting available. For complete information on this fitting,

Request Catalog 127R-A



"TC SERIES" TANK COVERS



Request Catalog TA-81

"LC-57XL-40" LOCKABLE FILLER BREATHER CAP



Lenz has introduced a new series of lockable filler breather caps,

"LC-57XL-40". The lockable filler breather cap helps prevent hydraulic systems from being tampered with by welded lugs to allow use of a padlock.

Request Catalog TA-81

CHEMICAL SEALS

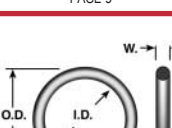
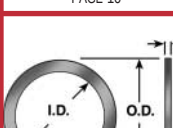
Chemical seals also referred to as diaphragm seals, are used to isolate pressure gauges from clogging and/or corrosive media. The seal is also filled with silicone fluid. Any pressure applied by the process medium to the seal diaphragm is hydraulically transmitted to the pressure element of the gauge, thus generating a pressure reading on the pressure gauge.

Request Catalog PG-111



VISUAL

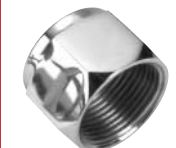
I N D E X

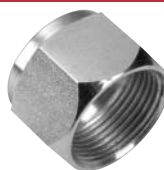
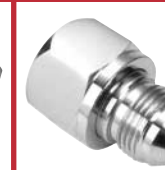
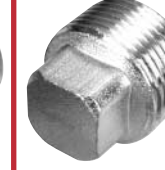
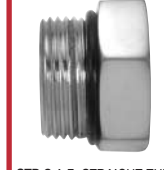
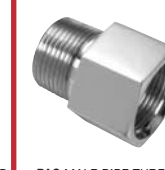
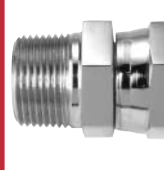
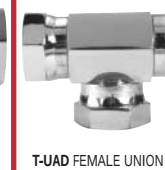
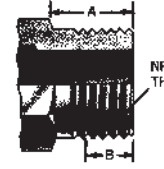
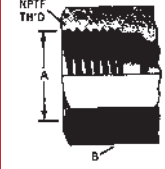
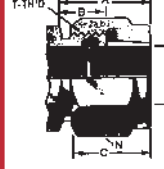
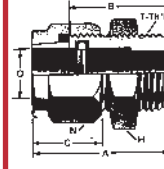
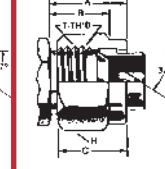
						
100 MALE CONNECTOR PAGE 1	100-L MALE CONNECTOR PAGE 1	100-LL MALE CONNECTOR PAGE 1	250 FEMALE CONNECTOR PAGE 2	300 UNION PAGE 2	350 MALE 45° ELBOW PAGE 2	400 MALE ELBOW PAGE 3
						
400-L MALE ELBOW PAGE 3	400-LL MALE ELBOW PAGE 3	400-LLL MALE ELBOW PAGE 4	450 FEMALE ELBOW PAGE 4	500 ELBOW UNION PAGE 4	600 MALE BRANCH TEE PAGE 5	650 FEMALE BRANCH TEE PAGE 5
						
700 TEE UNION PAGE 5	750 MALE RUN TEE PAGE 6	800 FEMALE RUN TEE PAGE 6	810 MALE CROSS PAGE 6	820 FEMALE CROSS PAGE 7	850 TUBE CROSS PAGE 7	860 TEE PAGE 7
						
900 BULKHEAD UNION PAGE 7	940 BULKHEAD 45° UNION ELBOW PAGE 8	950 BULKHEAD UNION ELBOW PAGE 8	960 BULKHEAD TEE PAGE 8	980 FEMALE BULKHEAD PAGE 8	760 CROSS PAGE 9	770 CROSS PAGE 9
						
780 CROSS PAGE 9	790 CROSS PAGE 9	870 TEE PAGE 9	880 TEE PAGE 9	890 TEE PAGE 9	910 TEE PAGE 9	920 TEE PAGE 9
						
930 TEE PAGE 9	990 MALE BULKHEAD PAGE 9	A-100 MALE CONNECTOR PAGE 10	A-100-L MALE CONNECTOR PAGE 10	A-350 MALE 45° ELBOW PAGE 10	A-400 MALE ELBOW PAGE 11	A-600 MALE BRANCH TEE PAGE 11
						
A-750 MALE RUN TEE PAGE 11	A-185 & A-185-L "O-RINGS" PAGE 12	175 BACK-UP WASHERS PAGE 12	205 TUBE NUT PAGE 13	165 TUBE SLEEVE PAGE 13	208 BULKHEAD NUT PAGE 13	100C TUBE CAP PAGE 13
						
100-L MALE CONNECTOR PAGE 14	205P PLUG PAGE 14	TPN TUBE PIPE NIPPLE PAGE 15	TAN TUBE "A" NIPPLES PAGE 15	TFN* TUBE-FLARE NIPPLES PAGE 16	100-F STRAIGHT ADAPTER PAGE 16	OFTN TUBE O-RING FACE NIPPLES PAGE 16

VISUAL

I N D E X

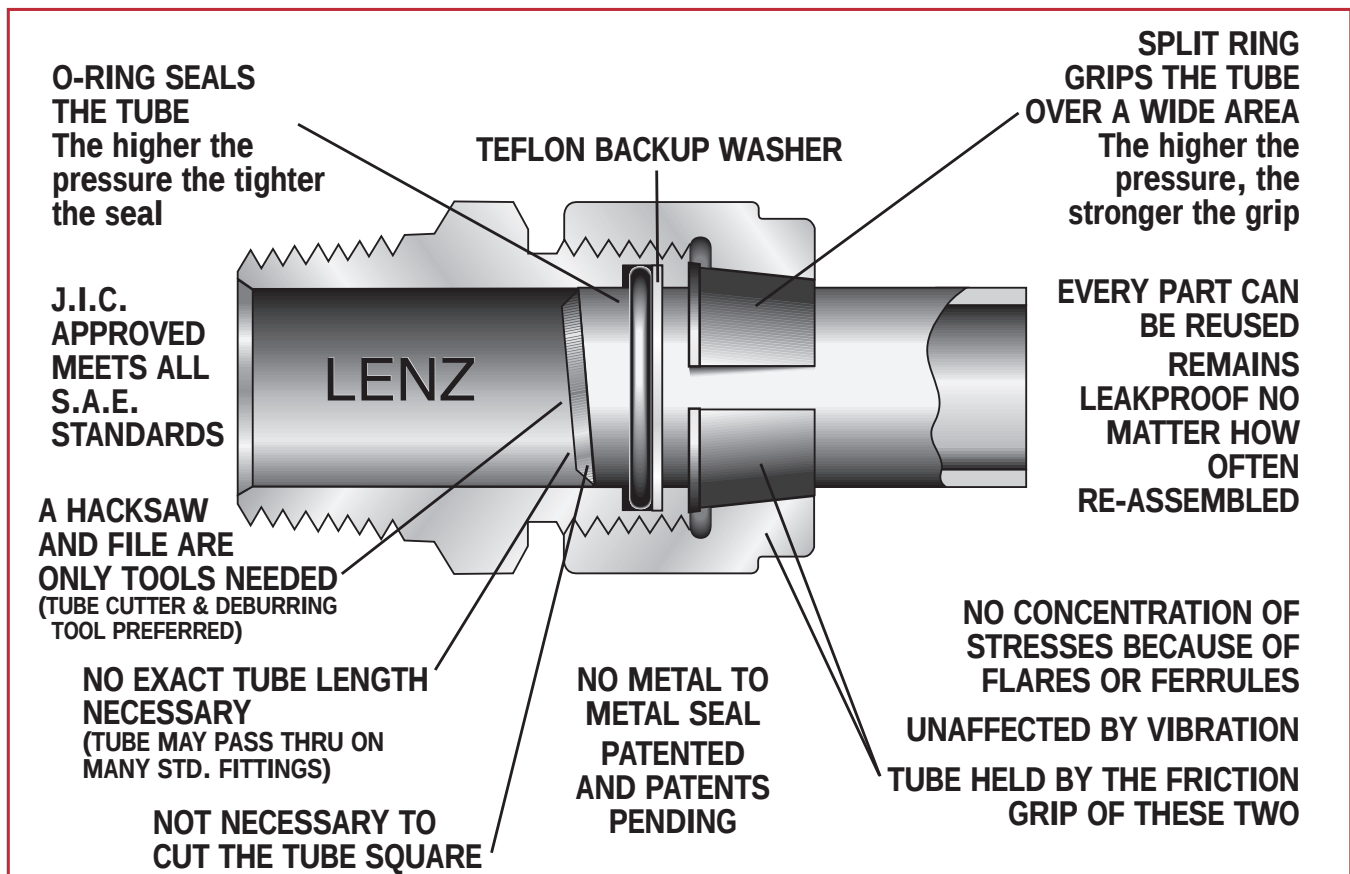
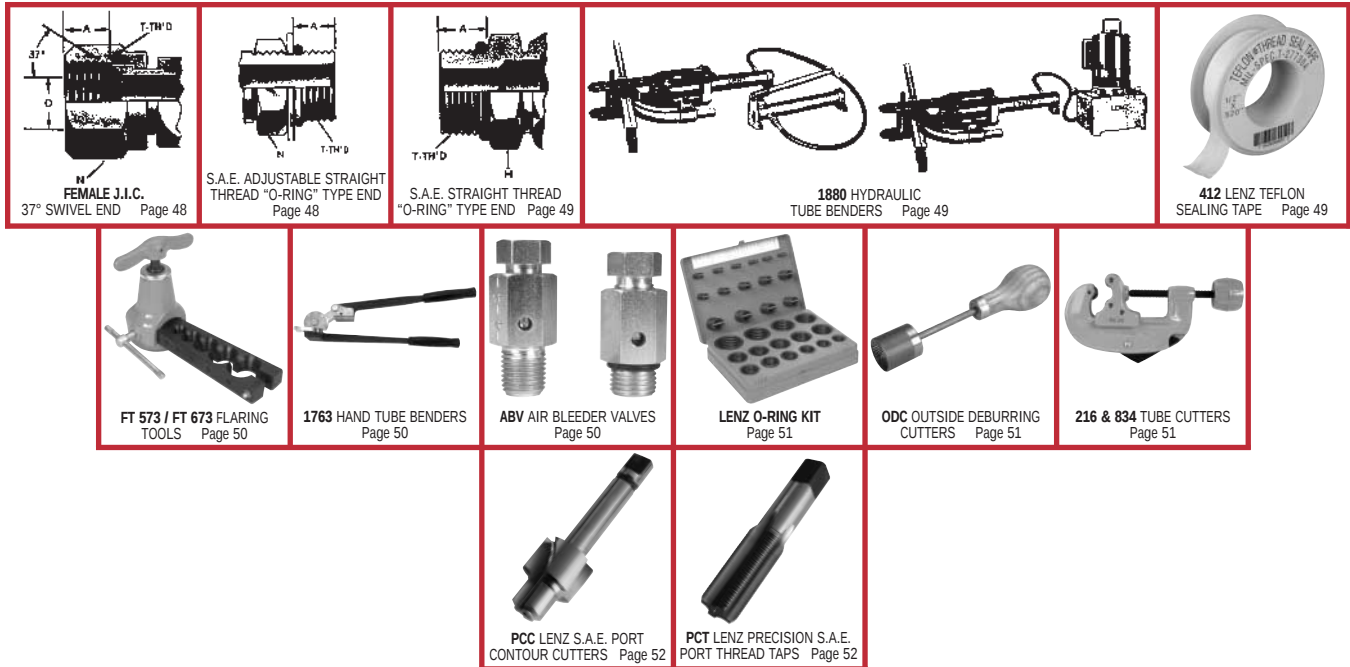
VISUAL INDEX

						
100-OF STRAIGHT ADAPTERS PAGE 16	3105 MALE CONNECTOR PAGE 17	3105-L LONG MALE CONNECTOR PAGE 17	3105-LL EXTRA LONG MALE CONNECTOR PAGE 17	3255 FEMALE CONNECTOR PAGE 18	3305-LH LARGE HEX UNION PAGE 18	3305 UNION PAGE 18
						
3355 MALE 45° ELBOW PAGE 19	3405 MALE ELBOW PAGE 19	3405-L LONG MALE ELBOW PAGE 20	3405-LL EXT. LONG MALE ELBOW PAGE 20	3405-LLL EXT. LONG-LONG MALE ELBOW PAGE 20	3455 FEMALE ELBOW PAGE 21	3505 ELBOW UNION PAGE 21
						
3605 MALE BRANCH TEE PAGE 21	3655 FEMALE BRANCH TEE PAGE 22	3705 TEE UNION PAGE 22	3755 MALE RUN TEE PAGE 22	3805 FEMALE RUN TEE PAGE 23	3855 TUBE CROSS PAGE 23	3905 BULKHEAD UNION PAGE 23
						
3945 BULKHEAD 45° UNION ELBOW PAGE 24	3955 BULKHEAD UNION ELBOW PAGE 24	3965 BULKHEAD TEE PAGE 24	3985 FEMALE BULKHEAD PAGE 25	3355-SW SWIVEL NUT 45° ELBOW PAGE 25	3505-SW SWIVEL NUT 90° ELBOW PAGE 25	3605-SW SWIVEL NUT BRANCH TEE PAGE 26
						
3755-SW SWIVEL NUT RUN TEE PAGE 26	3105-SW MALE PIPE TO 37° FEMALE SWIVEL PAGE 26	3255-SW FEMALE PIPE TO 37° FEMALE SWIVEL PAGE 26	A3105-SW O-RING S.A.E. TO 37° FEMALE SWIVEL PAGE 26	A3405-SW O-RING S.A.E. ADJUSTABLE PAGE 26	3765 CROSS FLARE TUBE END PAGE 27	3775 CROSS FLARE TUBE END PAGE 27
						
3785 CROSS FLARE TUBE END PAGE 27	3795 CROSS FLARE TUBE END PAGE 27	3815 MALE CROSS FLARE TUBE END PAGE 27	3825 TEE FEMALE PIPE END PAGE 27	3865 TEE MALE PIPE END PAGE 27	3875 TEEMALE PIPE END PAGE 27	3885 TEE FLARE TUBE END PAGE 27
						
3895 TEE FLARE TUBE END PAGE 27	3915 TEE FLARE TUBE END PAGE 27	3925 TEE FEMALE PIPE END PAGE 27	3935 TEE FLARE TUBE END PAGE 27	3995 MALE BULKHEAD FLARE TUBE END PAGE 27	A-3105 MALE CONNECTOR PAGE 28	A-3105-L LONG MALE CONNECTOR PAGE 28
						
A-3355 MALE 45° ELBOW PAGE 28	A-3405 MALE ELBOW PAGE 29	A-3405-L LONG MALE ELBOW PAGE 29	A-3405-LL EXTRA LONG MALE ELBOW PAGE 29	A-3605 MALE BRANCH TEE PAGE 30	A-3755 MALE RUN TEE PAGE 30	3205 TUBE NUT 3-PIECE PAGE 31

						
3165 TUBE SLEEVE Page 31	2205-S TWO PIECE TUBE SHORT NUT Page 31	2205 TWO PIECE TUBE NUT Page 31	3208 37° FLARE BULKHEAD NUT Page 32	2205-C CAP NUT Page 32	3105-P TUBE PLUG Page 32	3140 FLARE TUBE END REDUCERS Page 33
						
HB HEX BUSHINGS Page 33	RPN REDUCING PIPE NIPPLES Page 34	PRC PIPE REDUCING CONNECTORS Page 34	PN PIPE NIPPLES Page 35	FPE FEMALE PIPE ELBOWS Page 35	MPE MALE PIPE ELBOWS Page 35	SE STREET ELBOWS Page 36
						
45 SE 45° STREET ELBOWS Page 36	MPT MALE PIPE TEE Page 36	PT PIPE TEES Page 36	ST STREET TEES Page 37	MST MALE STREET TEE Page 37	FRT FEMALE RUN TEE Page 37	MRT MALE RUN TEE Page 37
						
FPC FEMALE PIPE CROSS Page 38	PC PIPE COUPLINGS Page 38	RPC REDUCING PIPE COUPLINGS Page 38	PU PIPE UNIONS Page 38	HHP HOLLOW HEX PLUGS Page 39	HP HEX PLUGS Page 39	SHP SQUARE HEAD PLUGS Page 39
						
SPN SEAMLESS PIPE NIPPLES Page 39	AAU-S.A.E. MALE UNION Page 40	ASE-S.A.E. FEMALE PIPE ELBOW Page 40	AST-S.A.E. FEMALE SAE TEE Page 40	AHPH "O" RING HOLLOW HEX PLUG Page 40	STP S.A.E. STRAIGHT THREAD PLUG Page 41	PAC MALE PIPE THREAD CONNECTOR Page 41
						
APN MALE CONNECTOR Page 41	ARC S.A.E. STRAIGHT THREAD Page 42	APC FEMALE CONNECTOR Page 42	M-UAD MALE UNION SWIVEL ADAPTER Page 43	F-UAD FEMALE UNION SWIVEL ADAPTER Page 43	ME-UAD MALE UNION ELBOW SWIVEL ADAPTER Page 43	M-UAD MALE UNION ELBOW SWIVEL ADAPTER Page 44
						
FE-UAD FEMALE UNION ELBOW SWIVEL ADAPTER Page 44	SM-UAD S.A.E. STRAIGHT THREAD MALE UNION ADAPTER Page 44	SME-UAD S.A.E. STRAIGHT THREAD MALE UNION ELBOW SWIVEL ADAPTER Page 45	MT-UAD MALE UNION TEE SWIVEL ADAPTER Page 45	MEX-UAD MALE 45° UNION ELBOW SWIVEL ADAPTER Page 45	FT-UAD FEMALE UNION TEE SWIVEL ADAPTER Page 46	T-UAD FEMALE UNION TEE SWIVEL ADAPTER Page 46
						
FEX-UAD 45° UNION ELBOW SWIVEL ADAPTER Page 46	MALE PIPE THREAD END (DRY SEAL) Page 47	FEMALE PIPE THREAD END (DRY SEAL) Page 47	LENZ "O-RING SEAL" END Page 47	LENZ "O-RING SEAL" BULKHEAD END Page 47	J.I.C. 37° FLARE MALE BULKHEAD END Page 48	J.I.C. 37° FLARE MALE END Page 48

VISUAL

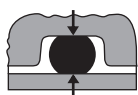
I N D E X



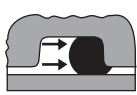
O-RING SEAL TUBE FITTING

- The Only Tube Fittings of Their Kind • Why They Are Exclusively Different
- How They Save You Time and Costs • How They Perform • How to Assemble

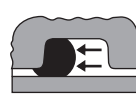
THE PRESSURE IS THE SEALING FORCE



AT ZERO PRESSURE. When the tube is inserted in the fitting past the O-Ring there is a slight compression and the resiliency of the O-Ring makes a secure, lasting seal!



UNDER PRESSURE. The pressure is the sealing force, pushing the O-Ring to the edge of the groove. As pressure increases the O-Ring "knows" making the seal tighter!

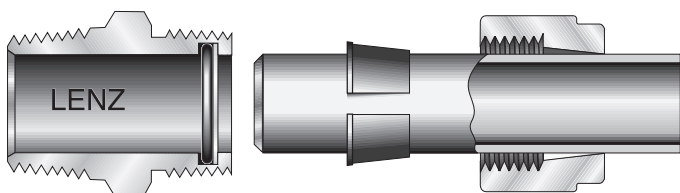


UNDER VACUUM OR SUCTION. If vacuum or suction is applied the O-Ring "Intelligence" recognizes the condition and reverses its action to seal just as tightly!

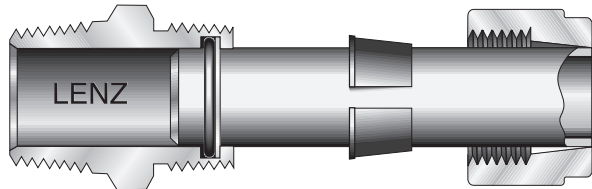
"O-RING SEAL" FITTINGS ARE EASILY INSTALLED



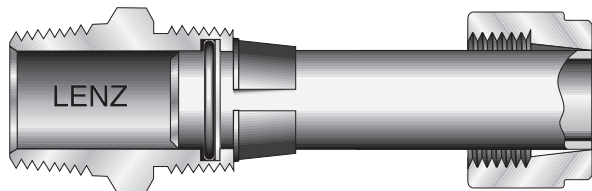
A. DEBURR THE TUBE - Prevents cutting the O-Ring. Not necessary to cut the tube square.



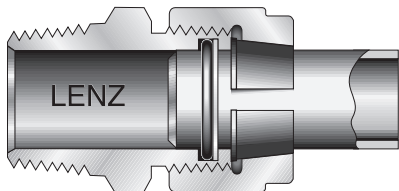
B. SLIDE NUT and TAPERED SPLIT RING ON TUBE. The large end of the tapered ring should face the fitting.



C. OIL THE O-RING - Then insert the tube past the O-Ring.



D. SLIDE TAPERED SPLIT RING - Slide up to the fitting.

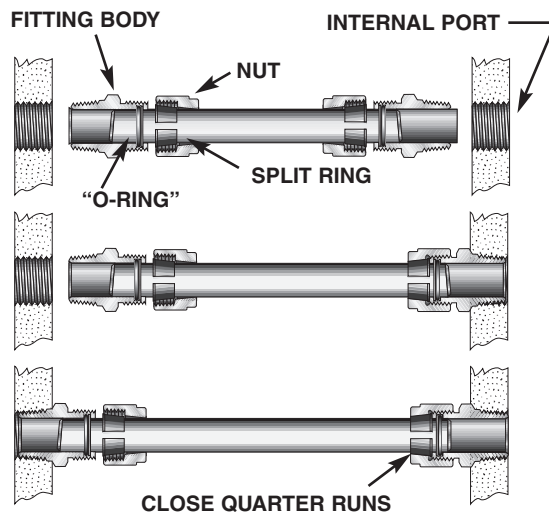


E. TIGHTEN NUT HAND TIGHT - then with wrench tighten one turn or until the rear of the tapered ring is flush with the nut.

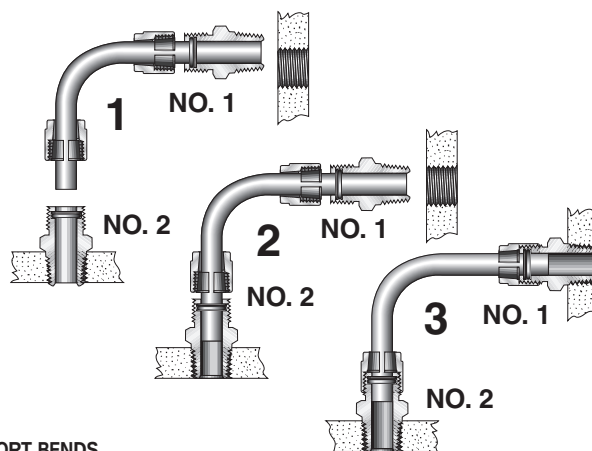
HOW THE SPLIT RING GRIPS - Note the taper. As nut is tightened the ring is wrapped around the tube, gripping it in like manner to a locking collet in a chuck. This principle grips and locks tighter and stronger as the pressure increases. Note that the nut has nothing to do with the seal . . . It is separate!

Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves.

ONLY LENZ "O-RING" SEAL FITTINGS CAN SOLVE THESE DIFFICULT INSTALLATIONS



1. Cut tube maximum length allowable. Deburr tube end so that it does not cut O-Ring.
2. Slide nut, tapered split ring and body on each end of tube.
3. Insert and tighten one fitting in port. Slide tapered split ring up to fitting body and tighten nut.
4. Slide remaining fitting to port, insert and tighten in regular manner.



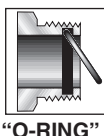
SHORT BENDS

1. Deburr tube end. Slide nut, tapered split ring and fitting body No. 1 on end of tube.
2. Slide only the nut and tapered split ring on other end. Insert fitting body No. 2 into port.
3. Push tube into installed fitting body No. 2 until other end of tube is aligned with the other port.
4. Install fitting body No. 1 into port. Slide both split rings up to fitting bodies and tighten in regular manner.

WHEN ORDERING LENZ FITTINGS IN ALL STAINLESS STEEL ADD SS TO THE PART NUMBER. EXAMPLE: 100-12-12-SS
THE LENZ FITTING COMES TO YOU WITH THE O-RING AND TEFLON BACK-UP WASHER INSTALLED COMPLETE.

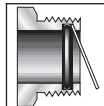
LENZ

**PROPER INSTALLATION
OF O-RING & TEFLON
BACK-UP WASHER**

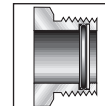


INSTALL
"O-RING"
FIRST

Then work in Teflon
back-up washer on the
side of the "O-Ring"
toward the opening.



OIL the
"O-Ring"



"O-RING" AND
TEFLON BACK-UP
WASHER
IN PLACE

"O-RING SEAL"

T A P E R E D P I P E T H R E A D

"O-RING SEAL"

100 • Male Connector

Part No.	Tube O.D.	Male Pipe Thread	Overall Length
100-2-2	1/8"	1/8"	1 1/8"
100-4-2	1/4"	1/8"	1 1/32"
100-4-4*	1/4"	1/4"	1 1/2"
100-5-2	5/16"	1/8"	1 1/32"
100-5-4*	5/16"	1/4"	1 1/2"
100-6-4	3/8"	1/4"	1 9/32"
100-6-2	3/8"	1/8"	1 7/16"
100-6-6*	3/8"	3/8"	1 5/8"
100-6-8*	3/8"	1/2"	1 13/16"
100-8-6	1/2"	3/8"	1 7/8"
100-8-4	1/2"	1/4"	1 7/8"
100-8-8*	1/2"	1/2"	2 1/16"
100-8-12*	1/2"	3/4"	2 1/16"
100-10-8	5/8"	1/2"	2 3/16"
100-10-4	5/8"	1/4"	2"
100-10-6	5/8"	3/8"	2"
100-10-12*	5/8"	3/4"	2 7/32"
100-12-12*	3/4"	3/4"	2 3/8"
100-12-8	3/4"	1/2"	2 3/8"
100-14-12	7/8"	3/4"	2 13/32"
100-16-16**	1"	1"	2 3/4"
100-16-12	1"	3/4"	2 9/16"
100-18-16	1 1/8"	1"	2 7/8"
100-20-20*	1 1/4"	1 1/4"	3 1/16"
100-20-16	1 1/4"	1"	3 1/16"
100-20-24*	1 1/4"	1 1/2"	3 1/8"
100-24-24*	1 1/2"	1 1/2"	3 1/4"
100-24-20	1 1/2"	1 1/4"	3 1/4"
100-28-24	1 3/4"	1 1/2"	3 1/4"
100-28-32	1 3/4"	2"	3 29/32"
100-32-32	2"	2"	3 29/32"
100-32-20	2"	1 1/4"	3 27/32"
100-32-24	2"	1 1/2"	3 27/32"

* Fittings with tube diameter bored through
 **Tube diameter bored through, optional

100-L • Long Male Connector

Part No.	Tube O.D.	Male Pipe Thread	Overall Length
100L-4-2	1/4"	1/8"	2"
100L-5-2	5/16"	1/8"	2 1/8"
100L-6-4	3/8"	1/4"	2 15/32"
100L-8-6	1/2"	3/8"	3 5/32"
100L-10-8	5/8"	1/2"	3 1/2"
100L-12-12	3/4"	3/4"	3 29/32"
100L-14-12	7/8"	3/4"	4 5/32"
100L-16-16	1"	1"	4 1/2"
100L-20-20	1 1/4"	1 1/4"	5 7/32"
100L-24-24	1 1/2"	1 1/2"	5 19/32"

100-LL • Extra Long Male Connector

Part No.	Tube O.D.	Male Pipe Thread	Overall Length
100LL-4-2	1/4"	1/8"	2 3/4"
100LL-5-2	5/16"	1/8"	3"
100LL-6-4	3/8"	1/4"	3 15/32"
100LL-8-6	1/2"	3/8"	4 1 1/32"
100LL-10-8	5/8"	1/2"	4 3/4"
100LL-12-12	3/4"	3/4"	5 13/32"
100LL-14-12	7/8"	3/4"	5 25/32"
100LL-16-16	1"	1"	6 1/4"
100LL-20-20	1 1/4"	1 1/4"	7 7/32"
100LL-24-24	1 1/2"	1 1/2"	7 27/32"

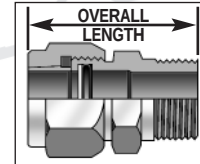
100

MALE CONNECTOR TUBE END-MALE PIPE END

Tubing may be pushed all the way through the male connectors marked with an asterisk*. This exclusive feature has many uses in hydraulic or air circuitry. For other fittings with this feature see Series 250 (opposite page) and Series A100.

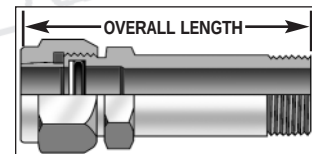
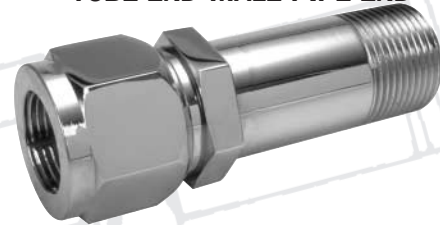


Part Numbers Include
 Body Nuts, Sleeves,
 "O-Rings" and Back-
 Up Washers.



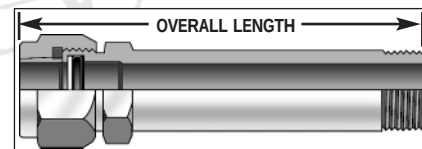
100-L

LONG MALE CONNECTOR TUBE END-MALE PIPE END



100-LL

EXTRA LONG MALE CONNECTOR TUBE END-MALE PIPE END



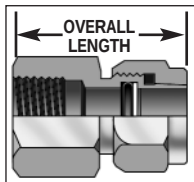
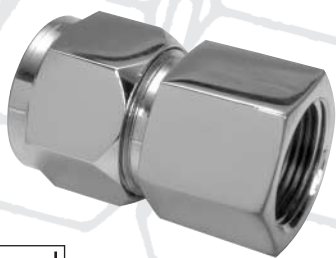
Stainless Steel Tubing

Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves. When Ordering Lenz Fittings in all Stainless Steel Add SS To The Part Number. Example: 100-12-12-SS

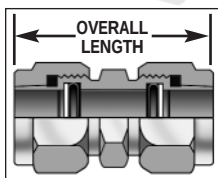
"O-RING SEAL"

T A P E R E D P I P E T H R E A D

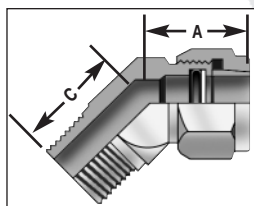
250 FEMALE CONNECTOR TUBE END-FEMALE PIPE END



300 UNION TUBE END-BOTH ENDS



350 MALE 45° ELBOW - TUBE END MALE PIPE END



250 • Female Connector

Part No.	Tube O.D.	Female Pipe Thread	Overall Length
250-4-2*	1/4"	1/8"	1 11/32"
250-4-4*	1/4"	1/4"	1 15/32"
250-5-2*	5/16"	1/8"	1 11/32"
250-5-4*	5/16"	1/4"	1 15/32"
250-6-4*	3/8"	1/4"	1 17/32"
250-6-2	3/8"	1/8"	1 7/32"
250-6-6*	3/8"	3/8"	1 21/32"
250-8-6*	1/2"	3/8"	1 7/8"
250-8-4	1/2"	1/4"	1 19/32"
250-8-8*	1/2"	1/2"	2 1/16"
250-10-8*	5/8"	1/2"	2 5/32"
250-10-4	5/8"	1/4"	1 23/32"
250-10-6	5/8"	3/8"	1 23/32"
250-12-12*	3/4"	3/4"	2 5/16"
250-12-8	3/4"	1/2"	2 1/16"
250-14-12*	7/8"	3/4"	2 5/16"
250-14-20*	7/8"	1 1/4"	2 11/16"
250-16-16*	1"	1"	2 23/32"
250-16-12	1"	3/4"	2 7/32"
250-16-24*	1"	1 1/2"	2 29/32"
250-18-16*	1 1/8"	1"	2 11/16"
250-20-20*	1 1/4"	1 1/4"	3"
250-24-24*	1 1/2"	1 1/2"	3 5/32"
250-24-20*	1 1/2"	1 1/4"	2 25/32"
250-32-32*	2"	2"	3 19/32"

* Fittings with tube diameter bored through

300 • Union

Part No.	Tube O.D.	Overall Length
300-2	1/8"	1 5/16"
300-4	1/4"	1 11/16"
300-5	5/16"	1 11/16"
300-6	3/8"	1 13/16"
300-8	1/2"	2 9/32"
300-10	5/8"	2 9/16"
300-12	3/4"	2 7/8"
300-14	7/8"	2 15/16"
300-16	1"	3 3/16"
300-20	1 1/4"	3 3/4"
300-24	1 1/2"	4 1/16"
300-32	2"	4 15/16"

350 • Male 45° Elbow

Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"C" (Male Pipe Leg)
350-4-2	1/4"	1/8"	25/32"	5/8"
350-5-2	5/16"	1/8"	7/8"	5/8"
350-6-4	3/8"	1/4"	1"	27/32"
350-6-6	3/8"	3/8"	1"	15/16"
350-8-6	1/2"	3/8"	17/32"	15/16"
350-8-4	1/2"	1/4"	17/32"	15/16"
350-8-8	1/2"	1/2"	1 15/32"	1 5/32"
350-10-8	5/8"	1/2"	1 15/32"	1 5/32"
350-12-12	3/4"	3/4"	1 5/8"	1 3/16"
350-12-8	3/4"	1/2"	1 5/8"	1 5/32"
350-14-12	7/8"	3/4"	1 9/16"	1 1/4"
350-16-16	1"	1"	1 13/16"	1 15/32"
350-16-12	1"	3/4"	1 13/16"	1 9/32"
350-20-20	1 1/4"	1 1/4"	2 7/32"	1 21/32"
350-24-24	1 1/2"	1 1/2"	2 13/32"	1 3/4"
350-32-32	2"	2"	2 15/16"	2 1/32"

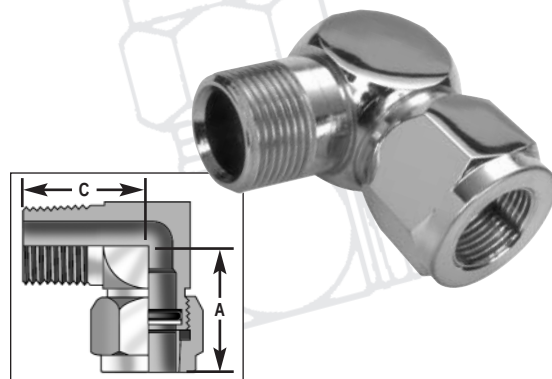
"O-RING SEAL"

T A P E R E D P I P E T H R E A D

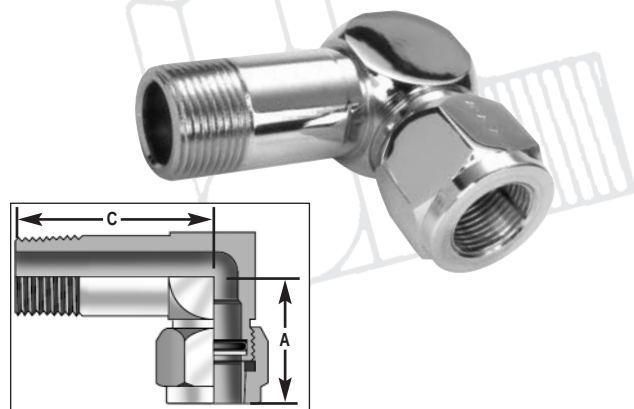
400 • Male Elbow

Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"C" Male Pipe Leg
400-2-2	1/8"	1/8"	25/32"	25/32"
400-4-2	1/4"	1/8"	1"	25/32"
400-4-4	1/4"	1/4"	1 1/16"	1 3/32"
400-5-2	5/16"	1/8"	1 1/32"	25/32"
400-5-4	5/16"	1/4"	1 1/32"	1 3/32"
400-6-4	3/8"	1/4"	1 1/8"	1 3/32"
400-6-2	3/8"	1/8"	1 1/8"	7/8"
400-6-6	3/8"	3/8"	1 3/16"	1 7/32"
400-6-8	3/8"	1/2"	1 1/4"	1 15/32"
400-8-6	1/2"	3/8"	1 15/32"	1 7/32"
400-8-4	1/2"	1/4"	1 15/32"	1 5/32"
400-8-8	1/2"	1/2"	1 15/32"	1 15/32"
400-8-12	1/2"	3/4"	1 19/32"	1 9/16"
400-10-8	5/8"	1/2"	1 21/32"	1 15/32"
400-10-4	5/8"	1/4"	1 21/32"	1 5/16"
400-10-6	5/8"	3/8"	1 21/32"	1 3/8"
400-10-12	5/8"	3/4"	1 23/32"	1 19/32"
400-12-12	3/4"	3/4"	1 23/32"	1 19/32"
400-12-8	3/4"	1/2"	1 27/32"	1 9/16"
400-14-12	7/8"	3/4"	1 15/16"	1 11/16"
400-16-16	1"	1"	2 7/32"	1 31/32"
400-16-12	1"	3/4"	2 7/32"	1 23/32"
400-18-16	1 1/8"	1"	2 13/32"	2 1/8"
400-20-20	1 1/4"	1 1/4"	2 19/32"	2 3/8"
400-20-16	1 1/4"	1"	2 19/32"	2 3/8"
400-20-24	1 1/4"	1 1/2"	2 23/32"	2 5/8"
400-24-24	1 1/2"	1 1/2"	2 29/32"	2 5/8"
400-24-20	1 1/2"	1 1/4"	2 29/32"	2 5/8"
400-32-32	2"	2"	3 19/32"	3"
400-32-24	2"	1 1/2"	3 19/32"	3"

400 MALE ELBOW • TUBE END - MALE PIPE END



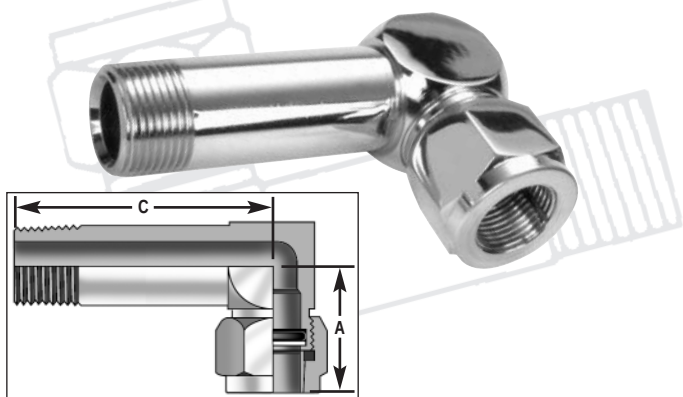
400-L LONG MALE ELBOW TUBE END - MALE PIPE END



400-L • Long Male Elbow

Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"C" (Male Pipe Leg)
400L-4-2	1/4"	1/8"	1"	1 3/16"
400L-5-2	5/16"	1/8"	1 1/32"	1 1/4"
400L-6-4	3/8"	1/4"	1 1/8"	1 21/32"
400L-8-6	1/2"	3/8"	1 15/32"	1 27/32"
400L-10-8	5/8"	1/2"	1 21/32"	2 7/32"
400L-12-12	3/4"	3/4"	1 27/32"	2 15/32"
400L-14-12	7/8"	3/4"	1 15/16"	2 23/32"
400L-16-16	1"	1"	2 7/32"	3 1/16"
400L-20-20	1 1/4"	1 1/4"	2 19/32"	3 11/16"

400-LL EXTRA LONG MALE ELBOW TUBE END - MALE PIPE END



400-LL • Extra Long Male Elbow

Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"C" (Male Pipe Leg)
400LL-4-2	1/4"	1/8"	1"	1 17/32"
400LL-5-2	5/16"	1/8"	1 1/32"	1 5/8"
400LL-6-4	3/8"	1/4"	1 1/8"	2 3/32"
400LL-8-6	1/2"	3/8"	1 15/32"	2 1/2"
400LL-10-8	5/8"	1/2"	1 21/32"	3"
400LL-12-12	3/4"	3/4"	1 27/32"	3 11/32"
400LL-14-12	7/8"	3/4"	1 15/16"	3 5/8"
400LL-16-16	1"	1"	2 7/32"	4 3/16"
400LL-20-20	1 1/4"	1 1/4"	2 19/32"	4 7/8"

Note: 400LL Elbows will turn above 400 Elbows & 400LLL Elbows will turn above 400LL Elbows

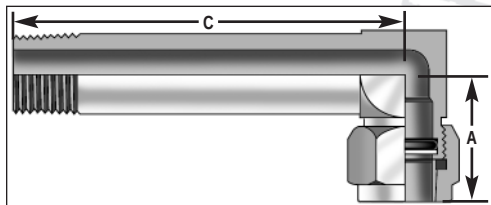
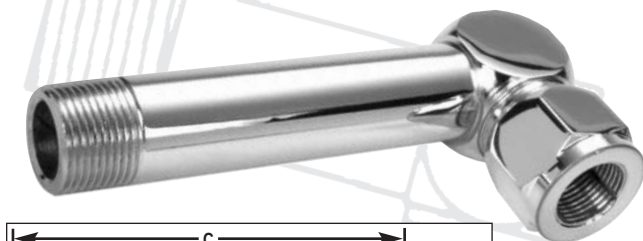
Stainless Steel Tubing

Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves. When Ordering Lenz Fittings in all Stainless Steel Add SS To The Part Number. Example: 100-12-12-SS

"O-RING SEAL"

T A P E R E D P I P E T H R E A D

400-LLL EXTRA LONG LONG MALE ELBOW TUBE END-MALE PIPE END

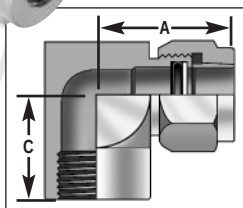
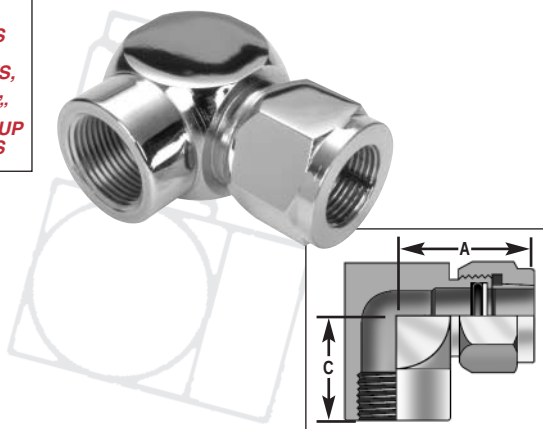


400-LLL • Extra Long, Long Male Elbow

Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"C" (Male Pipe Leg)
400LLL-4-2	1/4"	1/8"	1"	25/16"
400LLL-5-2	5/16"	1/8"	1 1/32"	29/16"
400LLL-6-4	3/8"	1/4"	1 1/8"	3 1/16"
400LLL-8-6	1/2"	3/8"	1 15/32"	3 3/4"
400LLL-10-8	5/8"	1/2"	1 21/32"	4 1/2"
400LLL-12-12	3/4"	3/4"	1 27/32"	5 1/32"
400LLL-14-12	7/8"	3/4"	1 15/16"	5 9/16"
400LLL-16-16	1"	1"	2 7/32"	6 3/8"
400LLL-20-20	1 1/4"	1 1/4"	2 19/32"	7 3/8"

450 FEMALE ELBOW • TUBE END FEMALE PIPE END

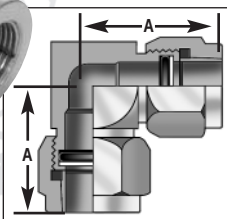
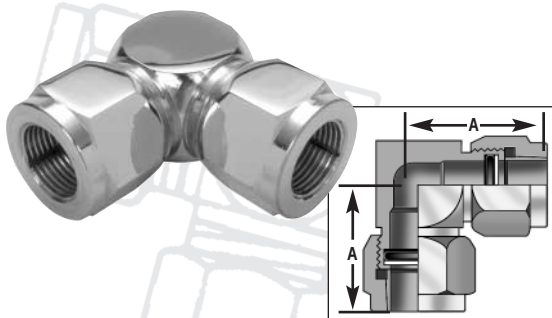
PART
NUMBERS
INCLUDE
BODY NUTS,
SLEEVES,
"O-RINGS"
AND BACK-UP
WASHERS



450 • Female Elbow

Part No.	Tube O.D.	Female Pipe Thread	"A" (Tube Leg)	"C" (Female Pipe Leg)
450-2-2	1/8"	1/8"	27/32"	21/32"
450-4-2	1/4"	1/8"	1 1/16"	21/32"
450-4-4	1/4"	1/4"	1 3/16"	29/32"
450-5-2	5/16"	1/8"	1 1/32"	21/32"
450-5-4	5/16"	1/4"	1 5/32"	29/32"
450-6-4	3/8"	1/4"	1 1/4"	29/32"
450-6-2	3/8"	1/8"	1 1/8"	21/32"
450-6-6	3/8"	3/8"	1 5/16"	31/32"
450-6-8	3/8"	1/2"	1 3/8"	1 1/4"
450-8-6	1/2"	3/8"	1 17/32"	31/32"
450-8-4	1/2"	1/4"	1 15/32"	29/32"
450-8-8	1/2"	1/2"	1 19/32"	1 1/4"
450-10-8	5/8"	1/2"	1 23/32"	1 1/4"
450-10-4	5/8"	1/4"	1 21/32"	31/32"
450-10-6	5/8"	3/8"	1 21/32"	31/32"
450-12-12	3/4"	3/4"	1 31/32"	1 11/32"
450-12-8	3/4"	1/2"	1 27/32"	1 1/4"
450-14-12	7/8"	3/4"	2"	1 11/32"
450-16-16	1"	1"	2 11/32"	1 5/8"
450-16-12	1"	3/4"	2 7/32"	1 15/32"
450-20-20	1 1/4"	1 1/4"	2 25/32"	1 11/16"
450-20-16	1 1/4"	1"	2 19/32"	1 5/8"
450-24-24	1 1/2"	1 1/2"	3 3/32"	2 1/16"
450-32-32	2"	2"	3 25/32"	2 3/8"

500 ELBOW UNION TUBE END - BOTH OPENINGS



500 • Elbow Union

Part No.	Tube O.D.	"A" (Tube Leg)
500-2	1/8"	25/32"
500-4	1/4"	1"
500-5	5/16"	1 1/32"
500-6	3/8"	1 1/8"
500-8	1/2"	1 15/32"
500-10	5/8"	1 21/32"
500-12	3/4"	1 27/32"
500-14	7/8"	1 15/16"
500-16	1"	2 7/32"
500-20	1 1/4"	2 19/32"
500-24	1 1/2"	2 29/32"
500-32	2"	3 19/32"

Stainless Steel Tubing

Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves. When Ordering Lenz Fittings in all Stainless Steel Add SS To The Part Number. Example: 100-12-12-SS

"O-RING SEAL"

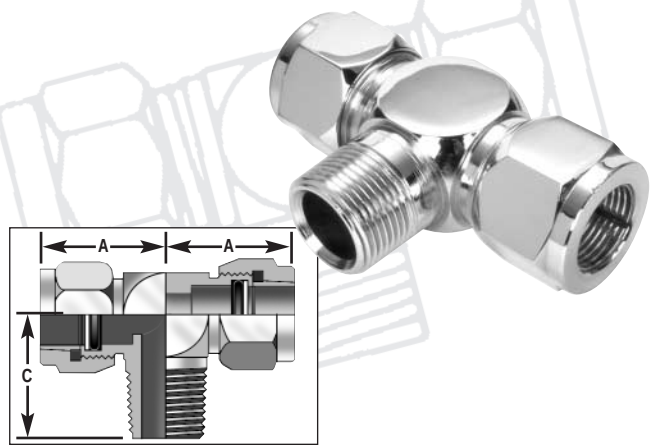
T A P E R E D P I P E T H R E A D

"O-RING SEAL"

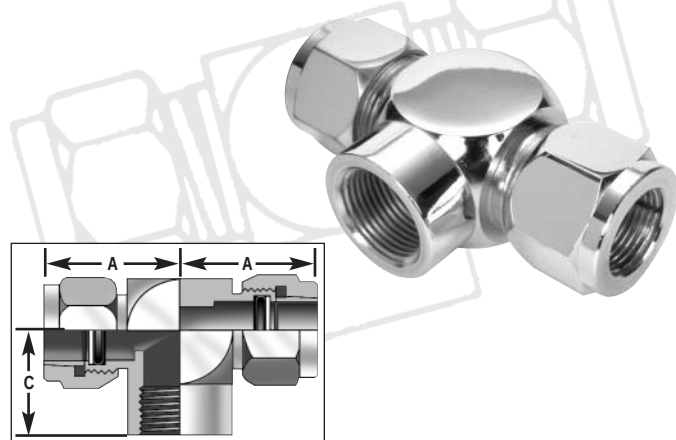
600 • Male Branch Tee

Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"C" (Male Pipe Leg)
600-2-2-2	1/8"	1/8"	25/32"	25/32"
600-4-4-2	1/4"	1/8"	1"	25/32"
600-4-4-4	1/4"	1/4"	1 1/16"	1 3/32"
600-5-5-2	5/16"	1/8"	1 1/32"	25/32"
600-5-5-4	5/16"	1/4"	1 1/32"	1 3/32"
600-6-6-4	3/8"	1/4"	1 1/8"	1 3/32"
600-6-6-2	3/8"	1/8"	1 1/8"	7/8"
600-6-6-6	3/8"	3/8"	1 3/16"	1 7/32"
600-6-6-8	3/8"	1/2"	1 1/4"	1 15/32"
600-8-8-6	1/2"	3/8"	1 15/32"	1 7/32"
600-8-8-4	1/2"	1/4"	1 15/32"	1 5/32"
600-8-8-8	1/2"	1/2"	1 15/32"	1 15/32"
600-10-10-8	5/8"	1/2"	1 21/32"	1 15/32"
600-10-10-6	5/8"	3/8"	1 21/32"	1 3/8"
600-10-10-12	5/8"	3/4"	1 23/32"	1 19/32"
600-12-12-12	3/4"	3/4"	1 27/32"	1 19/32"
600-12-12-8	3/4"	1/2"	1 27/32"	1 9/16"
600-14-14-12	7/8"	3/4"	1 15/16"	1 5/8"
600-16-16-16	1"	1"	2 7/32"	1 31/32"
600-16-16-12	1"	3/4"	2 7/32"	1 23/32"
600-20-20-20	1 1/4"	1 1/4"	2 19/32"	2 3/8"
600-20-20-16	1 1/4"	1"	2 19/32"	2 3/8"
600-24-24-24	1 1/2"	1 1/2"	2 29/32"	2 5/8"
600-24-24-20	1 1/2"	1 1/4"	2 29/32"	2 5/8"
600-32-32-32	2"	2"	3 19/32"	3"

600 MALE BRANCH TEE • TUBE END - TUBE END-MALE PIPE SIDE OUTLET



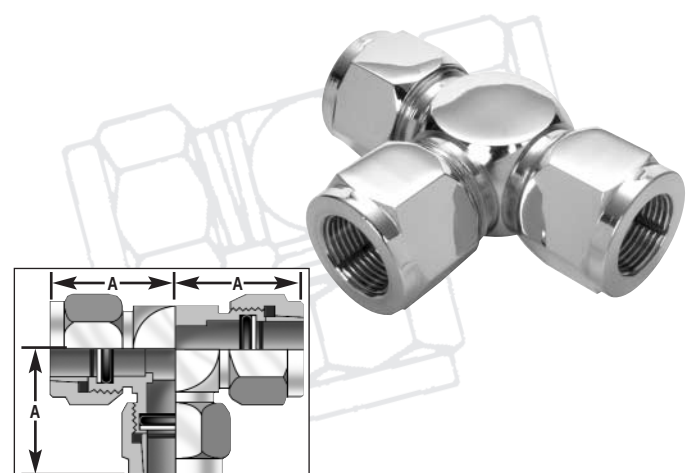
650 FEMALE BRANCH TEE • TUBE END - TUBE END - FEMALE PIPE SIDE OUTLET



650 • Female Branch Tee

Part No.	Tube O.D.	Female Pipe Thread	"A" (Tube Leg)	"C" Female Pipe Leg
650-2-2-2	1/8"	1/8"	27/32"	21/32"
650-4-4-2	1/4"	1/8"	1 1/16"	21/32"
650-4-4-4	1/4"	1/4"	1 3/16"	29/32"
650-5-5-2	5/16"	1/8"	1 1/16"	21/32"
650-5-5-4	5/16"	1/4"	1 5/32"	29/32"
650-6-6-4	3/8"	1/4"	1 1/4"	29/32"
650-6-6-2	3/8"	1/8"	1 1/8"	21/32"
650-8-8-6	1/2"	3/8"	1 17/32"	31/32"
650-8-8-4	1/2"	1/4"	1 15/32"	29/32"
650-8-8-8	1/2"	1/2"	1 19/32"	1 1/4"
650-10-10-8	5/8"	1/2"	1 23/32"	1 1/4"
650-10-10-4	5/8"	1/4"	1 21/32"	31/32"
650-12-12-12	3/4"	3/4"	1 31/32"	1 11/32"
650-12-12-8	3/4"	1/2"	1 27/32"	1 1/4"
650-14-14-12	7/8"	3/4"	2"	1 11/32"
650-16-16-16	1"	1"	2 11/32"	1 5/8"
650-20-20-20	1 1/4"	1 1/4"	2 25/32"	1 11/16"
650-24-24-24	1 1/2"	1 1/2"	3 3/32"	2 1/16"
650-32-32-32	2"	2"	3 25/32"	2 3/8"

700 TEE UNION TUBE END - ALL OPENINGS



700 • Tee Union Tube End

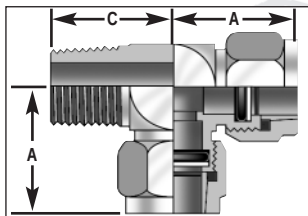
Part No.	Tube O.D.	"A" (Tube Leg)
700-2	1/8"	25/32"
700-4	1/4"	1"
700-5	5/16"	1 1/32"
700-6	3/8"	1 1/8"
700-8	1/2"	1 15/32"
700-10	5/8"	1 21/32"
700-12	3/4"	1 27/32"
700-14	7/8"	1 15/16"
700-16	1"	2 7/32"
700-20	1 1/4"	2 19/32"
700-24	1 1/2"	2 29/32"
700-32	2"	3 19/32"

“O-RING SEAL”

T A P E R E D P I P E T H R E A D

750

**MALE RUN TEE • TUBE END -
MALE PIPE END - TUBE SIDE OUTLET**



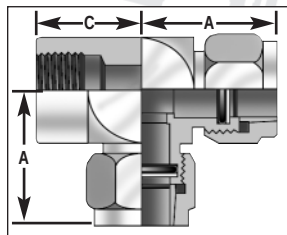
750 • Male Run Tee

Part No.	Tube O.D.	Male Pipe Thread	“A” (Tube Leg)	“C” (Male Pipe Leg)
750-2-2-2	1/8"	1/8"	25/32"	25/32"
750-4-2-4	1/4"	1/8"	1"	25/32"
750-5-2-5	5/16"	1/8"	1 1/32"	25/32"
750-6-4-6	3/8"	1/4"	1 1/8"	13/32"
750-6-2-6	3/8"	1/8"	1 1/8"	7/8"
750-8-6-8	1/2"	3/8"	1 15/32"	17/32"
750-10-8-10	5/8"	1/2"	1 21/32"	1 15/32"
750-12-12-12	3/4"	3/4"	1 27/32"	1 19/32"
750-14-12-14	7/8"	3/4"	1 15/16"	1 5/8"
750-16-16-16	1"	1"	2 7/32"	1 31/32"
750-20-20-20	1 1/4"	1 1/4"	1 19/32"	2 3/8"
750-24-24-24	1 1/2"	1 1/2"	2 29/32"	2 5/8"
750-32-32-32	2"	2"	3 19/32"	3"

**PART NUMBERS INCLUDE BODY NUTS,
SLEEVES, “O-RINGS” AND BACK-UP WASHERS**

800

**FEMALE RUN TEE • TUBE END -
FEMALE PIPE END - TUBE SIDE OUTLET**

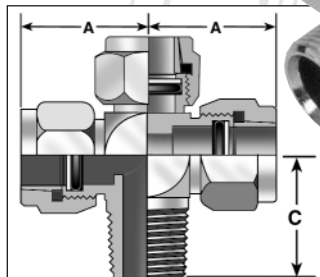


800 • Female Run Tee

Part No.	Tube O.D.	Female Pipe Thread	“A” (Tube Leg)	“C” (Female Pipe Leg)
800-2-2-2	1/8"	1/8"	27/32"	21/32"
800-4-2-4	1/4"	1/8"	1 1/16"	21/32"
800-5-2-5	5/16"	1/8"	1 1/32"	21/32"
800-6-4-6	3/8"	1/4"	1 1/4"	29/32"
800-6-2-6	3/8"	1/8"	1 1/8"	21/32"
800-8-6-8	1/2"	3/8"	1 17/32"	31/32"
800-8-8-8	1/2"	1/2"	1 19/32"	1 1/4"
800-10-8-10	5/8"	1/2"	1 23/32"	1 1/4"
800-12-12-12	3/4"	3/4"	1 31/32"	1 11/32"
800-14-12-14	7/8"	3/4"	2"	1 11/32"
800-16-16-16	1"	1"	2 11/32"	1 5/8"
800-20-20-20	1 1/4"	1 1/4"	2 25/32"	1 11/16"
800-24-24-24	1 1/2"	1 1/2"	3 3/32"	2 1/16"
800-32-32-32	2"	2"	3 25/32"	2 3/8"

810

**MALE CROSS • TUBE END - TUBE END -
TUBE END - MALE PIPE END**



810 • Male Cross

Part No.	Tube O.D.	Male Pipe Thread	“A” (Tube Leg)	“C” (Male Pipe Leg)
810-4-4-4-2	1/4"	1/8"	1"	25/32"
810-5-5-5-2	5/16"	1/8"	1 1/32"	25/32"
810-6-6-6-4	3/8"	1/4"	1 1/8"	13/32"
810-8-8-8-6	1/2"	3/8"	1 15/32"	17/32"
810-10-10-10-8	5/8"	1/2"	1 21/32"	1 15/32"
810-12-12-12-12	3/4"	3/4"	1 27/32"	1 19/32"
810-14-14-14-12	7/8"	3/4"	1 15/16"	1 5/8"
810-16-16-16-16	1"	1"	2 7/32"	1 31/32"
810-20-20-20-20	1 1/4"	1 1/4"	2 19/32"	2 3/8"
810-24-24-24-24	1 1/2"	1 1/2"	2 29/32"	2 5/8"
810-32-32-32-32	2"	2"	3 19/32"	3"

"O-RING SEAL"

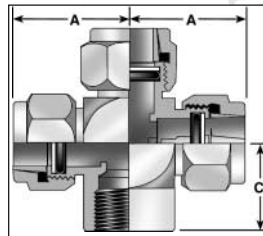
T A P E R E D P I P E T H R E A D

"O-RING SEAL"

820 • Female Cross

Part No.	Tube O.D.	Female Pipe Thread	"A" (Tube Leg)	"C" Female Pipe Leg
820-4-4-4-2	1/4"	1/8"	1 1/16"	2 1/32"
820-5-5-5-2	5/16"	1/8"	1 1/32"	2 1/32"
820-6-6-6-4	3/8"	1/4"	1 1/4"	2 9/32"
820-8-8-8-6	1/2"	3/8"	1 7/32"	3 1/32"
820-10-10-10-8	5/8"	1/2"	1 23/32"	1 1/4"
820-12-12-12-12	3/4"	3/4"	1 31/32"	1 11/32"
820-14-14-14-12	7/8"	3/4"	2"	1 11/32"
820-16-16-16-16	1"	1"	2 11/32"	1 5/8"
820-20-20-20-20	1 1/4"	1 1/4"	2 25/32"	1 11/16"
820-24-24-24-24	1 1/2"	1 1/2"	3 3/32"	2 1/16"
820-32-32-32-32	2"	2"	3 25/32"	2 3/8"

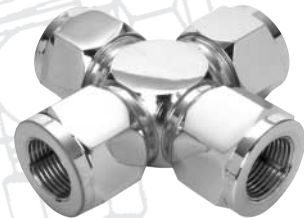
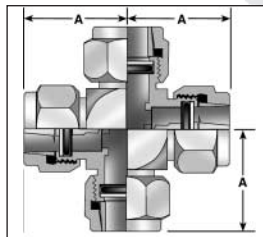
820 FEMALE CROSS • TUBE END - TUBE END - TUBE END - FEMALE PIPE END



850 • Tube Cross

Part No.	Tube O.D.	"A" (Tube Leg)
850-4	1/4"	1"
850-5	5/16"	1 1/32"
850-6	3/8"	1 1/8"
850-8	1/2"	1 15/32"
850-10	5/8"	1 21/32"
850-12	3/4"	1 27/32"
850-14	7/8"	1 15/16"
850-16	1"	2 7/32"
850-20	1 1/4"	2 19/32"
850-24	1 1/2"	2 29/32"
850-32	2"	3 19/32"

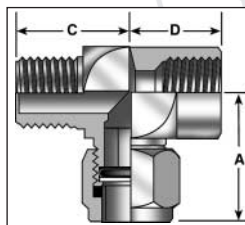
850 TUBE CROSS TUBE END - ALL OPENINGS



860 • Gauge Tee

Part No.	Tube O.D.	Male & Female Pipe Thread	"A" (Tube Leg)	"C" (Male Pipe Leg)	"D" Female Pipe Leg
860-4-2-2	1/4"	1/8"	1 1/16"	2 5/32"	2 1/32"
860-6-4-4	3/8"	1/4"	1 1/4"	1 3/32"	2 9/32"
860-8-6-6	1/2"	3/8"	1 17/32"	1 7/32"	3 1/32"
860-10-8-8	5/8"	1/2"	1 23/32"	1 15/32"	1 1/4"
860-12-12-12	3/4"	3/4"	1 31/32"	1 15/32"	1 11/32"
860-14-12-12	7/8"	3/4"	2"	1 5/8"	1 11/32"
860-16-16-16	1"	1"	2 11/32"	1 31/32"	1 5/8"

860 GAUGE TEE • FEMALE PIPE END - MALE PIPE END - TUBE SIDE OUTLET

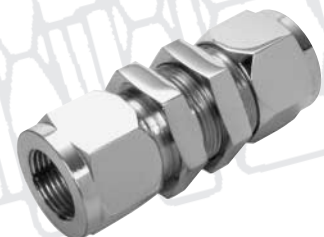
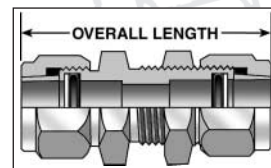


Particularly suited for gauge & air bleeder valve connections

900 • Bulkhead Union

Part No.	Tube O.D.	Bulkhead Hole Dia.	Overall Length
900-4-4	1/4"	17/32"	2 7/16"
900-5-5	5/16"	19/32"	2 7/16"
900-6-6	3/8"	21/32"	2 5/8"
900-8-8	1/2"	23/32"	3 5/32"
900-10-10	5/8"	1 1/32"	3 1/2"
900-10-8	5/8" to 1/2" BH	29/32"	3 9/32"
900-12-12	3/4"	1 5/32"	3 13/16"
900-14-14	7/8"	1 9/32"	3 7/8"
900-16-16	1"	1 17/32"	4 1/8"
900-20-20	1 1/4"	1 25/32"	4 5/8"
900-20-16	1 1/4" to 1" BH	1 17/32"	4 13/32"
900-24-24	1 1/2"	2 1/32"	4 7/8"
900-32-32	2"	2 21/32"	5 3/4"

900 BULKHEAD UNION • TUBE BOTH ENDS



Maximum Bulkhead Thickness 1/2"

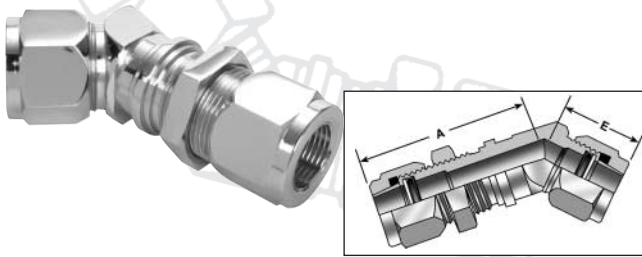
Stainless Steel Tubing

Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves. When Ordering Lenz Fittings in all Stainless Steel Add SS To The Part Number. Example: 100-12-12-SS

"O-RING SEAL"

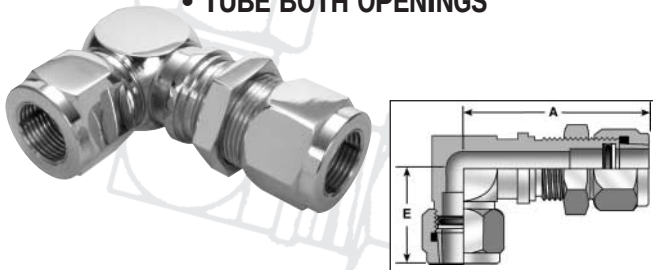
T A P E R E D P I P E T H R E A D

940 BULKHEAD 45° UNION ELBOW TUBE BOTH OPENINGS



Max. Bulkhead Thickness 1/2"

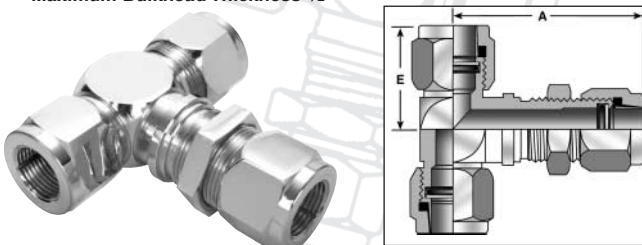
950 BULKHEAD UNION ELBOW • TUBE BOTH OPENINGS



Max. Bulkhead Thickness 1/2"

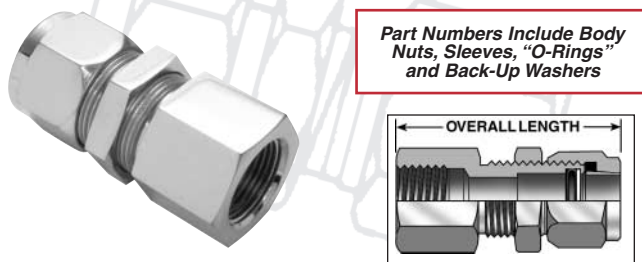
960 BULKHEAD TEE TUBE END ALL OPENINGS

Maximum Bulkhead Thickness 1/2"



Example of Part No.: 960-12 for 3/4" O.D. Tubing

980 FEMALE BULKHEAD TUBE END TO FEMALE PIPE END



Maximum Bulkhead Thickness 1/2"

Part Numbers Include Body Nuts, Sleeves, "O-Rings" and Back-Up Washers

940 • Bulkhead 45° Union Elbow

Part No.	Tube O.D.	Blkhd. Hole Dia.	"A" (Blkhd. Leg)	"E" (Tube Leg)
940-4	1/4"	17/32"	21/8"	29/32"
940-5	5/16"	19/32"	25/32"	7/8"
940-6	3/8"	21/32"	29/32"	1"
940-8	1/2"	29/32"	219/32"	17/32"
940-10	5/8"	11/32"	227/32"	17/16"
940-12	3/4"	15/32"	33/32"	119/32"
940-16	1"	117/32"	39/32"	113/16"
940-20	1 1/4"	125/32"	323/32"	27/32"

950 • Bulkhead Union Elbow

Part No.	Tube O.D.	Blkhd. Hole Dia.	"A" (Blkhd. Leg)	"E" (Tube Leg)
950-4	1/4"	17/32"	25/32"	1"
950-5	5/16"	19/32"	27/32"	11/32"
950-6	3/8"	21/32"	213/32"	11/8"
950-8	1/2"	29/32"	23/4"	115/32"
950-10	5/8"	11/32"	33/32"	121/32"
950-12	3/4"	15/32"	311/32"	127/32"
950-14	7/8"	19/32"	37/16"	115/16"
950-16	1"	117/32"	33/4"	27/32"
950-20	1 1/4"	125/32"	43/16"	219/32"
950-24	1 1/2"	21/32"	415/32"	229/32"

960 • Bulkhead Tee

Part No.	Tube O.D.	Blkhd. Hole Dia.	"A" (Blkhd. Leg)	"E" (Tube Leg)
960-4	1/4"	17/32"	25/32"	1"
960-5	5/16"	19/32"	27/32"	11/32"
960-6	3/8"	21/32"	213/32"	11/8"
960-8	1/2"	29/32"	23/4"	115/32"
960-10	5/8"	11/32"	33/32"	121/32"
960-12	3/4"	15/32"	311/32"	127/32"
960-16	1"	117/32"	33/4"	27/32"
960-20	1 1/4"	125/32"	43/16"	219/32"

980 • Female Bulkhead Connector

Part No.	Tube O.D.	Blkhd. Hole Dia.	Female Pipe Thread	Overall Length
980-4-2	1/4"	17/32"	1/8"	23/32"
980-4-4	1/4"	17/32"	1/4"	21/4"
980-5-2	5/16"	19/32"	1/8"	23/32"
980-6-4	3/8"	21/32"	1/4"	23/8"
980-6-6	3/8"	21/32"	3/8"	23/8"
980-8-6	1/2"	29/32"	3/8"	211/16"
980-8-8	1/2"	29/32"	1/2"	27/8"
980-10-8	5/8"	11/32"	1/2"	31/32"
980-12-12	3/4"	15/32"	3/4"	39/32"
980-14-12	7/8"	19/32"	3/4"	35/16"
980-16-16	1"	117/32"	1"	311/16"
980-20-20	1 1/4"	125/32"	1 1/4"	315/16"
980-24-24	1 1/2"	21/32"	1 1/2"	41/16"
980-32-32	2"	221/32"	2"	417/32"

Note: When Ordering Lenz Fittings In Stainless Steel Add -SS To The Part Number. Example: 100-12SS

Stainless Steel Tubing

Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves. When Ordering Lenz Fittings in all Stainless Steel Add SS To The Part Number. Example: 100-12-12-SS

"O-RING SEAL"

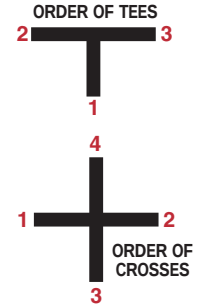
T A P E R E D P I P E T H R E A D

LENZ SPECIAL SHAPES

How To Order-Bodies Only: Change the last number of part number from 0 to 5. Example: 760 Assembly becomes 765 Cross Body.

Crosses-Indicate part number followed by the tube end size FIRST then the other ends in the order shown in the diagram.

Tees-Indicate part number, specify size of tube end FIRST, opposite end SECOND and side outlet THIRD. If there are two tube outlets, specify largest size FIRST. If both female and male outlet on the run, show female size FIRST. This would apply to our 860 tees.



Note: When Ordering Lenz Fittings In Stainless Steel Add-SS To The Part Number. Example: 100-12SS

The Lenz Special Shapes shown here are available in standard and special sizes. Only items priced in current supplementary price list are carried in stock. Price and delivery on non-stocked items furnished on request and will depend on the quantity ordered. No quantity is too small for us to handle. We invite your inquiries. See pages 30 and 31 for size and information on fitting outlets.

All Lenz Fittings Conform to J.I.C. Hydraulic Standards

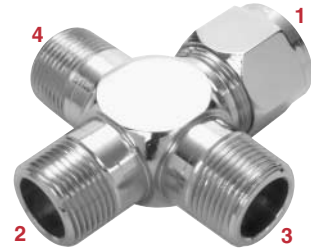
760 • Cross
Tube End-Tube End-
Male Pipe End-
Male Pipe End



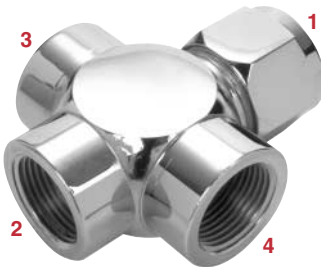
770 • Cross
Tube End-Tube End-
Female Pipe End-
Female Pipe End



780 • Cross
Tube End-Male Pipe End-
Male Pipe End-
Male Pipe End



790 • Cross
Tube End-Female Pipe End-
Female Pipe End-
Female Pipe End



870 • Tee
Male Pipe End-
Male Pipe End-
Tube Side Outlet



880 • Tee
Tube End-
Female Pipe End-
Male Pipe Side Outlet



890 • Tee
Tube End-
Male Pipe End-
Male Pipe Side Outlet



910 • Tee
Tube End-
Male Pipe End-
Female Pipe Side Outlet



920 • Tee
Female Pipe End-
Female Pipe End-
Tube Side Outlet



930 • Tee
Tube End-
Female Pipe End-
Female Pipe Side Outlet



990 • Male Bulkhead
Tube End-
Male Pipe End



Maximum Bulkhead
Thickness 1/2"

Note: Only items in current supplementary price list are carried in stock. Price and delivery of non-stock items furnished on request and will depend on quantity ordered.

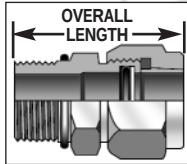
LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>

"O-RING SEAL"

"O-RING SEAL"

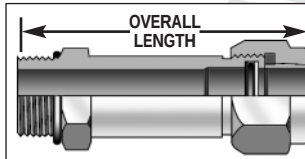
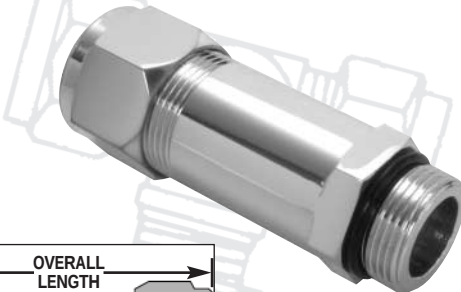
S T R A I G H T T H R E A D S

A-100 MALE CONNECTOR • TUBE END- S.A.E. STRAIGHT THREAD END



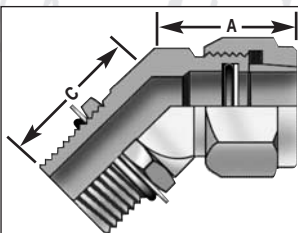
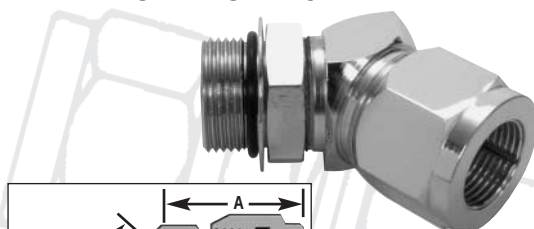
*Part Numbers
Include Body
Nuts, Sleeves,
"O-Rings" And
Back-Up Washers*

A-100-L LONG MALE CONNECTOR • TUBE END S.A.E. STRAIGHT THREAD END



**Fittings with Tube Diameter Bored Through*

A-350 MALE 45° ELBOW TUBE END S.A.E. STRAIGHT THREAD END



A-100 • Male Connector

Part No.	Tube O.D.	Straight Thread	Overall Length
A100-2-2*	1/8"	5/16"-24	1 1/32
A100-4-4	1/4"	7/16"-20	1 9/32"
A100-4-5*	1/4"	1/2"-20	1 9/32"
A100-4-6*	1/4"	9/16"-18	1 11/32"
A100-5-5	5/16"	1/2"-20	1 9/32"
A100-6-6	3/8"	9/16"-18	1 13/32"
A100-6-8*	3/8"	3/4"-16	1 15/32"
A100-8-8	1/2"	3/4"-16	1 11/16"
A100-8-6	1/2"	9/16"-18	1 21/32"
A100-8-10*	1/2"	7/8"-14	1 25/32"
A100-8-12*	1/2"	1 1/16"-12	1 15/16"
A100-10-10	5/8"	7/8"-14	1 15/16"
A100-10-8	5/8"	3/4"-16	1 7/8"
A100-10-12*	5/8"	1 1/16"-12	2 3/32"
A100-12-12	3/4"	1 1/16"-12	2 7/32"
A100-12-8	3/4"	3/4"-16	2"
A100-12-10	3/4"	7/8"-14	2 1/8"
A100-12-14*	3/4"	1 3/16"-12	2 7/32"
A100-12-16*	3/4"	1 5/16"-12	2 7/32"
A100-14-14	7/8"	1 3/16"-12	2 1/4"
A100-14-16*	7/8"	1 5/16"-12	2 1/4"
A100-16-16	1"	1 5/16"-12	2 3/8"
A100-16-12	1"	1 1/16"-12	2 3/8"
A100-16-20*	1"	1 5/8"-12	2 3/8"
A100-20-20	1 1/4"	1 5/8"-12	2 5/8"
A100-20-16	1 1/4"	1 5/16"-12	2 11/16"
A100-20-24*	1 1/4"	1 7/8"-12	2 5/8"
A100-24-24	1 1/2"	1 7/8"-12	2 3/4"
A100-24-20	1 1/2"	1 5/8"-12	2 25/32"
A100-32-32	2"	2 1/2"-12	3 5/32"

A-100L • Long Male Connector

Part No.	Tube O.D.	Straight Thread	Overall Length
A100L-2-2	1/8"	5/16"-24	2 1/32"
A100L-4-4	1/4"	7/16"-20	2 1/4"
A100L-5-5	5/16"	1/2"-20	2 5/16"
A100L-6-6	3/8"	9/16"-18	2 19/32"
A100L-8-8	1/2"	3/4"-16	3 1/32"
A100L-10-10	5/8"	7/8"-14	3 15/32"
A100L-12-12	3/4"	1 1/16"-12	4 1/32"
A100L-14-14	7/8"	1 3/16"-12	4 7/32"
A100L-16-16	1"	1 5/16"-12	4 15/32"
A100L-20-20	1 1/4"	1 5/8"-12	5 7/32"
A100L-24-24	1 1/2"	1 7/8"-12	5 3/4"
A100L-32-32	2"	2 1/2"-12	6 31/32"

A-350 • Male 45° Elbow

Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"C" (Straight Thread Leg)
A350-4	1/4"	7/16"-20	2 9/32"	1 1/32"
A350-5	5/16"	1/2"-20	7/8"	1 1/32"
A350-6	3/8"	9/16"-18	1"	1 3/32"
A350-8	1/2"	3/4"-16	1 3/16"	1 9/32"
A350-10	5/8"	7/8"-14	1 7/16"	1 1/2"
A350-12	3/4"	1 1/16"-12	1 19/32"	1 23/32"
A350-14	7/8"	1 3/16"-12	1 17/32"	1 25/32"
A350-16	1"	1 5/16"-12	1 13/16"	1 27/32"
A350-20	1 1/4"	1 5/8"-12	2 7/32"	1 7/8"
A350-24	1 1/2"	1 7/8"-12	2 13/32"	1 7/8"
A350-32	2"	2 1/2"-12	2 15/16"	1 7/8"

Stainless Steel Tubing

Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves. When Ordering Lenz Fittings in all Stainless Steel Add SS To The Part Number. Example: 100-12-12-SS

"O-RING SEAL"

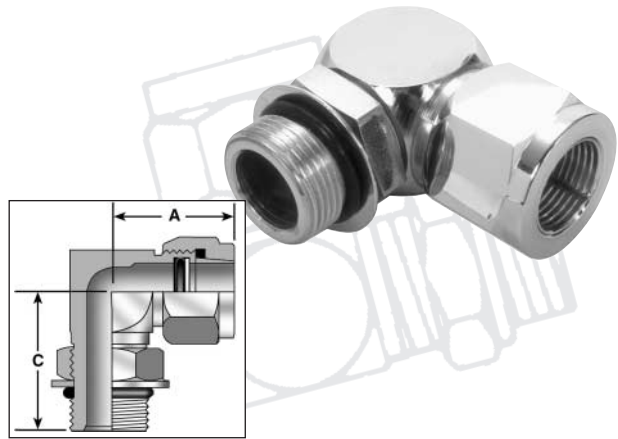
S T R A I G H T T H R E A D S

"O-RING SEAL"

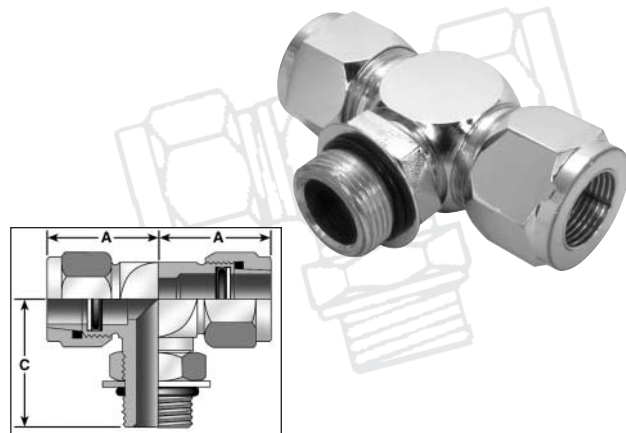
A-400 • Male Elbow

Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"C" (Straight Thread Leg)
A400-4-4	1/4"	7/16"-20	1"	1 1/64"
A400-4-6	1/4"	9/16"-18	1 1/16"	1 15/64"
A400-5-5	5/16"	1/2"-20	1 1/32"	1 5/64"
A400-6-6	3/8"	9/16"-18	1 1/8"	1 15/64"
A400-6-8	3/8"	3/4"-16	1 9/16"	1 7/16"
A400-8-8	1/2"	3/4"-16	1 15/32"	1 7/16"
A400-8-6	1/2"	9/16"-18	1 15/32"	1 23/64"
A400-8-10	1/2"	7/8"-14	1 15/32"	1 21/32"
A400-10-10	5/8"	7/8"-14	1 21/32"	1 11/16"
A400-10-8	5/8"	3/4"-16	1 21/32"	1 1/2"
A400-10-12	5/8"	1 1/16"-12	1 23/32"	1 59/64"
A400-12-12	3/4"	1 1/16"-12	1 27/32"	1 59/64"
A400-12-8	3/4"	3/4"-16	1 27/32"	1 9/16"
A400-12-10	3/4"	7/8"-14	1 27/32"	1 25/32"
A400-12-16	3/4"	1 5/16"-12	2 1/16"	2 1/32"
A400-14-14	7/8"	1 3/16"-12	1 15/16"	1 63/64"
A400-16-16	1"	1 5/16"-12	2 7/32"	2 1/32"
A400-16-12	1"	1 1/16"-12	2 7/32"	2 3/32"
A400-16-20	1"	1 5/8"-12	2 11/32"	2 15/64"
A400-20-20	1 1/4"	1 5/8"-12	2 19/32"	2 15/64"
A400-20-16	1 1/4"	1 5/16"-12	2 19/32"	2 5/32"
A400-20-24	1 1/4"	1 7/8"-12	2 23/32"	2 3/8"
A400-24-24	1 1/2"	1 7/8"-12	2 29/32"	2 3/8"
A400-32-32	2"	2 1/2"-12	3 19/32"	2 7/8"

A-400 MALE ELBOW • TUBE END S.A.E. STRAIGHT THREAD END



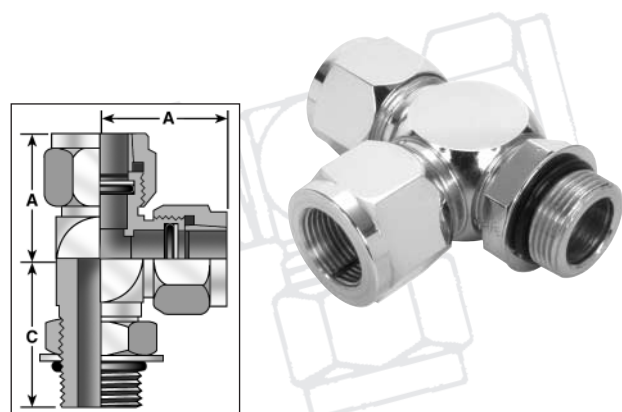
A-600 MALE BRANCH TEE - TUBE END-TUBE END- S.A.E. STRAIGHT THREAD SIDE OUTLET



A-600 • Male Branch Tee

Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"C" (Straight Thread Leg)
A600-4	1/4"	7/16"-20	1"	1 1/64"
A600-5	5/16"	1/2"-20	1 1/32"	1 5/64"
A600-6	3/8"	9/16"-18	1 1/8"	1 15/64"
A600-8	1/2"	3/4"-16	1 15/32"	1 7/16"
A600-10	5/8"	7/8"-14	1 21/32"	1 11/16"
A600-12	3/4"	1 1/16"-12	1 27/32"	1 59/64"
A600-14	7/8"	1 3/16"-12	1 15/16"	1 63/64"
A600-16	1"	1 5/16"-12	2 7/32"	2 1/32"
A600-20	1 1/4"	1 5/8"-12	2 19/32"	2 15/64"
A600-24	1 1/2"	1 7/8"-12	2 29/32"	2 3/8"
A600-32	2"	2 1/2"-12	3 19/32"	2 7/8"

A-750 MALE RUN TEE • TUBE END - S.A.E. STRAIGHT THREAD END-TUBE SIDE OUTLET



A-750 • Male Run Tee

Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"C" (Straight Thread Leg)
A750-4	1/4"	7/16"-20	1"	1 1/64"
A750-5	5/16"	1/2"-20	1 1/32"	1 5/64"
A750-6	3/8"	9/16"-18	1 1/8"	1 15/64"
A750-8	1/2"	3/4"-16	1 15/32"	1 7/16"
A750-10	5/8"	7/8"-14	1 21/32"	1 11/16"
A750-12	3/4"	1 1/16"-12	1 27/32"	1 59/64"
A750-14	7/8"	1 3/16"-12	1 15/16"	1 63/64"
A750-16	1"	1 5/16"-12	2 7/32"	2 1/32"
A750-20	1 1/4"	1 5/8"-12	2 19/32"	2 15/64"
A750-24	1 1/2"	1 7/8"-12	2 29/32"	2 3/8"
A750-32	2"	2 1/2"-12	3 19/32"	2 7/8"

"O-RING SEAL"

S T R A I G H T T H R E A D S

COMPONENTS FOR "O-RING SEAL" FITTINGS

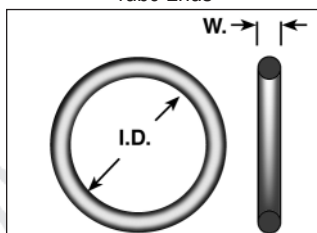
Lenz Standard 185 "O-Rings" are supplied with all Lenz "O-Ring Seal" fittings unless otherwise specified. They are of Buna N Base Compound for use with Hydraulic Fluids, Lubricating Oils, Mil-O-5606, Ucon, Hydrolube, Mercury, Brine, Water, Glycol, Anti-Freeze Mixtures, Alcohol, Nyvac 20 & 30, Gasoline, Houghton Safe 600 Series and Air. Temperature range of Buna "N" is -40° F to +250° F, Viton "A" from -20° F to +400° F.

Lenz 185-L "O-Rings" are of Ethylene Propylene for use in phosphate base ester fluids such as Lyndol, Pydraul, Skydrol, Cellulube 90, 150, 300, 550 and 1000. Nyvac-Extra Heavy, Nyvac A, Houghton Safe 1000 Series. Oxygen and Acetone. Temperature range -65° F to +300° F.

185 O-RING FOR LENZ "O-RING SEAL" TUBE ENDS

"O-Ring" Compounds, such as Viton (185V) and (185T) and Teflon are available for fluids not listed.

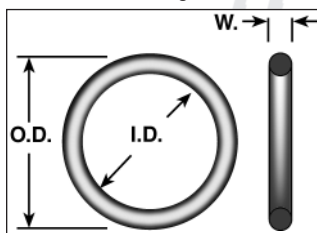
185 "O-Ring" For Lenz "O-Ring Seal" Tube Ends



A-185 "O-RINGS" FOR MALE S.A.E. STRAIGHT TH'D FITTING ENDS

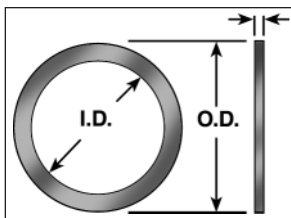
Lenz A-185 and A-185L "O-Rings" are for Straight Thread Fittings and have the same applications as 185 and 185-L as listed above.

A-185 & A-185L "O-Rings"



175 ANTI-EXTRUSION TEFLON BACK-UP WASHERS

In the exclusive, patented design of Lenz "O-Ring Seal" Tube fittings, the Teflon Back-Up Washer prevents extrusion of the O-Ring and adds to the performance and service of the fittings. See page vii of this catalog for proper installation of these washers.



185 • O-Ring for Lenz "O-Ring Seal" Tube Ends

Part No.	Tube O.D.	Nominal Dimensions		
		O.D.	I.D.	Width
185-2	1/8"	1/4"	1/8"	1/16"
185-4	1/4"	3/8"	1/4"	1/16"
185-5	5/16"	7/16"	5/16"	1/16"
185-6	3/8"	1/2"	3/8"	1/16"
185-8	1/2"	11/16"	1/2"	3/32"
185-10	5/8"	13/16"	5/8"	3/32"
185-12	3/4"	15/16"	3/4"	3/32"
185-14	7/8"	1 1/16"	7/8"	3/32"
185-16	1"	1 1/4"	1"	1/8"
185-20	1 1/4"	1 1/2"	1 1/4"	1/8"
185-24	1 1/2"	1 3/4"	1 1/2"	1/8"
185-32	2"	2 1/4"	2"	1/8"

Note: Add "L" To Above Part Numbers For 185-L "O-Rings"

A-185 • "O-Rings" For Male S.A.E. Straight Th'D Fitting Ends

Part No.	Tube O.D.	Nominal Dimensions		Straight Thread
		I.D.	Width	
A185-2	1/8"	.239"	.064"	5/16"-24
A185-4	1/4"	.351"	.072"	7/16"-20
A185-5	5/16"	.414"	.072"	1/2"-20
A185-6	3/8"	.468"	.078"	9/16"-18
A185-8	1/2"	.644"	.087"	3/4"-16
A185-10	5/8"	.755"	.097"	7/8"-14
A185-12	3/4"	.924"	.116"	1 1/16"-12
A185-14	7/8"	1.048"	.116"	1 3/16"-12
A185-16	1"	1.171"	.116"	1 5/16"-12
A185-20	1 1/4"	1.475"	.118"	1 5/8"-12
A185-24	1 1/2"	1.720"	.118"	1 7/8"-12
A185-32	2"	2.337"	.118"	2 1/2"-12

Note: Add "L" To Above Part Numbers For 185-L "O-Rings"

175 • Anti-Extrusion Teflon Back-Up Washers

Part No.	Tube O.D.	I.D.	O.D.	Width
175-6	3/8"	3/8"	1/2"	1/32"
175-8	1/2"	1/2"	11/16"	1/32"
175-10	5/8"	5/8"	13/16"	1/32"
175-12	3/4"	3/4"	15/16"	1/32"
175-14	7/8"	7/8"	1 1/16"	1/32"
175-16	1"	1"	1 1/4"	1/32"
175-20	1 1/4"	1 1/4"	1 1/2"	1/32"
175-24	1 1/2"	1 1/2"	1 3/4"	1/32"
175-32	2"	2"	2 1/4"	1/32"

"O-RING SEAL"

COMPONENTS & ACCESSORIES

205 • Tube Nut Used With 165 Sleeve

Part No.	Tube O.D.	Thread Size	Hex Size	Overall Length
205-2	1/8"	3/8"-24	1/2"	15/32"
205-4	1/4"	1/2"-20	5/8"	41/64"
205-5	5/16"	9/16"-18	11/16"	41/64"
205-6	3/8"	5/8"-18	3/4"	11/16"
205-8	1/2"	7/8"-14	1"	29/32"
205-10	5/8"	1"-14	1 1/8"	1"
205-12	3/4"	1 1/8"-12	1 1/4"	13/32"
205-14	7/8"	1 1/4"-12	1 3/8"	1 1/8"
205-16	1"	1 1/2"-12	1 5/8"	1 1/4"
205-20	1 1/4"	1 3/4"-12	2"	17/16"
205-24	1 1/2"	2"-12	2 1/4"	1 5/8"
205-32	2"	2 5/8"-12	3"	2 1/32"

205 TUBE NUT USED WITH 165 SLEEVE



165 • Split Ring Used With 205 Nut

Part No.	Tube O.D.	Length
165-2	1/8"	1/4"
165-4	1/4"	5/16"
165-5	5/16"	5/16"
165-6	3/8"	5/16"
165-8*	1/2"	15/32"
165-10*	5/8"	17/32"
165-12*	3/4"	9/16"
165-14*	7/8"	19/32"
165-16*	1"	21/32"
165-20*	1 1/4"	25/32"
165-24*	1 1/2"	29/32"
165-32*	2"	1 1/8"

165 SPLIT RING USED WITH 205 NUT **Sleeves having flange at large end*



Specify Stainless Sleeves when using Stainless Tubing.

208 • Lenz "O-Ring" Bulkhead Lock Nut

Part No.	Tube O.D.	Thread Size	Hex Size	Overall Length
208-4	1/4"	1/2"-20	3/4"	1/4"
208-5	5/16"	9/16"-18	13/16"	17/64"
208-6	3/8"	5/8"-18	7/8"	9/32"
208-8	1/2"	7/8"-14	1 1/8"	23/64"
208-10	5/8"	1"-14	1 1/4"	3/8"
208-12	3/4"	1 1/8"-12	1 3/8"	13/32"
208-14	7/8"	1 1/4"-12	1 1/2"	13/32"
208-16	1"	1 1/2"-12	1 3/4"	13/32"
208-20	1 1/4"	1 3/4"-12	2"	13/32"
208-24	1 1/2"	2"-12	2 1/4"	13/32"
208-32	2"	2 5/8"-12	2 7/8"	13/32"

208 LENZ "O-RING" BULKHEAD LOCK NUT



100C • Tube Cap Used To Cap Tubing

Part No.	Tube O.D.	Length
100C-4	1/4"	15/16"
100C-5	5/16"	15/16"
100C-6	3/8"	1 1/32"
100C-8	1/2"	15/16"
100C-10	5/8"	17/16"
100C-12	3/4"	1 19/32"
100C-14	7/8"	1 21/32"
100C-16	1"	1 13/16"
100C-20	1 1/4"	2 3/32"
100C-24	1 1/2"	2 5/16"
100C-32	2"	2 25/32"

100C TUBE CAP USED TO CAP TUBING



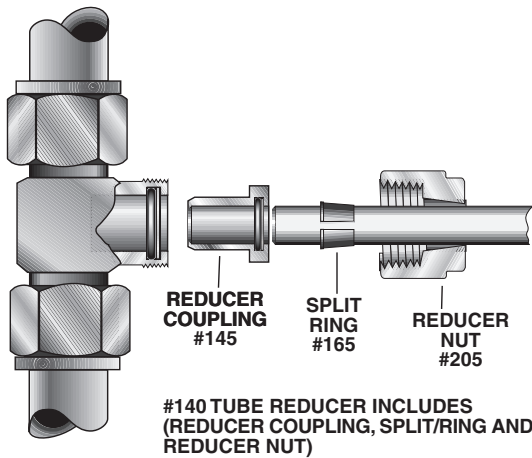
Note: When Ordering Lenz Fittings In Stainless Steel Add -SS To The Part Number. Example: 100-12-12SS

LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>

"O-RING SEAL"

C O M P O N E N T S & A C C E S S O R I E S

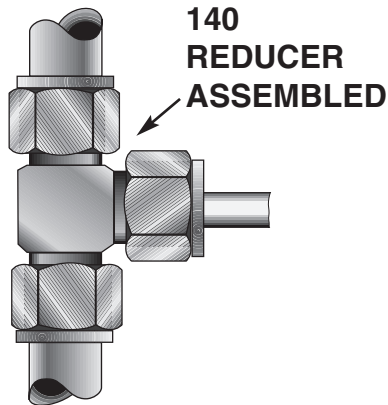
140 "O-RING SEAL" TUBE REDUCER ADAPTERS



**Compact!
Saves Time! Simplifies
Systems! Eliminates
Large Inventories Of
Special Fittings**

The Lenz exclusive Tube Reducer Adapter makes possible line reductions on any leg by the use of standard adapters and adapter nuts.

Note: When reducer is ordered as part of a fitting, credit will be given for the standard nut and tube sleeve which are replaced by the reducer nut and reducer tube sleeve.



140 • "O-RING SEAL" TUBE REDUCER ADAPTERS

Part No.	Tube End Reduction	Nut Hex	Increase In Fitting Length
140-6-4	3/8"-1/4"	3/4"	9/32"
140-6-5	3/8"-5/16"	3/4"	9/32"
140-8-4	1/2"-1/4"	1"	No Change
140-8-5	1/2"-5/16"	1"	3/16"
140-8-6	1/2"-3/8"	1"	3/16"
140-10-4	5/8"-1/4"	1 1/8"	1/16" Shorter
140-10-5	5/8"-5/16"	1 1/8"	1/16" Shorter
140-10-6	5/8"-3/8"	1 1/8"	1/16" Shorter
140-10-8	5/8"-1/2"	1 1/8"	5/16"
140-12-4	3/4"-1/4"	1 1/4"	1/16" Shorter
140-12-5	3/4"-5/16"	1 1/4"	1/16" Shorter
140-12-6	3/4"-3/8"	1 1/4"	1/16" Shorter
140-12-8	3/4"-1/2"	1 1/4"	9/32"
140-12-10	3/4"-5/8"	1 1/4"	11/32"
140-14-6	7/8"-3/8"	1 3/8"	3/32" Shorter
140-14-8	7/8"-1/2"	1 3/8"	1/32"
140-14-10	7/8"-5/8"	1 3/8"	5/16"
140-14-12	7/8"-3/4"	1 3/8"	11/32"
140-16-6	1"-3/8"	1 5/8"	3/16" Shorter
140-16-8	1"-1/2"	1 5/8"	1/16" Shorter
140-16-10	1"-5/8"	1 5/8"	No Change
140-16-12	1"-3/4"	1 5/8"	1/4"
140-16-14	1"-7/8"	1 5/8"	9/32"
140-20-6	1 1/4"-3/8"	2"	5/16" Shorter
140-20-8	1 1/4"-1/2"	2"	3/16" Shorter
140-20-10	1 1/4"-5/8"	2"	1/8" Shorter
140-20-12	1 1/4"-3/4"	2"	3/32" Shorter
140-20-14	1 1/4"-7/8"	2"	1/16" Shorter
140-20-16	1 1/4"-1"	2"	11/32"
140-24-8	1 1/2"-1/2"	2 1/4"	5/16" Shorter
140-24-10	1 1/2"-5/8"	2 1/4"	1/4" Shorter
140-24-12	1 1/2"-3/4"	2 1/4"	7/32" Shorter
140-24-14	1 1/2"-7/8"	2 1/4"	3/16" Shorter
140-24-16	1 1/2"-1"	2 1/4"	3/32" Shorter
140-24-20	1 1/2"-1 1/4"	2 1/4"	11/32"
140-32-8	2"-1/2"	3"	1/2" Shorter
140-32-10	2"-5/8"	3"	7/16" Shorter
140-32-12	2"-3/4"	3"	13/32" Shorter
140-32-14	2"-7/8"	3"	3/8" Shorter
140-32-16	2"-1"	3"	5/16" Shorter
140-32-20	2"-1 1/4"	3"	3/16" Shorter
140-32-24	2"-1 1/2"	3"	1/16" Shorter

205P PLUG TO PLUG O-RING FITTING END USED WITH 205 NUT



205P Plug • To Plug O-Ring Fitting End Used With 205 Nut

Part No.	Tube O.D.	Length
205P-2	1/8"	25/64"
205P-4	1/4"	1/2"
205P-5	5/16"	1/2"
205P-6	3/8"	9/16"
205P-8	1/2"	9/16"
205P-10	5/8"	9/16"
205P-12	3/4"	19/32"
205P-14	7/8"	19/32"
205P-16	1"	23/32"
205P-20	1 1/4"	23/32"
205P-24	1 1/2"	27/32"
205P-32	2"	7/8"

TUBE FITTING

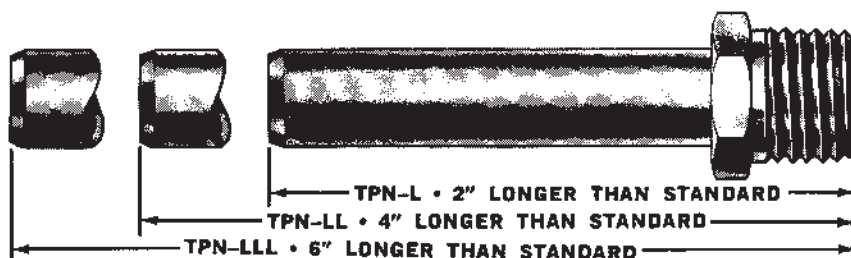
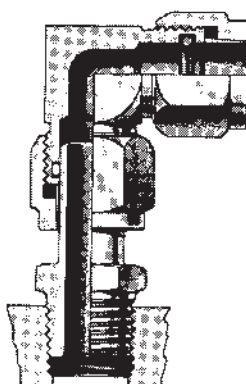
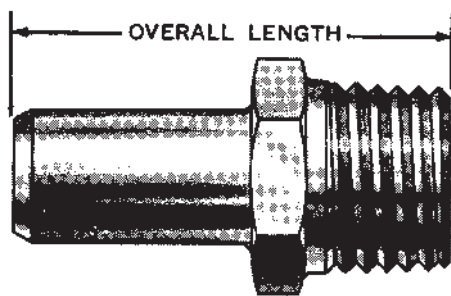
N I P P L E S A N D A D A P T E R S

TPN • Standard Sizes

Part No.	Tube O.D.	Male Pipe Thread	Overall Length
4TPN	1/4"	1/8"	15/8"
5TPN	5/16"	1/8"	15/8"
6TPN	3/8"	1/4"	129/32"
8TPN	1/2"	3/8"	25/32"
10TPN	5/8"	1/2"	27/16"
12TPN	3/4"	3/4"	29/16"
14TPN	7/8"	3/4"	29/16"
16TPN	1"	1"	215/16"
20TPN	1 1/4"	1 1/4"	39/32"
24TPN	1 1/2"	1 1/2"	35/8"
32TPN	2"	2"	47/32"

Other size combinations available.

TPN STD Length
TPN-L Long Length
TPN-LL X-Long
TNP-LLL X-L-Long



Lenz TPN's, TAN's and TFN's Permit Easy Positioning In Any Direction

TPN TUBE-PIPE NIPPLES



TPN's, TAN's and TFN's are used with elbows or tees for easy positioning in any desired direction including up and down. Shown to the left is a TPN with a 500 series elbow. For other practical uses of these fittings see page 35.

*TAN and TFN Nipples are also available in Long, Extra Long and Extra Long-Long lengths on special order.

LONG, EXTRA LONG & EXTRA LONG-LONG TPN

When ordering be certain to specify L, LL or LLL by adding to standard part numbers in table above. Refer to drawing shown below to determine your length requirements.



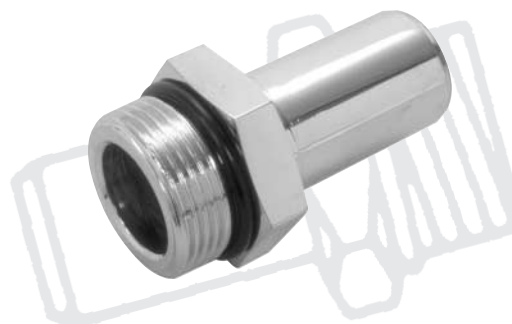
Example of L, LL, and LLL Part Numbers-
Where a 12TPN with an overall length of 6 9/16" is desired, request 12TPN-LL (4" longer than standard 2 9/16")

TAN* • Standard Sizes

Part No.	Tube O.D.	Straight Thread	Overall Length
4TAN	1/4"	7/16"-20	15/8"
5TAN	5/16"	1/2"-20	15/8"
6TAN	3/8"	9/16"-18	13/4"
8TAN	1/2"	3/4"-16	21/32"
10TAN	5/8"	7/8"-14	23/16"
12TAN	3/4"	1 1/16"-12	215/32"
14TAN	7/8"	1 3/16"-12	21/2"
16TAN	1"	1 5/16"-12	221/32"
20TAN	1 1/4"	1 5/8"-12	229/32"
24TAN	1 1/2"	1 7/8"-12	33/16"
32TAN	2"	2 1/2"-12	323/32"

TAN* TUBE- "A" NIPPLES

For Use With SAE Straight Thread Fittings



Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves. When Ordering Lenz Fittings in all Stainless Steel Add SS To The Part Number. Example: 100-12-12-SS

TUBE FITTING

NIPPLES AND ADAPTERS

TFN*

TUBE-FLARE NIPPLES

For Use with 37 J.I.C. Swivel Flare Hose or Tube Fittings



TFN* • Standard Sizes

Part No.	Tube O.D.	J.I.C. Thread	Overall Length
4TFN	1/4"	7/16"-20	1 ²⁵ / ₃₂ "
5TFN	5/16"	1/2"-20	1 ¹³ / ₁₆ "
6TFN	3/8"	9/16"-18	1 ²⁹ / ₃₂ "
8TFN	1/2"	3/4"-16	2 ¹ / ₄ "
10TFN	5/8"	7/8"-14	2 ¹⁵ / ₃₂ "
12TFN	3/4"	1 1/16"-12	2 ²⁵ / ₃₂ "
14TFN	7/8"	1 3/16"-12	2 ¹³ / ₁₆ "
16TFN	1"	1 5/16"-12	2 ¹⁵ / ₁₆ "
20TFN	1 1/4"	1 5/8"-12	3 ⁹ / ₃₂ "
24TFN	1 1/2"	1 7/8"-12	3 ²⁵ / ₃₂ "

LENZ 100-F

STRAIGHT ADAPTER

Lenz "O-Ring Seal" Tube End To J.I.C. Thread

An exclusive Lenz Adapter Fitting, offering many unusual time-saving applications. Especially useful in making swivel hose end connections to tube outlets, utilizing the patented features of "O-Ring Seal" on the tube end.



Lenz 100-F • Straight Adapter

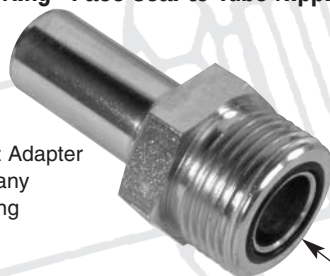
Part No.	Tube O.D.	J.I.C. Thread	Overall Length
100-4-F4	1/4"	7/16"-20	1 1/2"
100-5-F5	5/16"	1/2"-20	1 1/2"
100-6-F6	3/8"	9/16"-18	1 19/32"
100-8-F8	1/2"	3/4"-16	1 15/16"
100-10-F10	5/8"	7/8"-14	2 11/64"
100-12-F12	3/4"	1 1/16"-12	2 7/16"
100-14-F14	7/8"	1 3/16"-12	2 1/2"
100-16-F16	1"	1 5/16"-12	2 23/32"
100-20-F20	1 1/4"	1 5/8"-12	3"
100-24-F24	1 1/2"	1 7/8"-12	3 13/32"
100-32-F32	2"	2 1/2"-12	4 5/32"

OFTN

TUBE O-RING FACE NIPPLES

"O-Ring" Face Seal to Tube Nipple

An exclusive Lenz Adapter Fitting, offering many unusual time-saving applications.



"O-Ring" Face

OFTN • Tube O-Ring Face Nipples

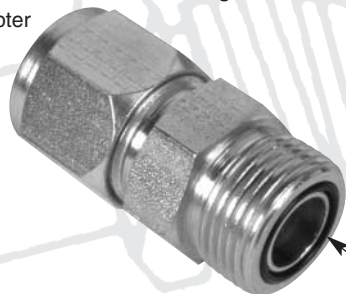
Part No.	Tube O.D.	J.I.C. Thread	Overall Length
4OFTN	1/4"	9/16"-18	1 39/64"
6OFTN	3/8"	1 1/16"-16	1 13/16"
8OFTN	1/2"	1 3/16"-16	2 1/8"
10OFTN	5/8"	1"-14	2 3/16"
12OFTN	3/4"	1 13/16"-12	2 9/16"
16OFTN	1"	1 7/16"-12	2 3/4"
20OFTN	1 1/4"	1 11/16"-12	3"
24OFTN	1 1/2"	2"-12	3 9/32"

100-OF

STRAIGHT ADAPTERS

"O-Ring Seal" Tube End To O-Ring Face Seal

An exclusive Lenz Adapter Fitting, offering many unusual time-saving applications.



"O-Ring" Face

100-OF • Straight Adapters

Part No.	Tube O.D.	J.I.C. Thread	Overall Length
100-4OF-4	1/4"	9/16"-18	1 25/64"
100-6OF-6	3/8"	1 1/16"-16	1 33/64"
100-8OF-8	1/2"	1 3/16"-16	1 29/32"
100-12OF-12	3/4"	1 3/16"-12	2 29/64"
100-16OF-16	1"	1 7/16"-12	2 33/64"
100-20OF-20	1 1/4"	1 11/16"-12	2 13/16"
100-24OF-24	1 1/2"	2"-12	3 1/32"

37° FLARE TUBE FITTINGS

T A P E R E D P I P E T H R E A D S

HOW TO ORDER 3-PIECE FLARE TUBE FITTING ASSEMBLIES

For complete 3 piece assemblies as shown use the part number shown in the tables. For body only, change the last number preceding the dash of part number from 0 to 5.
Example: 3100-12 Male Connector Assembly becomes 3105-12 for Male Connector Body only. See "How to Order" inside front cover of this catalog.
Note: When Ordering Lenz Fittings in Stainless Steel Add-SS to the Part Number. Example: 3105-12-12SS

3105 / 3100 • Male Connector

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Male Pipe Thread	Overall Length
3105-2-2	3100-2-2	1/8"	1/8"	1 13/32"
3105-3-2	3100-3-2	3/16"	1/8"	1 1/2"
3105-4-2	3100-4-2	1/4"	1/8"	1 9/16"
3105-4-4	3100-4-4	1/4"	1/4"	1 25/32"
3105-4-6	3100-4-6	1/4"	3/8"	1 13/16"
3105-5-2	3100-5-2	5/16"	1/8"	1 5/8"
3105-5-4	3100-5-4	5/16"	1/4"	1 13/16"
3105-6-4	3100-6-4	3/8"	1/4"	1 29/32"
3105-6-2	3100-6-2	3/8"	1/8"	1 23/32"
3105-6-6	3100-6-6	3/8"	3/8"	1 29/32"
3105-6-8	3100-6-8	3/8"	1/2"	2 3/32"
3105-8-6	3100-8-6	1/2"	3/8"	2 1/16"
3105-8-4	3100-8-4	1/2"	1/4"	2 1/16"
3105-8-8	3100-8-8	1/2"	1/2"	2 9/32"
3105-8-12	3100-8-12	1/2"	3/4"	2 9/32"
3105-10-8	3100-10-8	5/8"	1/2"	2 17/32"
3105-10-6	3100-10-6	5/8"	3/8"	2 11/32"
3105-10-12	3100-10-12	5/8"	3/4"	2 9/16"
3105-12-12	3100-12-12	3/4"	3/4"	2 21/32"
3105-12-6	3100-12-6	3/4"	3/8"	2 15/32"
3105-12-8	3100-12-8	3/4"	1/2"	2 21/32"
3105-12-16	3100-12-16	3/4"	1"	2 27/32"
3105-14-12	3100-14-12	7/8"	3/4"	2 13/16"
3105-14-16	3100-14-16	7/8"	1"	3"
3105-16-16	3100-16-16	1"	1"	3 1/16"
3105-16-12	3100-16-12	1"	3/4"	2 7/8"
3105-16-20	3100-16-20	1"	1 1/4"	3 5/32"
3105-20-20	3100-20-20	1 1/4"	1 1/4"	3 5/16"
3105-20-16	3100-20-16	1 1/4"	1"	3 9/32"
3105-20-24	3100-20-24	1 1/4"	1 1/2"	3 11/32"
3105-24-24	3100-24-24	1 1/2"	1 1/2"	3 25/32"
3105-24-20	3100-24-20	1 1/2"	1 1/4"	3 3/4"
3105-32-32	3100-32-32	2"	2"	4 1/4"
3105-32-24	3100-32-24	2"	1 1/2"	4 3/16"

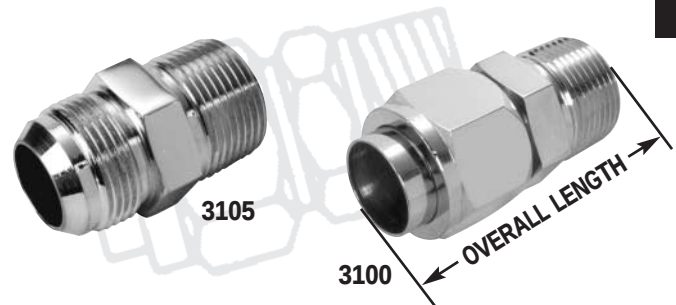
3105-L / 3100-L • Long Male Connector

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Male Pipe Thread	Overall Length
3105L-4-2	3100L-4-2	1/4"	1/8"	2 3/16"
3105L-5-2	3100L-5-2	5/16"	1/8"	2 11/32"
3105L-6-4	3100L-6-4	3/8"	1/4"	2 23/32"
3105L-8-6	3100L-8-6	1/2"	3/8"	3 9/32"
3105L-10-8	3100L-10-8	5/8"	1/2"	3 3/4"
3105L-12-12	3100L-12-12	3/4"	3/4"	4 3/32"
3105L-14-12	3100L-14-12	7/8"	3/4"	4 15/32"
3105L-16-16	3100L-16-16	1"	1"	4 25/32"
3105L-20-20	3100L-20-20	1 1/4"	1 1/4"	5 11/32"

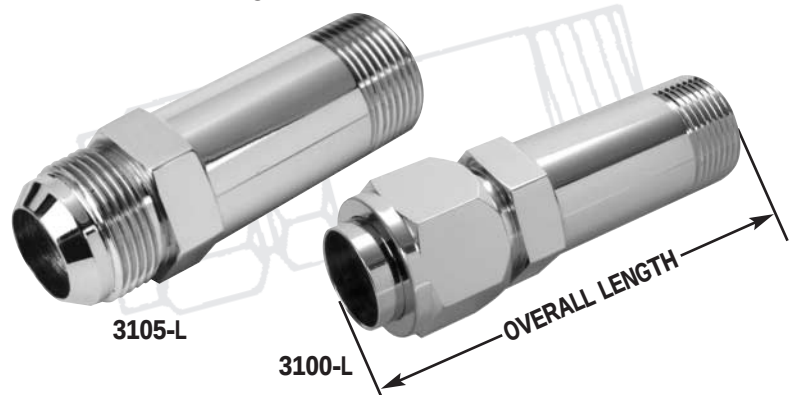
3105-LL / 3100-LL • Extra Long Male Connector

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Male Pipe Thread	Overall Length
3105LL-4-2	3100LL-4-2	1/4"	1/8"	2 15/16"
3105LL-5-2	3100LL-5-2	5/16"	1/8"	3 7/32"
3105LL-6-4	3100LL-6-4	3/8"	1/4"	3 23/32"
3105LL-8-6	3100LL-8-6	1/2"	3/8"	4 17/32"
3105LL-10-8	3100LL-10-8	5/8"	1/2"	5"
3105LL-12-12	3100LL-12-12	3/4"	3/4"	5 19/32"
3105LL-14-12	3100LL-14-12	7/8"	3/4"	6 3/32"
3105LL-16-16	3100LL-16-16	1"	1"	6 17/32"
3105LL-20-20	3100LL-20-20	1 1/4"	1 1/4"	7 11/32"

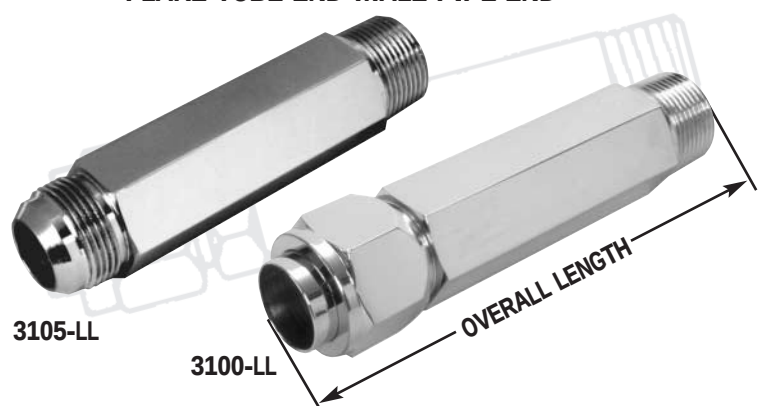
3105 / 3100 MALE CONNECTOR FLARE TUBE END- MALE PIPE END



3105-L / 3100-L LONG MALE CONNECTOR FLARE TUBE END-MALE PIPE END



3105-LL / 3100-LL EXTRA LONG MALE CONNECTOR FLARE TUBE END-MALE PIPE END

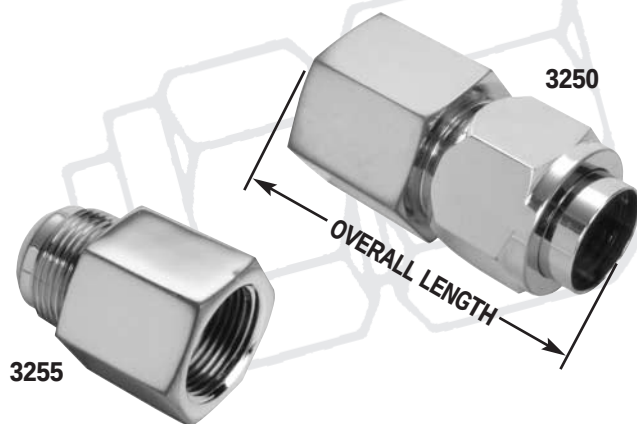


37° FLARE TUBE FITTINGS

T A P E R E D P I P E T H R E A D

3255 / 3250

FEMALE CONNECTOR-FLARE TUBE END-
FEMALE PIPE END

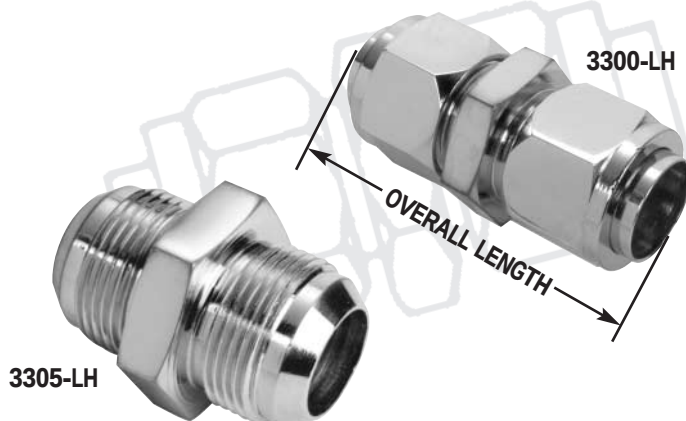


3255 / 3250 • Female Connector

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Female Pipe Thread	Overall Length
3255-2-2	3250-2-2	1/8"	1/8"	1 13/32"
3255-3-2	3250-3-2	3/16"	1/8"	1 7/16"
3255-4-2	3250-4-2	1/4"	1/8"	1 9/16"
3255-4-4	3250-4-4	1/4"	1/4"	1 3/4"
3255-5-2	3250-5-2	5/16"	1/8"	1 19/32"
3255-5-4	3250-5-4	5/16"	1/4"	1 3/4"
3255-6-4	3250-6-4	3/8"	1/4"	1 25/32"
3255-6-2	3250-6-2	3/8"	1/8"	1 21/32"
3255-6-6	3250-6-6	3/8"	3/8"	1 7/8"
3255-8-6	3250-8-6	1/2"	3/8"	2 1/16"
3255-8-4	3250-8-4	1/2"	1/4"	2 1/16"
3255-8-8	3250-8-8	1/2"	1/2"	2 9/32"
3255-10-8	3250-10-8	5/8"	1/2"	2 7/16"
3255-10-6	3250-10-6	5/8"	3/8"	2 1/4"
3255-12-12	3250-12-12	3/4"	3/4"	2 19/32"
3255-12-8	3250-12-8	3/4"	1/2"	2 17/32"
3255-14-12	3250-14-12	7/8"	3/4"	2 23/32"
3255-16-16	3250-16-16	1"	1"	3"
3255-16-12	3250-16-12	1"	3/4"	2 13/16"
3255-20-20	3250-20-20	1 1/4"	1 1/4"	3 3/16"
3255-24-24	3250-24-24	1 1/2"	1 1/2"	3 17/32"
3255-32-32	3250-32-32	2"	2"	3 29/32"

3305-LH / 3300-LH

LARGE HEX UNION
FLARE TUBE END-FLARE TUBE END

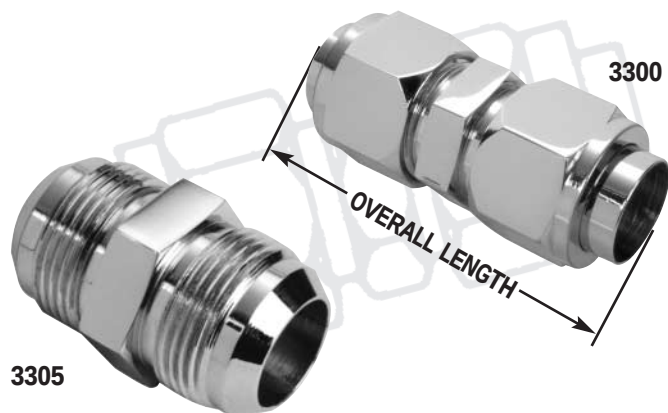


3305-LH / 3300-LH • Large Hex Union

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Body Hex	Overall Length
3305LH-4	3300LH-4	1/4"	1 1/16"	2 1/8"
3305LH-5	3300LH-5	5/16"	3/4"	2 3/16"
3305LH-6	3300LH-6	3/8"	13/16"	2 11/32"
3305LH-8	3300LH-8	1/2"	1"	2 11/16"
3305LH-10	3300LH-10	5/8"	1 1/8"	3 3/16"
3305LH-12	3300LH-12	3/4"	1 3/8"	3 3/8"
3305LH-16	3300LH-16	1"	1 5/8"	3 25/32"
3305LH-20	3300LH-20	1 1/4"	1 7/8"	4 1/8"

3305 / 3300

UNION FLARE TUBE END-
FLARE TUBE END



3305 / 3300 • Union

Body Only Part No.	Complete Assem. Part No.	Tube O.D. Part No.	Overall Length
3305-4-4	3300-4-4	1/4"	2 1/8"
3305-5-5	3300-5-5	5/16"	2 3/16"
3305-6-6	3300-6-6	3/8"	2 11/32"
3305-8-8	3300-8-8	1/2"	2 11/16"
3305-10-10	3300-10-10	5/8"	3 3/16"
3305-12-12	3300-12-12	3/4"	3 3/8"
3305-14-14	3300-14-14	7/8"	3 5/8"
3305-16-16	3300-16-16	1"	3 25/32"
3305-20-20	3300-20-20	1 1/4"	4 1/8"
3305-24-24	3300-24-24	1 1/2"	4 15/16"
3305-32-32	3300-32-32	2"	5 5/8"

37° FLARE TUBE FITTINGS

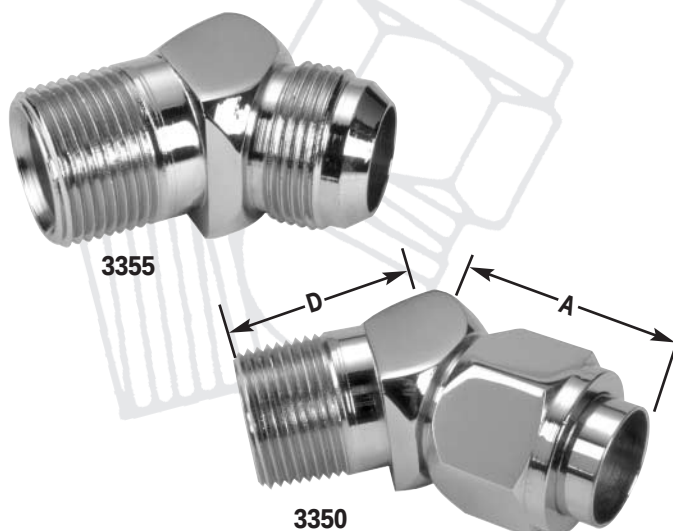
T A P E R E D P I P E T H R E A D

3355 / 3350 • Male 45° Elbow

Body Only Part No.	Complete Assembly Part No.	Tube O.D.	Male Pipe Thread	"A" Tube Leg	"D" Male Pipe Leg
3355-2-2	3350-2-2	1/8"	1/8"	31/32"	17/32"
3355-3-2	3350-3-2	3/16"	1/8"	11/32"	17/32"
3355-4-2	3350-4-2	1/4"	1/8"	13/32"	5/8"
3355-4-4	3350-4-4	1/4"	1/4"	15/32"	27/32"
3355-5-2	3350-5-2	5/16"	1/8"	15/32"	5/8"
3355-5-4	3350-5-4	5/16"	1/4"	17/32"	27/32"
3355-6-4	3350-6-4	3/8"	1/4"	19/32"	27/32"
3355-6-2	3350-6-2	3/8"	1/8"	19/32"	11/16"
3355-6-6	3350-6-6	3/8"	3/8"	13/8"	15/16"
3355-6-8	3350-6-8	3/8"	1/2"	11/2"	15/32"
3355-8-6	3350-8-6	1/2"	3/8"	11/2"	15/16"
3355-8-4	3350-8-4	1/2"	1/4"	11/2"	15/16"
3355-8-8	3350-8-8	1/2"	1/2"	19/16"	15/32"
3355-8-12	3350-8-12	1/2"	3/4"	15/32"	13/16"
3355-10-8	3350-10-8	5/8"	1/2"	123/32"	15/32"
3355-10-6	3350-10-6	5/8"	3/8"	123/32"	31/32"
3355-10-12	3350-10-12	5/8"	3/4"	125/32"	13/16"
3355-12-12	3350-12-12	3/4"	3/4"	17/8"	13/16"
3355-12-8	3350-12-8	3/4"	1/2"	17/8"	17/32"
3355-14-12	3350-14-12	7/8"	3/4"	23/32"	11/4"
3355-16-16	3350-16-16	1"	1"	27/32"	115/32"
3355-16-12	3350-16-12	1"	3/4"	27/32"	11/4"
3355-20-20	3350-20-20	1 1/4"	1 1/4"	27/16"	121/32"
3355-24-24	3350-24-24	1 1/2"	1 1/2"	27/8"	13/4"
3355-32-32	3350-32-32	2"	2"	311/32"	23/32"

3355 / 3350 MALE 45° ELBOW FLARE TUBE END-MALE PIPE END

Example of Part No.: 3350-12 for 3/4" O.D. Tubing

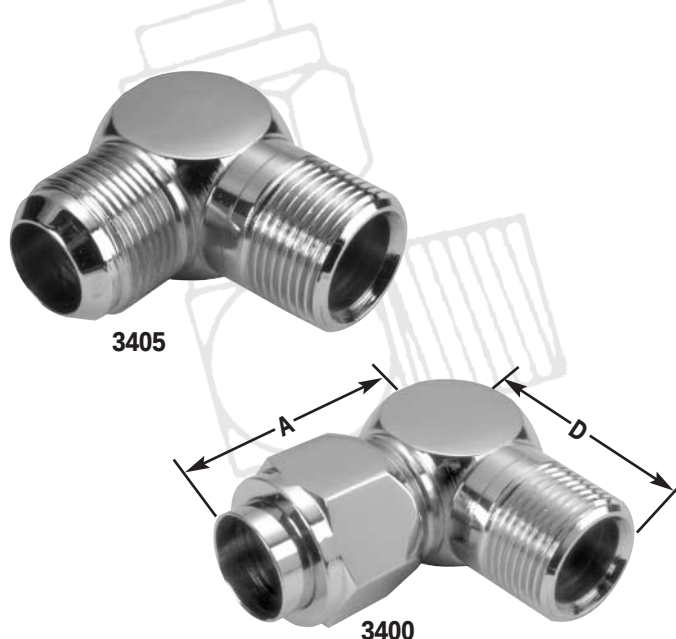


3405 / 3400 • Male Elbow

Body Only Part No.	Complete Assembly Part No.	Tube O.D.	Male Pipe Thread	"A" Tube Leg	"D" Male Pipe Leg
3405-2-2	3400-2-2	1/8"	1/8"	13/32"	23/32"
3405-3-2	3400-3-2	3/16"	1/8"	15/32"	23/32"
3405-4-2	3400-4-2	1/4"	1/8"	19/32"	25/32"
3405-4-4	3400-4-4	1/4"	1/4"	113/32"	13/32"
3405-4-6	3400-4-6	1/4"	3/8"	115/32"	17/32"
3405-5-2	3400-5-2	5/16"	1/8"	13/8"	25/32"
3405-5-4	3400-5-4	5/16"	1/4"	17/16"	13/32"
3405-6-4	3400-6-4	3/8"	1/4"	117/32"	13/32"
3405-6-2	3400-6-2	3/8"	1/8"	117/32"	7/8"
3405-6-6	3400-6-6	3/8"	3/8"	121/32"	17/32"
3405-6-8	3400-6-8	3/8"	1/2"	123/32"	115/32"
3405-8-6	3400-8-6	1/2"	3/8"	125/32"	17/32"
3405-8-4	3400-8-4	1/2"	1/4"	125/32"	15/32"
3405-8-8	3400-8-8	1/2"	1/2"	115/16"	115/32"
3405-8-12	3400-8-12	1/2"	3/4"	21/32"	19/16"
3405-10-8	3400-10-8	5/8"	1/2"	23/32"	115/32"
3405-10-6	3400-10-6	5/8"	3/8"	23/32"	13/8"
3405-10-12	3400-10-12	5/8"	3/4"	27/32"	119/32"
3405-12-12	3400-12-12	3/4"	3/4"	21/4"	119/32"
3405-12-8	3400-12-8	3/4"	1/2"	21/4"	19/16"
3405-12-16	3400-12-16	3/4"	1"	27/16"	131/32"
3405-14-12	3400-14-12	7/8"	3/4"	27/16"	111/16"
3405-16-16	3400-16-16	1"	1"	219/32"	131/32"
3405-16-12	3400-16-12	1"	3/4"	219/32"	123/32"
3405-16-20	3400-16-20	1"	1 1/4"	215/16"	23/8"
3405-20-20	3400-20-20	1 1/4"	1 1/4"	229/32"	23/8"
3405-20-16	3400-20-16	1 1/4"	1"	229/32"	23/8"
3405-20-24	3400-20-24	1 1/4"	1 1/2"	31/32"	25/8"
3405-24-24	3400-24-24	1 1/2"	1 1/2"	37/16"	25/8"
3405-24-20	3400-24-20	1 1/2"	1 1/4"	37/16"	25/8"
3405-32-32	3400-32-32	2"	2"	43/16"	3"
3405-32-24	3400-32-24	2"	1 1/2"	43/16"	3"

3405 / 3400 MALE ELBOW FLARE TUBE END-MALE PIPE END

Example of Part No.: 3400-12 for 3/4" O.D. Tubing



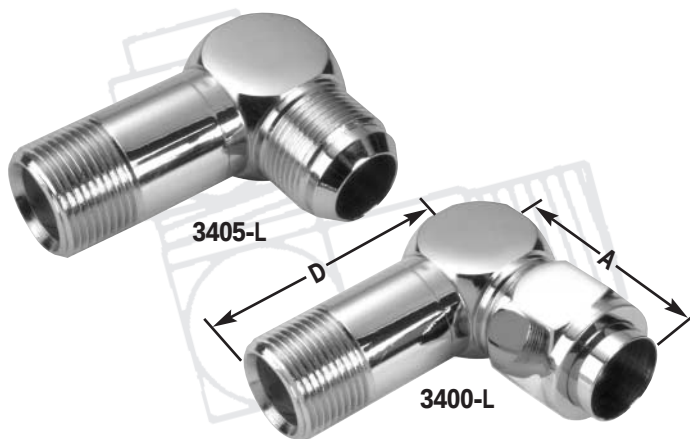
For body only, change the last number preceding the dash of part number from 0 to 5. Example: 3100-12-12 becomes 3105-12-12.

LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>

37° FLARE TUBE FITTINGS

T A P E R E D P I P E T H R E A D

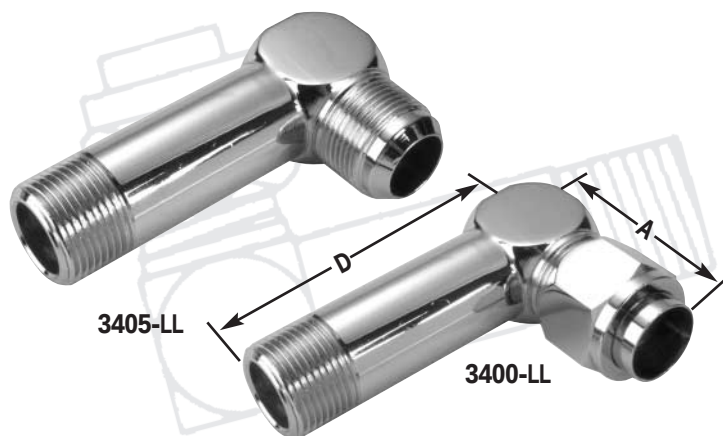
3405-L / 3400-L LONG MALE ELBOW FLARE TUBE END-MALE PIPE END



3405-L / 3400-L • Long Male Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"D" (Male Pipe Leg)
3405L-4-2	3400L-4-2	1/4"	1/8"	19/32"	13/16"
3405L-4-4	3400L-4-4	1/4"	1/4"	1 13/32"	1 21/32"
3405L-5-2	3400L-5-2	5/16"	1/8"	1 3/8"	1 7/32"
3405L-5-4	3400L-5-4	5/16"	1/4"	1 7/16"	1 21/32"
3405L-6-4	3400L-6-4	3/8"	1/4"	1 17/32"	1 21/32"
3405L-6-6	3400L-6-6	3/8"	3/8"	1 21/32"	1 13/16"
3405L-8-6	3400L-8-6	1/2"	3/8"	1 25/32"	1 13/16"
3405L-8-8	3400L-8-8	1/2"	1/2"	1 15/16"	2 7/32"
3405L-8-12	3400L-8-12	1/2"	3/4"	2 1/32"	2 15/32"
3405L-10-8	3400L-10-8	5/8"	1/2"	2 3/32"	2 7/32"
3405L-12-12	3400L-12-12	3/4"	3/4"	2 1/4"	2 15/32"
3405L-14-12	3400L-14-12	7/8"	3/4"	2 7/16"	2 3/4"
3405L-16-16	3400L-16-16	1"	1"	2 19/32"	3 1/16"
3405L-20-20	3400L-20-20	1 1/4"	1 1/4"	2 29/32"	3 19/32"

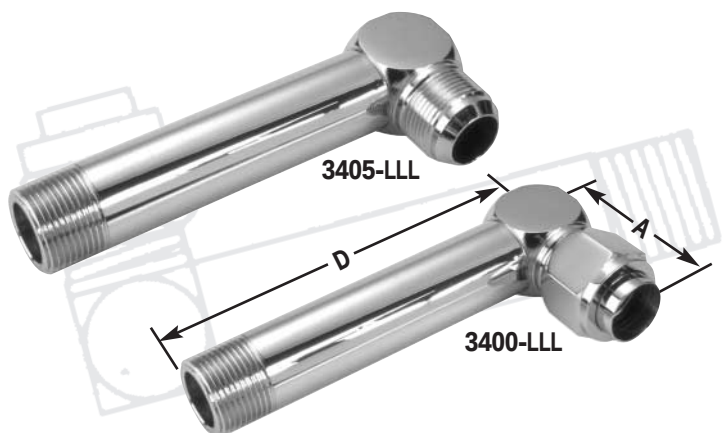
3405-LL / 3400-LL EXTRA LONG MALE ELBOW FLARE TUBE END-MALE PIPE END



3405-LL / 3400-LL • Long Male Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"D" (Male Pipe Leg)
3405LL-4-2	3400LL-4-2	1/4"	1/8"	19/32"	1 9/32"
3405LL-4-4	3400LL-4-4	1/4"	1/4"	1 13/32"	2 1/8"
3405LL-5-2	3400LL-5-2	5/16"	1/8"	1 3/8"	1 21/32"
3405LL-5-4	3400LL-5-4	5/16"	1/4"	1 7/16"	2 1/8"
3405LL-6-4	3400LL-6-4	3/8"	1/4"	1 17/32"	2 1/8"
3405LL-6-6	3400LL-6-6	3/8"	3/8"	1 21/32"	2 13/32"
3405LL-8-6	3400LL-8-6	1/2"	3/8"	1 25/32"	2 13/32"
3405LL-8-8	3400LL-8-8	1/2"	1/2"	1 15/16"	2 7/8"
3405LL-10-8	3400LL-10-8	5/8"	1/2"	2 3/32"	2 7/8"
3405LL-12-12	3400LL-12-12	3/4"	3/4"	2 1/4"	3 5/32"
3405LL-14-12	3400LL-14-12	7/8"	3/4"	2 7/16"	3 3/8"
3405LL-16-16	3400LL-16-16	1"	1"	2 19/32"	4 1/8"
3405LL-20-20	3400LL-20-20	1 1/4"	1 1/4"	2 29/32"	4 13/16"

3405-LLL / 3400-LLL EXTRA LONG-LONG MALE ELBOW FLARE TUBE END-MALE PIPE END



3405-LLL / 3400-LLL • Long Male Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"D" (Male Pipe Leg)
3405LLL-4-2	3400LLL-4-2	1/4"	1/8"	19/32"	2 7/16"
3405LLL-5-2	3400LLL-5-2	5/16"	1/8"	1 3/8"	2 15/32"
3405LLL-6-4	3400LLL-6-4	3/8"	1/4"	1 17/32"	3 5/32"
3405LLL-8-6	3400LLL-8-6	1/2"	3/8"	1 25/32"	3 19/32"
3405LLL-10-8	3400LLL-10-8	5/8"	1/2"	2 3/32"	4 5/16"
3405LLL-12-12	3400LLL-12-12	3/4"	3/4"	2 1/4"	4 23/32"
3405LLL-14-12	3400LLL-14-12	7/8"	3/4"	2 7/16"	5 1/16"
3405LLL-16-16	3400LLL-16-16	1"	1"	2 19/32"	6 5/16"
3405LLL-20-20	3400LLL-20-20	1 1/4"	1 1/4"	2 29/32"	7 1/4"

Note: 3400LL Elbows Will Turn Above 3400 Elbows and 3400-LLL Elbows Will Turn Above 3400-LL Elbows.

For body only, change the last number preceding the dash of part number from 0 to 5. Example: 3100-12-12 becomes 3105-12-12.

37° FLARE TUBE FITTINGS

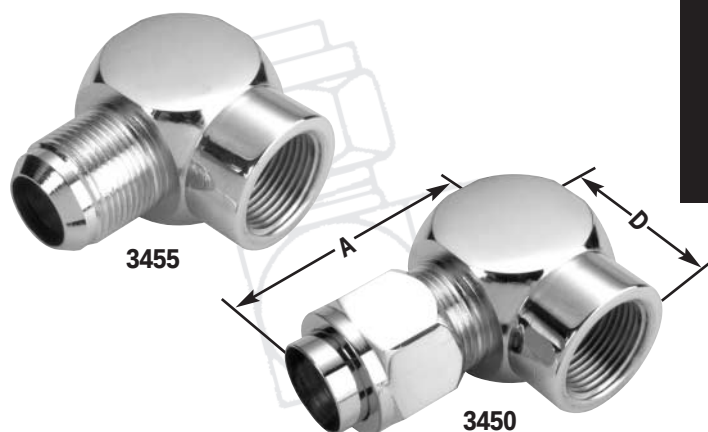
T A P E R E D P I P E T H R E A D

37° FLARE TUBE FITTINGS

3455 / 3450 • Female Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Female Pipe Thread	"A" (Tube Leg)	"D" (Female Pipe Leg)
3455-4-2	3450-4-2	1/4"	1/8"	17/16"	21/32"
3455-4-4	3450-4-4	1/4"	1/4"	19/16"	29/32"
3455-5-2	3450-5-2	5/16"	1/8"	115/32"	21/32"
3455-5-4	3450-5-4	5/16"	1/4"	119/32"	29/32"
3455-6-4	3450-6-4	3/8"	1/4"	111/16"	29/32"
3455-6-2	3450-6-2	3/8"	1/8"	117/32"	21/32"
3455-6-6	3450-6-6	3/8"	3/8"	125/32"	1"
3455-8-6	3450-8-6	1/2"	3/8"	115/16"	1"
3455-8-4	3450-8-4	1/2"	1/4"	127/32"	29/32"
3455-8-8	3450-8-8	1/2"	1/2"	131/32"	11/4"
3455-10-8	3450-10-8	5/8"	1/2"	21/4"	11/4"
3455-10-6	3450-10-6	5/8"	3/8"	25/32"	1"
3455-12-12	3450-12-12	3/4"	3/4"	215/32"	111/32"
3455-12-8	3450-12-8	3/4"	1/2"	21/4"	11/4"
3455-14-12	3450-14-12	7/8"	3/4"	29/16"	111/32"
3455-16-16	3450-16-16	1"	1"	215/16"	15/8"
3455-16-12	3450-16-12	1"	3/4"	219/32"	111/32"
3455-20-20	3450-20-20	1 1/4"	1 1/4"	35/32"	111/16"
3455-20-16	3450-20-16	1 1/4"	1"	229/32"	15/8"
3455-24-24	3450-24-24	1 1/2"	1 1/2"	331/32"	21/16"
3455-32-32	3450-32-32	2"	2"	413/32"	23/8"

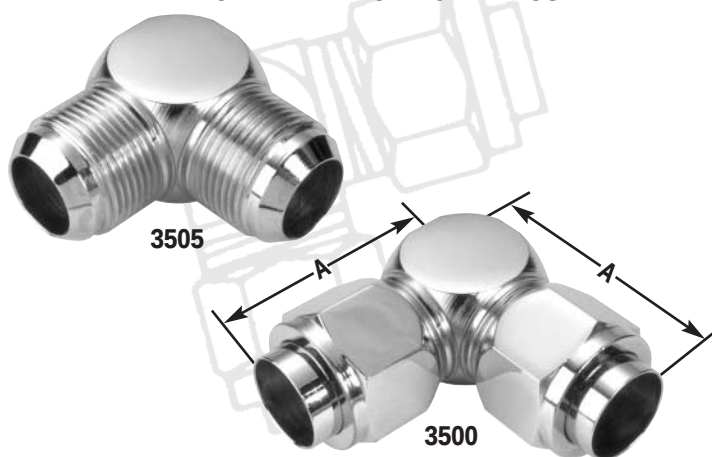
3455 / 3450 FEMALE ELBOW FLARE TUBE END - FEMALE PIPE END



3505 / 3500 • Elbow Union

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	"A" (Tube Leg)
3505-4	3500-4	1/4"	19/32"
3505-5	3500-5	5/16"	13/8"
3505-6	3500-6	3/8"	117/32"
3505-8	3500-8	1/2"	125/32"
3505-10	3500-10	5/8"	23/32"
3505-12	3500-12	3/4"	21/4"
3505-14	3500-14	7/8"	27/16"
3505-16	3500-16	1"	219/32"
3505-20	3500-20	1 1/4"	229/32"
3505-24	3500-24	1 1/2"	37/16"
3505-32	3500-32	2"	43/16"

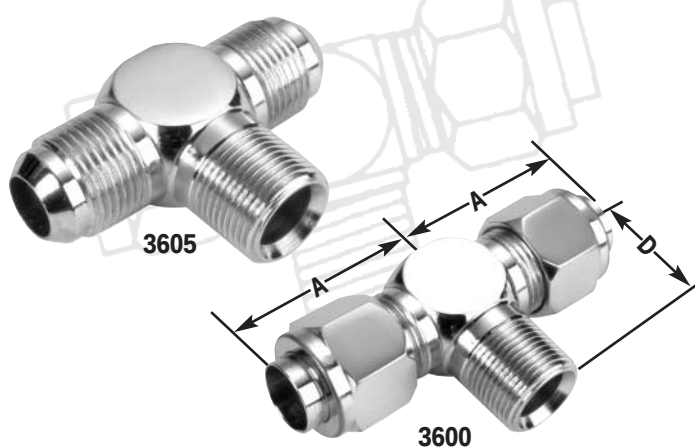
3505 / 3500 ELBOW UNION FLARE TUBE END - BOTH OPENINGS



3605 / 3600 • Male Branch Tee

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"D" (Male Pipe Leg)
3605-4-4-2	3600-4-4-2	1/4"	1/8"	19/32"	25/32"
3605-4-4-4	3600-4-4-4	1/4"	1/4"	113/32"	13/32"
3605-5-5-2	3600-5-5-2	5/16"	1/8"	13/8"	25/32"
3605-5-5-4	3600-5-5-4	5/16"	1/4"	17/16"	13/32"
3605-6-6-4	3600-6-6-4	3/8"	1/4"	117/32"	13/32"
3605-6-6-2	3600-6-6-2	3/8"	1/8"	117/32"	7/8"
3605-6-6-6	3600-6-6-6	3/8"	3/8"	121/32"	17/32"
3605-6-6-8	3600-6-6-8	3/8"	1/2"	123/32"	115/32"
3605-8-8-6	3600-8-8-6	1/2"	3/8"	125/32"	17/32"
3605-8-8-4	3600-8-8-4	1/2"	1/4"	125/32"	15/32"
3605-8-8-8	3600-8-8-8	1/2"	1/2"	115/16"	115/32"
3605-8-8-12	3600-8-8-12	1/2"	3/4"	21/32"	19/16"
3605-10-10-8	3600-10-10-8	5/8"	1/2"	23/32"	115/32"
3605-10-10-6	3600-10-10-6	5/8"	3/8"	23/32"	13/8"
3605-10-10-12	3600-10-10-12	5/8"	3/4"	27/32"	119/32"
3605-12-12-12	3600-12-12-12	3/4"	3/4"	21/4"	119/32"
3605-12-12-8	3600-12-12-8	3/4"	1/2"	21/4"	19/16"
3605-14-14-12	3600-14-14-12	7/8"	3/4"	27/16"	111/16"
3605-16-16-16	3600-16-16-16	1"	1"	219/32"	131/32"
3605-16-16-12	3600-16-16-12	1"	3/4"	219/32"	123/32"
3605-20-20-20	3600-20-20-20	1 1/4"	1 1/4"	229/32"	23/8"
3605-24-24-24	3600-24-24-24	1 1/2"	1 1/2"	37/16"	25/8"
3605-32-32-32	3600-32-32-32	2"	2"	43/16"	3"

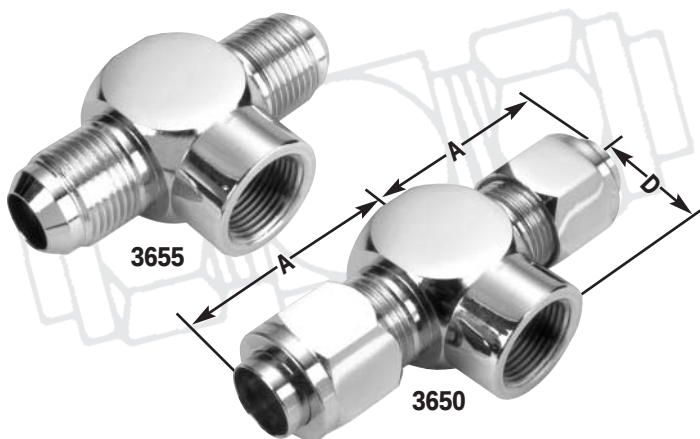
3605 / 3600 MALE BRANCH TEE FLARE TUBE TWO ENDS - MALE PIPE SIDE OUTLET



37° FLARE TUBE FITTINGS

T A P E R E D P I P E T H R E A D

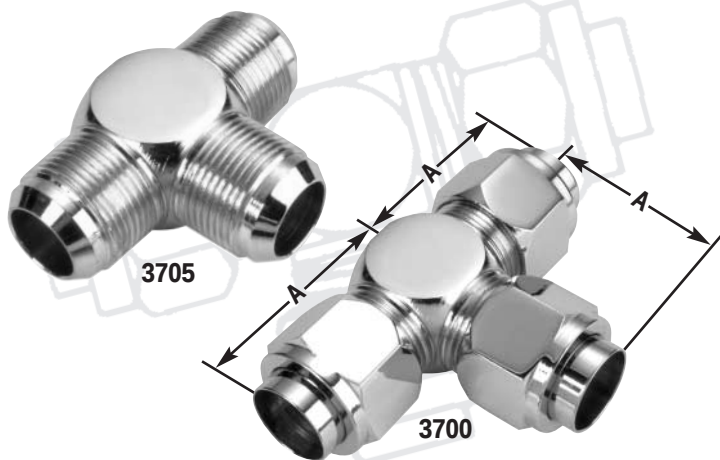
3655 / 3650 - FEMALE BRANCH TEE FLARE TUBE TWO ENDS FEMALE PIPE SIDE OUTLET



3655 / 3650 • Female Branch Tee

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Female Pipe Thread	"A" (Tube Leg)	"D" (Female Pipe Leg)
3655-4-4-2	3650-4-4-2	1/4"	1/8"	17/16"	21/32"
3655-4-4-4	3650-4-4-4	1/4"	1/4"	19/16"	29/32"
3655-5-5-2	3650-5-5-2	5/16"	1/8"	115/32"	21/32"
3655-6-6-4	3650-6-6-4	3/8"	1/4"	111/16"	29/32"
3655-6-6-2	3650-6-6-2	3/8"	1/8"	117/32"	21/32"
3655-6-6-6	3650-6-6-6	3/8"	3/8"	125/32"	1"
3655-8-8-6	3650-8-8-6	1/2"	3/8"	115/16"	1"
3655-8-8-4	3650-8-8-4	1/2"	1/4"	127/32"	29/32"
3655-8-8-8	3650-8-8-8	1/2"	1/2"	131/32"	1 1/4"
3655-10-10-8	3650-10-10-8	5/8"	1/2"	2 1/4"	1 1/4"
3655-12-12-12	3650-12-12-12	3/4"	3/4"	2 15/32"	1 11/32"
3655-12-12-8	3650-12-12-8	3/4"	1/2"	2 1/4"	1 1/4"
3655-14-14-12	3650-14-14-12	7/8"	3/4"	2 9/16"	1 11/32"
3655-16-16-16	3650-16-16-16	1"	1"	2 15/16"	1 5/8"
3655-20-20-20	3650-20-20-20	1 1/4"	1 1/4"	3 5/32"	1 11/16"
3655-24-24-24	3650-24-24-24	1 1/2"	1 1/2"	3 31/32"	2 1/16"
3655-32-32-32	3650-32-32-32	2"	2"	4 13/32"	2 3/8"

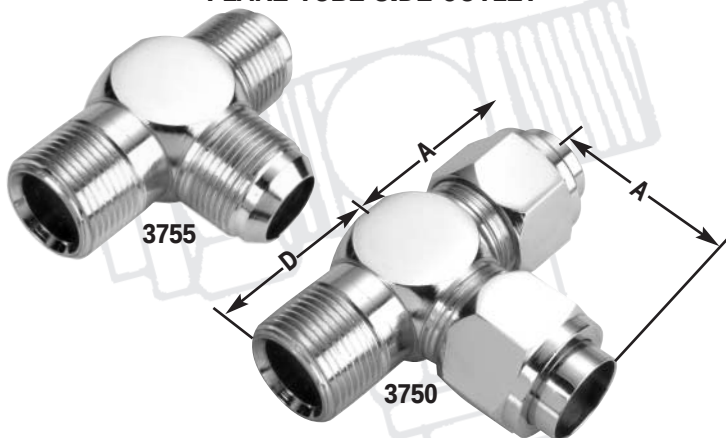
3705 / 3700 - TEE UNION FLARE TUBE END-ALL OPENINGS



3705 / 3700 • Tee Union

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	"A" (Tube Leg)
3705-2	3700-2	1/8"	1 3/32"
3705-3	3700-3	3/16"	1 5/32"
3705-4	3700-4	1/4"	1 9/32"
3705-5	3700-5	5/16"	1 3/8"
3705-6	3700-6	3/8"	1 17/32"
3705-8	3700-8	1/2"	1 25/32"
3705-10	3700-10	5/8"	2 3/32"
3705-12	3700-12	3/4"	2 1/4"
3705-14	3700-14	7/8"	2 7/16"
3705-16	3700-16	1"	2 19/32"
3705-20	3700-20	1 1/4"	2 29/32"
3705-24	3700-24	1 1/2"	3 7/16"
3705-32	3700-32	2"	4 3/16"

3755 / 3750 - MALE RUN TEE FLARE TUBE END - MALE PIPE END FLARE TUBE SIDE OUTLET



3755 / 3750 • Male Run Tee

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Male Pipe Thread	"A" (Tube Leg)	"D" (Male Pipe Leg)
3755-4-2-4	3750-4-2-4	1/4"	1/8"	19/32"	25/32"
3755-4-4-4	3750-4-4-4	1/4"	1/4"	1 13/32"	1 3/32"
3755-5-2-5	3750-5-2-5	5/16"	1/8"	1 3/8"	25/32"
3755-6-4-6	3750-6-4-6	3/8"	1/4"	1 17/32"	1 3/32"
3755-6-2-6	3750-6-2-6	3/8"	1/8"	1 17/32"	7/8"
3755-6-6-6	3750-6-6-6	3/8"	3/8"	1 21/32"	1 7/32"
3755-8-6-8	3750-8-6-8	1/2"	3/8"	1 25/32"	1 7/32"
3755-8-4-8	3750-8-4-8	1/2"	1/4"	1 25/32"	1 5/32"
3755-8-8-8	3750-8-8-8	1/2"	1/2"	1 15/16"	1 15/32"
3755-10-8-10	3750-10-8-10	5/8"	1/2"	2 3/32"	1 15/32"
3755-12-12-12	3750-12-12-12	3/4"	3/4"	2 1/4"	1 19/32"
3755-14-12-14	3750-14-12-14	7/8"	3/4"	2 7/16"	1 11/16"
3755-16-16-16	3750-16-16-16	1"	1"	2 19/32"	1 31/32"
3755-20-20-20	3750-20-20-20	1 1/4"	1 1/4"	2 29/32"	2 3/8"
3755-24-24-24	3750-24-24-24	1 1/2"	1 1/2"	3 7/16"	2 5/8"
3755-32-32-32	3750-32-32-32	2"	2"	4 3/16"	3"

37° FLARE TUBE FITTINGS

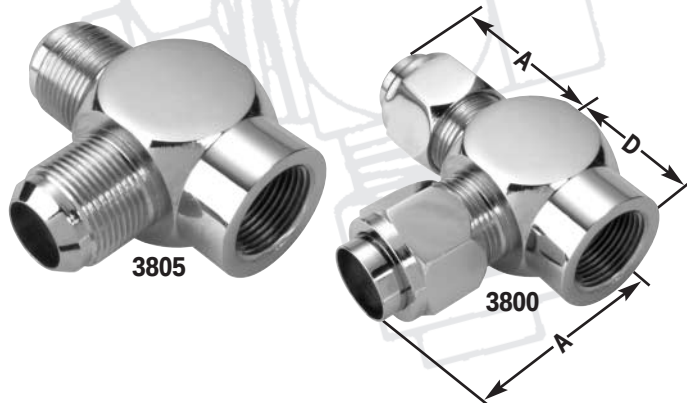
T A P E R E D P I P E T H R E A D

37° FLARE TUBE FITTINGS

3805 / 3800 • Female Run Tee

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Female Pipe Thread	"A" (Tube Leg)	"D" (Female Pipe Leg)
3805-4-2-4	3800-4-2-4	1/4"	1/8"	17/16"	21/32"
3805-5-2-5	3800-5-2-5	5/16"	1/8"	115/32"	21/32"
3805-6-4-6	3800-6-4-6	3/8"	1/4"	111/16"	29/32"
3805-8-6-8	3800-8-6-8	1/2"	3/8"	115/16"	1"
3805-8-8-8	3800-8-8-8	1/2"	1/2"	131/32"	1 1/4"
3805-10-8-10	3800-10-8-10	5/8"	1/2"	2 1/4"	1 1/4"
3805-12-12-12	3800-12-12-12	3/4"	3/4"	2 15/32"	1 11/32"
3805-14-12-14	3800-14-12-14	7/8"	3/4"	29/16"	1 11/32"
3805-16-16-16	3800-16-16-16	1"	1"	2 15/16"	1 5/8"
3805-20-20-20	3800-20-20-20	1 1/4"	1 1/4"	3 5/32"	1 11/16"
3805-24-24-24	3800-24-24-24	1 1/2"	1 1/2"	3 31/32"	2 1/16"
3805-32-32-32	3800-32-32-32	2"	2"	4 13/32"	2 3/8"

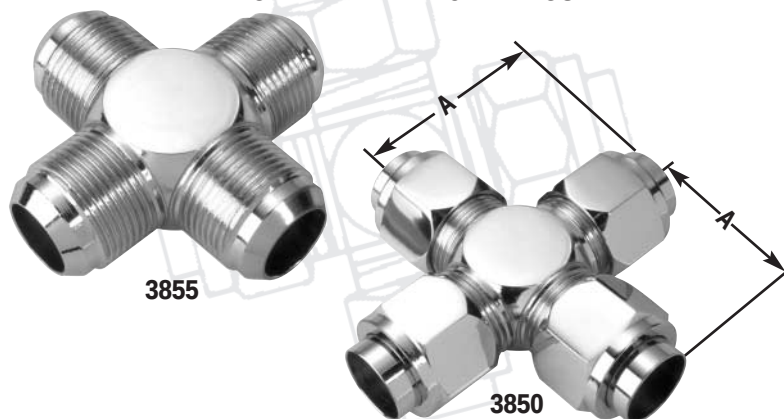
3805 / 3800 FEMALE RUN TEE FLARE TUBE END - FEMALE PIPE END - FLARE TUBE SIDE OUTLET



3855 / 3850 • Tube Cross

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	"A" (Tube Leg)
3855-4	3850-4	1/4"	19/32"
3855-5	3850-5	5/16"	1 3/8"
3855-6	3850-6	3/8"	1 17/32"
3855-8	3850-8	1/2"	1 25/32"
3855-10	3850-10	5/8"	2 3/32"
3855-12	3850-12	3/4"	2 1/4"
3855-14	3850-14	7/8"	2 7/16"
3855-16	3850-16	1"	2 19/32"
3855-20	3850-20	1 1/4"	2 29/32"
3855-24	3850-24	1 1/2"	3 7/16"
3855-32	3850-32	2"	4 3/16"

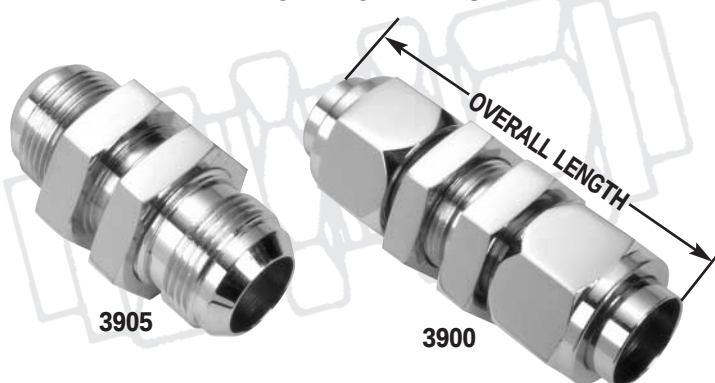
3855 / 3850 TUBE CROSS FLARE TUBE END - ALL OPENINGS



3905 / 3900 • Bulkhead Union

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Bulkhead Hole Diameter	Overall Length
3905-4	3900-4	1/4"	15/32"	2 27/32"
3905-5	3900-5	5/16"	17/32"	2 29/32"
3905-6	3900-6	3/8"	19/32"	3 1/8"
3905-8	3900-8	1/2"	25/32"	3 17/32"
3905-10	3900-10	5/8"	29/32"	4"
3905-12	3900-12	3/4"	1 3/32"	4 9/32"
3905-14	3900-14	7/8"	1 7/32"	4 9/16"
3905-16	3900-16	1"	1 11/32"	5 23/32"
3905-20	3900-20	1 1/4"	1 21/32"	5 7/32"
3905-24	3900-24	1 1/2"	1 29/32"	5 11/16"
3905-32	3900-32	2"	2 17/32"	6 17/32"

3905 / 3900 BULKHEAD UNION FLARE TUBE-BOTH ENDS



Maximum Bulkhead Thickness 3/8"

For body only, change the last number preceding the dash of part number from 0 to 5. Example: 3100-12-12 becomes 3105-12-12.

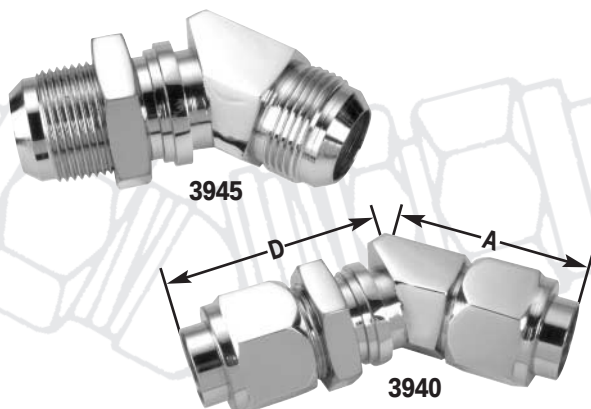
LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>

37° FLARE TUBE FITTINGS

T A P E R E D P I P E T H R E A D

3945 / 3940

BULKHEAD 45° UNION ELBOW
FLARE TUBE END - BOTH OPENINGS

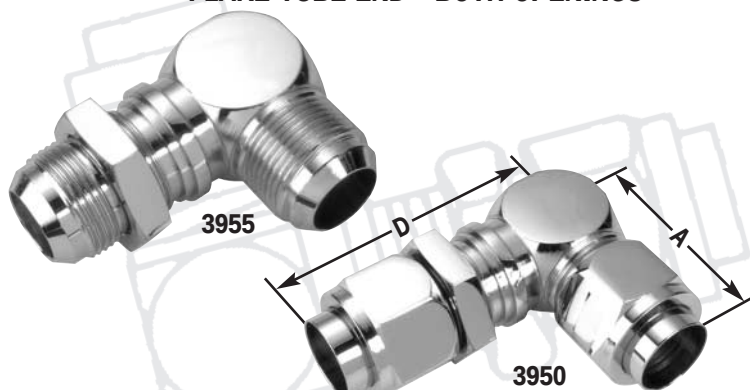


3945 / 3940 • Bulkhead 45° Union Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Bulkhead Hole Diameter	"A" (Tube Leg)	"D" (Bulkhead Leg)
3945-4	3940-4	1/4"	15/32"	13/32"	23/32"
3945-5	3940-5	5/16"	17/32"	15/32"	25/32"
3945-6	3940-6	3/8"	19/32"	19/32"	213/32"
3945-8	3940-8	1/2"	25/32"	11/2"	223/32"
3945-10	3940-10	5/8"	29/32"	123/32"	33/32"
3945-12	3940-12	3/4"	13/32"	17/8"	311/32"
3945-14	3940-14	7/8"	17/32"	23/32"	317/32"
3945-16	3940-16	1"	111/32"	27/32"	321/32"
3945-20	3940-20	1 1/4"	121/32"	27/16"	41/16"
3945-24	3940-24	1 1/2"	129/32"	27/8"	415/32"

3955 / 3950

BULKHEAD UNION ELBOW
FLARE TUBE END - BOTH OPENINGS



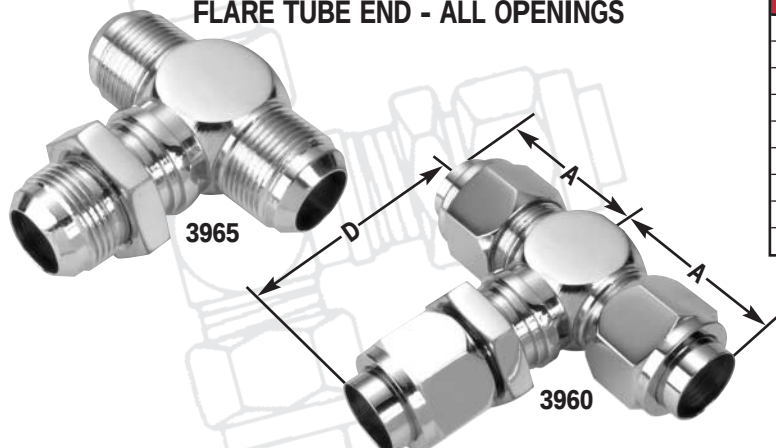
3955 / 3950 • Bulkhead Union Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Bulkhead Hole Diameter	"A" (Tube Leg)	"D" (Bulkhead Leg)
3955-4	3950-4	1/4"	15/32"	19/32"	23/32"
3955-5	3950-5	5/16"	17/32"	113/32"	25/32"
3955-6	3950-6	3/8"	19/32"	117/32"	113/32"
3955-8	3950-8	1/2"	25/32"	17/8"	223/32"
3955-10	3950-10	5/8"	29/32"	25/32"	33/32"
3955-12	3950-12	3/4"	13/32"	211/32"	311/32"
3955-14	3950-14	7/8"	17/32"	21/2"	317/32"
3955-16	3950-16	1"	111/32"	221/32"	321/32"
3955-20	3950-20	1 1/4"	121/32"	3"	41/16"
3955-24	3950-24	1 1/2"	129/32"	37/16"	419/32"
3955-32	3950-32	2"	217/32"	4 3/16"	51/4"

Maximum Bulkhead Thickness 3/8"

3965 / 3960

BULKHEAD TEE
FLARE TUBE END - ALL OPENINGS



3965 / 3960 • Bulkhead Tee

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Bulkhead Hole Diameter	"A" (Tube Leg)	"D" (Bulkhead Leg)
3965-4	3960-4	1/4"	15/32"	19/32"	23/32"
3965-5	3960-5	5/16"	17/32"	113/32"	25/32"
3965-6	3960-6	3/8"	19/32"	117/32"	213/32"
3965-8	3960-8	1/2"	25/32"	17/8"	223/32"
3965-10	3960-10	5/8"	29/32"	25/32"	33/32"
3965-12	3960-12	3/4"	13/32"	211/32"	311/32"
3965-14	3960-14	7/8"	17/32"	21/2"	317/32"
3965-16	3960-16	1"	111/32"	221/32"	321/32"
3965-20	3960-20	1 1/4"	121/32"	3"	41/16"

For body only, change the last number preceding the dash of part number from 0 to 5. Example: 3100-12-12 becomes 3105-12-12.

Maximum Bulkhead Thickness 3/8"

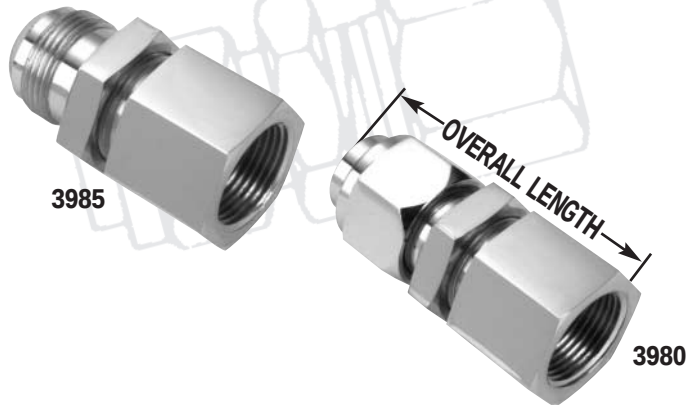
37° FLARE TUBE FITTINGS

T A P E R E D P I P E T H R E A D

3985 / 3980 • Female Bulkhead

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Female Pipe Thread	Bulkhead Hole Dia.	Overall Length
3985-4-2	3980-4-2	1/4"	1/8"	15/32"	2 9/32"
3985-4-4	3980-4-4	1/4"	1/4"	15/32"	2 15/32"
3985-5-2	3980-5-2	5/16"	1/8"	17/32"	2 5/16"
3985-6-4	3980-6-4	3/8"	1/4"	19/32"	2 5/8"
3985-6-6	3980-6-6	3/8"	3/8"	19/32"	2 23/32"
3985-8-6	3980-8-6	1/2"	3/8"	25/32"	2 29/32"
3985-8-8	3980-8-8	1/2"	1/2"	25/32"	3 1/8"
3985-10-8	3980-10-8	5/8"	1/2"	29/32"	3 11/32"
3985-12-12	3980-12-12	3/4"	3/4"	1 3/32"	3 19/32"
3985-14-12	3980-14-12	7/8"	3/4"	1 7/32"	3 21/32"
3985-16-16	3980-16-16	1"	1"	1 11/32"	3 7/8"
3985-20-20	3980-20-20	1 1/4"	1 1/4"	1 21/32"	4 1/8"
3985-24-24	3980-24-24	1 1/2"	1 1/2"	1 29/32"	4 11/32"
3985-32-32	3980-32-32	2"	2"	2 17/32"	4 27/32"

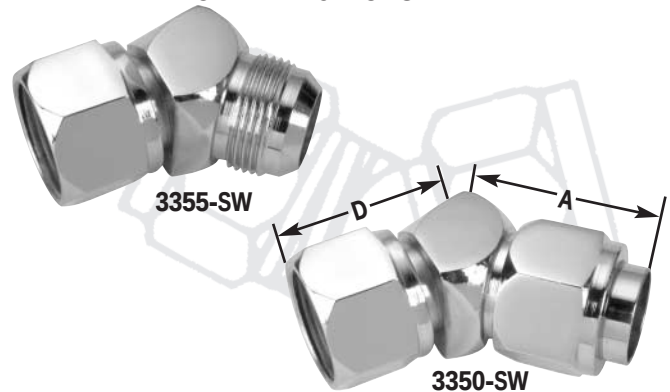
3985 / 3980 FEMALE BULKHEAD FLARE TUBE END-FEMALE PIPE END



3355-SW / 3350-SW • Swivel Nut 45° Elbow

Body Only Part No.	Complete Assembly Part No.	Tube O.D.	"A" (Tube Leg)	"D" (Swivel Leg)
3355SW-4	3350SW-4	1/4"	1 3/32"	1 5/16"
3355SW-5	3350SW-5	5/16"	1 5/32"	1"
3355SW-6	3350SW-6	3/8"	1 9/32"	1 1/8"
3355SW-8	3350SW-8	1/2"	1 11/2"	1 9/32"
3355SW-10	3350SW-10	5/8"	1 23/32"	1 7/16"
3355SW-12	3350SW-12	3/4"	1 7/8"	1 1/2"
3355SW-14	3350SW-14	7/8"	2 3/32"	1 5/8"
3355SW-16	3350SW-16	1"	2 7/32"	1 3/4"
3355SW-20	3350SW-20	1 1/4"	2 7/16"	2 1/32"
3355SW-24	3350SW-24	1 1/2"	2 7/8"	2 1/4"
3355SW-32	3350SW-32	2"	3 11/32"	2 29/32"

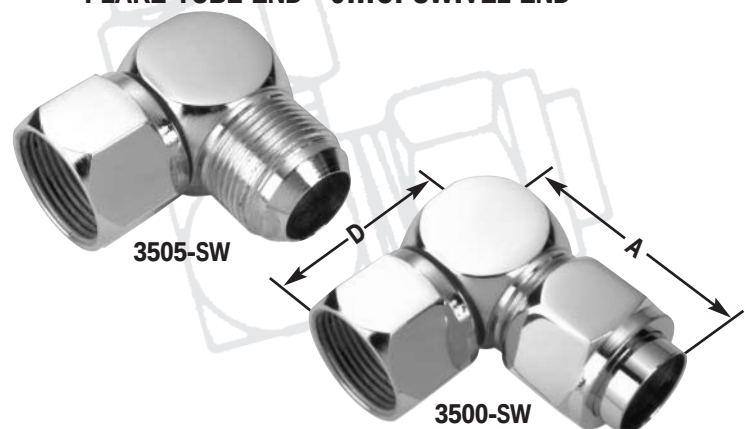
3355-SW / 3350-SW SWIVEL NUT 45° ELBOW FLARE TUBE END-J.I.C. SWIVEL END



3505-SW / 3500-SW • Swivel Nut Elbow

Body Only Part No.	Complete Assembly Part No.	Tube O.D.	"A" (Tube Leg)	"D" (Swivel Leg)
3505SW-4	3500SW-4	1/4"	1 9/32"	1"
3505SW-5	3500SW-5	5/16"	1 3/8"	1 1/16"
3505SW-6	3500SW-6	3/8"	1 17/32"	1 1/4"
3505SW-8	3500SW-8	1/2"	1 25/32"	1 3/8"
3505SW-10	3500SW-10	5/8"	2 3/32"	1 5/8"
3505SW-12	3500SW-12	3/4"	2 1/4"	1 3/4"
3505SW-14	3500SW-14	7/8"	2 7/16"	1 25/32"
3505SW-16	3500SW-16	1"	2 19/32"	2"
3505SW-20	3500SW-20	1 1/4"	2 29/32"	2 5/16"
3505SW-24	3500SW-24	1 1/2"	3 7/16"	2 19/32"
3505SW-32	3500SW-32	2"	4 3/16"	3 3/8"

3505-SW / 3500-SW SWIVEL NUT 90° ELBOW FLARE TUBE END - J.I.C. SWIVEL END



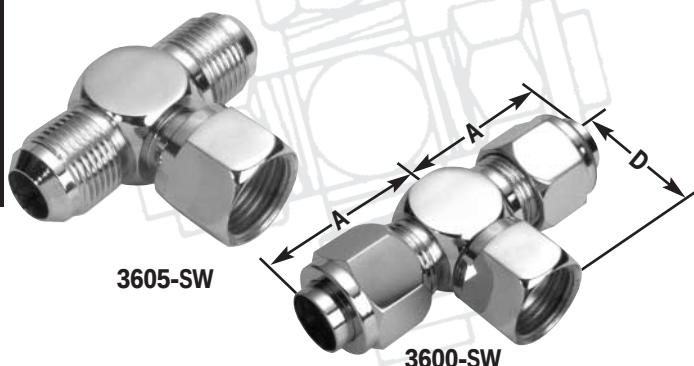
For body only, change the last number preceding the dash of part number from 0 to 5. Example: 3100-12-12 becomes 3105-12-12.

37° FLARE TUBE FITTINGS

T A P E R E D P I P E T H R E A D

3605-SW / 3600-SW

SWIVEL NUT BRANCH TEE FLARE TUBE END
-FLARE TUBE END - J.I.C. SWIVEL SIDE OUTLET



3605-SW

3600-SW

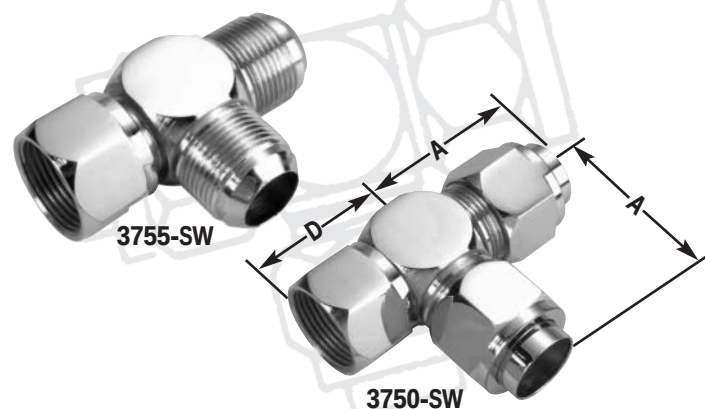
Example of Part No.: 3600-SW-12 for 3/4" O.D. Tubing

3605-SW / 3600-SW • Swivel Nut Branch Tee

Body Only Part No.	Complete Assembly Part No.	Tube O.D.	"A" (Tube Leg)	"D" (Swivel Leg)
3605SW-4	3600SW-4	1/4"	19/32"	1"
3605SW-5	3600SW-5	5/16"	13/8"	1 1/16"
3605SW-6	3600SW-6	3/8"	1 17/32"	1 1/4"
3605SW-8	3600SW-8	1/2"	1 25/32"	1 3/8"
3605SW-10	3600SW-10	5/8"	2 3/32"	1 5/8"
3605SW-12	3600SW-12	3/4"	2 1/4"	1 3/4"
3605SW-14	3600SW-14	7/8"	2 7/16"	1 25/32"
3605SW-16	3600SW-16	1"	2 19/32"	2"
3605SW-20	3600SW-20	1 1/4"	2 29/32"	2 5/16"
3605SW-24	3600SW-24	1 1/2"	3 7/16"	2 19/32"
3605SW-32	3600SW-32	2"	4 3/16"	3 3/8"

3755-SW / 3750-SW

SWIVEL NUT RUN TEE FLARE TUBE END
-J.I.C. SWIVEL END - FLARE TUBE SIDE OUTLET



3755-SW

3750-SW

3755-SW / 3750-SW • Swivel Nut Run Tee

Body Only Part No.	Complete Assembly Part No.	Tube O.D.	"A" (Tube Leg)	"D" (Swivel Leg)
3755SW-4	3750SW-4	1/4"	19/32"	1"
3755SW-5	3750SW-5	5/16"	13/8"	1 1/16"
3755SW-6	3750SW-6	3/8"	1 17/32"	1 1/4"
3755SW-8	3750SW-8	1/2"	1 25/32"	1 3/8"
3755SW-10	3750SW-10	5/8"	2 3/32"	1 5/8"
3755SW-12	3750SW-12	3/4"	2 1/4"	1 3/4"
3755SW-14	3750SW-14	7/8"	2 7/16"	1 25/32"
3755SW-16	3750SW-16	1"	2 19/32"	2"
3755SW-20	3750SW-20	1 1/4"	2 29/32"	2 5/16"
3755SW-24	3750SW-24	1 1/2"	3 7/16"	2 19/32"
3755SW-32	3750SW-32	2"	4 3/16"	3 3/8"

3105-SW

MALE PIPE TO 37° FEMALE SWIVEL



3255-SW

FEMALE PIPE TO 37° FEMALE SWIVEL



Please indicate size: Example: 3105SW-8-8

A3105-SW

O-RING S.A.E. TO 37° FEMALE SWIVEL



A3405-SW

O-RING S.A.E. ADJUSTABLE
TO 37° FEMALE SWIVEL ELBOW



37° FLARE TUBE FITTINGS

T A P E R E D P I P E T H R E A D

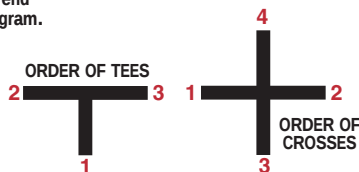
LENZ SPECIAL SHAPES

The Lenz Special Shapes shown are available in standard or special sizes. Only items priced in current supplementary price list are carried in stock. Price and delivery on non-stocked items furnished on request and will depend on quantity ordered. No quantity is too small for us to handle. We invite your inquiries. See pages 47 and 48 for information on fitting outlets. To Order Stainless Steel, Add SS to Part No.

How To Order Crosses - Indicate part number followed by the tube end size First then the other ends in the order in the diagram.

How To Order Tees - Indicate part number, specify size of tube end First, opposite end Second and side outlet Third. See diagram.

If there are two tube outlets, specify largest size First. If both female and male outlet on the run, show female size First. This would apply to our 3865 tees. Send pencil sketch if you prefer.



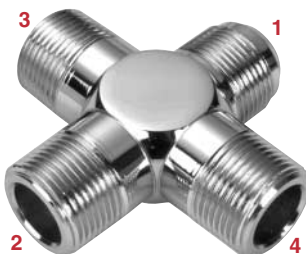
3765 Cross
Flare Tube End-
Flare Tube End-
Male Pipe End-
Male Pipe End



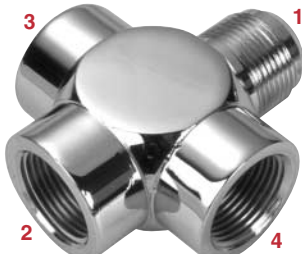
3775 Cross
Flare Tube End-
Flare Tube End-
Female Pipe End-
Female Pipe End



3785 Cross
Flare Tube End-
Male Pipe End-
Male Pipe End-
Male Pipe End



3795 Cross
Flare Tube End-
Female Pipe End-
Female Pipe End-
Female Pipe End



3815 Male Cross
Flare Tube End-
Flare Tube End-
Flare Tube End-
Male Pipe End



3825 Female Cross
Flare Tube End-
Flare Tube End-
Flare Tube End-
Female Pipe End



3865 Tee
Female Pipe End-
Male Pipe End-
Flare Tube Side Outlet



3875 Tee
Male Pipe End-
Male Pipe End-
Flare Tube Side Outlet



3885 Tee
Flare Tube End-
Female Pipe End-
Male Pipe Side Outlet



3895 • Tee
Flare Tube End-
Male Pipe End-
Male Pipe Side Outlet



3915 Tee
Flare Tube End-
Male Pipe End-
Female Pipe Side Outlet



3925 Tee
Female Pipe End-
Female Pipe End-
Flare Tube Side Outlet



3935 Tee
Flare Tube End-
Female Pipe End-
Female Pipe Side Outlet



3995 Male Bulkhead
Flare Tube End-
Male Pipe End



Maximum Bulkhead
Thickness 3/8"

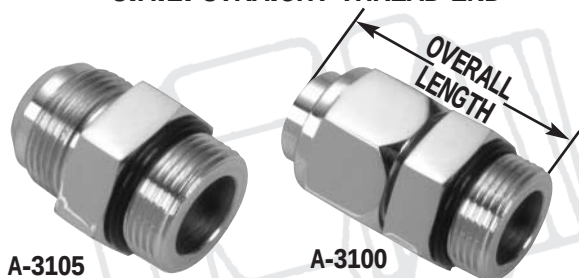
Note: Only items in current supplementary price list are carried in stock. Price and delivery of non-stock items furnished on request and will depend on quantity ordered.

LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>

37° FLARE TUBE FITTINGS

S . A . E . S T R A I G H T T H R E A D

A-3105 / A-3100 • MALE CONNECTOR FLARE TUBE END- S.A.E. STRAIGHT THREAD END



A-3105

A-3100

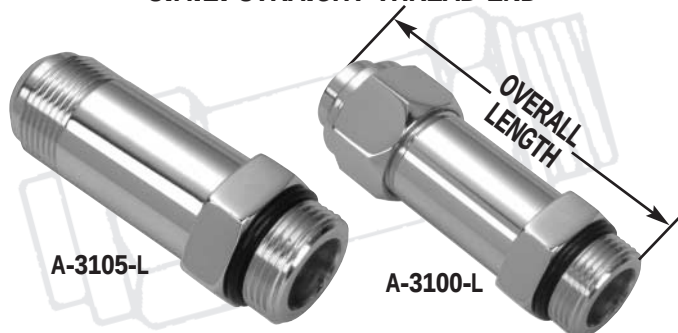
How To Order 3 Piece Flare Straight Thread Assemblies

For Complete 3-Piece Assemblies

Use part number shown. For body only, change the last number preceding the dash from 0 to 5. Example: A-3100-12 Male Connector becomes A-3105-12 for Male Connector Body only.

Note: To Order Stainless Steel Fittings Add SS To Part Number. Example: A-3350-12-SS.

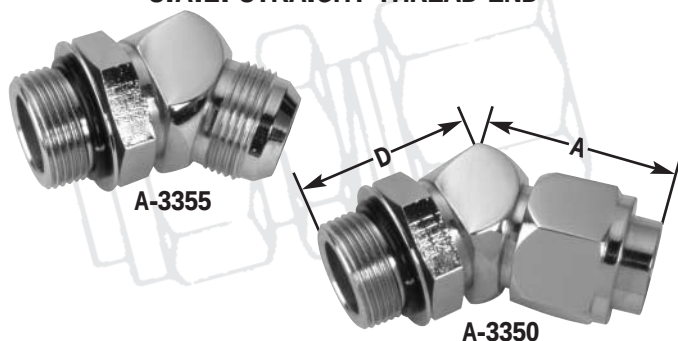
A-3105-L / A-3100-L • LONG MALE CONNECTOR FLARE TUBE END S.A.E. STRAIGHT THREAD END



A-3105-L

A-3100-L

A-3355 / A-3350 • MALE 45° ELBOW FLARE TUBE END S.A.E. STRAIGHT THREAD END



A-3355

A-3350

A-3105 / A-3100 • Male Connector

Body Only Part No.	Complete Assembly Part No.	Tube O.D.	Straight Thread	Overall Length
A3105-4-4	A3100-4-4	1/4"	7/16"-20	15/8"
A3105-4-5	A3100-4-5	1/4"	1/2"-20	15/8"
A3105-4-6	A3100-4-6	1/4"	9/16"-18	121/32"
A3105-5-5	A3100-5-5	5/16"	1/2"-20	121/32"
A3105-6-6	A3100-6-6	3/8"	9/16"-18	125/32"
A3105-6-8	A3100-6-8	3/8"	3/4"-16	127/32"
A3105-6-10	A3100-6-10	3/8"	7/8"-14	131/32"
A3105-8-8	A3100-8-8	1/2"	3/4"-16	21/32"
A3105-8-6	A3100-8-6	1/2"	9/16"-18	115/16"
A3105-8-10	A3100-8-10	1/2"	7/8"-14	21/8"
A3105-8-12	A3100-8-12	1/2"	11/16"-12	27/32"
A3105-8-14	A3100-8-14	1/2"	13/16"-12	27/32"
A3105-10-10	A3100-10-10	5/8"	7/8"-14	211/32"
A3105-10-8	A3100-10-8	5/8"	3/4"-16	27/32"
A3100-10-12	A3100-10-12	5/8"	11/16"-12	27/16"
A3105-12-12	A3100-12-12	3/4"	11/16"-12	219/32"
A3105-12-8	A3100-12-8	3/4"	3/4"-16	215/32"
A3105-12-10	A3100-12-10	3/4"	7/8"-14	215/32"
A3105-12-14	A3100-12-14	3/4"	13/16"-12	25/8"
A3105-12-16	A3100-12-16	3/4"	15/16"-12	25/8"
A3105-14-14	A3100-14-14	7/8"	13/16"-12	223/32"
A3105-14-16	A3100-14-16	7/8"	15/16"-12	223/32"
A3105-16-16	A3100-16-16	1"	15/16"-12	225/32"
A3105-16-12	A3100-16-12	1"	11/16"-12	23/4"
A3105-16-20	A3100-16-20	1"	15/8"-12	213/16"
A3105-20-20	A3100-20-20	1 1/4"	15/8"-12	31/32"
A3105-20-16	A3100-20-16	1 1/4"	15/16"-12	231/32"
A3105-20-24	A3100-20-24	1 1/4"	17/8"-12	31/16"
A3105-24-24	A3100-24-24	1 1/2"	17/8"-12	37/16"
A3105-24-20	A3100-24-20	1 1/2"	15/8"-12	33/8"
A3105-32-32	A3100-32-32	2"	2 1/2"-12	329/32"

A-3105-L / A-3100-L • Long Male Connector

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Straight Thread	Overall Length
A3105L-4	A3100L-4	1/4"	7/16"-20	25/16"
A3105L-5	A3100L-5	5/16"	1/2"-20	213/32"
A3105L-6	A3100L-6	3/8"	9/16"-18	221/32"
A3105L-8	A3100L-8	1/2"	3/4"-16	33/32"
A3105L-10	A3100L-10	5/8"	7/8"-14	323/32"
A3105L-12	A3100L-12	3/4"	1 1/8"-12	41/8"
A3105L-14	A3100L-14	7/8"	13/16"-12	43/8"
A3105L-16	A3100L-16	1"	15/16"-12	419/32"
A3105L-20	A3100L-20	1 1/4"	15/8"-12	511/32"
A3105L-24	A3100L-24	1 1/2"	17/8"-12	531/32"
A3105L-32	A3100L-32	2"	2 1/2"-12	615/16"

A-3355 / A-3350 • Male 45° Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"D" (Straight Thread Leg)
A3355-4	A3350-4	1/4"	7/16"-20	13/32"	11/32"
A3355-5	A3350-5	5/16"	1/2"-20	15/32"	11/32"
A3355-6	A3350-6	3/8"	9/16"-18	19/32"	11/8"
A3355-8	A3350-8	1/2"	3/4"-16	1 1/2"	19/32"
A3355-10	A3350-10	5/8"	7/8"-14	123/32"	11/2"
A3355-12	A3350-12	3/4"	1 1/16"-12	17/8"	123/32"
A3355-14	A3350-14	7/8"	13/16"-12	23/32"	125/32"
A3355-16	A3350-16	1"	15/16"-12	27/32"	127/32"
A3355-20	A3350-20	1 1/4"	15/8"-12	27/16"	129/32"
A3355-24	A3350-24	1 1/2"	17/8"-12	27/8"	129/32"
A3355-32	A3350-32	2"	2 1/2"-12	311/32"	127/32"

For body only, change the last number preceding the dash of part number from 0 to 5. Example: A-3350-12 becomes A-3355-12.

LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>

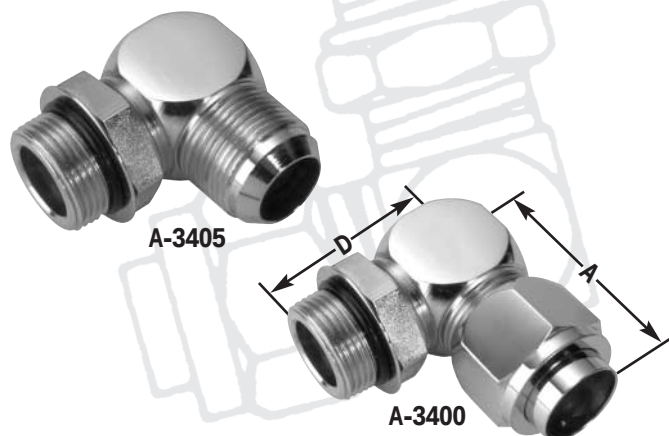
37° FLARE TUBE FITTINGS

S . A . E . S T R A I G H T T H R E A D

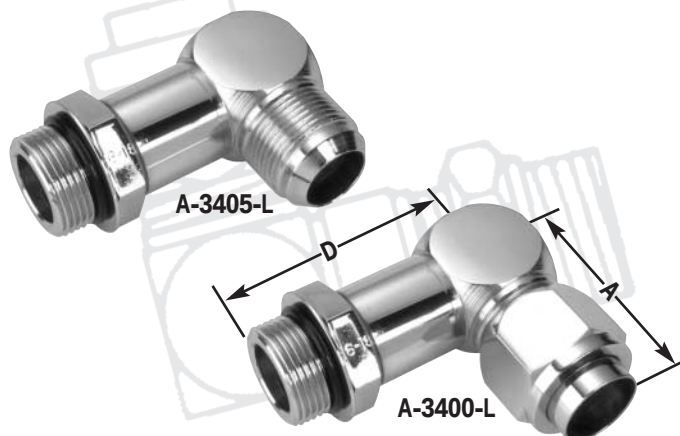
A-3405 / A-3400 • Male Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"D" Straight Thread Leg
A3405-4-4	A3400-4-4	1/4"	7/16"-20	19/32"	11/64"
A3405-4-6	A3400-4-6	1/4"	9/16"-18	111/32"	115/64"
A3405-5-5	A3400-5-5	5/16"	1/2"-20	13/8"	15/64"
A3405-6-6	A3400-6-6	3/8"	9/16"-18	117/32"	115/64"
A3405-6-4	A3400-6-4	3/8"	7/16"-20	117/32"	15/64"
A3405-6-8	A3400-6-8	3/8"	3/4"-16	15/8"	17/16"
A3405-6-10	A3400-6-10	3/8"	7/8"-14	111/16"	111/16"
A3405-8-8	A3400-8-8	1/2"	3/4"-16	125/32"	17/16"
A3405-8-6	A3400-8-6	1/2"	9/16"-18	125/32"	119/64"
A3405-8-10	A3400-8-10	1/2"	7/8"-14	127/32"	111/16"
A3405-8-12	A3400-8-12	1/2"	11/16"-12	2"	115/16"
A3405-10-10	A3400-10-10	5/8"	7/8"-14	23/32"	111/16"
A3405-10-8	A3400-10-8	5/8"	3/4"-16	23/32"	11/2"
A3405-10-12	A3400-10-12	5/8"	11/16"-12	27/32"	115/16"
A3405-12-12	A3400-12-12	3/4"	11/16"-12	21/4"	115/16"
A3405-12-10	A3400-12-10	3/4"	7/8"-14	21/4"	113/16"
A3405-12-16	A3400-12-16	3/4"	15/16"-12	213/32"	21/32"
A3405-14-14	A3400-14-14	7/8"	13/16"-12	27/16"	2"
A3405-16-16	A3400-16-16	1"	15/16"-12	219/32"	21/32"
A3405-16-12	A3400-16-12	1"	11/16"-12	219/32"	21/16"
A3405-20-20	A3400-20-20	1 1/4"	15/8"-12	229/32"	21/4"
A3405-24-24	A3400-24-24	1 1/2"	17/8"-12	37/16"	23/8"
A3405-24-20	A3400-24-20	1 1/2"	15/8"-12	37/16"	23/8"
A3405-32-32	A3400-32-32	2"	2 1/2"-12	43/16"	27/8"

A-3405 / A-3400 • MALE ELBOW FLARE TUBE END S.A.E. STRAIGHT THREAD END



A-3405-L / A-3400-L • LONG MALE ELBOW FLARE TUBE END S.A.E. STRAIGHT THREAD END



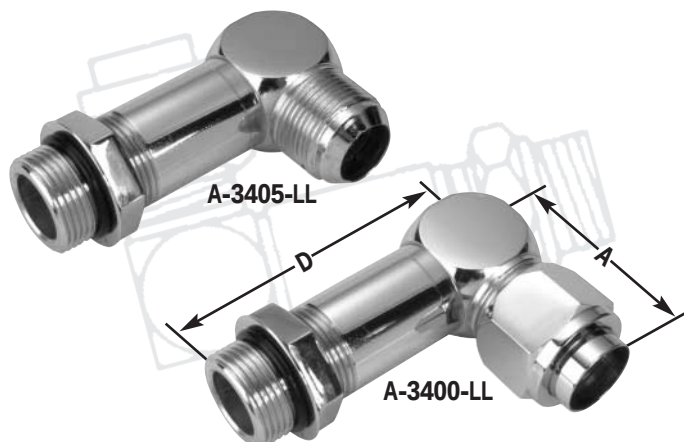
A-3405-L / A-3400-L • Long Male Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"D" Straight Thread Leg
A3405L-4	A3400L-4	1/4"	7/16"-20	19/32"	13/16"
A3405L-6	A3400L-6	3/8"	9/16"-18	117/32"	121/32"
A3405L-8	A3400L-8	1/2"	3/4"-16	125/32"	113/16"
A3405L-10	A3400L-10	5/8"	7/8"-14	23/32"	27/32"
A3405L-12	A3400L-12	3/4"	11/16"-12	21/4"	215/32"
A3405L-16	A3400L-16	1"	15/16"-12	219/32"	31/16"

A-3405-LL / A-3400-LL • Extra Long Male Elbow

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"D" Straight Thread Leg
A3405LL-4	A3400LL-4	1/4"	7/16"-20	19/32"	123/32"
A3405LL-6	A3400LL-6	3/8"	9/16"-18	117/32"	21/16"
A3405LL-8	A3400LL-8	1/2"	3/4"-16	125/32"	21/2"
A3405LL-10	A3400LL-10	5/8"	7/8"-14	23/32"	27/8"
A3405LL-12	A3400LL-12	3/4"	11/16"-12	21/4"	311/32"
A3405LL-16	A3400LL-16	1"	15/16"-12	219/32"	33/4"

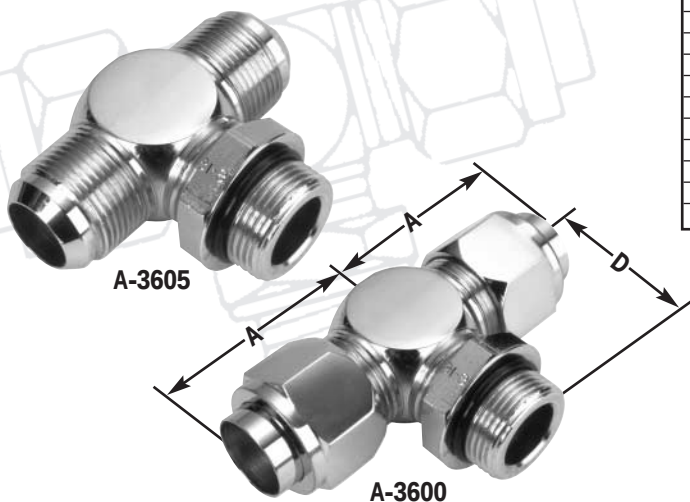
A-3405-LL / A-3400-LL • EXTRA LONG MALE ELBOW FLARE TUBE END S.A.E. STRAIGHT THREAD END



37° FLARE TUBE FITTINGS

S . A . E . S T R A I G H T T H R E A D

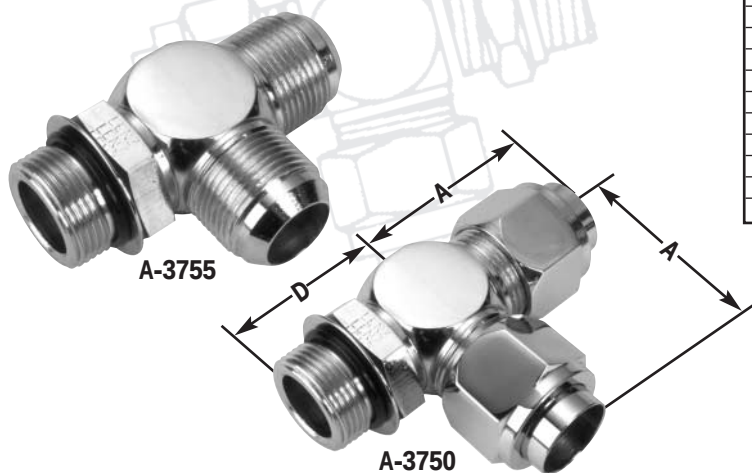
A-3605 / A-3600 • MALE BRANCH TEE FLARE TUBE ENDS- S.A.E. STRAIGHT THREAD SIDE OUTLET



A-3605 / A-3600 • Male Branch Tee

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"D" Straight Thread Leg)
A3605-4	A3600-4	1/4"	7/16"-20	19/32"	11/64"
A3605-5	A3600-5	5/16"	1/2"-20	13/8"	15/64"
A3605-6	A3600-6	3/8"	9/16"-18	117/32"	115/64"
A3605-8	A3600-8	1/2"	3/4"-16	125/32"	17/16"
A3605-10	A3600-10	5/8"	7/8"-14	23/32"	111/16"
A3605-12	A3600-12	3/4"	11/16"-12	21/4"	115/16"
A3605-14	A3600-14	7/8"	13/16"-12	27/16"	2"
A3605-16	A3600-16	1"	15/16"-12	219/32"	21/32"
A3605-20	A3600-20	1 1/4"	15/8"-12	229/32"	2 1/4"
A3605-24	A3600-24	1 1/2"	17/8"-12	37/16"	2 3/8"
A3605-32	A3600-32	2"	2 1/2"-12	43/16"	27/8"

A-3755 / A-3750 • MALE RUN TEE FLARE TUBE END-S.A.E. STRAIGHT THREAD END-FLARE TUBE SIDE OUTLET



A3755 / A3750 • Male Run Tee

Body Only Part No.	Complete Assem. Part No.	Tube O.D.	Straight Thread	"A" (Tube Leg)	"D" Straight Thread Leg)
A3755-4	A3750-4	1/4"	7/16"-20	19/32"	11/164"
A3755-5	A3750-5	5/16"	1/2"-20	13/8"	15/64"
A3755-6	A3750-6	3/8"	9/16"-18	117/32"	115/64"
A3755-8	A3750-8	1/2"	3/4"-16	125/32"	17/16"
A3755-10	A3750-10	5/8"	7/8"-14	23/32"	111/16"
A3755-12	A3750-12	3/4"	11/16"-12	21/4"	115/32"
A3755-14	A3750-14	7/8"	13/16"-12	27/16"	2"
A3755-16	A3750-16	1"	15/16"-12	219/32"	21/32"
A3755-20	A3750-20	1 1/4"	15/8"-12	229/32"	2 1/4"
A3755-24	A3750-24	1 1/2"	17/8"-12	37/16"	2 3/8"
A3755-32	A3750-32	2"	2 1/2"-12	43/16"	27/8"

**All Lenz Fittings
Conform to J.I.C.
Hydraulic Standards**

For body only, change the last number preceding the dash of part number from 0 to 5. Example: A-3350-12 becomes A-3355-12.

**LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516
OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842
INTERNET: <http://www.lenzinc.com>**

COMPONENTS & ACCESSORIES

N U T S & S L E E V E S

3205 • Tube Nut 3-Piece Type Used With 3165 Sleeve

Part No.	Tube O.D.	J.I.C. Thread	Hex Size	Length
3205-2	1/8"	5/16"-24	3/8"	17/32"
3205-3	3/16"	3/8"-24	1/2"	19/32"
3205-4	1/4"	7/16"-20	9/16"	5/8"
3205-5	5/16"	1/2"-20	5/8"	11/16"
3205-6	3/8"	9/16"-18	11/16"	23/32"
3205-8	1/2"	3/4"-16	7/8"	27/32"
3205-10	5/8"	7/8"-14	1"	31/32"
3205-12	3/4"	1 1/16"-12	1 1/4"	1 1/32"
3205-14	7/8"	1 3/16"-12	1 3/8"	1 3/32"
3205-16	1"	1 5/16"-12	1 1/2"	1 1/8"
3205-20	1 1/4"	1 5/8"-12	2"	1 7/32"
3205-24	1 1/2"	1 7/8"-12	2 1/4"	1 13/32"
3205-32	2"	2 1/2"-12	2 7/8"	1 3/4"

3205 TUBE NUT 3-PIECE TYPE USED WITH 3165 SLEEVE



3165 • Tube Sleeve Used With 3205 Nut

Part No.	Tube O.D.	Length
3165-2	1/8"	11/32"
3165-3	3/16"	11/32"
3165-4	1/4"	13/32"
3165-5	5/16"	7/16"
3165-6	3/8"	1/2"
3165-8	1/2"	9/16"
3165-10	5/8"	21/32"
3165-12	3/4"	11/16"
3165-14	7/8"	3/4"
3165-16	1"	25/32"
3165-20	1 1/4"	29/32"
3165-24	1 1/2"	1 1/8"
3165-32	2"	1 3/16"

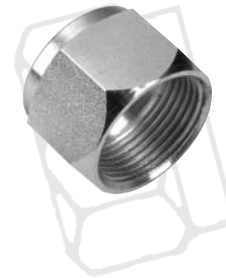
3165 • TUBE SLEEVE USED WITH 3205 NUT



2205-S • Two Piece Tube Short Nut

Part No.	Tube O.D.	J.I.C. Thread	Hex Size	Length
2205S-4	1/4"	7/16"-20	9/16"	9/16"
2205S-5	5/16"	1/2"-20	5/8"	19/32"
2205S-6	3/8"	9/16"-18	11/16"	39/64"
2205S-8	1/2"	3/4"-16	7/8"	3/4"
2205S-10	5/8"	7/8"-14	1"	7/8"
2205S-12	3/4"	1 1/16"-12	1 1/4"	31/32"
2205S-14	7/8"	1 3/16"-12	1 3/8"	1 1/8"
2205S-16	1"	1 5/16"-12	1 1/2"	1 1/8"
2205S-20	1 1/4"	1 5/8"-12	2"	1 1/4"
2205S-24	1 1/2"	1 7/8"-12	2 1/4"	1 1/2"
2205S-32	2"	2 1/2"-12	2 7/8"	1 7/8"

2205-S TWO PIECE TUBE SHORT NUT



2205 • Two Piece Tube Nut

Part No.	Tube O.D.	J.I.C. Thread	Hex Size	Length
2205-4	1/4"	7/16"-20	9/16"	23/32"
2205-5	5/16"	1/2"-20	5/8"	13/16"
2205-6	3/8"	9/16"-18	11/16"	7/8"
2205-8	1/2"	3/4"-16	7/8"	13/32"
2205-10	5/8"	7/8"-14	1"	19/32"
2205-12	3/4"	1 1/16"-12	1 1/4"	1 15/32"
2205-14	7/8"	1 3/16"-12	1 3/8"	1 11/16"
2205-16	1"	1 5/16"-12	1 1/2"	1 25/32"
2205-20	1 1/4"	1 5/8"-12	2"	2 3/32"
2205-24	1 1/2"	1 7/8"-12	2 1/4"	2 1/4"
2205-32	2"	2 1/2"-12	2 7/8"	3"

2205 TWO PIECE TUBE NUT



37° FLARE TUBE FITTINGS

C O M P O N E N T S

3208 37° FLARE BULKHEAD NUT



3208 • 37° Flare Bulkhead Nut

Part No.	Tube O.D.	J.I.C. Thread	Hex Size	Length
3208-4	1/4"	7/16"-20	11/16"	1/4"
3208-5	5/16"	1/2"-20	3/4"	1/4"
3208-6	3/8"	9/16"-18	13/16"	17/64"
3208-8	1/2"	3/4"-16	1"	5/16"
3208-10	5/8"	7/8"-14	1 1/8"	23/32"
3208-12	3/4"	1 1/16"-12	1 3/8"	13/32"
3208-14	7/8"	1 3/16"-12	1 1/2"	13/32"
3208-16	1"	1 5/16"-12	1 5/8"	13/32"
3208-20	1 1/4"	1 5/8"-12	1 7/8"	13/32"
3208-24	1 1/2"	1 7/8"-12	2 1/8"	13/32"
3208-32	2"	2 1/2"-12	2 3/4"	13/32"

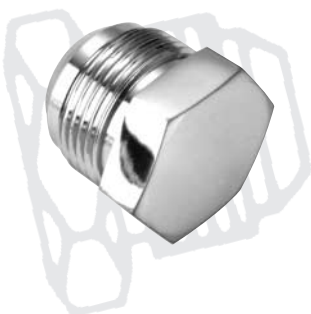
2205-C • CAP NUT TO CAP FLARED FITTING TUBE END



2205-C • Cap Nut to Cap Flared Fitting Tube End

Part No.	Tube O.D.	J.I.C. Thread	Hex Size	Length
2205C-2	1/8"	5/16"-24	3/8"	1/2"
2205C-3	3/16"	3/8"-24	1/2"	9/16"
2205C-4	1/4"	7/16"-20	9/16"	19/32"
2205C-5	5/16"	1/2"-20	5/8"	39/64"
2205C-6	3/8"	9/16"-18	11/16"	5/8"
2205C-8	1/2"	3/4"-16	7/8"	3/4"
2205C-10	5/8"	7/8"-14	1"	27/32"
2205C-12	3/4"	1 1/16"-12	1 1/4"	29/32"
2205C-14	7/8"	1 3/16"-12	1 3/8"	31/32"
2205C-16	1"	1 5/16"-12	1 1/2"	11/16"
2205C-20	1 1/4"	1 5/8"-12	2"	11/16"
2205C-24	1 1/2"	1 7/8"-12	1 1/4"	13/16"
2205C-32	2"	2 1/2"-12	2 7/8"	17/16"

3105-P • TUBE PLUG SCREWS INTO NUT TO PLUG LINE



3105-P • Tube Plug Screws Into Nut to Plug Line

Part No.	Tube O.D.	J.I.C. Thread	Hex Size	Length
3105P-4	1/4"	7/16"-20	1/2"	47/64"
3105P-5	5/16"	1/2"-20	9/16"	49/64"
3105P-6	3/8"	9/16"-18	5/8"	13/16"
3105P-8	1/2"	3/4"-16	13/16"	15/16"
3105P-10	5/8"	7/8"-14	1 5/16"	17/64"
3105P-12	3/4"	1 1/16"-12	1 1/8"	1 13/64"
3105P-14	7/8"	1 3/16"-12	1 1/4"	1 15/64"
3105P-16	1"	1 5/16"-12	1 3/8"	1 9/32"
3105P-20	1 1/4"	1 5/8"-12	1 11/16"	1 25/64"
3105P-24	1 1/2"	1 7/8"-12	2"	1 31/64"
3105P-32	2"	2 1/2"-12	2 5/8"	2 3/64"

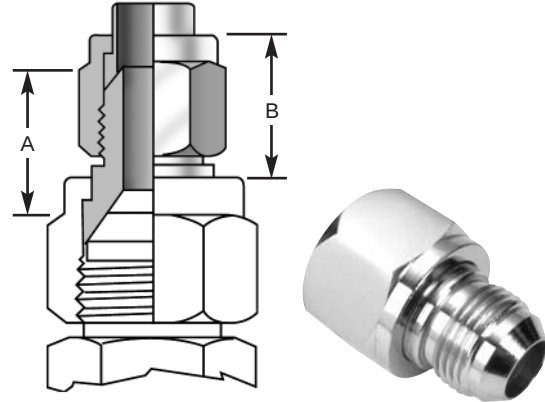
ADAPTERS

STEEL PIPE FITTINGS

3145 / 3140 • Flare Tube End Reducers

Reducer Only	Part No.	Tube End Reduction	"A" Length Between Flare Noses	"B" Length Between Nut Shoulders
3145-5-4	3140-5-4	5/16" To 1/4"	13/16"	23/32"
3145-6-4	3140-6-4	3/8" To 1/4"	29/32"	27/32"
3145-8-4	3140-8-4	1/2" To 1/4"	29/32"	25/32"
3145-8-5	3140-8-5	1/2" To 5/16"	29/32"	27/32"
3145-8-6	3140-8-6	1/2" To 3/8"	29/32"	27/32"
3145-10-4	3140-10-4	5/8" To 1/4"	15/16"	3/4"
3145-10-6	3140-10-6	5/8" To 3/8"	15/16"	13/16"
3145-10-8	3140-10-8	5/8" To 1/2"	1"	31/32"
3145-12-4	3140-12-4	3/4" To 1/4"	31/32"	7/8"
3145-12-6	3140-12-6	3/4" To 3/8"	31/32"	29/32"
3145-12-8	3140-12-8	3/4" To 1/2"	11/16"	11/32"
3145-12-10	3140-12-10	3/4" To 5/8"	11/32"	11/8"
3145-14-6	3140-14-6	7/8" To 3/8"	1"	7/8"
3145-14-8	3140-14-8	7/8" To 1/2"	13/32"	1"
3145-14-10	3140-14-10	7/8" To 5/8"	13/16"	15/32"
3145-14-12	3140-14-12	7/8" To 3/4"	17/32"	13/16"
3145-16-5	3140-16-5	1" To 5/16"	1"	29/32"
3145-16-6	3140-16-6	1" To 3/8"	11/32"	7/8"
3145-16-8	3140-16-8	1" To 1/2"	15/32"	11/32"
3145-16-10	3140-16-10	1" To 5/8"	11/4"	13/16"
3145-16-12	3140-16-12	1" To 3/4"	111/32"	11/4"
3145-20-8	3140-20-8	11/4" To 1/2"	13/16"	11/8"
3145-20-12	3140-20-12	11/4" To 3/4"	113/32"	19/32"
3145-20-16	3140-20-16	11/4" To 1"	17/16"	113/32"
3145-24-8	3140-24-8	11/2" To 1/2"	15/16"	11/16"
3145-24-10	3140-24-10	11/2" To 5/8"	11/2"	17/32"
3145-24-12	3140-24-12	11/2" To 3/4"	11/2"	11/4"
3145-24-16	3140-24-16	11/2" To 1"	111/16"	13/8"
3145-24-20	3140-24-20	11/2" To 11/4"	19/16"	17/16"
3145-32-16	3140-32-16	2" To 1"	19/16"	17/16"
3145-32-20	3140-32-20	2" To 11/4"	111/16"	11/2"
3145-32-24	3140-32-24	2" To 11/2"	113/16"	13/4"

3140 FLARE TUBE END REDUCERS



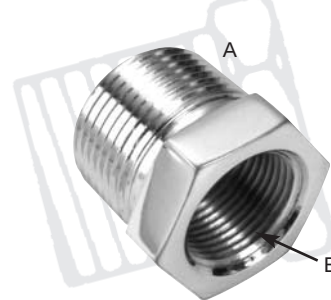
Lenz Flare Tube End Reducers make possible line reductions on any leg by use of standard adapters. Saves time and simplifies tubing systems. Eliminates large inventory of special fittings and sizes and possibility of obsolescence.

Part numbers shown in table include body, nut and sleeve. For reducers without nut and sleeve order by Part Number 3145.

HB • Hex Bushings

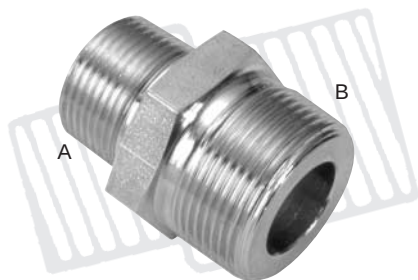
Part No.	"A" Male Pipe Thread	"B" Female Pipe Thread	Hex Size	Length
4-2HB	1/4"	1/8"	5/8"	27/32"
6-2HB	3/8"	1/8"	3/4"	27/32"
6-4HB	3/8"	1/4"	3/4"	27/32"
8-2HB	1/2"	1/8"	7/8"	17/64"
8-4HB	1/2"	1/4"	7/8"	17/64"
8-6HB	1/2"	3/8"	7/8"	17/64"
12-2HB	3/4"	1/8"	11/8"	13/16"
12-4HB	3/4"	1/4"	11/8"	13/16"
12-6HB	3/4"	3/8"	11/8"	13/16"
12-8HB	3/4"	1/2"	11/8"	111/64"
16-4HB	1"	1/4"	13/8"	123/64"
16-6HB	1"	3/8"	13/8"	123/64"
16-8HB	1"	1/2"	13/8"	123/64"
16-12HB	1"	3/4"	13/8"	123/64"
20-4HB	11/4"	1/4"	13/4"	115/32"
20-6HB	11/4"	3/8"	13/4"	115/32"
20-8HB	11/4"	1/2"	13/4"	115/32"
20-12HB	11/4"	3/4"	13/4"	115/32"
20-16HB	11/4"	1"	13/4"	115/32"
24-4HB	11/2"	1/4"	2"	137/64"
24-6HB	11/2"	3/8"	2"	137/64"
24-8HB	11/2"	1/2"	2"	137/64"
24-12HB	11/2"	3/4"	2"	137/64"
24-16HB	11/2"	1"	2"	137/64"
24-20HB	11/2"	11/4"	2"	137/64"
32-6HB	2"	3/8"	21/2"	13/4"
32-8HB	2"	1/2"	21/2"	13/4"
32-12HB	2"	3/4"	21/2"	13/4"
32-16HB	2"	1"	21/2"	13/4"
32-20HB	2"	11/4"	21/2"	13/4"
32-24HB	2"	11/2"	21/2"	13/4"

HB HEX BUSHINGS



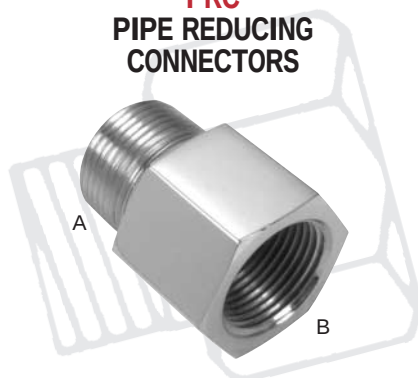
ADAPTERS

T A P E R E D P I P E T H R E A D

RPN
REDUCING
PIPE NIPPLES

RPN • Reducing Pipe Nipples

Part No.	"A" Male Pipe Thread	"B" Male Pipe Thread	Hex Size	Length
2-4RPN	1/8"	1/4"	9/16"	17/32"
2-6RPN	1/8"	3/8"	11/16"	1 1/4"
4-6RPN	1/4"	3/8"	11/16"	1 13/32"
4-8RPN	1/4"	1/2"	7/8"	1 5/8"
6-8RPN	3/8"	1/2"	7/8"	1 5/8"
6-12RPN	3/8"	3/4"	1 1/16"	1 11/16"
8-12RPN	1/2"	3/4"	1 1/16"	1 7/8"
8-16RPN	1/2"	1"	1 3/8"	2 3/32"
12-16RPN	3/4"	1"	1 3/8"	2 3/32"
12-20RPN	3/4"	1 1/4"	1 3/4"	2 3/32"
16-20RPN	1"	1 1/4"	1 3/4"	2 11/32"
16-24RPN	1"	1 1/2"	2"	2 7/16"
20-24RPN	1 1/4"	1 1/2"	2"	2 15/32"
20-32RPN	1 1/4"	2"	2 1/2"	2 21/32"
24-32RPN	1 1/2"	2"	2 1/2"	2 11/16"

PRC
PIPE REDUCING
CONNECTORS

PRC • Pipe Reducing Connectors

Part No.	"A" Male Pipe Thread	"B" Female Pipe Thread	Hex Size	Length
2-4PRC	1/8"	1/4"	3/4"	1 3/32"
2-6PRC	1/8"	3/8"	7/8"	1 9/32"
4-4PRC	1/4"	1/4"	3/4"	1 5/16"
4-2PRC	1/4"	1/8"	5/8"	1"
4-6PRC	1/4"	3/8"	7/8"	1 1/2"
4-8PRC	1/4"	1/2"	1 1/8"	1 5/8"
6-6PRC	3/8"	3/8"	7/8"	1 3/8"
6-4PRC	3/8"	1/4"	3/4"	1 1/4"
6-8PRC	3/8"	1/2"	1 1/8"	1 5/8"
6-12PRC	3/8"	3/4"	1 3/8"	1 3/4"
8-8PRC	1/2"	1/2"	1 1/8"	1 13/16"
8-4PRC	1/2"	1/4"	7/8"	1 1/2"
8-6PRC	1/2"	3/8"	7/8"	1 11/16"
8-12PRC	1/2"	3/4"	1 3/8"	1 15/16"
8-16PRC	1/2"	1"	1 5/8"	2 3/16"
12-12PRC	3/4"	3/4"	1 3/8"	1 27/32"
12-6PRC	3/4"	3/8"	1 1/16"	1 1/2"
12-8PRC	3/4"	1/2"	1 1/8"	1 9/16"
12-16PRC	3/4"	1"	1 5/8"	2 3/16"
12-20PRC	3/4"	1 1/4"	2"	2 11/32"
16-16PRC	1"	1"	1 5/8"	2 1/4"
16-8PRC	1"	1/2"	1 3/8"	1 5/8"
16-12PRC	1"	3/4"	1 3/8"	1 15/16"
16-20PRC	1"	1 1/4"	2"	2 13/32"
20-20PRC	1 1/4"	1 1/4"	2"	2 3/8"
20-12PRC	1 1/4"	3/4"	1 3/4"	2"
20-16PRC	1 1/4"	1"	1 3/4"	2 1/8"
20-24PRC	1 1/4"	1 1/2"	2 3/8"	2 9/16"
24-24PRC	1 1/2"	1 1/2"	2 3/8"	2 13/32"
24-20PRC	1 1/2"	1 1/4"	2"	2 1/4"
24-32PRC	1 1/2"	2"	3"	2 3/4"
32-32PRC	2"	2"	3"	2 3/4"
32-20PRC	2"	1 1/4"	2 1/2"	2 3/8"

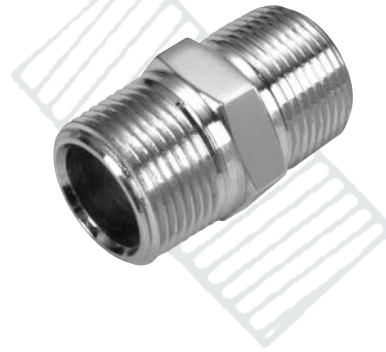
ADAPTERS

T A P E R E D P I P E T H R E A D S

PN • Pipe Nipples

Part No.	Male Pipe Thread	Hex Size	Length	Bore
2PN	1/8"	7/16"	15/16"	3/16"
4PN	1/4"	9/16"	13/8"	9/32"
6PN	3/8"	11/16"	1 13/32"	13/32"
8PN	1/2"	7/8"	1 13/16"	35/64"
12PN	3/4"	1 1/16"	1 7/8"	23/32"
16PN	1"	1 3/8"	2 7/32"	15/16"
20PN	1 1/4"	1 3/4"	2 13/32"	1 1/4"
24PN	1 1/2"	2"	2 19/32"	1 15/32"
32PN	2"	2 1/2"	2 13/16"	1 3/4"

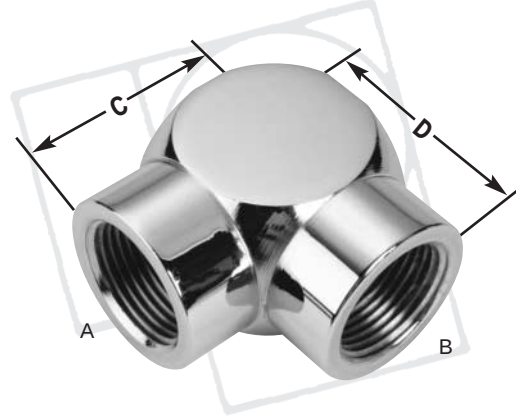
PN PIPE NIPPLES



FPE • Female Pipe Elbows

Part No.	"A" Female Pipe Thread	"B" Female Pipe Thread	"C" Female Pipe Leg	"D" Female Pipe Leg
2-2FPE	1/8"	1/8"	21/32"	21/32"
2-4FPE	1/8"	1/4"	25/32"	29/32"
2-6FPE	1/8"	3/8"	27/32"	31/32"
4-4FPE	1/4"	1/4"	29/32"	29/32"
4-6FPE	1/4"	3/8"	31/32"	31/32"
4-8FPE	1/4"	1/2"	1 1/32"	1 1/4"
6-6FPE	3/8"	3/8"	31/32"	31/32"
6-8FPE	3/8"	1/2"	1 1/32"	1 1/4"
6-12FPE	3/8"	3/4"	1 5/32"	1 11/32"
8-8FPE	1/2"	1/2"	1 1/4"	1 1/4"
8-12FPE	1/2"	3/4"	1 3/8"	1 11/32"
8-16FPE	1/2"	1"	1 9/16"	1 5/8"
12-12FPE	3/4"	3/4"	1 11/32"	1 11/32"
12-16FPE	3/4"	1"	1 17/32"	1 5/8"
12-20FPE	3/4"	1 1/4"	1 23/32"	1 11/16"
16-16FPE	1"	1"	1 5/8"	1 5/8"
16-20FPE	1"	1 1/4"	1 13/16"	1 11/16"
16-24FPE	1"	1 1/2"	1 15/16"	2 1/16"
20-20FPE	1 1/4"	1 1/4"	1 11/16"	1 11/16"
20-24FPE	1 1/4"	1 1/2"	1 13/16"	2 1/16"
24-24FPE	1 1/2"	1 1/2"	2 1/16"	2 1/16"
32-32FPE	2"	2"	2 3/8"	2 3/8"

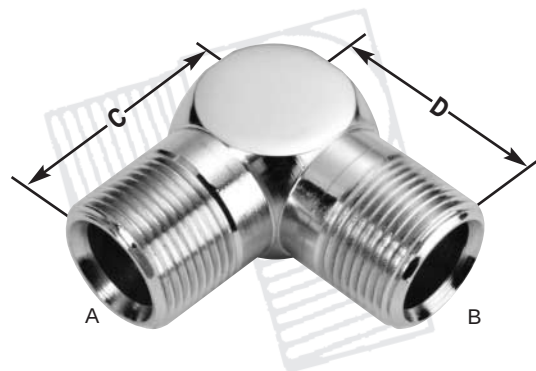
FPE FEMALE PIPE ELBOWS



MPE • Male Pipe Elbows

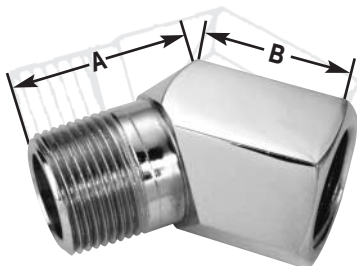
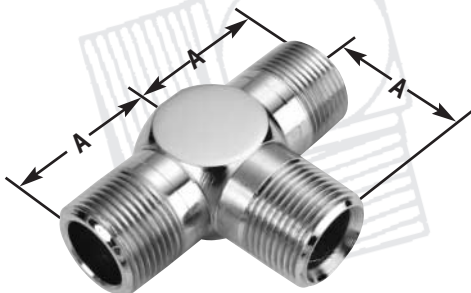
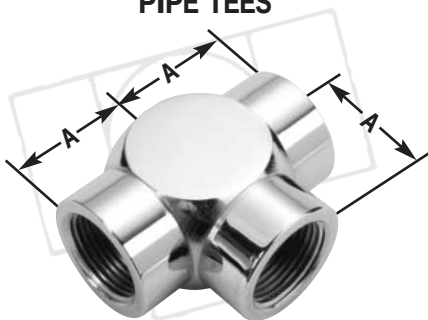
Part No.	"A" Male Pipe Thread	"B" Male Pipe Thread	"C" Male Pipe Leg	"D" Male Pipe Leg
2-2MPE	1/8"	1/8"	25/32"	25/32"
2-4MPE	1/8"	1/4"	27/32"	13/32"
4-4MPE	1/4"	1/4"	13/32"	13/32"
4-6MPE	1/4"	3/8"	15/32"	17/32"
6-6MPE	3/8"	3/8"	17/32"	17/32"
6-8MPE	3/8"	1/2"	1 9/32"	1 15/32"
8-8MPE	1/2"	1/2"	1 15/32"	1 15/32"
8-12MPE	1/2"	3/4"	1 19/32"	1 19/32"
12-12MPE	3/4"	3/4"	1 19/32"	1 19/32"
12-16MPE	3/4"	1"	1 23/32"	1 31/32"
16-16MPE	1"	1"	1 31/32"	1 31/32"
20-20MPE	1 1/4"	1 1/4"	2 3/8"	2 3/8"
24-24MPE	1 1/2"	1 1/2"	2 5/8"	2 5/8"
32-32MPE	2"	2"	3"	3"

MPE MALE PIPE ELBOWS



ADAPTERS

T A P E R E D P I P E T H R E A D

SE
STREET ELBOWS45 SE
45° STREET ELBOWSMPT
MALE PIPE TEEPT
PIPE TEES

SE • Street Elbows

Part No.	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
2-2SE	1/8"	1/8"	13/16"	21/32"
2-4SE	1/8"	1/4"	15/16"	29/32"
2-6SE	1/8"	3/8"	1"	31/32"
4-4SE	1/4"	1/4"	13/16"	29/32"
4-2SE	1/4"	1/8"	11/16"	21/32"
4-6SE	1/4"	3/8"	1 1/4"	31/32"
6-6SE	3/8"	3/8"	1 5/16"	31/32"
6-4SE	3/8"	1/4"	1 3/16"	29/32"
6-8SE	3/8"	1/2"	1 3/8"	1 1/4"
8-8SE	1/2"	1/2"	1 1/2"	1 1/4"
8-6SE	1/2"	3/8"	1 7/16"	31/32"
8-12SE	1/2"	3/4"	1 5/8"	1 11/32"
12-12SE	3/4"	3/4"	1 21/32"	1 11/32"
12-8SE	3/4"	1/2"	1 17/32"	1 1/4"
12-16SE	3/4"	1"	1 25/32"	1 5/8"
16-16SE	1"	1"	2 1/16"	1 5/8"
16-12SE	1"	3/4"	1 7/8"	1 11/32"
16-20SE	1"	1 1/4"	2 9/32"	1 11/16"
20-20SE	1 1/4"	1 1/4"	2 1/2"	1 11/16"
24-24SE	1 1/2"	1 1/2"	2 3/4"	2 1/16"
32-32SE	2"	2"	3 1/8"	2 3/8"

45 • SE 45° Street Elbows

Part No.	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
2-45SE	1/8"	1/8"	11/16"	5/8"
4-45SE	1/4"	1/4"	15/16"	27/32"
6-45SE	3/8"	3/8"	1"	31/32"
8-45SE	1/2"	1/2"	1 1/4"	1 3/32"
12-45SE	3/4"	3/4"	1 11/32"	1 1/4"
16-45SE	1"	1"	1 11/16"	1 7/16"
20-45SE	1 1/4"	1 1/4"	1 13/16"	1 5/8"
24-45SE	1 1/2"	1 1/2"	1 31/32"	1 11/16"
32-45SE	2"	2"	2 15/32"	2 3/16"

MPT • Male Pipe Tee

Part No.	"A" Male Pipe Thread	"A" Male Pipe Leg
2MPT	1/8"	25/32"
4MPT	1/4"	13/32"
6MPT	3/8"	17/32"
8MPT	1/2"	1 15/32"
12MPT	3/4"	1 19/32"
16MPT	1"	1 31/32"
20MPT	1 1/4"	2 3/8"

PT • Pipe Tees

Part No.	"A" Female Pipe Thread	"A" Female Pipe Leg
2PT	1/8"	21/32"
4PT	1/4"	29/32"
6PT	3/8"	31/32"
8PT	1/2"	1 1/4"
12PT	3/4"	1 11/32"
16PT	1"	1 5/8"
20PT	1 1/4"	1 11/16"
24PT	1 1/2"	2 1/16"
32PT	2"	2 3/8"

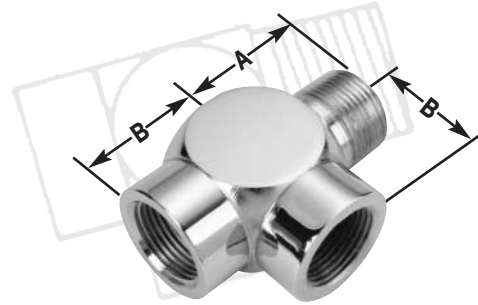
ADAPTERS

T A P E R E D P I P E T H R E A D

ST • Street Tees

Part No.	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
2ST	1/8"	1/8"	13/16"	21/32"
4ST	1/4"	1/4"	13/16"	29/32"
6ST	3/8"	3/8"	15/16"	31/32"
8ST	1/2"	1/2"	1 1/2"	1 1/4"
12ST	3/4"	3/4"	1 21/32"	1 11/32"
16ST	1"	1"	2 1/16"	1 5/8"
20ST	1 1/4"	1 1/4"	2 1/2"	1 11/16"
24ST	1 1/2"	1 1/2"	2 3/4"	2 1/16"
32ST	2"	2"	3 1/8"	2 3/8"

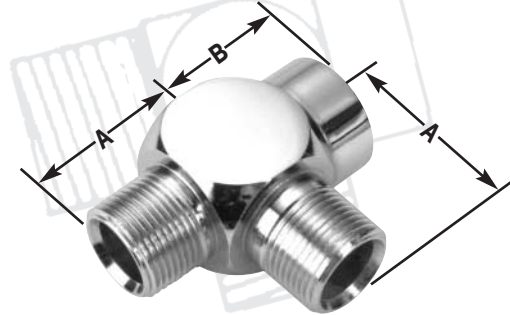
ST STREET TEES



MST • Male Street Tee

Part No.	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
2MST	1/8"	1/8"	13/16"	21/32"
4MST	1/4"	1/4"	13/16"	29/32"
6MST	3/8"	3/8"	15/16"	31/32"
8MST	1/2"	1/2"	1 1/2"	1 1/4"
12MST	3/4"	3/4"	1 21/32"	1 11/32"
16MST	1"	1"	2 1/16"	1 5/8"
20MST	1 1/4"	1 1/4"	2 1/2"	1 11/16"

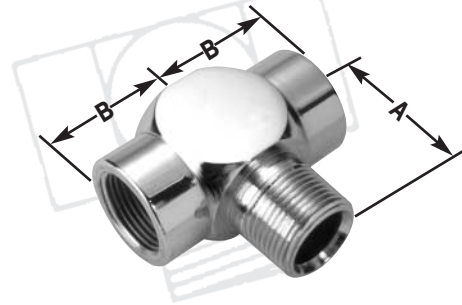
MST MALE STREET TEE



FRT • Female Run Tee

Part No.	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
2FRT	1/8"	1/8"	13/16"	21/32"
4FRT	1/4"	1/4"	13/16"	29/32"
6FRT	3/8"	3/8"	15/16"	31/32"
8FRT	1/2"	1/2"	1 1/2"	1 1/4"
12FRT	3/4"	3/4"	1 21/32"	1 11/32"
16FRT	1"	1"	1 5/8"	1 5/8"
20FRT	1 1/4"	1 1/4"	2 1/2"	1 11/16"
24FRT	1 1/2"	1 1/2"	2 3/4"	2 1/16"

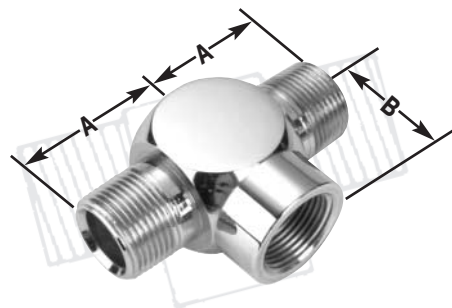
FRT FEMALE RUN TEE



MRT Male Run Tee

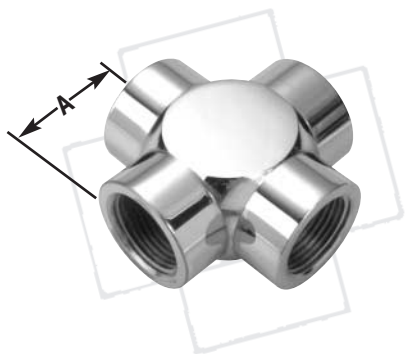
Part No.	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
2MRT	1/8"	1/8"	13/16"	21/32"
4MRT	1/4"	1/4"	13/16"	29/32"
6MRT	3/8"	3/8"	15/16"	31/32"
8MRT	1/2"	1/2"	1 1/2"	1 1/4"
12MRT	3/4"	3/4"	1 21/32"	1 11/32"
16MRT	1"	1"	2 1/16"	1 5/8"
20MRT	1 1/4"	1 1/4"	2 1/2"	1 11/16"

MRT MALE RUN TEE



ADAPTERS

PIPE FITTINGS

FPC
FEMALE PIPE CROSS

FPC • Female Pipe Cross

Part No.	Female Pipe Thread	"A" Female Pipe Leg
2FPC	1/8"	21/32"
4FPC	1/4"	29/32"
6FPC	3/8"	31/32"
8FPC	1/2"	1 1/4"
12FPC	3/4"	1 11/32"
16FPC	1"	1 5/8"
20FPC	1 1/4"	1 11/16"
24FPC	1 1/2"	2 1/16"
32FPC	2"	2 3/8"

PC
PIPE COUPLINGS

PC • Pipe Couplings

Part No.	Female Pipe Thread	Hex Size	Length
2PC	1/8"	5/8"	7/8"
4PC	1/4"	3/4"	1 1/8"
6PC	3/8"	15/16"	1 7/32"
8PC	1/2"	1 1/8"	1 5/8"
12PC	3/4"	1 3/8"	1 11/16"
16PC	1"	1 5/8"	1 15/16"
20PC	1 1/4"	2"	2"
24PC	1 1/2"	2 3/8"	2 1/16"
32PC	2"	3"	2 1/16"

RPC
REDUCING PIPE COUPLINGS

RPC • Reducing Pipe Couplings

Part No.	"A" Female Pipe Thread	"B" Female Pipe Thread	Hex Size	Length
4-2RPC	1/4"	1/8"	3/4"	1"
6-4RPC	3/8"	1/4"	1"	1 3/16"
8-4RPC	1/2"	1/4"	1 1/8"	1 15/32"
8-6RPC	1/2"	3/8"	1 1/8"	1 15/32"
12-8RPC	3/4"	1/2"	1 3/8"	1 21/32"

PU
PIPE UNIONS

PU • Pipe Unions

Part No.	Female Pipe Thread	Hex Size	Length
2PU	1/8"	1 1/8"	1 11/16"
4PU	1/4"	1 3/8"	1 27/32"
6PU	3/8"	1 5/8"	2"
8PU	1/2"	1 7/8"	2 3/16"
12PU	3/4"	2 1/8"	2 11/32"
16PU	1"	2 3/8"	2 1/2"
20PU	1 1/4"	2 7/8"	2 5/8"
24PU	1 1/2"	3 1/4" OCT.	2 15/16"
32PU	2"	4" OCT.	3 1/4"

ADAPTERS

PIPE FITTINGS

HHP • Hollow Hex Plugs

Part No.	Male Pipe Thread	Internal Hex	Length
2HHP	1/8"	3/16"	3/8"
4HHP	1/4"	1/4"	7/16"
6HHP	3/8"	5/16"	1/2"
8HHP	1/2"	3/8"	9/16"
12HHP	3/4"	9/16"	5/8"
16HHP	1"	5/8"	3/4"
20HHP	1 1/4"	3/4"	13/16"
24HHP	1 1/2"	1"	53/64"
32HHP	2"	1"	15/16"

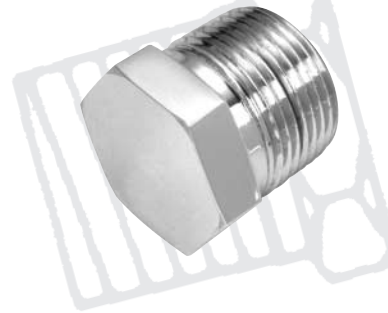
HHP HOLLOW HEX PLUGS



HP • Hex Plugs

Part No.	Male Pipe Thread	Hex Size	Length
2HP	1/8"	7/16"	9/16"
4HP	1/4"	5/8"	25/32"
6HP	3/8"	3/4"	25/32"
8HP	1/2"	7/8"	31/32"
12HP	3/4"	1 1/8"	1 1/16"
16HP	1"	1 3/8"	1 1/4"
20HP	1 1/4"	1 3/4"	1 5/16"
24HP	1 1/2"	2"	1 5/16"
32HP	2"	2 1/2"	1 3/4"

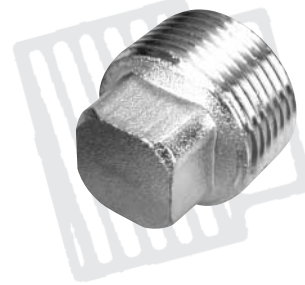
HP HEX PLUGS



SHP • Square Head Plugs

Part No.	Male Pipe Thread	Square Size	Length
2SHP	1/8"	9/32"	5/8"
4SHP	1/4"	3/8"	25/32"
6SHP	3/8"	7/16"	13/16"
8SHP	1/2"	9/16"	1 1/32"
12SHP	3/4"	5/8"	1 1/16"
16SHP	1"	13/16"	29/32"

SHP SQUARE HEAD PLUGS

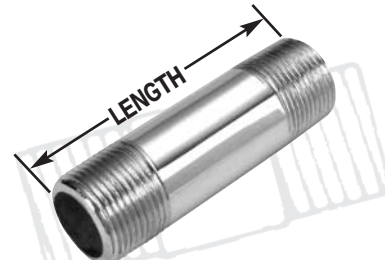


SPN • Seamless Pipe Nipples

Part No.	Male Pipe Thread	"L" Close Nipple Length	Length* to 6" x 1/2" Increments
2SPN x L	1/8"	3/4"	1 1/2"-6"
4SPN x L	1/4"	7/8"	1 1/2"-6"
6SPN x L	3/8"	1"	1 1/2"-6"
8SPN x L	1/2"	1 1/8"	1 1/2"-6"
12SPN x L	3/4"	1 3/8"	2"-6"
16SPN x L	1"	1 1/2"	2"-6"
20SPN x L	1 1/4"	1 5/8"	2"-6"
24SPN x L	1 1/2"	1 3/4"	2 1/2"-6"
32SPN x L	2"	2"	2 1/2"-6"

Example of Part No.: 8SPN x 3"

SPN SEAMLESS PIPE NIPPLES- EXTRA HEAVY PIPE



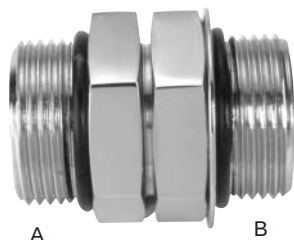
*Longer lengths available upon request.

ADAPTERS

S T R A I G H T T H R E A D S

AAU

S.A.E. MALE X S.A.E. MALE UNION



AAU • S.A.E. Male x S.A.E. Male Union

Part Number	"A" Straight Thread Male	"B" Straight Thread Male	Overall Length
4-AAU	7/16"-20	7/16"-20	17/32"
6-AAU	9/16"-18	9/16"-18	113/32"
8-AAU	3/4"-16	3/4"-16	19/16"
10-AAU	7/8"-14	7/8"-14	113/16"
12-AAU	1 1/16"-12	1 1/16"-12	2 1/8"
16-AAU	1 5/16"-12	1 5/16"-12	2 1/8"
20-AAU	1 5/8"-12	1 5/8"-12	2 1/8"
24-AAU	1 7/8"-12	1 7/8"-12	2 27/64"
32-AAU	2 1/2"-12	2 1/2"-12	2 19/32"

ASE

S.A.E. MALE X FEMALE PIPE ELBOW

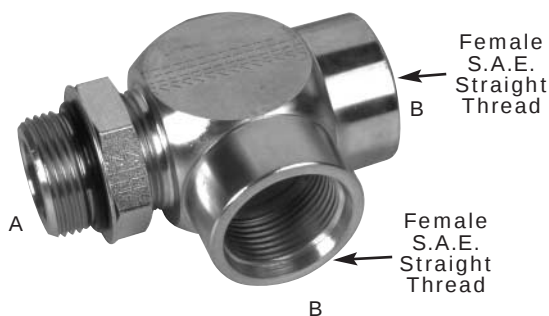


ASE • S.A.E. Male x Female Pipe Elbow

Part Number	"A" Straight Thread Male	"B" Female Pipe N.P.T.
4-4ASE	7/16"-20	1/4" NPT
6-6ASE	9/16"-18	3/8" NPT
8-8ASE	3/4"-16	1/2" NPT
12-12ASE	1 1/16"-12	3/4" NPT
16-16ASE	1 5/16"-12	1" NPT
20-20ASE	1 5/8"-12	1 1/4" NPT
24-24ASE	1 7/8"-12	1 1/2" NPT
32-32ASE	2 1/2"-12	2" NPT

AST

S.A.E. MALE X S.A.E. FEMALE X S.A.E. FEMALE

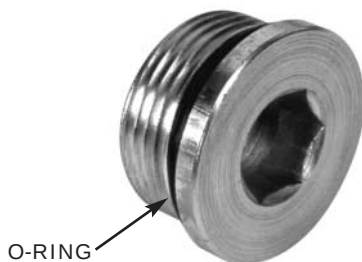


AST • S.A.E. MALE x S.A.E. FEMALE x S.A.E. FEMALE

Part Number	"A" Straight Thread Male	"B" Straight Thread Female S.A.E.
4-4AST	7/16"-20	7/16"-20
6-6AST	9/16"-18	9/16"-18
8-8AST	3/4"-16	3/4"-16
12-12AST	1 1/16"-12	1 1/16"-12
16-16AST	1 5/16"-12	1 5/16"-12
20-20AST	1 5/8"-12	1 5/8"-12
24-24AST	1 7/8"-12	1 7/8"-12
32-32AST	2 1/2"-12	2 1/2"-12

AHHP

"O" RING HOLLOW HEX PLUG



AHHP • "O" Ring Hollow Hex Plug

Part Number	Male Straight Thread	Length
4-AHHP	7/16"-20	15/32"
6-AHHP	9/16"-18	1/2"
8-AHHP	3/4"-16	37/64"
10-AHHP	7/8"-14	37/64"
12-AHHP	1 1/16"-12	49/64"
16-AHHP	1 5/16"-12	49/64"
20-AHHP	1 5/8"-12	49/64"
24-AHHP	1 7/8"-12	49/64"
32-AHHP	2 1/2"-12	49/64"

ADAPTERS

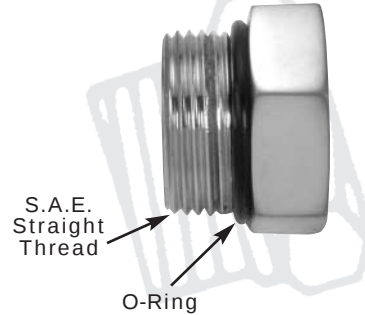
S T R A I G H T T H R E A D S

ADAPTERS

STP • S.A.E. Straight Thread Plug

Part No.	Male Straight Thread	Length
4STP	7/16"-20	43/64"
5STP	1/2"-20	43/64"
6STP	9/16"-18	47/64"
8STP	3/4"-16	51/64"
10STP	7/8"-14	15/16"
12STP	1 1/16"-12	13/32"
14STP	1 3/16"-12	13/32"
16STP	1 5/16"-12	113/64"
20STP	1 5/8"-12	113/64"
24STP	1 7/8"-12	117/64"
32STP	2 1/2"-12	17/16"

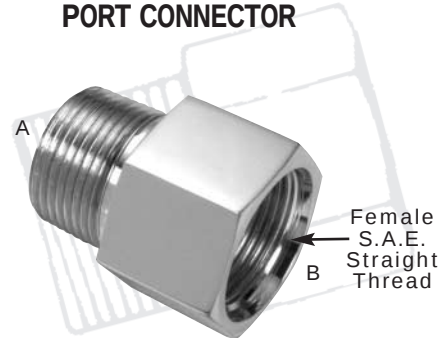
STP S.A.E. STRAIGHT THREAD PLUG WITH "O-RING" TO PLUG STRAIGHT THREAD BOSS (Not counter-bored)



PAC • Male Pipe Thread to S.A.E. Straight Thread Port Connector

Part No.	"A" Male Pipe Thread	"B" Female Straight Thread	Overall Length
2-4PAC	1/8"	7/16"-20	13/8"
2-5PAC	1/8"	1/2"-20	13/8"
4-6PAC	1/4"	9/16"-18	19/16"
6-8PAC	3/8"	3/4"-16	19/16"
8-10PAC	1/2"	7/8"-14	113/16"
12-12PAC	3/4"	1 1/16"-12	131/32"
12-14PAC	3/4"	1 3/16"-12	21/32"
16-16PAC	1"	1 5/16"-12	25/32"
20-20PAC	1 1/4"	1 5/8"-12	2 1/4"
24-24PAC	1 1/2"	1 7/8"-12	2 9/32"
32-32PAC	2"	2 1/2"-12	2 5/16"

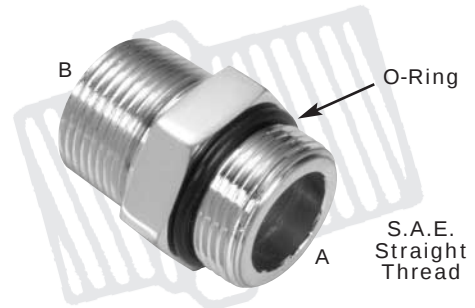
PAC MALE PIPE THREAD TO S.A.E. STRAIGHT THREAD PORT CONNECTOR



APN • Male Connector S.A.E. Straight Thread to Male Pipe Thread

Part No.	"A" Male Straight Thread	"B" Male Pipe Thread	Overall Length
4-2APN	7/16"-20	1/8"	1"
4-4APN	7/16"-20	1/4"	13/16"
5-2APN	1/2"-20	1/8"	1"
5-4APN	1/2"-20	1/4"	13/16"
6-4APN	9/16"-18	1/4"	1 1/4"
6-2APN	9/16"-18	1/8"	1 1/32"
6-6APN	9/16"-18	3/8"	1 1/4"
8-6APN	3/4"-16	3/8"	1 5/16"
8-8APN	3/4"-16	1/2"	1 17/32"
10-8APN	7/8"-14	1/2"	1 9/16"
12-12APN	1 1/16"-12	3/4"	1 3/4"
14-12APN	1 3/16"-12	3/4"	1 3/4"
16-16APN	1 5/16"-12	1"	1 15/16"
20-20APN	1 5/8"-12	1 1/4"	2"
24-24APN	1 7/8"-12	1 1/2"	2 1/16"
32-32APN	2 1/2"-12	2"	2 5/32"

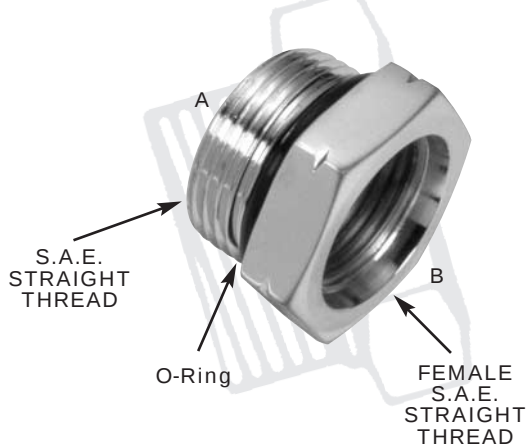
APN MALE CONNECTOR S.A.E. STRAIGHT THREAD TO MALE PIPE THREAD



ADAPTERS

S T R A I G H T T H R E A D S

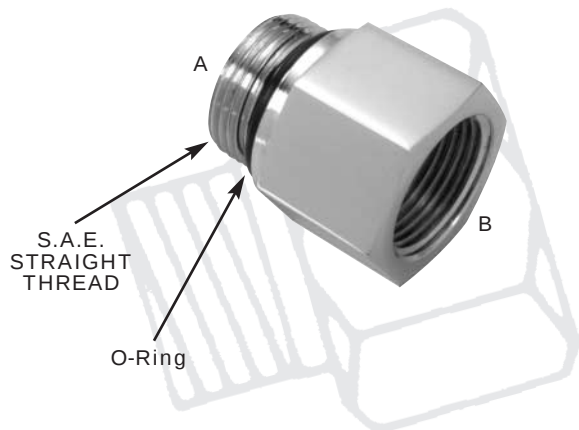
ARC
S.A.E. STRAIGHT THREAD TO S.A.E.
STRAIGHT THREAD PORT BUSHING



ARC • S.A.E. Straight Thread to S.A.E.
Straight Thread Port Bushing

Part No.	"A" Straight Thread Male	"B" Straight Thread Female	Overall Length
4-6ARC	7/16"-20	9/16"-18	1 1/8"
6-4ARC	9/16"-18	7/16"-20	1 1/32"
6-8ARC	9/16"-18	3/4"-16	1 5/16"
8-4ARC	3/4"-16	7/16"-20	3/4"
8-6ARC	3/4"-16	9/16"-18	1 1/8"
10-8ARC	7/8"-14	3/4"-16	1 5/16"
10-12ARC	7/8"-14	1 1/16"-12	1 5/8"
12-8ARC	1 1/16"-12	3/4"-16	1"
12-10ARC	1 1/16"-12	7/8"-14	1 17/32"
14-6ARC	1 3/16"-12	9/16"-18	1"
14-10ARC	1 3/16"-12	7/8"-14	1"
14-12ARC	1 3/16"-12	1 1/16"-12	1 21/32"
16-8ARC	1 5/16"-12	3/4"-16	1"
16-12ARC	1 5/16"-12	1 1/16"-12	1"
16-14ARC	1 5/16"-12	1 3/16"-12	1 21/32"
16-20ARC	1 5/16"-12	1 5/8"-12	1 31/32"
20-10ARC	1 5/8"-12	7/8"-14	1"
20-12ARC	1 5/8"-12	1 1/16"-12	1"
20-16ARC	1 5/8"-12	1 5/16"-12	1"
20-24ARC	1 5/8"-12	1 7/8"-12	1 7/8"
24-16ARC	1 7/8"-12	1 5/16"-12	1"
24-20ARC	1 7/8"-12	1 5/8"-12	1 19/32"
32-20ARC	2 1/2"-12	1 5/8"-12	1"
32-24ARC	2 1/2"-12	1 7/8"-12	1"

APC
FEMALE CONNECTOR S.A.E.
STRAIGHT THREAD TO FEMALE PIPE THREAD



APC • Female Connector S.A.E.
Straight Thread To Female Pipe Thread

Part No.	"A" Male Straight Thread	"B" Female Pipe Thread	Overall Length
4-2APC	7/16"-20	1/8"	1"
4-4APC	7/16"-20	1/4"	1 13/32"
5-2APC	1/2"-20	1/8"	1"
6-4APC	9/16"-18	1/4"	1 3/16"
8-6APC	3/4"-16	3/8"	1 5/16"
8-4APC	3/4"-16	1/4"	1 3/64"
8-8APC	3/4"-16	1/2"	1 17/32"
10-8APC	7/8"-14	1/2"	1 35/64"
10-4APC	7/8"-14	1/4"	1 3/16"
10-6APC	7/8"-14	3/8"	1 9/32"
10-12APC	7/8"-14	3/4"	1 21/32"
12-12APC	1 1/16"-12	3/4"	1 11/16"
12-6APC	1 1/16"-12	3/8"	1"
12-8APC	1 1/16"-12	1/2"	1 15/32"
14-12APC	1 3/16"-12	3/4"	1 5/8"
14-8APC	1 3/16"-12	1/2"	1"
16-16APC	1 5/16"-12	1"	1 29/32"
16-6APC	1 5/16"-12	3/8"	1"
16-8APC	1 5/16"-12	1/2"	1"
16-12APC	1 5/16"-12	3/4"	1 11/16"
20-20APC	1 5/8"-12	1 1/4"	2"
20-12APC	1 5/8"-12	3/4"	1"
20-16APC	1 5/8"-12	1"	1"
24-24APC	1 7/8"-12	1 1/2"	2 3/32"
24-20APC	1 7/8"-12	1 1/4"	1 29/32"
32-32APC	2 1/2"-12	2"	2 1/32"

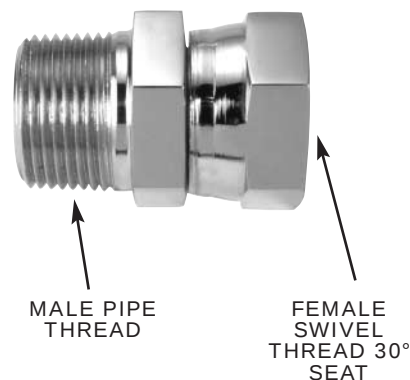
ADAPTERS

T A P E R E D P I P E T H R E A D

M-UAD • Male Union Swivel Adapter

Part No.	Male Pipe Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
2M-2UAD	1/8"	1/8"	27/32"
2M-4UAD	1/8"	1/4"	1"
4M-4UAD	1/4"	1/4"	17/32"
4M-6UAD	1/4"	3/8"	19/32"
6M-4UAD	3/8"	1/4"	19/32"
6M-6UAD	3/8"	3/8"	19/32"
6M-8UAD	3/8"	1/2"	111/32"
8M-6UAD	1/2"	3/8"	111/2"
8M-8UAD	1/2"	1/2"	19/16"
8M-12UAD	1/2"	3/4"	15/8"
12M-8UAD	3/4"	1/2"	19/16"
12M-12UAD	3/4"	3/4"	15/8"
12M-16UAD	3/4"	1"	123/32"
16M-12UAD	1"	3/4"	17/8"
16M-16UAD	1"	1"	129/32"
16M-20UAD	1"	11/4"	2"
20M-20UAD	11/4"	11/4"	21/32"
20M-24UAD	11/4"	11/2"	21/16"
24M-24UAD	11/2"	11/2"	23/32"
32M-32UAD	2"	2"	29/32"

M-UAD MALE UNION SWIVEL ADAPTER MALE PIPE TO FEMALE NPSM SWIVEL



F-UAD • Female Union Swivel Adapter

Part No.	Female Pipe Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
2F-2UAD	1/8"	1/8"	3/4"
4F-4UAD	1/4"	1/4"	13/16"
6F-4UAD	3/8"	1/4"	17/32"
6F-6UAD	3/8"	3/8"	17/32"
8F-4UAD	1/2"	1/4"	15/16"
8F-6UAD	1/2"	3/8"	111/32"
8F-8UAD	1/2"	1/2"	113/32"
12F-12UAD	3/4"	3/4"	19/16"
16F-12UAD	1"	3/4"	125/32"
16F-16UAD	1"	1"	115/16"
20F-20UAD	11/4"	11/4"	115/16"
24F-24UAD	11/2"	11/2"	115/16"
32F-32UAD	2"	2"	23/8"

F-UAD FEMALE UNION SWIVEL ADAPTER FEMALE PIPE TO FEMALE NPSM SWIVEL



ME-UAD • Male Union Elbow Swivel Adapter

Part No.	Male Pipe Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
2ME-2UAD	1/8"	1/8"	17/32"
2ME-4UAD	1/8"	1/4"	11/16"
4ME-4UAD	1/4"	1/4"	3/4"
4ME-6UAD	1/4"	3/8"	7/8"
6ME-4UAD	3/8"	1/4"	7/8"
6ME-6UAD	3/8"	3/8"	7/8"
6ME-8UAD	3/8"	1/2"	15/16"
8ME-4UAD	1/2"	1/4"	29/32"
8ME-6UAD	1/2"	3/8"	15/16"
8ME-8UAD	1/2"	1/2"	15/16"
8ME-12UAD	1/2"	3/4"	13/16"
12ME-6UAD	3/4"	3/8"	11/32"
12ME-8UAD	3/4"	1/2"	11/16"

ME-UAD MALE UNION ELBOW SWIVEL ADAPTER MALE PIPE TO FEMALE NPSM SWIVEL



Continued on next page

ADAPTERS

T A P E R E D P I P E T H R E A D

Continued from previous page

ME-UAD**MALE UNION ELBOW SWIVEL ADAPTER
MALE PIPE TO FEMALE NPSM SWIVEL****ME-UAD • Male Union Elbow Swivel Adapter**

Part No.	Male Pipe Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
12ME-12UAD	3/4"	3/4"	13/16"
16ME-8UAD	1"	1/2"	1 1/8"
16ME-12UAD	1"	3/4"	15/16"
16ME-16UAD	1"	1"	15/16"
16ME-20UAD	1"	1 1/4"	1 1/2"
20ME-20UAD	1 1/4"	1 1/4"	1 1/2"
24ME-20UAD	1 1/2"	1 1/4"	15/8"
24ME-24UAD	1 1/2"	1 1/2"	15/8"
32ME-32UAD	2"	2"	2"

FE-UAD**FEMALE UNION ELBOW SWIVEL ADAPTER
FEMALE PIPE TO FEMALE NPSM SWIVEL****FE-UAD • Female Union Elbow Swivel Adapter**

Part No.	Female Pipe Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
2FE-2UAD	1/8"	1/8"	17/32"
4FE-4UAD	1/4"	1/4"	3/4"
6FE-6UAD	3/8"	3/8"	7/8"
8FE-8UAD	1/2"	1/2"	15/16"
12FE-12UAD	3/4"	3/4"	13/16"
16FE-16UAD	1"	1"	15/16"
20FE-20UAD	1 1/4"	1 1/4"	1 1/2"
24FE-24UAD	1 1/2"	1 1/2"	15/8"

SM-UAD**S.A.E. STRAIGHT THREAD MALE UNION ADAPTER
MALE S.A.E. THREAD TO FEMALE NPSM SWIVEL****SM-UAD • S.A.E. Straight Thread Male**

Part No.	S.A.E. Straight Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
4SM-4UAD	7/16"-20	1/4"	1"
5SM-4UAD	1/2"-20	1/4"	1"
6SM-4UAD	9/16"-18	1/4"	1 1/32"
6SM-6UAD	9/16"-18	3/8"	13/32"
6SM-8UAD	9/16"-18	1/2"	1 1/4"
8SM-4UAD	3/4"-16	1/4"	13/32"
8SM-6UAD	3/4"-16	3/8"	1 1/8"
8SM-8UAD	3/4"-16	1/2"	1 1/4"
8SM-12UAD	3/4"-16	3/4"	13/8"
10SM-6UAD	7/8"-14	3/8"	1 1/8"
10SM-8UAD	7/8"-14	1/2"	15/16"
10SM-12UAD	7/8"-14	3/4"	13/8"
12SM-8UAD	1 1/16"-12	1/2"	1 13/32"
12SM-12UAD	1 1/16"-12	3/4"	1 15/32"
14SM-12UAD	1 3/16"-12	3/4"	1 1/2"
16SM-16UAD	1 3/16"-12	1"	1 1/2"
20SM-16UAD	1 5/8"-12	1"	1 17/32"
20SM-20UAD	1 5/8"-12	1 1/4"	1 17/32"
24SM-24UAD	1 7/8"-12	1 1/2"	1 11/16"

ADAPTERS

T A P E R E D P I P E T H R E A D

SME-UAD • S.A.E. Straight Thread Male Union Elbow

Part No.	S.A.E. Straight Thread	Female Swivel Thread	Deduct From Assembly A.O.L.
4SME-4UAD	7/16"-20	1/4"	3/4"
6SME-4UAD	9/16"-18	1/4"	3/4"
6SME-6UAD	9/16"-18	3/8"	7/8"
6SME-8UAD	9/16"-18	1/2"	15/16"
8SME-6UAD	3/4"-16	3/8"	7/8"
8SME-8UAD	3/4"-16	1/2"	15/16"
8SME-12UAD	3/4"-16	3/4"	13/16"
10SME-6UAD	7/8"-14	3/8"	29/32"
10SME-8UAD	7/8"-14	1/2"	15/16"
10SME-12UAD	7/8"-14	3/4"	13/16"
12SME-8UAD	1 1/16"-12	1/2"	1"
12SME-12UAD	1 1/16"-12	3/4"	13/16"
14SME-12UAD	1 3/16"-12	3/4"	13/16"
16SME-16UAD	1 5/16"-12	1"	1 5/16"
16SME-12UAD	1 5/16"-12	3/4"	1 5/16"
20SME-20UAD	1 5/8"-12	1 1/4"	1 1/2"
20SME-12UAD	1 5/8"-12	3/4"	1 1/2"
24SME-24UAD	1 7/8"-12	1 1/2"	1 11/16"

SME-UAD

S.A.E. STRAIGHT THREAD MALE UNION ELBOW
SWIVEL ADAPTER
MALE S.A.E. THREAD TO FEMALE NPSM SWIVEL



MT-UAD • Male Union Tee Swivel Adapter

Part No.	Male Pipe Thread	Female Swivel Thread	Deduct From Assembly A.O.L.
2MT-2UAD	1/8"	1/8"	17/32"
4MT-4UAD	1/4"	1/4"	3/4"
6MT-6UAD	3/8"	3/8"	7/8"
8MT-8UAD	1/2"	1/2"	15/16"
12MT-12UAD	3/4"	3/4"	13/16"
16MT-16UAD	1"	1"	1 5/16"
20MT-20UAD	1 1/4"	1 1/4"	1 1/2"

MT-UAD

MALE UNION TEE SWIVEL ADAPTER
MALE PIPE BRANCH, FEMALE NPSM
SWIVELS ON RUN



MEX-UAD • Male 45° Union Elbow Swivel Adapter

Part No.	Male Pipe Thread	Female Swivel Thread	Ded't From Ass'y O.A. Length
2MEX-2UAD	1/8"	1/8"	7/16"
4MEX-4UAD	1/4"	1/4"	21/32"
6MEX-6UAD	3/8"	3/8"	11/16"
8MEX-8UAD	1/2"	1/2"	25/32"
8MEX-6UAD	1/2"	3/8"	25/32"
12MEX-12UAD	3/4"	3/4"	31/32"
12MEX-8UAD	3/4"	1/2"	7/8"
16MEX-16UAD	1"	1"	1 1/16"
16MEX-12UAD	1"	3/4"	1 1/32"
20MEX-20UAD	1 1/4"	1 1/4"	1 1/8"
24MEX-24UAD	1 1/2"	1 1/2"	1 7/32"

MEX-UAD

MALE 45° UNION ELBOW SWIVEL ADAPTER
MALE PIPE TO FEMALE NPSM SWIVEL



ADAPTERS

T A P E R E D P I P E T H R E A D

FT-UAD

**FEMALE UNION TEE SWIVEL ADAPTER
FEMALE PIPE TO FEMALE NPSM SWIVEL**



FT-UAD • Female Union Tee Swivel Adapter

Part No.	Female Pipe Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
4FT-4UAD	1/4"	1/4"	3/4"
6FT-6UAD	3/8"	3/8"	7/8"
8FT-8UAD	1/2"	1/2"	15/16"
12FT-12UAD	3/4"	3/4"	13/16"
16FT-16UAD	1"	1"	15/16"

T-UAD

**FEMALE UNION TEE SWIVEL ADAPTER
FEMALE PIPE BRANCH,
FEMALE NPSM SWIVELS ON RUN**



T-UAD • Female Union Tee Swivel Adapter

Part No.	Female Pipe Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
2T-2UAD	1/8"	5/8"	17/32"
4T-4UAD	1/4"	7/8"	3/4"
6T-6UAD	3/8"	15/16"	7/8"
8T-8UAD	1/2"	1 1/16"	15/16"
12T-12UAD	3/4"	15/16"	13/16"
16T-16UAD	1"	1 15/32"	15/16"

FEX-UAD

**45° UNION ELBOW SWIVEL ADAPTER
FEMALE PIPE TO FEMALE NPSM SWIVEL**



Fex-UAD • Female 45° Union Elbow Swivel Adapter

Part No.	Female Pipe Thread	Female Swivel Thread	Deduct From Assembly O.A.L.
4FEX-4UAD	1/4"	1/4"	21/32"
6FEX-6UAD	3/8"	3/8"	11/16"
8FEX-8UAD	1/2"	1/2"	25/32"
12FEX-12UAD	3/4"	3/4"	31/32"
16FEX-16UAD	1"	1"	1 1/16"

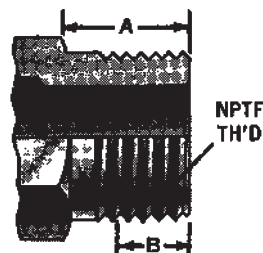
AVAILABLE FITTING ENDS-TYPES

(SPECIFICATIONS & IDENTIFICATION)

Male Pipe Thread End

Size	Thread NPTF	"A"	"B" Min. Full Thread
2	1/8"	25/64"	5/16"
4	1/4"	9/16"	15/32"
6	3/8"	9/16"	1/2"
8	1/2"	3/4"	21/32"
12	3/4"	3/4"	21/32"
16	1"	15/16"	25/32"
20	1 1/4"	31/32"	13/16"
24	1 1/2"	1"	13/16"
32	2"	1 1/32"	13/16"

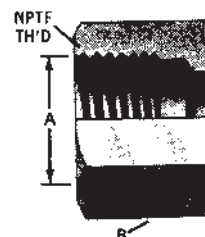
MALE PIPE THREAD END (DRY SEAL)



Female Pipe Thread End

Size	Thread NPTF	"A"	"B" Hex Size (Str. Connectors)	"B" Dia. (Elbows, Tees, Crosses)
2	1/8"	13/32"	9/16", 5/8"	5/8"
4	1/4"	35/64"	3/4"	7/8"
6	3/8"	43/64"	7/8"	1"
8	1/2"	27/32"	1 1/8"	1 1/8"
12	3/4"	13/64"	1 3/8"	1 3/8"
16	1"	15/16"	1 5/8"	1 3/4"
20	1 1/4"	121/32"	2"	2 1/8"
24	1 1/2"	129/32"	2 3/8"	2 3/8"
32	2"	2 3/8"	3"	3"

FEMALE PIPE THREAD END (DRY SEAL)



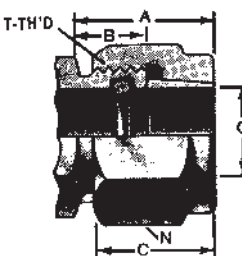
Lenz "O-Ring Seal" End

Size	T Thread	"A"	"B"	"C"	"N" Hex	"O" Bore
2	3/8"-24	9/16"	9/32"	15/16"	1/2"	1/8"
4	1/2"-20	23/32"	13/32"	41/64"	5/8"	1/4"
5	9/16"-18	23/32"	13/32"	41/64"	11/16"	5/16"
6	5/8"-18	25/32"	15/32"	11/16"	3/4"	3/8"
8	7/8"-14	31/32"	17/32"	29/32"	1"	1/2"
10	1"-14	13/32"	19/32"	31/32"	1 1/8"	5/8"
12	1 1/8"-12	17/32"	11/16"	13/32"	1 1/4"	3/4"
14	1 1/4"-12	1 1/4"	11/16"	1 1/8"	1 3/8"	7/8"
16	1 1/2"-12	1 13/32"	3/4"	1 7/32"	1 5/8"	1"
20	1 3/4"-12	1 21/32"	7/8"	1 7/16"	2"	1 1/4"
24	2"-12	1 25/32"	7/8"	1 5/8"	2 1/4"	1 1/2"
32	2 5/8"-12	2 5/32"	1"	2 1/16"	3"	2"

LENZ "O-RING SEAL" END

Tube End with "O-Ring" seal, and tapered split-ring sleeve and nut for gripping the tubing.

Includes nut, split ring, O-Ring and back-up washer.

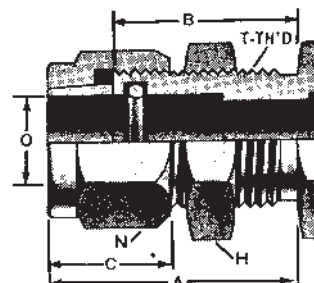


Lenz "O-Ring Seal" Bulkhead End

Size	T Thread	"A"	"B"	"C"	"H" Hex	"N" Hex	"O" Bore
4	1/2"-20	1 15/32"	1 5/32"	41/64"	3/4"	5/8"	1/4"
5	9/16"-18	1 15/32"	1 5/32"	41/64"	13/16"	11/16"	5/16"
6	5/8"-18	1 9/16"	1 1/4"	11/16"	7/8"	3/4"	3/8"
8	7/8"-14	1 25/32"	1 11/32"	29/32"	1 1/8"	1"	1/2"
10	1"-14	1 13/32"	1 15/32"	31/32"	1 1/4"	1 1/8"	5/8"
12	1 1/8"-12	2 1/8"	1 19/32"	13/32"	1 3/8"	1 1/4"	3/4"
14	1 1/4"-12	2 5/32"	1 19/32"	1 1/8"	1 1/2"	1 3/8"	7/8"
16	1 1/2"-12	2 5/16"	1 21/32"	1 7/32"	1 3/4"	1 5/8"	1"
20	1 3/4"-12	2 9/16"	1 25/32"	1 7/16"	2"	2"	1 1/4"
24	2"-12	2 11/16"	1 25/32"	1 5/8"	2 1/4"	2 1/4"	1 1/2"
32	2 5/8"-12	3 3/32"	1 15/16"	2 1/16"	3"	2 7/8"	2"

LENZ "O-RING SEAL" BULKHEAD END

Same features as Lenz "O-Ring Seal" except has provisions for passing through a Bulkhead and is held in Bulkhead by a lock nut. (1/2" Maximum Bulkhead Thickness.)

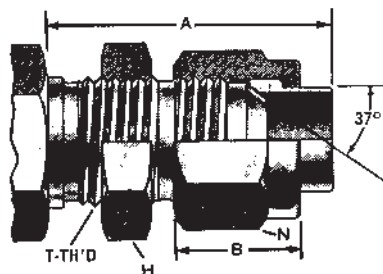


AVAILABLE FITTING ENDS-TYPES

(SPECIFICATIONS & IDENTIFICATIONS)

J.I.C. 37° FLARE MALE BULKHEAD END

Has same uses as J.I.C. 37° Flare Male except has provisions for passing through a Bulkhead and is held in Bulkhead with a Lock Nut. ($\frac{3}{8}$ " Maximum Bulkhead Thickness.)



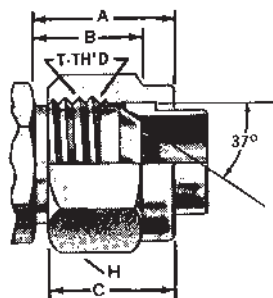
J.I.C. 37° • Flare Male Bulkhead End

Size	Thread	"A" Str. Fttg.	"B"	"H" Hex	"N" Hex
4	7/16"-20	15/8"	5/8"	11/16"	9/16"
5	1/2"-20	15/8"	11/16"	3/4"	5/8"
6	9/16"-18	123/32"	23/32"	13/16"	11/16"
8	3/4"-16	2"	27/32"	1"	7/8"
10	7/8"-14	2 1/4"	31/32"	1 1/8"	1"
12	1 1/16"-12	2 3/8"	1 1/32"	1 3/8"	1 1/4"
14	1 3/16"-12	2 1/2"	1 3/32"	1 1/2"	1 3/8"
16	1 5/16"-12	2 9/16"	1 1/8"	1 5/8"	1 1/2"
20	1 5/8"-12	2 11/16"	1 7/32"	1 7/8"	2"
24	1 7/8"-12	2 15/16"	1 13/32"	2 1/8"	2 1/4"
32	2 1/2"-12	3 1/4"	1 3/4"	2 3/4"	2 7/8"

J.I.C. 37° FLARE MALE END

May Be Used With 3205 Tube Nut, 3165 Tube Sleeve, 2205 Tube Nut, 2205-S Tube Nut or 2205-C Cap.

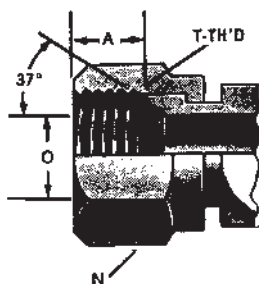
May also be joined directly to the Female J.I.C. 37° Swivel Fitting as an Adapter.



J.I.C. 37° • Flare Male End

Size	Thread	"A"	"B"	"C" Hex	"H" Hex
2	5/16"-24	3/4"	7/16"	17/32"	3/8"
3	3/8"-24	25/32"	15/32"	19/32"	7/16"
4	7/16"-20	15/16"	9/16"	5/8"	9/16"
5	1/2"-20	31/32"	9/16"	11/16"	5/8"
6	9/16"-18	11/32"	9/16"	23/32"	11/16"
8	3/4"-16	13/16"	21/32"	27/32"	7/8"
10	7/8"-14	1 13/32"	3/4"	31/32"	1"
12	1 1/16"-12	1 15/32"	7/8"	1 1/32"	1 1/4"
14	1 3/16"-12	1 5/8"	29/32"	1 3/32"	1 3/8"
16	1 5/16"-12	1 11/16"	29/32"	1 1/8"	1 1/2"
20	1 5/8"-12	1 13/16"	31/32"	1 7/32"	2"
24	1 7/8"-12	2 3/16"	1 3/32"	1 13/32"	2 1/4"
32	2 1/2"-12	2 15/32"	1 3/4"	1 11/32"	2 7/8"

FEMALE J.I.C. 37° SWIVEL END



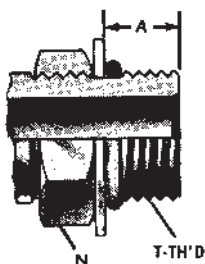
Used With Male J.I.C. 37° Fittings

Female J.I.C. • 37° Swivel End

Size	Thread	"A"	"N" Hex	"O" Bore
4	7/16"-20	11/32"	9/16"	11/64"
5	1/2"-20	3/8"	5/8"	15/64"
6	9/16"-18	3/8"	11/16"	19/64"
8	3/4"-16	27/64"	7/8"	25/64"
10	7/8"-14	1/2"	1"	31/64"
12	1 1/16"-12	9/16"	1 1/4"	39/64"
14	1 3/16"-12	37/64"	1 3/8"	23/32"
16	1 5/16"-12	19/32"	1 1/2"	27/32"
20	1 5/8"-12	5/8"	2"	15/64"
24	1 7/8"-12	47/64"	2 1/4"	15/16"
32	2 1/2"-12	15/16"	2 7/8"	1 25/32"

S.A.E. ADJUSTABLE STRAIGHT THREAD "O-RING" TYPE END (Elbows & Tees)

For same use as S.A.E. Straight Thread "O-Ring" Type but provides for 360° positioning for Tees and Elbows with Lock Nut.
May also be used with AND 10050 Port.



S.A.E. Adjustable Straight Thread "O-Ring" Type End

Size	Thread	"A"	"N" Hex
2	5/16"-24	19/64"	7/16"
4	7/16"-20	23/64"	9/16"
5	1/2"-20	23/64"	5/8"
6	9/16"-18	25/64"	11/16"
8	3/4"-16	7/16"	7/8"
10	7/8"-14	1/2"	1"
12	1 1/16"-12	19/32"	1 1/4"
14	1 3/16"-12	19/32"	1 3/8"
16	1 5/16"-12	19/32"	1 1/2"
20	1 5/8"-12	19/32"	1 7/8"
24	1 7/8"-12	19/32"	2 1/8"
32	2 1/2"-12	19/32"	2 3/4"

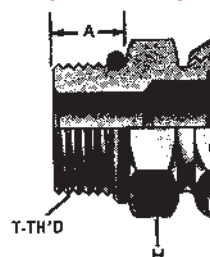
AVAILABLE FITTING ENDS-TYPES

T A P E R E D P I P E T H R E A D

S.A.E. Adjustable Straight Thread "O-Ring" Type End

Size	T Thread	"A"	"H" Hex
2	5/16"-24	19/64"	7/16"
4	7/16"-20	23/64"	9/16"
5	1/2"-20	23/64"	5/8"
6	9/16"-18	25/64"	11/16"
8	3/4"-16	7/16"	7/8"
10	7/8"-14	1/2"	1"
12	1 1/16"-12	19/32"	1 1/4"
14	1 3/16"-12	19/32"	1 3/8"
16	1 5/16"-12	19/32"	1 1/2"
20	1 5/8"-12	19/32"	1 7/8"
24	1 7/8"-12	19/32"	2 1/8"
32	2 1/2"-12	19/32"	2 7/8"

S.A.E. STRAIGHT THREAD "O-RING" TYPE END (Connectors)



For Use With S.A.E. Internal Thread O-Ring Boss

SPECIFICATIONS

HYDRAULIC ACCESSORIES

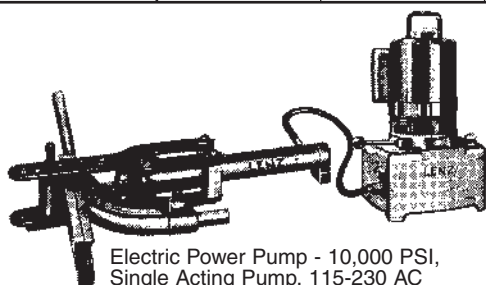
(S P E C I F I C A T I O N S & I D E N T I F I C A T I O N S)

Part No.	Tube O.D.	Center Radius	Wt. LBS.
80-12	3/4"	37/16"	5 1/2
80-14	7/8"	37/16"	5 1/2
80-16	1"	45/16"	6 1/2
80-20	1 1/4"	5 5/8"	7 1/2
80-24	1 1/2"	7 3/16"	16
80-32	2"	8"	16 3/4

NO. 1880

HYDRAULIC TUBE BENDERS Hand or Motor Operated

The Lenz tube bender is designed for either hand pump or electric or gasoline motor pump. It is extremely easy to handle and operate. Illustration below shows portable pump. . . may be had with gasoline or electric motor.

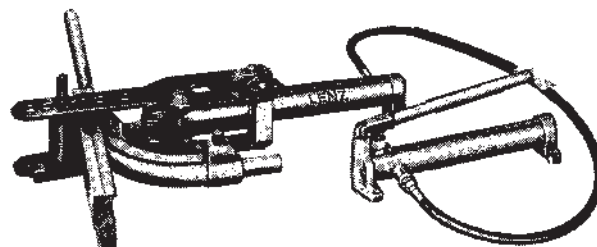


Electric Power Pump - 10,000 PSI, Single Acting Pump, 115-230 AC Dual Voltage, 3/4 H.P. Single Phase, 64 lbs.

Attachments for the Lenz 1880 Hydraulic Tube Bender are shown as Part Numbers in the table above and consist of Radius Shoe, Follow Bar and Saddle.

Illustration above shows hand operated pump.

"Warning Do Not Use Lenz Bender to Bend Aluminum EMT"



NO. 412

LENZ TEFLON SEALING TAPE For Sealing Pipe Joints

- 1/2 inch x 520"
- Lasting, Positive Seal
- Crush-proof Spool
- Easier to Handle
- Will Not Unravel
- -250° to + 500° F. Range

Pure Teflon. Use on steam, water acid, alkali, chemical, fuel, corrosives, solvent, ketone, refrigerant gas, plastic, glass, stainless steel, aluminum, brass, and ceramic threads.



ACCESSORIES/TOOLS

T A P E R E D P I P E T H R E A D

MODEL FT 573 / MODEL FT 673

Flaring Tools Integrated unit
... parts can't get lost



Model FT 573 / Model FT 673

Model	For Flares O.D.
FT-573	1/2" thru 1"
FT-673	3/16" to 5/8"

This advanced design Lenz Flaring Tool gives absolutely smooth, uniform flares every time, with a minimum amount of effort and faster, too. The large feed screw handle turns easily. The precision ground hardened steel flaring cone, eccentrically mounted in precision bearings, produces a rolling action for even metal flow which provides uniform flare walls without galling. Feed releases automatically when flare is fully formed.

NO. 1763

LENZ HAND TUBE BENDERS



No. 1763 • Lenz Hand Tube Benders

Part Number	Size O.D. of Tubing	Center Radius
1763-4	1/4"	9/16"
1763-5	5/16"	11/16"
1763-6	3/8"	15/16"
1763-8	1/2"	1 1/2"
1763-10	5/8"	3"
1763-12	3/4"	3 1/4"
1763-14	7/8"	3 3/4"

These fine quality Lenz Hand Tube Benders make quick and accurate bends that are smooth and without kinking. They work with steel, aluminum, copper, or stainless tubing. This is one of the most useful, time-saving tools you can own. Sizes 10, 12 & 14 are geared ratchet models.

ABV LENZ AIR BLEEDER VALVES

Tapered Pipe Thread S.A.E. Straight Thread



Tapered Pipe Thread



S.A.E. Straight Thread

Note: When Ordering Lenz Air Bleeder Valves in Stainless Steel Add -SS.
Example: 4ABV-SS.

ABV Lenz Air Bleeder Valves

Part No.	Male Pipe Thread	S.A.E. Straight thread	Body Hex	Overall Length
2ABV	1/8"	—	11/16"	1 11/16"
4ABV	1/4"	—	11/16"	1 29/32"
6ABV	3/8"	—	11/16"	1 29/32"
8ABV	1/2"	—	7/8"	1 7/8"
A-6ABV	—	9/16"-18	11/16"	1 11/16"

The Lenz Air Bleeder Valve is an exclusive design, extremely compact and consisting of only two metal parts. No packings are employed. The fact that it is necessary to eliminate all air from lines and equipment in order to maintain maximum operating efficiency makes this valve an important and vital part of the hydraulic system. It needs only to be installed at the highest point in the circuit where the air accumulates. It is especially needed when starting a hydraulic system. Easily installed.

ACCESSORIES/TOOLS

(SPECIFICATIONS & IDENTIFICATION)

Now 380 rings in the 30 most popular sizes ranging from 006 to 327 (70 shore A hardness) is ready for use . . . instantly. Includes all popular Lenz O-Ring seal tube fitting sizes.

- 25% more rings than any other kit
 - Special BUNA-N compound for oil and fuel resistance - suitable for temperatures from -40 to +300 F.
 - Popular ring sizes fit valves, pumps, small cylinders, etc.
 - Color coded storage posts provide instant size identification
 - Built-in gauges automatically indicate size of rings for replacement
- Molded into the O-Ring Kit itself are accurately calibrated cross section slots. These color coded slots assure precision measurement of rings to be replaced.

INDISPENSABLE FOR SERVICING
HYDRAULIC SYSTEMS & COMPONENTS.

NEW! LENZ O-RING KIT (FOR MAINTENANCE)
Conforming dimensionally to AS-568A Universal Series as well as the AN 6227 sizes.



No. 380 RK

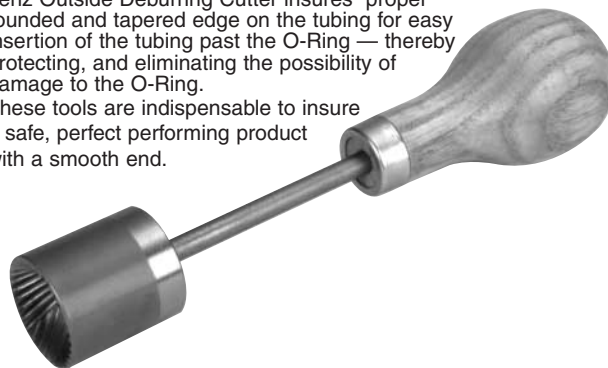
ODC • Outside Deburring Cutters

Part No.	Tube O.D.
ODC-4	1/4"
ODC-5	5/16"
ODC-6	3/8"
ODC-8	1/2"
ODC-10	5/8"
ODC-12	3/4"
ODC-14	7/8"
ODC-16	1"
ODC-20	1 1/4"
ODC-24	1 1/2"
ODC-32	2"

ODC OUTSIDE DEBURRING CUTTERS

Lenz Outside Deburring Cutter insures proper rounded and tapered edge on the tubing for easy insertion of the tubing past the O-Ring — thereby protecting, and eliminating the possibility of damage to the O-Ring.

These tools are indispensable to insure a safe, perfect performing product with a smooth end.



Has detachable Handle to allow use of Cutter in drill chucks, etc.

No. 216 & No. 834

Part No.	For Tube O.D.
216	1/8" to 1" inclusive
834	1/2" to 2 1/8" inclusive

Rugged, adjustable cutting tool for producing clean, square ends on steel, stainless steel, and softer metal tubing. Ball handle feeds cutting wheel with even pressure as cutter is rotated around tube. Replacement cutter wheels available.

NO. 216 & NO. 834 LENZ TUBE CUTTERS



TUBING

(SPECIFICATIONS & IDENTIFICATION)

LENZ HYDRAULIC STEEL TUBING

Dead Soft • Fully Annealed • Bright Finish

Superior grade tubing selected for excellence of bending and flaring. The formula given below is determined with the flow calculated to give nominal pressure drop through tubing having the diameter and wall thickness as indicated in the table to left. This flow is based on a velocity of 15 feet per second and fluids having a maximum viscosity of 315 S.S.U.

Formula

$$\text{GPM} = \frac{\pi D^2 \times 15}{1.283} = 36.69 \times D^2$$

*D = Inside Diameter of Tubing

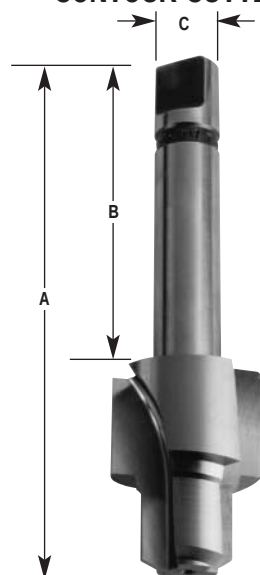
Furnished in 12 Ft. Lengths-Longer Lengths On Request.

**Safety Factor of 5 means that the tubing will burst at 5 times the working pressure indicated.

Lenz Hydraulic Steel Tubing

Size No.	O.D.	I.D.	Wall Thickness	G.P.M. Flow	Working Pressure
4.035	1/4"	.180	.035	1.2	2800
4.049	1/4"	.152	.049	.85	3920
5.035	5/16"	.242	.035	2.15	2240
5.049	5/16"	.214	.049	1.68	3136
6.035	3/8"	.305	.035	3.45	1867
6.049	3/8"	.277	.049	2.82	2613
6.065	3/8"	.245	.065	2.2	3467
8.035	1/2"	.430	.035	6.79	1400
8.049	1/2"	.402	.049	5.92	1960
8.065	1/2"	.370	.065	5.03	2600
10.049	5/8"	.527	.049	10.2	1568
10.065	5/8"	.495	.065	9.0	2080
10.095	5/8"	.435	.095	6.94	3040
12.049	3/4"	.652	.049	15.6	1307
12.065	3/4"	.620	.065	14.1	1733
12.095	3/4"	.560	.095	11.5	2533
12.109	3/4"	.532	.109	10.4	2907
14.049	7/8"	.777	.049	22.1	1120
14.065	7/8"	.745	.065	20.4	1486
14.095	7/8"	.685	.095	17.2	2171
16.065	1"	.870	.065	27.8	1300
16.095	1"	.810	.095	24.1	1900
16.120	1"	.760	.120	21.2	2400
20.065	1 1/4"	1.120	.065	46.0	1040
20.095	1 1/4"	1.060	.095	41.2	1520
20.120	1 1/4"	1.010	.120	37.4	1920
24.095	1 1/2"	1.310	.095	63.0	1267
24.120	1 1/2"	1.260	.120	58.1	1600

PCC LENZ S.A.E. PORT CONTOUR CUTTERS



These tools have three flutes which form the standard internal O-Ring Boss for straight thread tube fittings. Standard in high-speed steel. Carbide tipped available on special order. Four flute cutters available on special order.

PCT LENZ PRECISION S.A.E. PORT THREAD TAPS



PCC-LENZ S.A.E. Port Contour Cutter

Part No.	Tube O.D.	Thread Size	"A" Overall Length	"B" Shank Length	"C" Shank Dia.
PCC-2	1/8"	5/16"-24	3 23/32"	2 11/64"	.500
PCC-4	1/4"	7/16"-20	3 25/32"	2 5/32"	.500
PCC-5	5/16"	1/2"-20	3 27/32"	2 7/32"	.500
PCC-6	3/8"	9/16"-18	3 29/32"	2 5/64"	.500
PCC-8	1/2"	3/4"-16	3 31/32"	2 1/16"	.500
PCC-10	5/8"	7/8"-14	3 31/32"	1 53/64"	.750
PCC-12	3/4"	1 1/16"-12	4 1/8"	1 55/64"	.750
PCC-14	7/8"	1 3/16"-12	4 1/8"	1 27/32"	.750
PCC-16	1"	1 5/16"-12	4 1/8"	1 27/32"	.750
PCC-20	1 1/4"	1 5/8"-12	4 1/8"	1 53/64"	1.000
PCC-24	1 1/2"	1 7/8"-12	4 1/8"	1 13/16"	1.000
PCC-32	2"	2 1/2"-12	4 1/4"	1 29/32"	1.000

PCT • LENZ Precision S.A.E. Port Thread Taps

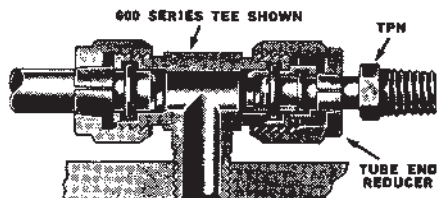
Part Number	Tube O.D.	Thread Size
PCT-2	1/8"	5/16"-24
PCT-4	1/4"	7/16"-20
PCT-5	5/16"	1/2"-20
PCT-6	3/8"	9/16"-18
PCT-8	1/2"	3/4"-16
PCT-10	5/8"	7/8"-14
PCT-12	3/4"	1 1/16"-12
PCT-14	7/8"	1 3/16"-12
PCT-16	1"	1 5/16"-12
PCT-20	1 1/4"	1 5/8"-12
PCT-24	1 1/2"	1 7/8"-12
PCT-32	2"	2 1/2"-12

SPECIAL USES

F O R " O - R I N G S E A L F I T T I N G S

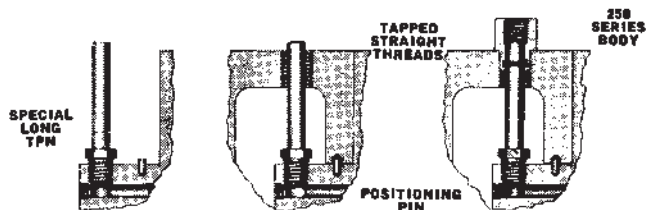
SPECIAL USES

TPN USED TO CONVERT STANDARD TEE TO SPECIAL TEE



TPN's, TFN's or TAN's may be used with a tee or cross to change an outlet from tube to male, eliminating a more expensive special fitting. By using tube end reducers, smaller TPN's or TAN's may be fitted. See pages 14 and 15 for reducers. TPN's, TFN's & TAN's.

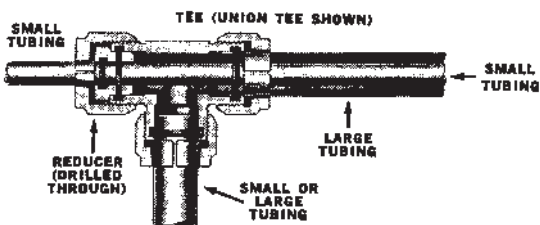
FOR EASE OF ASSEMBLY & DISASSEMBLY



Step 1-TPN is tightened into position. Step 2-St. Th'd casting is dropped into position. Step 3-Female connector body is screwed into St. Th'd, at the same time sealing on the stem of the TPN.

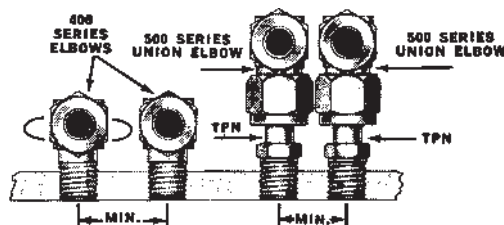
The three steps show the unusual use of a special long TPN and female connector (250 series). Lenz manufactures in lengths up to 8 inches over standard length. See page 15 for TPN information.

CONCENTRIC LINE FOR TWO FLUIDS

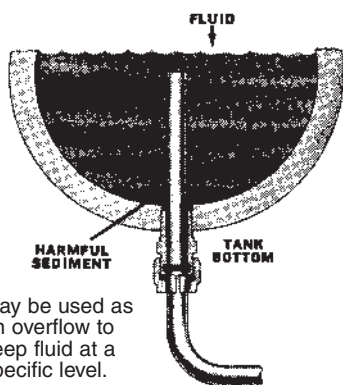


Tees having a reducer on one end can serve as ends of a cooling jacket fabricated from hydraulic tubing . . . can also be used for concentric line for two fluids. The only modification needed is the removal of the tube stop in the reducer with a drill. See page 14 for Reducers.

OUTLETS TOO CLOSE TO PERMIT SCREWING ON OF MALE ELBOWS



Where outlets are too close to permit screwing male elbows (400 series) into ports, TPN's and union elbows (500 series) may permit installation. TAN's would similarly replace A400 series straight thread male elbows, see page 15.



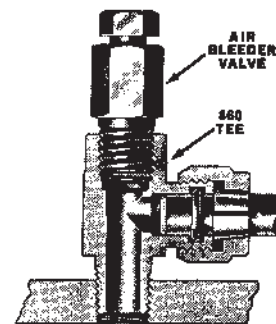
REMOVING FLUID FROM A POINT ABOVE TANK BOTTOM

Many of the male connectors (100 series) and female connectors (250 series) allow tubing to be inserted through the fitting. Drawing shows how fluid may be removed from a point above tank bottom, using a 100 series male connector. See pages 2 & 3 for connectors.

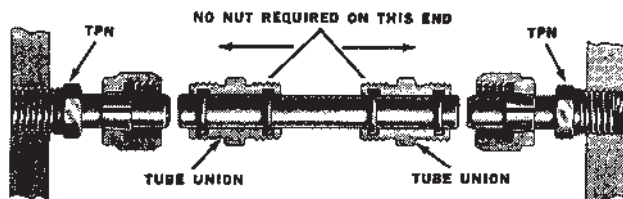
May be used as an overflow to keep fluid at a specific level.

TYPICAL INSTALLATION OF AN ABV BLEEDER VALVE AT THE HIGH POINT OF A HYDRAULIC SYSTEM

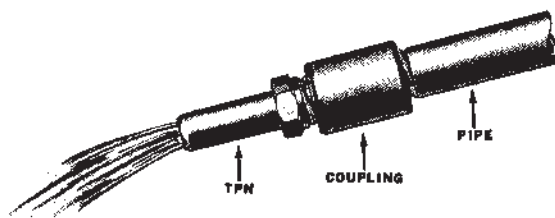
With the use of a 860 series tee the bleeder valve can quickly and easily be installed at the highest point where air accumulates in hydraulic circuits. See page 33 for Bleeder Valves and page 8 for 860 series Tees.



TPN'S USED WHERE A STRAIGHT LINE MUST BE REMOVED OCCASIONALLY WITHOUT DISTURBING PIPE THREADS



TPN USED AS A NOZZLE-SUCH AS DIRECTING COOLANT ONTO THE WORK IN AN AUTOMATIC SCREW MACHINE





GLYCERIN-FILLED PRESSURE GAUGES

LENZ PRESSURE GAUGES are designed for pulsation..vibration.. shock..weather and corrosive environments. These Lenz pressure gauges are offered in the following dial sizes: 1 1/2", 2", 2 1/2" & 4". **Brass case, Stainless Steel case, all Stainless Steel, Abs plastic case or Black Steel case** with flange mounting or panel mountings available from stock.

Lenz also manufactures hydraulic tank accessories, filters, strainers, tube fittings, hydraulic adapters and hose fittings.



**“Another quality product,
Only from Lenz”**

For more information on the new
LENZ PRESSURE GAUGES,
ask for Catalog PG-111
write, phone or fax:

LENZ, Inc.

P.O. BOX 1044

Dayton, Ohio

45401-1044

3301 Klepinger Road

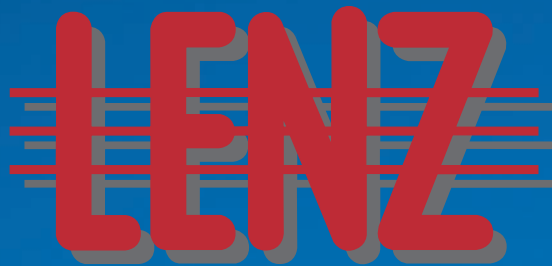
Dayton, Ohio 45406

Phone: (937) 277-9364

Fax: (937) 277-6516

Internet: <http://www.lenzinc.com>





HYDRAULIC TANK ACCESSORIES

LENZ MANUFACTURES a complete line of hydraulic tank accessories, that include a wide range of filler breathers, breather filters, tank covers, reservoir flanges, sight level gauges and fuel necks, available in many sizes and styles

Lenz also manufactures a complete line of hydraulic filters, strainers, pressure gauges, tube fittings, hydraulic adapters and hose fittings.



For more information on the LENZ HYDRAULIC TANK ACCESSORIES ask for Catalog No. TA-81, write, phone, or fax:

LENZ, Inc.

P.O. BOX 1044

Dayton, Ohio 45401-1044

3301 Klepinger Rd

Dayton, Ohio 45406

Phone: (937) 277-9364

FAX: (937) 277-6516

Internet: <http://www.lenzinc.com>

**“Another quality product,
Only from Lenz”**





HOSE FITTINGS & ADAPTERS

LENZ MANUFACTURES A COMPLETE LINE OF 100R5 HOSE FITTINGS; 2-wire braid hose fittings for high pressure, along with several other special-industry hose fittings, making Lenz a full line hose & fitting manufacturer.

Lenz fittings meet or exceed J.I.C./S.A.E. standards, and are interchangeable with other standard hose fittings.

Lenz also manufactures every conceivable hydraulic adapter, the Lenz "O" Ring Seal Tube Fitting, Pressure Gauges, Hydraulic Reservoir Accessories, Strainers and Filters for the fluid power industry.



**“Another quality product,
Only from Lenz”**

For more
information on
LENZ HOSE FITTINGS & ADAPTERS
ask for Catalog No. HP-401,
or write, phone, or fax:

LENZ, Inc.

P.O. BOX 1044

Dayton, Ohio 45401-1044

3301 Klepinger Rd

Dayton, Ohio 45406

Phone: (937) 277-9364

FAX: (937) 277-6516

Internet: <http://www.lenzinc.com>





ADAPTERS & HOSE FITTINGS

ADAPTERS

LENZ MANUFACTURES a complete line of Hydraulic Adapters and Hose Fittings that meet or exceed J.I.C./S.A.E. standards.

Lenz also manufactures the Lenz "O" Ring Seal Tube Fitting, Pressure Gauges, Strainers, Filters and Hydraulic Reservoir Accessories for the fluid power industry.



**“Another quality product,
Only from Lenz”**

For more
information on the
LENZ ADAPTERS & HOSE FITTINGS
ask for Catalog No. AD-90,
write, phone, or fax:

LENZ, Inc.
P.O. BOX 1044
Dayton, Ohio 45401-1044
3301 Klepinger Rd
Dayton, Ohio 45406
Phone: (937) 277-9364
FAX: (937) 277-6516
Internet: <http://www.lenzinc.com>





FILTERS & STRAINERS

LENZ MANUFACTURES a complete filter and strainer line that includes a wide range of pressure, in-tank and spin on filters, sump strainers, tank mounted strainers, diffusers, for pressure, suction or return line applications. These filters and strainers are offered in sizes 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", & 3".

Lenz is a full line manufacturer of hydraulic tank accessories, pressure gauges, strainers, filters, tube fittings, hydraulic adapters & hydraulic hose fittings for the fluid power industry.



**“Another quality product,
Only from LENZ”**

For more
information
on the **LENZ**
**HYDRAULIC FILTERS
AND STRAINERS,**
Request Catalog SF-11A
write, phone, or fax:

LENZ
P.O. BOX 1044
Dayton, Ohio 45401-1044
3301 Klepinger Road
Dayton, Ohio 45406
Phone: (937) 277-9364
FAX: (937) 277-6516
Internet: <http://www.lenzinc.com>



NOTES

NOTES

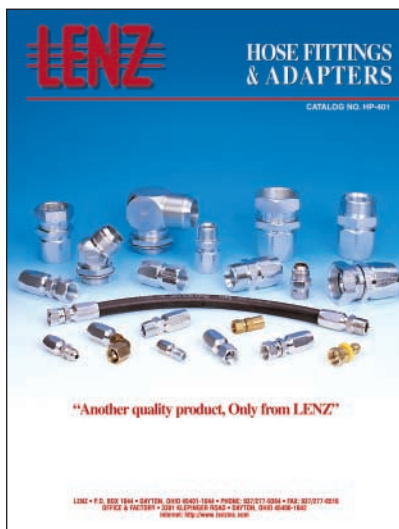
Request these other **LENZ** Catalogs



CATALOG PG-111
16 Pgs. Detailed
information on
Lenz Pressure Gauges.



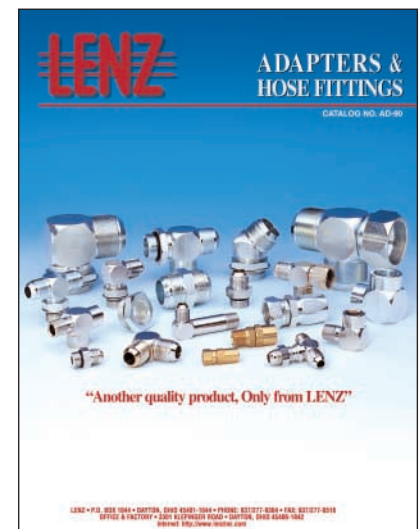
CATALOG TA-81
36 Pgs. Highly informative
on Lenz Hydraulic Tank
Reservoir Accessories.



CATALOG HP-401
56 Page. High & Medium
Pressure Hose Fittings &
Assemblies. Adapters,
Flanges, Quick Disconnects
& Accessories.



CATALOG SF-11A
24 Pgs. Detailed
information on Lenz
Hydraulic Strainers
& Filters.



CATALOG AD-90
40 Pgs. Adapters, Pipe
Fittings, Adapter Unions,
J.I.C.-S.A.E. Tube Fittings,
offered in Steel &
Stainless Steel.