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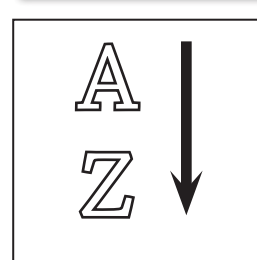
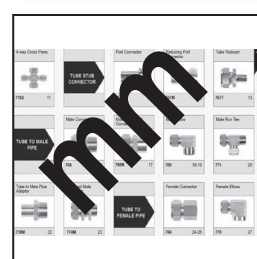
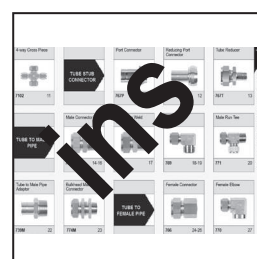
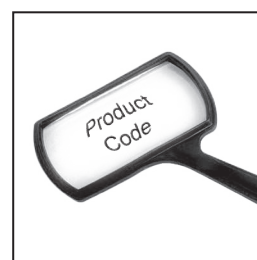
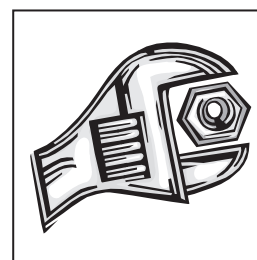
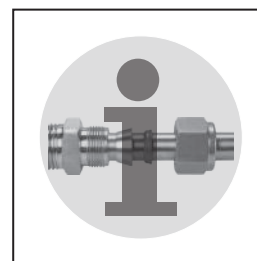
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LET-LOK®

TUBE FITTINGS

LET-LOK

TWIN FERRULE TUBE COMPRESSION FITTINGS

THE HAM-LET GROUP

The HAM-LET Group has produced high quality tube and pipe fittings in various materials for high pressure applications since its establishment in 1950.

For more than five decades, through tremendous efforts in research and development, HAM-LET has gained an excellent reputation as a leading manufacturer of high pressure instrumentation products.

The LET-LOK® range of connectors has been developed to fill the rapidly increasing demand for tube fittings suitable for high pressure use in environments such as petrochemical, fluid, power, nuclear, electronic, as well as other major industries. LET-LOK® tube fittings have been carefully manufactured and tested to withstand the demands of high performance tube fittings, such as high pressure, impulse, vibration, vacuum and temperature.

These tube fittings are manufactured to exacting tolerances using the most modern and advanced computerised automation. One of the main conditions required to producing these precision machined fittings is the maintenance of stringent quality control in conjunction with skilled craftsmen.

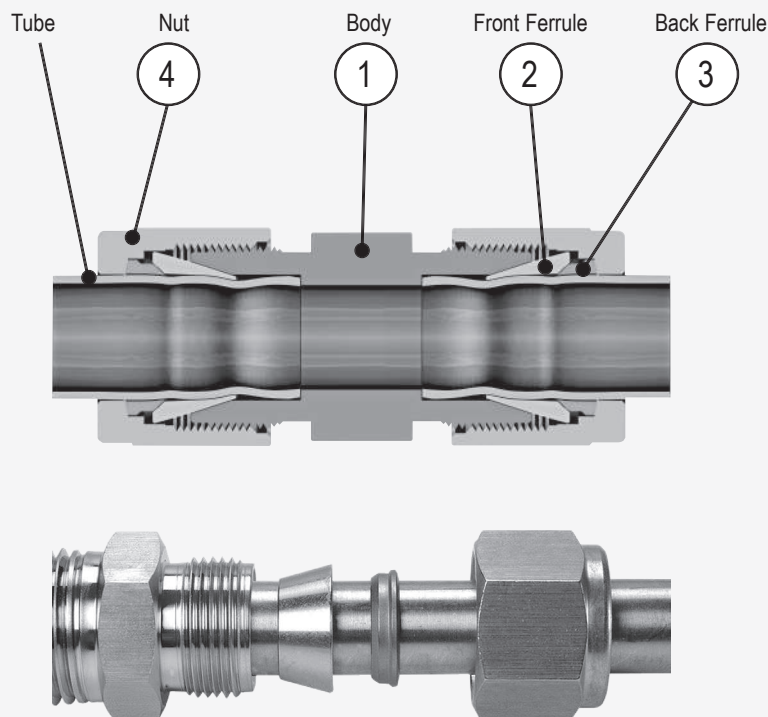
HOW LET-LOK® WORKS

The LET-LOK® tube fitting is a mechanism used for both sealing and gripping tubing. The mechanical advantage and geometry of the fitting produces a leak-tight assembly. To assemble, simply insert the tube into the complete assembly until the tube bottoms-out against the internal shoulder of the fitting body.

The two ferrules are driven forward between the nut and fitting body using the mechanical force created by rotating the nut clockwise. The back ferrule (3) is driven against the tapered rear of the front ferrule (2) and the front ferrule is driven by force into the tapered mouth of the body.

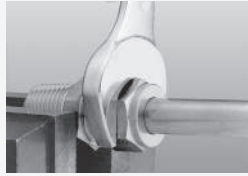
The rear ferrule is swaged radially inwards on the tube while lifting the front ferrule out to form a full faced seal on the tapered surface of the body.

The 1¼ turns of the nut from the finger tight position assure consistent drive of the sealing ferrules. This ensures an effective seal against high pressure as well as ultra high vacuum conditions.



LET-LOK

INSTALLATION INSTRUCTIONS



LET-LOK® fittings as supplied are fully assembled, finger tight. Disassembly before use can allow the entry of dirt or other particles.

1. Insert the tubing into the Let-Lok® fitting. Check that the tube rests firmly on the fitting shoulder and that the nut is finger tight. At this point it is recommended that a scribe mark be drawn on the hex of the nut extending onto the fitting body. This mark will serve as an indicator for the starting point and proper pull-up.
2. Tighten the nut. (see Fig. A & B)
 - 1¼ turns of the nut is required for 1/4" (6 mm) and larger.
 - ¾ turns of the nut is required for 3/16" (4 mm) and smaller

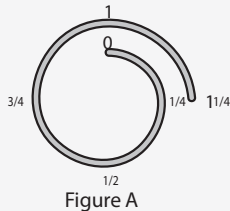


Figure A

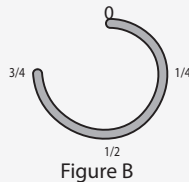


Figure B

Reassembly Instructions

Let-lok connections may be disconnected and remade repeatedly, without loss of leaktight seal.

1. Before disconnecting, mark the position of the nut in relation to the fitting body.
2. To reassemble, use a wrench to tighten nut to original position.
3. Tighten slightly with wrench until a slight rise in torque is felt.

Tube Cutting

Two different methods can be used to cut tubes:

- Tube Cutter
- Hacksaw

1. Tube Cutter

To attain a leak free connection, the tubing must be cut squarely. A good quality tube cutter with the appropriate blade for the tubing material is recommended.

Do not try to reduce the time of cutting by taking deep cuts with each turn of the cutter. This will work harden the tube.

The end of the tube must be deburred to avoid damage to the fitting and to ensure that the tube reaches the bottom of the fitting.

2. Hacksaw Cutting

In order to cut the tube with a hacksaw and get square ends, the tube must be cut with guide blocks.

This method of cutting necessitates deburring of the tube ends.

Warning

Do not hold the tube in a vice in the place where it will be inserted into the fitting (the vice will leave a mark on the tube that may cause leaks, and might cause ovality).

Tube Handling

Scratches on the tube might cause leaks. It is, therefore, important to handle the tube carefully to reduce the risk of leaks.

Some precautions to be taken:

1. Tubes must not be dragged on the floor.
2. Tubes must not be dragged out of a tubing rack, especially in case of large OD tubes.

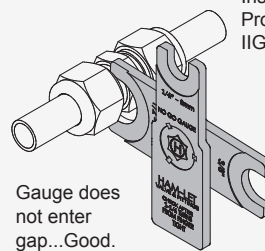
Copper Tubing

If using copper tubing from a roll, hold the end of the tube and roll the roll outwards whilst allowing the tubing to rest on a flat surface.

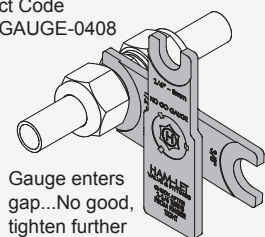
Inspection Gauge

Use: This is a "No-Go" gauge and should be used as follows:

1. Make up the fitting according to the following instructions:
1/4 inch (6mm), 3/8 inch, 1/2 inch (12mm) - make up 1.1/4 turns from finger tight.
2. Check gap between nut and body, using the appropriate sized



Gauge does not enter gap...Good.



Gauge enters gap...No good, tighten further

gauge. If the gauge slides easily into the gap, tighten the nut further until gauge can not enter the gap.

3. The gauge should only be used on initial fitting make up.
4. The gauge is suited only to use only with 1/4 inch (6 mm), 3/8 inch, 1/2 inch (12 mm) tube for make up to 1¼ turns.

For Safety

In applications where severe conditions and high pressure exist, we recommend the following installation procedures:

1. Check that the nut is finger tight.
2. Insert the tube (up to the shoulder).
3. Rotate the nut with a wrench until the tube does not rotate freely.
4. Mark position of the nut.
5. Rotate the nut 11/4 turns.

This method ensures that even if the tube O.D. is at the minimum tolerance, the ferrules will be in contact with the tube for the full 1¼ rotation.

LET-LOK

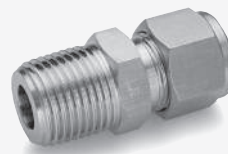
TWIN FERRULE TUBE COMPRESSION FITTINGS

PRODUCT CODE EXAMPLE

II	768	S = Stainless Steel B = Brass T = Teflon	None = Tube all ends N = NPT Thread B = BSPT Thread P = BSPP Thread J = JIC / AN Thread	04	06
Signifies Industrial Instrumentation	Fitting Type (Male Connector)	Material	End Connection	Tube O.D. (as Dash Size) is always first to be described	Thread Dash Size (number of 1/16ths of an inch)

Product Codes are as listed in this Catalogue. The Codes allow easy identification of the type, configuration, and material of the fittings, as well as the applicable tube and thread sizes. Fittings are supplied fully assembled. The Tube O.D. is always referenced first, followed by the pipe size. In the event both connections are tubing, specify the largest size first. Consult the Table below for assistance.

Size Combination	Tube OD	Pipe Thread or Tube OD
-0101	1/16	1/16
-0102	1/16	1/8
-0201	1/8	1/16
-0202	1/8	1/8
-0204	1/8	1/4
-0302	3/16	1/8
-0304	3/16	1/4
-0401	1/4	1/16
-0402	1/4	1/8
-0404	1/4	1/4
-0406	1/4	3/8
-0408	1/4	1/2
-0412	1/4	3/4
-0502	5/16	1/8
-0504	5/16	1/4
-0506	5/16	3/8
-0508	5/16	1/2
-0602	3/8	1/8
-0604	3/8	1/4
-0606	3/8	3/8
-0608	3/8	1/2
-0612	3/8	3/4
-0616	3/8	1
-0802	1/2	1/8
-0804	1/2	1/4
-0806	1/2	3/8
-0808	1/2	1/2
-0812	1/2	3/4
-0816	1/2	1
-1004	5/8	1/4
-1006	5/8	3/8
-1008	5/8	1/2
-1012	5/8	3/4
-1208	3/4	1/2
-1212	3/4	3/4
-1612	1	3/4
-1616	1	1



II768BB-0406

Tube to Male Brass Connector
to suit 1/4" Tube and with 3/8" BSPT Thread

ABOUT LET-LOK How it Works



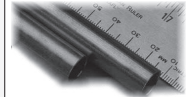
2

INSTALLATION



3

TUBE DATA



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COMPONENTS

Tube Insert



760I

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Nut



761

9

Back Ferrule



760

10

Front Ferrule



760

10

Ferrule Set



760

10

LET-LOK

TWIN FERRULE COMPRESSION FITTINGS

LET-LOK® (IMPERIAL)

PICTORIAL INDEX

TUBE TO TUBE UNION	Straight Tube Union	Reducing Union	Straight Bulkhead Union	Union Elbow	Union Tee
	 762 11	 763 11	 774 12	 765 12	 764 13
Reducing Union Tee	4-way Cross Piece	TUBE STUB CONNECTOR	Port Connector	Reducing Port Connector	Tube Reducer
 764R 13	 7102 13		 767P 14	 767M 14	 767T 15
TUBE TO MALE PIPE	Male Connector	Male Pipe Weld Connector	Male Connector SAE	Male Elbow	Male Run Tee
	 768 16-17	 768N 19	 768OB 19	 769 20-21	 771 22
Male Branch Tee	Tube to Male Pipe Adaptor	Bulkhead Male Connector	TUBE TO FEMALE PIPE	Female Connector	Female Elbow
 772 23	 739M 24	 774M 24		 766 25-26	 770 27
Female Run Tee	Female Branch Tee	Tube to Female Pipe Adaptor	Bulkhead Female Connector	TUBE TO JIC / AN FLARE	LET-LOK to JIC / AN Male Adaptor
 771F 28	 772F 29	 739F 30	 774F 30		 762FL 31
LET-LOK to JIC / AN Male Bulkhead	CAP, PLUG & HOSETAIL	Cap	Plug	Tube to Hose Connector	METRIC TUBE FITTINGS & VALVES BEGIN PAGE L 34
 774FL 31		 7108 32	 7121 32	 130LT 33	

LET-LOK

TUBE DATA

Annealed 304 or 316 stainless steel tubing complying with ASTM A213, A269 or equivalent specifications. Based on ultimate tensile strength of 75,000 psi (5167 bar). For metal temperatures from -20°F to 100°F (-29°C to 37°C)

Suggested ordering information:

Fully annealed high quality (Type 304 or 316) stainless steel hydraulic tubing ASTM A269 or A213 or equivalent, seamless or welded and drawn with a hardness of Rb80 or less. Tubing should be without scratches and suitable for flaring and bending

Table 1: STAINLESS STEEL TUBING WALL THICKNESS OF TUBE IN INCHES (mm)

Tubing O.D.		0.01	0.012	0.014	0.016	0.02	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.12	0.134	0.156	0.188
mm	ins.	(0.25)	(0.30)	(0.35)	(0.40)	(0.50)	(0.71)	(0.89)	(1.24)	(1.65)	(2.10)	(2.41)	(2.77)	(3.05)	(3.40)	(3.96)	(4.77)
	1/16"	5600	6860	8150	9480	12080											
2	1/8"						8550	10950									
3	3/16"						5500	7100	10300								
6	1/4"						4100	5200	7600	10300							
8	5/16"							4100	5900	8100							
10	3/8"							3350	4850	6550							
12	1/2"							2650	3750	5150	6750						
16	5/8"								2950	4050	5250	6050					
20	3/4"								2450	3350	4250	4950	5850				
22	7/8"								2050	2850	3650	4250	4850				
25	1"									2400	3100	3600	4200	4700			
	1 1/4"										2400	2800	3300	3600	4100	4900	
	1 1/2"											2300	2700	3000	3400	4000	4900

Working pressure (psig) for seamless tubing.
Multiply pressure rating by 0.80 for single welded tubing
Multiply pressure rating by 0.85 for double welded tubing

Table 2: COPPER TUBING WALL THICKNESS OF TUBE IN INCHES (mm)

Tubing O.D.		0.028	0.035	0.049	0.065	0.83	0.095	0.109	0.120
mm	ins.	(0.71)	(0.89)	(1.24)	(1.65)	(2.10)	(2.41)	(2.77)	(3.05)
2	1/8"	2700	3600						
3	3/16"	1800	2300	3400					
6	1/4"	1300	1600	2500	3500				
8	5/16"		1300	1900	2700				
10	3/8"		1000	1600	2200				
12	1/2"		800	1100	1600	2100			
16	5/8"			900	1200	1600	1900		
20	3/4"			700	1000	1300	1500	1800	
22	7/8"			600	800	1100	1300	1500	
25	1"			500	700	900	1100	1300	1500

Annealed copper seamless tubing complying with ASTM B68 and ASTM B75 specified in temper designation 060. Based on ultimate tensile strength 30,000 psi (2067 bar). For metal temperatures from -20°F to 100°F (-29°C to 37°C)

Suggested ordering information:

High quality soft annealed seamless copper tubing ASTM B75 or equivalent

Table 3: FACTORS USED TO DETERMINE ALLOWABLE PRESSURE AT ELEVATED TEMPERATURES

Deg °F	Deg °C	A.I.S.I. 316	Copper
200	93	1	0.80
400	204	0.96	0.50
600	316	0.85	
800	427	0.79	
1000	538	0.76	
1200	649	0.37	

To determine allowable pressure at higher temperatures, multiply allowable working pressure from Tables 1 & 2 by the factor shown in Table 3

For example: The allowable pressure for Type 316 stainless steel, size 1/2" OD x .049" wall at 800°F (427°C) would be equivalent to 3750 psi x 0.79 = 2962.5 psi

Table 4: GAS APPLICATION TUBING

Tubing O.D.	Min. Nominal Wall Thickness	
	ins.	mm
1/8"	0.028"	0.71
3/16"	0.028"	0.71
1/4"	0.028"	0.71
5/16"	0.035"	0.89
3/8"	0.035"	0.89
1/2"	0.049"	1.24
5/8"	0.065"	1.65
3/4"	0.065"	1.65
7/8"	0.083"	2.10
1"	0.083"	2.10

Gases are characterised by small molecules which can escape through the smallest leak path. For gas applications, it is therefore recommended to select tubing with greater wall thickness. Table 4 shows the recommended wall thicknesses for greater safety and efficiency

WARNING!

For Your Safety

The system designer and user have the sole responsibility to select products suitable for their special application requirements to ensure the proper installation, operation and maintenance of the product. Application details, material compatibility and product ratings should all be considered in the individual selection. Improper selection or use of products can cause property damage or personal injury.

LET-LOK

PRESSURE RATINGS

PRESSURE RATINGS

Pressure Ratings for HAM-LET Tube Fittings

To ensure leak-tight systems, it is important to carefully select high-quality tubing (see page 6 - Allowable working pressure).

Pipe End Thread (NPT and ISO 7)
Pressure Ratings

Allowable pressure for male and female tapered pipe thread ends, Stainless Steel 316 and Brass.

TABLE 6: PRESSURE RATINGS

NPT / ISO Pipe Size	Stainless Steel 316		Brass	
	Male	Female	Male	Female
inch	psi			
1/16	11000	6700	5500	3300
1/8	10000	6500	5000	3200
1/4	8000	6600	4000	3300
3/8	7800	5300	3900	2600
1/2	7700	4900	3800	2400
3/4	7300	4600	3600	2300
1	5300	4400	2600	2200
1 1/4	6000	5000	3000	2500
1 1/2	5000	4600	2500	2300
2	3900	3900	1900	1900

Note: If pressure on LET-LOK end is higher than the pipe side, then pipe side needs heavier wall thickness of tapered pipe thread side.

Pressure Ratings for End Fittings per SAE J1926 (LOB) Surrounding Temperature

Pressure ratings are based on SAE J1926 at surrounding temperature.

TABLE 7: PRESSURE RATINGS

(LOB) SAE J1926 Thread Size	Stainless Steel 316	
	Nonpositionable	Positionable
inch	psi	
5/16 - 24	4568	4568
7/16 - 20	4568	4568
1/2 - 20	4568	4568
9/16 - 18	4568	3626
3/4 - 16	4568	3626
7/8 - 14	3626	2900
1 1/16 - 12	3626	2900
1 3/16 - 12	2900	2320
1 5/16 - 12	2900	2320
1 5/8 - 12	2320	1813
1 7/8 - 12	2320	1813
2 1/2 - 12	1813	1450

Note: 37° FLARE (AN) and LO ends can have lower pressure

O-Seal Pressure Ratings (page 19)

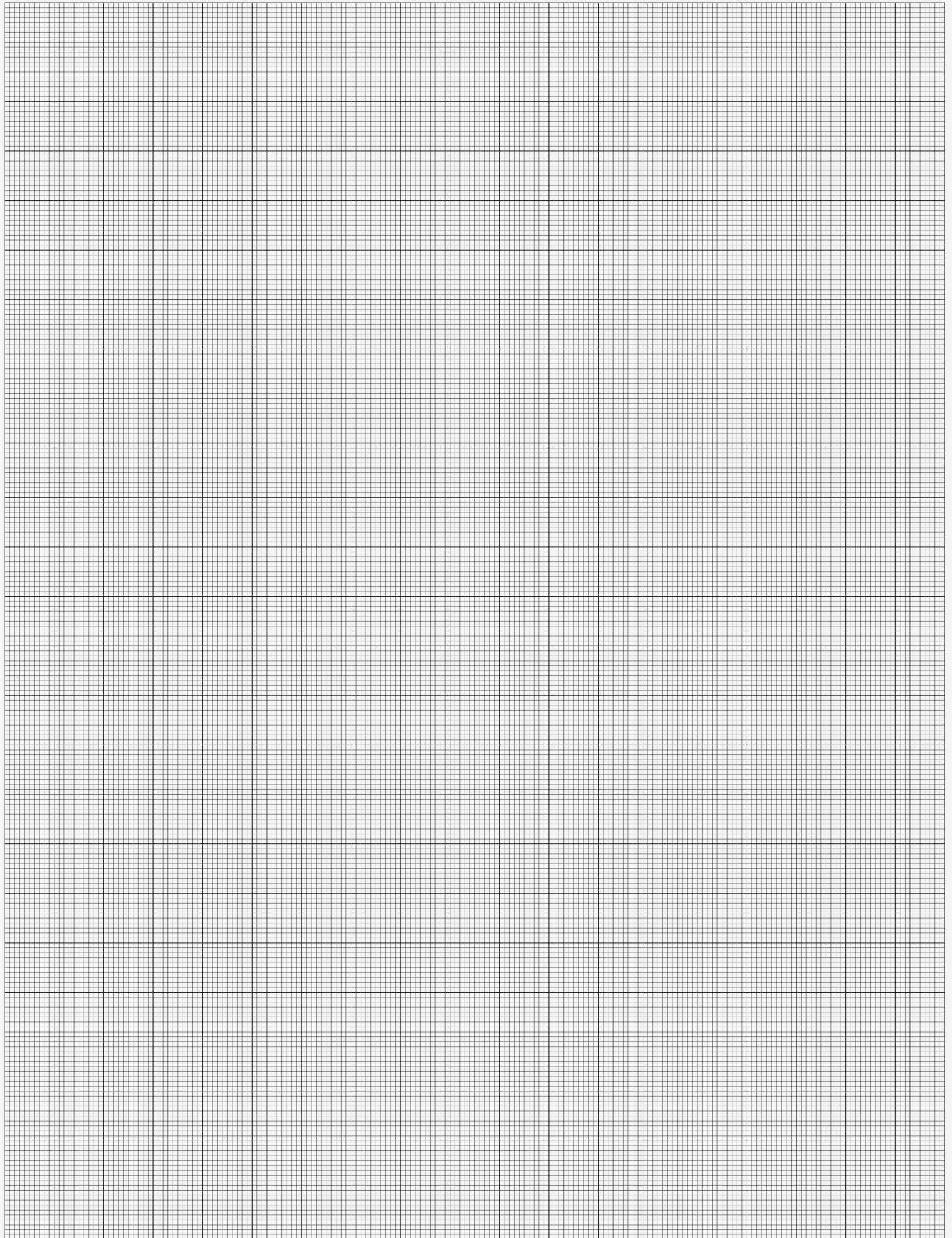
Stainless steel 316 O-seal fittings up to 1" and 25 mm are rated to 3000 psi.

Positionable, ISO/BSP Parallel Thread (G)
Pressure Ratings

Pressure ratings are at surrounding temperature.

TABLE 8: PRESSURE RATINGS

(G) ISO / BSPP Male Pipe size	Stainless Steel 316
inch	psi
1/8	4568
1/4	4568
3/8	4568
1/2	2320

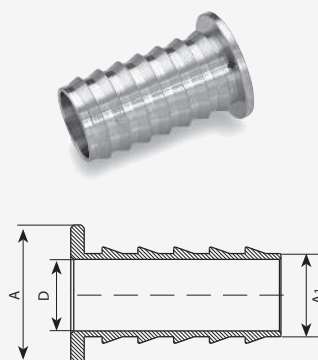


LET-LOK COMPONENTS

LET-LOK® (IMPERIAL)

COMPONENTS

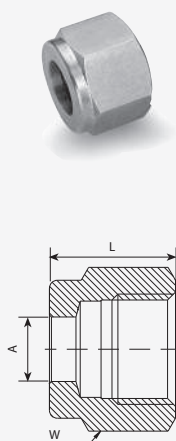
TUBE INSERT 760I



Product Code Stainless Steel	Product Code Brass *	760I Tube Insert (inch)					
		A Tube O.D.		A1 Tube I.D.		D Minimum opening	
		ins	mm	ins	mm	ins	mm
II760IS-0302	II760IB-0302 *	3/16	4.76	1/8	3.17	0.09	2.28
II760IS-0402	II760IB-0402 *	1/4	6.35	1/8	3.17	0.09	2.28
II760IS-0417	II760IB-0417 *	1/4	6.35	0.17	4.32	0.11	2.79
II760IS-0403	II760IB-0403 *	1/4	6.35	3/16	4.76	0.14	3.55
II760IS-0502	II760IB-0502 *	5/16	7.93	1/8	3.17	0.09	2.28
II760IS-0503	II760IB-0503 *	5/16	7.93	3/16	4.76	0.12	3.05
II760IS-0504	II760IB-0504 *	5/16	7.93	1/4	6.35	0.19	9.52
II760IS-0603	II760IB-0603 *	3/8	9.52	3/16	4.76	0.12	3.05
II760IS-0604	II760IB-0604 *	3/8	9.52	1/4	6.35	0.19	9.52
II760IS-0804	II760IB-0804 *	1/2	12.7	1/4	6.35	0.19	9.52
II760IS-0806	II760IB-0806 *	1/2	12.7	3/8	9.52	0.31	7.87
II760IS-1006	II760IB-1006 *	5/8	15.87	3/8	9.52	0.31	7.87
II760IS-1008	II760IB-1008 *	5/8	15.87	1/2	12.7	0.44	11.17
II760IS-1208	II760IB-1208 *	3/4	19.05	1/2	12.7	0.44	11.17
II760IS-1210	II760IB-1210 *	3/4	19.05	5/8	15.87	0.56	14.22
II760IS-1612	II760IB-1612 *	1	25.4	3/4	19.05	0.69	17.52

* Indent items available to order

NUT 761

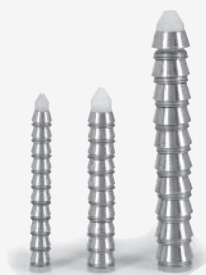


Product Code Stainless Steel	Product Code Brass	761 Nut (inch)					
		A Tube O.D.		W Wrench Flat		L	
		ins	mm	ins	mm	ins	mm
II761S-01 *	II761B-01 *	1/16	1.58	5/16	7.93	.31	7.87
II761S-02	II761B-02	1/8	3.17	7/16	11.11	.47	11.93
II761S-03 *	II761B-03	3/16	4.76	1/2	12.70	.47	11.93
II761S-04	II761B-04	1/4	6.35	9/16	14.28	.50	12.70
II761S-05	II761B-05 *	5/16	7.93	5/8	15.87	.53	13.46
II761S-06	II761B-06	3/8	9.52	11/16	17.46	.56	14.22
II761S-08	II761B-08	1/2	12.7	7/8	22.22	.69	17.52
II761S-10	II761B-10 *	5/8	15.87	1	25.4	.69	17.52
II761S-12	II761B-12	3/4	19.05	1.1/8	28.57	.69	17.52
II761S-16	II761B-16	1	25.40	1.1/2	38.10	.81	20.57

* Indent items available to order

LET-LOK COMPONENTS

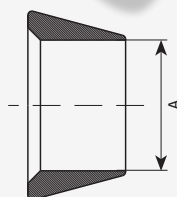
FERRULE SET 760



Product Code Stainless Steel	Product Code Brass	Product Code Teflon	760 Ferrule (inch) Stick Sets
II760S-02	II760B-02	II760T-02 *	
II760S-03	II760B-03	II760T-03 *	
II760S-04	II760B-04	II760T-04	
II760S-05	II760B-05	II760T-05 *	
II760S-06	II760B-06	II760T-06	
II760S-08	II760B-08	II760T-08	
II760S-10	II760B-10 *	II760T-10 *	
II760S-12	II760B-12	II760T-12	
II760S-16	II760B-16	II760T-16	
			A ferrule set contains one front ferrule and one back ferrule x 10 sets housed on a single stick. The stick provides a safe and easy method of storage as well as an easy and correct way to slide off a ferrule set directly onto tubing. The risk of damage to individual ferrules is greatly reduced, and assembly errors avoided through their use. Teflon ferrules are for use with glass or polycarbonate tube applications.

* Indent items available to order

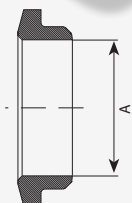
FRONT FERRULE



Included in Stainless Steel Set	Included in Brass Set	Included in Teflon Set	760 Front Ferrule (inch)	
			A ins	A mm
II760S-02	II760B-02	II760T-02	1/8	3.17
II760S-03	II760B-03	II760T-03	3/16	4.76
II760S-04	II760B-04	II760T-04	1/4	6.35
II760S-05	II760B-05	II760T-05	5/16	7.93
II760S-06	II760B-06	II760T-06	3/8	9.52
II760S-08	II760B-08	II760T-08	1/2	12.7
II760S-10	II760B-10	II760T-10	5/8	15.87
II760S-12	II760B-12	II760T-12	3/4	19.05
II760S-16	II760B-16	II760T-16	1	25.40

Please note that front and back ferrules are supplied only as part of the sets detailed above. Information is for reference purposes only

BACK FERRULE



Included in Stainless Steel Set	Included in Brass Set	Included in Teflon Set	760 Back Ferrule (inch)	
			A ins	A mm
II760S-02	II760B-02	II760T-02	1/8	3.17
II760S-03	II760B-03	II760T-03	3/16	4.76
II760S-04	II760B-04	II760T-04	1/4	6.35
II760S-05	II760B-05	II760T-05	5/16	7.93
II760S-06	II760B-06	II760T-06	3/8	9.52
II760S-08	II760B-08	II760T-08	1/2	12.7
II760S-10	II760B-10	II760T-10	5/8	15.87
II760S-12	II760B-12	II760T-12	3/4	19.05
II760S-16	II760B-16	II760T-16	1	25.40

Please note that front and back ferrules are supplied only as part of the sets detailed above. Information is for reference purposes only

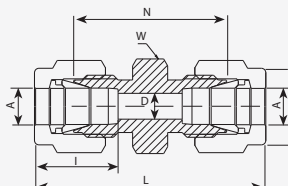
LET-LOK

TUBE TO TUBE UNIONS

LET-LOK® (IMPERIAL)

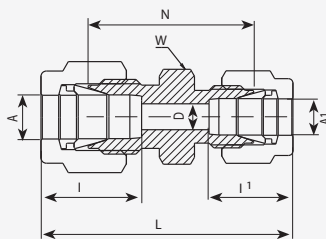
TUBE TO TUBE UNIONS

UNION 762



Product Code Stainless Steel	Product Code Brass	762 Union Tube (inch) to Tube (inch)											
		A Tube O.D.		D Minimum opening		W Wrench Flat		N		L		I	
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II762S-02	II762B-02	1/8	3.17	.09	2.28	7/16	11.11	.88	22.35	1.40	35.56	.50	12.7
II762S-03	II762B-03	3/16	4.76	.12	3.04	7/16	11.11	.95	24.13	1.47	37.33	.54	13.7
II762S-04	II762B-04	1/4	6.35	.19	4.82	1/2	12.70	1.03	26.16	1.61	40.89	.60	15.2
II762S-05	II762B-05	5/16	7.93	.25	6.35	9/16	14.28	1.11	28.20	1.69	42.90	.64	16.3
II762S-06	II762B-06	3/8	9.52	.28	7.11	5/8	15.87	1.19	30.22	1.77	44.95	.66	16.8
II762S-08	II762B-08	1/2	12.70	.41	10.41	13/16	20.63	1.22	30.98	2.02	51.30	.90	22.9
II762S-10	II762B-10	5/8	15.87	.50	12.70	15/16	23.81	1.25	31.75	2.05	52.07	.96	24.4
II762S-12	II762B-12	3/4	19.05	.62	15.74	1.1/16	26.98	1.31	33.27	2.11	53.59	.96	24.4
II762S-16	II762B-16	1	25.40	.88	22.35	1.3/8	34.92	1.59	40.38	2.55	64.77	1.23	31.3

REDUCING UNION 763



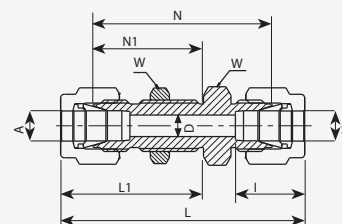
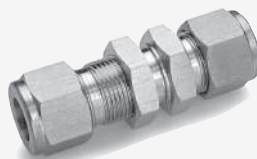
Product Code Stainless Steel	Product Code Brass	763 Reducing Union Tube (inch) to Tube (inch)															
		A Tube O.D.		A1 Tube O.D.		D Minimum opening		W Wrench Flat		N		L		I		I'	
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II763S-0402	II763B-0402	1/4	6.4	1/8	3.2	.09	2.3	1/2	12.7	.97	24.6	1.52	38.6	.60	15.2	.50	12.7
II763S-0604	II763B-0604	3/8	9.5	1/4	6.4	.19	4.8	5/8	15.9	1.12	28.4	1.70	43.2	.66	16.8	.60	15.2
II763S-0804	II763B-0804	1/2	12.7	1/4	6.4	.19	4.8	13/16	20.6	1.16	29.5	1.85	47.0	.90	22.9	.60	15.2
II763S-0806	II763B-0806	1/2	12.7	3/8	9.5	.28	7.1	13/16	20.6	1.22	31.0	1.91	48.5	.90	22.9	.66	16.8
II763S-1006	II763B-1006	5/8	15.9	3/8	9.5	.28	7.1	15/16	23.8	1.25	31.8	1.94	49.3	.96	24.4	.66	16.8
II763S-1206	II763B-1206	3/4	19.1	3/8	9.5	.28	7.1	1.1/16	27.0	1.31	33.3	2.00	50.8	.96	24.4	.66	16.8
II763S-1208	II763B-1208	3/4	19.1	1/2	12.7	.41	10.4	1.1/16	27.0	1.31	33.3	2.11	53.6	.96	24.4	.90	22.9

LET-LOK

TUBE TO TUBE UNIONS

BULKHEAD UNION

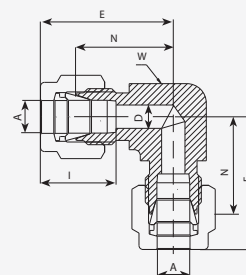
774



Product Code Stainless Steel	Product Code Brass	774 Bulkhead Union Tube (inch) to Tube (inch)																			
		A Tube O.D.		D Minimum opening		W Wrench Flat		N		N1		L		L1		I		Panel Hole Drill Size		Max. Panel Thickness	
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II774S-04	II774B-04	1/4	6.35	.19	4.8	5/8	15.9	1.69	42.9	1.03	26.2	2.27	57.7	1.32	33.5	0.6	15.2	.45	11.5	.40	10.2
II774S-06	II774B-06	3/8	9.52	.28	7.1	3/4	19.1	1.87	47.5	1.16	29.5	2.45	62.2	1.45	36.8	.66	16.8	.58	14.7	.44	11.2
II774S-08	II774B-08	1/2	12.70	.41	10.4	15/16	23.8	1.98	50.2	1.25	31.8	2.80	71.1	1.65	41.9	.90	22.9	.77	19.4	.50	12.7
II774S-12	II774B-12	3/4	19.05	.62	15.7	1.3/16	30.2	2.31	58.7	1.47	37.3	3.11	79.0	1.87	47.5	.96	24.4	1.02	25.8	.66	16.8
II774S-16	II774B-16	1	25.40	.88	22.4	1.5/8	41.3	2.81	71.4	1.78	45.2	3.77	95.8	2.26	57.4	1.23	31.2	1.33	33.7	.75	19.1

UNION ELBOW

765



Product Code Stainless Steel	Product Code Brass	765 Union Elbow Tube (inch) to Tube (inch)											
		A Tube O.D.		D		W Wrench Flat		N		E		I	
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II765S-02	II765B-02	1/8	3.17	.09	2.28	3/8	9.52	.62	15.74	.88	22.35	.50	12.7
II765S-04	II765B-04	1/4	6.35	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.60	15.2
II765S-06	II765B-06	3/8	9.52	.28	7.11	5/8	15.87	.91	23.11	1.20	30.48	.66	16.8
II765S-08	II765B-08	1/2	12.7	.41	10.41	13/16	20.63	1.02	25.9	1.42	36.06	.90	22.9
II765S-10	II765B-10	5/8	15.87	.50	12.7	15/16	23.81	1.10	27.94	1.50	38.1	.96	24.4
II765S-12	II765B-12	3/4	19.05	.62	15.74	1.1/8	28.6	1.17	29.71	1.57	39.89	.96	24.4
II765S-16	II765B-16	1	25.40	.88	22.35	1.3/8	34.92	1.45	36.83	1.93	49	1.23	31.3

LET-LOK

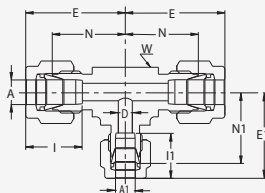
TUBE TO TUBE UNIONS

LET-LOK® (IMPERIAL)

TUBE TO TUBE UNIONS

REDUCING UNION TEE

764R

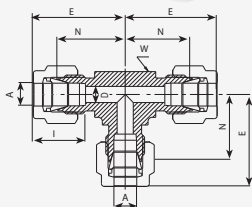


Product Code Stainless Steel	764R Reducing Tee - All Tube (inch)																			
	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D Minimum opening		W Wrench Flat		N		N1	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II764RS-161608	1	25.40	1/2	12.7	1.93	49.0	1.76	44.7	1.23	31.2	.90	22.9	.41	10.4	1.3/8	34.9	1.45	36.8	1.36	34.5

Note: Many combinations of this fitting are available to order on an indent basis. Please refer Pirtek

UNION TEE

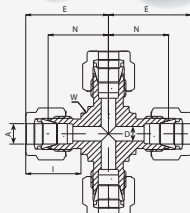
764



Product Code Stainless Steel	Product Code Brass	764 Union Tee - All Tube (inch)											
		A Tube O.D.		D		W Wrench Flat		N		E		I	
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II764S-02	II764B-02	1/8	3.17	.09	2.28	1/2	12.7	.62	15.74	.88	22.35	.50	12.7
II764S-04	II764B-04	1/4	6.35	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.60	15.2
II764S-05	II764B-05	5/16	7.93	.25	6.35	5/8	15.87	.88	22.35	1.17	29.71	.64	16.3
II764S-06	II764B-06	3/8	9.52	.28	7.11	5/8	15.87	.91	23.11	1.20	30.48	.66	16.8
II764S-08	II764B-08	1/2	12.7	.41	10.41	13/16	20.63	1.02	25.9	1.42	36.06	.90	22.9
II764S-10	II764B-10	5/8	15.87	.50	12.70	15/16	23.81	1.13	28.7	1.53	38.9	.96	24.4
II764S-12	II764B-12	3/4	19.05	.62	15.74	1.1/8	28.6	1.17	29.71	1.57	39.89	.96	24.4
II764S-16	II764B-16	1	25.40	.88	22.35	1.3/8	34.93	1.45	36.83	1.93	49	1.23	31.3

UNION CROSS

7102

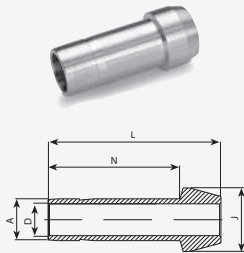


Product Code Stainless Steel	Product Code Brass	7102 Union Cross - All Tube (inch)											
		A Tube O.D.		D		W Wrench Flat		N		E		I	
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II7102S-02	II7102B-02	1/8	3.17	.09	2.28	3/8	9.52	.62	15.74	.88	22.35	.50	12.7
II7102S-04	II7102B-04	1/4	6.35	.19	4.82	1/2	12.7	.77	19.56	1.07	27.18	.60	15.2
II7102S-06	II7102B-06	3/8	9.52	.28	10.41	5/8	15.87	.91	23.11	1.20	30.48	.66	16.8
II7102S-08	II7102B-08	1/2	12.7	.41	10.41	13/16	20.63	1.02	25.9	1.42	36.06	.90	22.9
II7102S-12	II7102B-12	3/4	19.05	.62	15.74	1.1/16	26.98	1.17	29.72	1.578	39.88	.96	24.4
II7102S-16	II7102B-16	1	25.40	.88	22.35	1.3/8	34.9	1.45	36.8	1.93	49.02	1.23	31.2

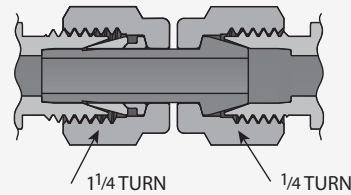
LET-LOK

TUBE STUB CONNECTORS

PORT CONNECTOR 767P

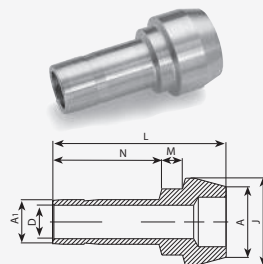


Product Code Stainless Steel	767P Port Connector - Connects Equal (Inch) Let-Lok® Ports									
	A Tube O.D.		D Tube O.D.		N		L		J	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II767PS-04	1/4	6.35	.19	4.82	.74	18.8	.97	24.64	.37	9.4
II767PS-06	3/8	9.52	.30	7.62	.80	20.32	1.03	26.16	.50	12.70
II767PS-08	1/2	12.7	.39	9.90	1.02	25.90	1.41	35.81	.62	15.75
II767PS-12	3/4	19.05	.59	14.58	1.09	27.68	1.47	37.34	.87	22.10
II767PS-16	1	25.40	.80	20.32	1.36	34.54	1.90	48.26	1.12	28.45

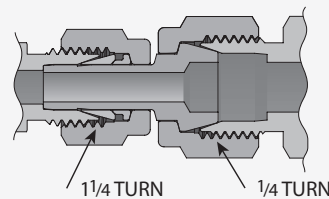


Assembly instructions

REDUCING PORT CONNECTOR 767M



Product Code Stainless Steel	767M Reducing Port Connector - Connects Unequal (Inch) Let-Lok® Ports													
	A Tube O.D.		A1 Tube O.D.		D Tube O.D.		N		L		J		M	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II767MS-0604	3/8	9.52	1/4	6.25	.19	4.82	.62	15.75	.98	24.90	.50	12.70	.13	3.30
II767MS-0804	1/2	12.7	1/4	6.25	.19	4.82	.62	15.75	1.15	29.21	.62	15.75	.15	3.81
II767MS-0806	1/2	12.7	3/8	9.52	.28	7.11	.69	17.52	1.20	30.48	.62	15.75	.13	3.30
II767MS-1208	3/4	19.05	1/2	12.7	.39	9.90	.91	23.11	1.44	36.58	.87	22.10	.15	3.81



Tighten 1/4 turn only where
no tube deformation is
involved

Assembly instructions

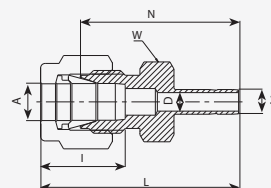
LET-LOK

TUBE STUB CONNECTORS

LET-LOK® (IMPERIAL)

TUBE STUB CONNECTORS

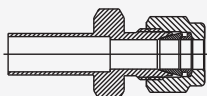
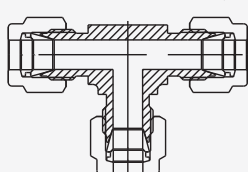
REDUCER 767T



Product Code Stainless Steel	Product Code Brass	767T Reducer - Tube (inch) to Stub (inch)													
		A		A1		D		W		N		L		I	
		Tube O.D.		Tube O.D.											
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II767TS-0402	II767TB-0402	1/4	6.35	1/8	3.17	.08	2.03	1/2	12.7	1.16	29.46	1.45	36.83	.60	15.2
II767TS-0406	II767TB-0406	1/4	6.35	3/8	9.52	.19	4.82	1/2	12.7	1.31	33.27	1.60	40.64	.60	15.2
II767TS-0408	II767TB-0408	1/4	6.35	1/2	12.7	.19	4.82	9/16	14.28	1.53	38.86	1.82	46.22	.60	15.2
II767TS-0604	II767TB-0604	3/8	9.52	1/4	6.35	.19	4.22	5/8	15.87	1.34	34.03	1.63	41.4	.66	16.8
II767TS-0608	II767TB-0608	3/8	9.52	1/2	12.7	.28	7.11	5/8	15.87	1.62	41.14	1.91	48.51	.66	16.8
II767TS-0612	II767TB-0612	3/8	9.52	3/4	19.05	.28	7.11	13/16	20.63	1.69	42.92	1.98	50.29	.66	16.8
II767TS-0804	II767TB-0804	1/2	12.7	1/4	6.35	.19	4.82	13/16	20.63	1.37	34.80	1.77	44.96	.90	22.9
II767TS-0806	II767TB-0806	1/2	12.7	3/8	9.52	.28	7.11	13/16	20.63	1.44	36.58	1.84	46.74	.90	22.9
II767TS-0812	II767TB-0812	1/2	12.7	3/4	19.05	.41	10.41	13/16	20.63	1.72	43.68	2.12	53.84	.90	22.9
II767TS-0816	II767TB-0816	1/2	12.7	1	25.4	.41	10.41	1.1/16	26.98	1.97	50.03	2.37	60.19	.90	22.9
II767TS-1208	II767TB-1208	3/4	19.05	1/2	12.7	.39	9.91	1.1/16	26.98	1.75	44.45	2.15	54.61	.96	24.4
II767TS-1216	II767TB-1216	3/4	19.05	1	25.4	.62	15.75	1.1/16	26.98	2.06	52.32	2.46	62.48	.96	24.4

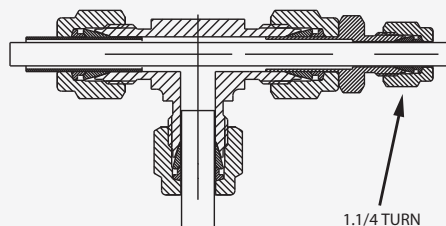
UNION TEE - 764

REDUCER - 767T



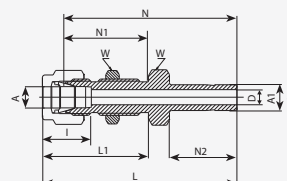
Example:

Heat exchanger tee made with Let-Lok tube fittings



1.1/4 TURN
(450°) ONLY

BULKHEAD REDUCER 774T



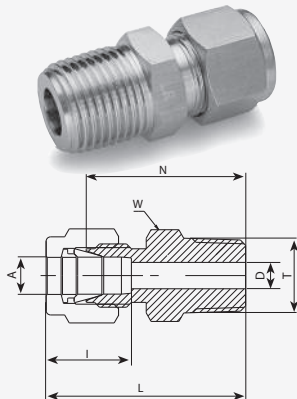
Product Code Stainless Steel	Product Code Brass	774T Bulkhead Reducer - Tube (inch) to Stub (inch)																			
		A Tube O.D.		A1 Tube O.D.		D Minimum opening		W Wrench Flat		N		N1		N2		L		L1		I	
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II774TS-04	II774TB-04	1/4	6.35	1/4	6.35	.17	4.8	5/8	15.9	1.9	48.3	1.03	26.2	.62	15.7	2.20	55.6	1.3	33.5	.60	15.2
II774TS-06	II774TB-06	3/8	9.52	3/8	9.52	.28	7.1	3/4	19.1	2.1	54.1	1.16	29.5	.69	17.5	2.41	61.5	1.5	36.8	.66	16.8
II774TS-08	II774TB-08	1/2	12.70	1/2	12.70	.39	10.4	15/16	23.8	2.5	62.7	1.25	31.8	.91	23.1	2.87	72.9	1.6	41.9	.90	22.9

LET-LOK

TUBE TO MALE PIPE

MALE CONNECTOR (BSPT)

768*B



PLEASE NOTE:

Pirtek stock Male Connectors in the following configurations, all of which are documented in these pages

- BSPT
- NPT
- BSPP
- JIC / AN

Other forms that are available to order include:

- Butt Weld
- Socket Weld

Product Code Stainless Steel	Product Code Brass	768*B Male Connector - Connects Tube (inch) to Male BSPT Thread												
		A Tube O.D.		T (BSPT)	D		W Width Across Hex		N		L		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II768SB-0202	II768BB-0202	1/8	3.17	R-1/8	.09	2.28	7/16	11.11	.94	23.8	1.17	29.71	.50	12.7
II768SB-0204	II768BB-0204	1/8	3.17	R-1/4	.09	2.28	9/16	14.28	1.14	28.95	1.40	35.56	.50	12.7
II768SB-0302	II768BB-0302	3/16	4.76	R-1/8	.12	3.04	7/16	11.11	.97	24.53	1.23	31.24	.54	13.7
II768SB-0402	II768BB-0402	1/4	6.35	R-1/8	.19	4.82	1/2	12.7	1.0	25.4	1.29	32.76	.60	15.2
II768SB-0404	II768BB-0404	1/4	6.35	R-1/4	.19	4.82	9/16	14.28	1.2	30.5	1.49	37.85	.60	15.2
II768SB-0406	II768BB-0406	1/4	6.35	R-3/8	.19	4.82	11/16	17.46	1.21	30.78	1.51	38.35	.60	15.2
II768SB-0408	II768BB-0408	1/4	6.35	R-1/2	.19	4.82	7/8	22.22	1.47	37.34	1.76	44.70	.60	15.2
II768SB-0502	II768BB-0502	5/16	7.93	R-1/8	.19	4.82	9/16	14.28	1.05	26.67	1.34	34.03	.64	16.2
II768SB-0504	II768BB-0504	5/16	7.93	R-1/4	.25	6.35	9/16	14.28	1.23	31.24	1.52	38.6	.64	16.2
II768SB-0602	II768BB-0602	3/8	9.52	R-1/8	.19	4.82	5/8	15.87	1.10	27.90	1.38	35.05	.66	16.8
II768SB-0604	II768BB-0604	3/8	9.52	R-1/4	.28	7.11	5/8	15.87	1.28	32.51	1.57	39.87	.66	16.8
II768SB-0606	II768BB-0606	3/8	9.52	R-3/8	.28	7.11	11/16	17.46	1.28	32.51	1.57	39.87	.66	16.8
II768SB-0608	II768BB-0608	3/8	9.52	R-1/2	.28	7.11	7/8	22.22	1.53	38.90	1.82	46.23	.66	16.8
II768SB-0804	II768BB-0804	1/2	12.7	R-1/4	.28	7.11	13/16	20.63	1.31	33.27	1.71	43.43	.90	22.9
II768SB-0806	II768BB-0806	1/2	12.7	R-3/8	.38	9.65	13/16	20.63	1.31	33.27	1.71	43.43	.90	22.9
II768SB-0808	II768BB-0808	1/2	12.7	R-1/2	.41	10.41	7/8	22.22	1.53	38.90	1.93	49.02	.90	22.9
II768SB-0812	II768BB-0812	1/2	12.7	R-3/4	.41	10.41	1.1/16	26.98	1.59	40.38	1.99	50.54	.96	22.9
II768SB-1008	II768BB-1008	5/8	15.87	R-1/2	.47	11.90	15/16	23.81	1.53	38.86	1.93	49.02	.96	24.4
II768SB-1208	II768BB-1208	3/4	19.05	R-1/2	.50	12.70	1.1/16	26.98	1.59	40.38	1.99	50.54	.96	24.4
II768SB-1212	II768BB-1212	3/4	19.05	R-3/4	.62	15.74	1.1/16	26.98	1.59	40.38	1.99	50.54	.96	24.4
II768SB-1612	II768BB-1612	1	25.40	R-3/4	.72	18.28	1.3/8	34.92	1.78	45.21	2.26	57.40	1.23	31.2
II768SB-1616	II768BB-1616	1	25.40	R-1	.88	22.35	1.3/8	34.92	1.97	50.03	2.45	62.23	1.23	31.2
II768SB-2016	II768BB-2016 †	1.1/4	31.75	R-1	.85	21.80	1.3/4	44.45	2.17	55.12	3.04	77.22	1.62	41.20

† Indent item, available on request

Reference Specifications:

DIN - ISO 2999

BS - 21

JIS - B0203

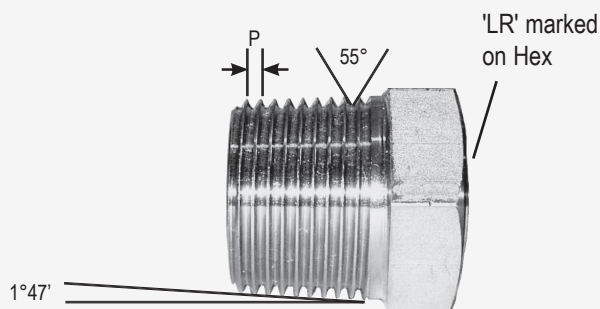
ISO - 7/1 - BSP-T

55° Thread Angle

Pitch 'P' is measured in Threads Per Inch (TPI)

Truncations of root and crest are round

Taper angle 1° 47'



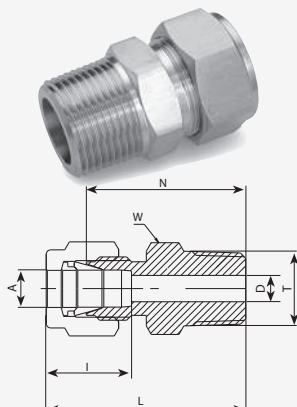
LET-LOK

TUBE TO MALE PIPE

LET-LOK® (IMPERIAL)

TUBE TO MALE PIPE

MALE CONNECTOR (NPT) 768*N



Product Code Stainless Steel	Product Code Brass	768*N Male Connector - Connects Tube (inch) to Male NPT Thread													
		A Tube O.D.		T (NPT)	D		W Width Across Hex		N		L		I		
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	
II768SN-0202	II768BN-0202	1/8	3.17	1/8	.09	2.28	7/16	11.11	.94	23.8	1.17	29.71	.50	12.7	
II768SN-0204	II768BN-0204	1/8	3.17	1/4	.09	2.28	9/16	14.28	1.14	28.95	1.40	35.56	.50	12.7	
II768SN-0302	II768BN-0302	3/16	4.76	1/8	.12	3.04	7/16	11.11	.97	24.53	1.23	31.24	.54	13.7	
II768SN-0402	II768BN-0402	1/4	6.35	1/8	.19	4.82	1/2	12.7	1.0	25.4	1.29	32.76	.60	15.2	
II768SN-0404	II768BN-0404	1/4	6.35	1/4	.19	4.82	9/16	14.28	1.2	30.5	1.49	37.85	.60	15.2	
II768SN-0406	II768BN-0406	1/4	6.35	3/8	.19	4.82	11/16	17.46	1.21	30.78	1.51	38.35	.60	15.2	
II768SN-0408	II768BN-0408	1/4	6.35	1/2	.19	4.82	7/8	22.22	1.47	37.34	1.76	44.70	.60	15.2	
II768SN-0412	II768BN-0412	1/4	6.35	3/4	.19	4.82	7/8	22.22	1.19	30.20	1.48	37.59	.60	15.2	
II768SN-0502	II768BN-0502	5/16	7.93	1/8	.19	4.82	9/16	14.28	1.05	26.67	1.34	34.03	.64	16.2	
II768SN-0504	II768BN-0504	5/16	7.93	1/4	.25	6.35	9/16	14.28	1.23	31.24	1.52	38.6	.64	16.2	
II768SN-0602	II768BN-0602	3/8	9.52	1/8	.19	4.82	5/8	15.87	1.10	27.90	1.39	35.3	.66	16.8	
II768SN-0604	II768BN-0604	3/8	9.52	1/4	.28	7.11	5/8	15.87	1.28	32.51	1.57	39.87	.66	16.8	
II768SN-0606	II768BN-0606	3/8	9.52	3/8	.28	7.11	11/16	17.46	1.28	32.51	1.57	39.87	.66	16.8	
II768SN-0608	II768BN-0608	3/8	9.52	1/2	.28	7.11	7/8	22.22	1.53	38.90	1.82	46.23	.66	16.8	
II768SN-0612	II768BN-0612	3/8	9.52	3/4	.28	7.11	7/8	22.22	1.53	38.90	1.82	46.23	.66	16.8	
II768SN-0804	II768BN-0804	1/2	12.7	1/4	.28	7.11	13/16	20.63	1.31	33.27	1.71	43.43	.90	22.9	
II768SN-0806	II768BN-0806	1/2	12.7	3/8	.38	9.65	1.1/16	26.98	1.59	40.38	1.88	47.75	.66	16.8	
II768SN-0808	II768BN-0808	1/2	12.7	1/2	.41	10.41	7/8	22.22	1.53	38.90	1.93	49.02	.90	22.9	
II768SN-0812	II768BN-0812	1/2	12.7	3/4	.41	10.41	1.1/16	26.98	1.59	40.38	1.99	50.54	.90	22.9	
II768SN-0816		1/2	12.7	1	.41	10.41	1.3/8	34.90	1.85	47.00	2.25	57.15	.90	22.9	
II768SN-1008	II768BN-1008	5/8	15.87	1/2	.47	11.90	15/16	23.81	1.53	38.86	1.93	49.02	.96	24.4	
II768SN-1208	II768BN-1208	3/4	19.05	1/2	.50	12.70	1.1/16	26.98	1.59	40.38	1.99	50.54	.96	24.4	
II768SN-1212	II768BN-1212	3/4	19.05	3/4	.62	15.74	1.1/16	26.98	1.59	40.38	1.99	50.54	.96	24.4	
II768SN-1216	II768BN-1216	3/4	19.05	1	.62	15.74	1.1/16	26.98	1.59	40.38	1.99	50.54	.96	24.4	
II768SN-1608	II768BN-1608	1	25.40	1/2	.47	11.9	1.3/8	34.92	1.72	43.70	2.2	55.8	1.23	31.2	
II768SN-1612	II768BN-1612	1	25.40	3/4	.72	18.28	1.3/8	34.92	1.78	45.21	2.26	57.40	1.23	31.2	
II768SN-1616	II768BN-1616	1	25.40	1	.88	22.35	1.3/8	34.92	1.97	50.03	2.45	62.23	1.23	31.2	

Reference Specifications:

60° Thread Angle

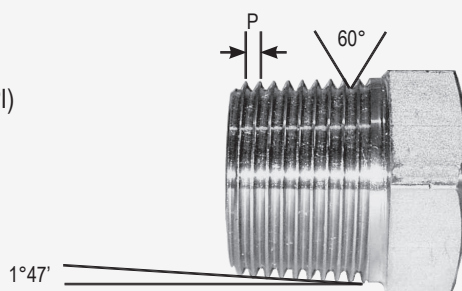
Pitch 'P' is measured in Threads Per Inch (TPI)

Truncations of root and crest are flat

Taper angle 1° 47'

American Standard Pipe Thread (NPT)

NPT (National Pipe Tapered) is made to specifications outlined in ANSI B1.20.1

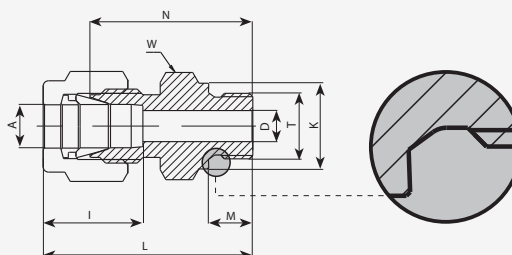


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Pirtek reserve the right to change technical specifications without notice

LET-LOK

TUBE TO MALE PIPE

MALE CONNECTOR (BSPP) 768*P



Product Code Stainless Steel	768SP Male Connector - Connects Tube (inch) to Male BSPP Thread										
	A Tube O.D.		T (BSPP)	D	K	W Width Across Hex		N	M	L	I
	ins	mm	ins	mm	mm	ins	mm	mm	mm	mm	mm
II768SP-0404	1/4	6.35	G-1/4	4.8	18.0	9/16	14.28	30.2	11.2	37.6	15.3
II768SP-0406	1/4	6.35	G-3/8	4.8	21.8	11/16	17.46	31.50	11.2	38.90	15.3
II768SP-0606	3/8	9.52	G-3/8	7.9	21.8	11/16	17.46	33.0	11.2	40.6	17.2
II768SP-0608	3/8	9.52	G-1/2	7.9	26.0	7/8	22.22	38.90	14.2	46.5	17.2
II768SP-0808	1/2	12.7	G-1/2	9.5	26.0	7/8	22.22	38.90	14.2	49.0	22.8
II768SP-0812	1/2	12.7	G-3/4	9.5	32.0	1.1/16	26.98	42.7	15.7	52.8	22.8
II768SP-1208	3/4	19.05	G-1/2	15.9	32.0	1.1/16	26.98	42.7	15.7	52.8	26.0
II768SP-1212	3/4	19.05	G-3/4	15.9	32.0	1.1/16	26.98	42.7	15.7	52.8	26.0
II768SP-1616	1	25.40	G-1	19.8	39.0	1.3/8	34.92	47.8	18.3	60.1	31.3

Note: A Bonded Seal (Dowty Washer) is required to provide a seal

Reference Specifications:

DIN - ISO 228/1

BS - 2779

JIS - B0202

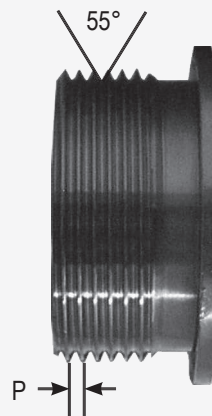
ISO - 228/1 - BSP-P

55° Thread Angle

Pitch measured in Threads Per Inch (TPI)

Truncation of root and crest are round

Diameter measured in inches



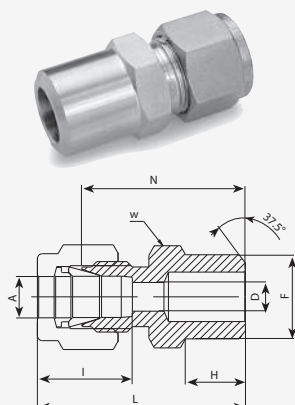
LET-LOK

TUBE TO MALE PIPE

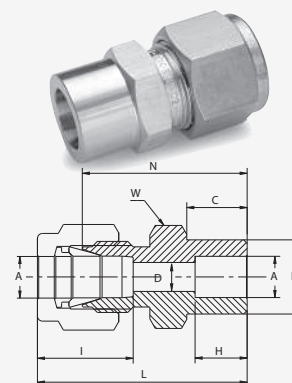
LET-LOK® (IMPERIAL)

TUBE TO MALE PIPE

MALE PIPE BUTT WELD CONNECTOR 768N



MALE TUBE SOCKET WELD CONNECTOR 768W

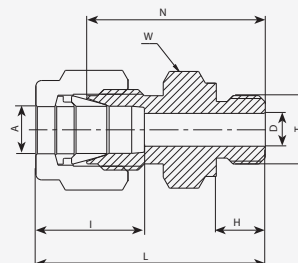


Product Code Stainless Steel Butt Weld	768N Male Pipe Butt Weld Connector - Tube (inch)																
	A Tube O.D.		F Pipe Size		D Min. Opening		W Width Across Hex		N		H		L		I		
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	
II768NS-0202	1/8	3.17	1/8	10.30	.09	2.28	7/16	11.11	.94	23.88	.38	9.65	1.20	30.48	.50	12.70	
II768NS-0404	1/4	6.35	1/4	13.70	.19	4.82	9/16	14.28	1.19	30.22	.56	14.22	1.48	37.59	.60	15.24	
II768NS-0606	3/8	9.52	3/8	17.10	.28	7.11	11/16	17.46	1.28	32.51	.56	14.22	1.57	39.87	.66	16.76	
II768NS-0808	1/2	12.70	1/2	21.34	.41	10.41	7/8	22.22	1.53	38.86	.75	19.05	1.93	49.0	.90	22.86	
II768NS-1212	3/4	19.05	3/4	26.67	.62	15.74	1.1/16	26.98	1.60	40.64	.75	19.05	2.00	50.8	.96	24.38	
II768NS-1616	1	25.40	1	33.40	.88	22.35	1.3/8	34.92	1.97	50.03	.94	23.87	2.45	62.23	1.23	31.24	

Product Code Stainless Steel Socket Weld	768W Male Tube Socket Weld Connector - Tube (inch)																
	A Tube O.D.		C		D Min. Opening		W Width Across Hex		F		H		I		L		N
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins
II768WS-0202	1/8	3.17	0.34	8.64	0.09	2.28	7/16	11.11	0.31	7.87	0.25	6.35	0.50	12.70	1.14	28.96	0.88
II768WS-0404	1/4	6.35	0.41	10.41	0.19	4.80	1/2	12.70	0.44	11.18	0.31	7.87	0.60	15.20	1.321	33.53	1.03
II768WS-0606	3/8	9.52	0.47	11.94	0.28	7.10	5/8	15.88	0.62	15.75	0.38	9.65	0.66	16.80	1.48	37.60	1.19
II768WS-0808	1/2	12.70	0.47	11.94	0.41	10.40	13/16	20.64	0.75	19.05	0.50	12.7	0.90	22.90	1.62	41.15	1.22
II768WS-1212	3/4	19.05	0.47	11.94	0.62	15.80	1.1/16	27.00	1.05	26.67	0.56	14.22	0.96	24.40	1.71	43.43	1.31
II768WS-1616	1	25.40	0.56	14.22	0.88	22.35	1.3/8	34.93	1.31	33.27	0.75	19.05	1.23	31.20	2.07	52.58	1.59

Note: All the above are indent items available only to order. Please refer Pirtek

MALE CONNECTOR SAE / MS 768OB



Product Code Stainless Steel	BS Code Duro 90 Viton O-Ring	768OB Connects Tube (inch) to SAE / MS Straight Thread Boss														
		A Tube O.D.		T Thread Size UN		D		W Width Across Hex		N		H		L		I
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins
II768OBSM-04	904	1/4	6.35	7/16-20	11.1	.19	4.82	9/16	14.28	1.05	26.67	.36	9.14	1.34	34.03	0.60
II768OBSM-06	906	3/8	9.52	9/16-18	14.3	.28	7.11	11/16	17.46	1.17	29.71	.39	9.90	1.46	37.02	0.66
II768OBSM-08	908	1/2	12.70	3/4-16	19.1	.41	10.41	7/8	22.22	1.25	31.75	.44	11.17	1.66	41.91	0.90

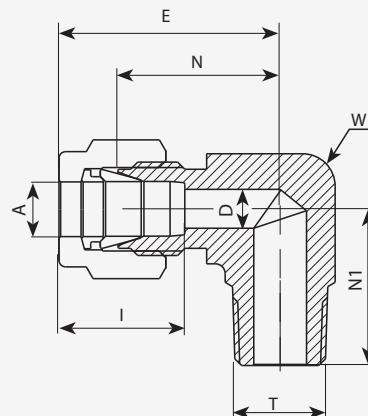


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LET-LOK

TUBE TO MALE PIPE

MALE ELBOW (BSPT) 769*B



Product Code Stainless Steel	Product Code Brass	769*B Male Elbow - Connects Tube (inch) to Male BSPT Thread														
		A Tube O.D.		T (BSPT)	D		W Width Across Hex		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II769SB-0202	II769BB-0202	1/8	3.17	R-1/8	.09	2.28	7/16	11.11	.67	17.02	.93	23.62	.70	17.28	.50	12.7
II769SB-0302	II769BB-0302	3/16	4.76	R-1/8	.12	3.04	1/2	12.7	.74	18.8	1.00	25.4	.74	18.80	.54	13.7
II769SB-0402	II769BB-0402	1/4	6.35	R-1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
II769SB-0404	II769BB-0404	1/4	6.35	R-1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
II769SB-0406	II769BB-0406	1/4	6.35	R-3/8	.19	4.82	13/16	20.63	.88	22.35	1.17	29.71	1.03	26.16	.60	15.2
II769SB-0602	II769BB-0602	3/8	9.52	R-1/8	.19	4.82	5/8	15.87	.91	23.11	1.20	30.48	.82	20.83	.66	16.8
II769SB-0604	II769BB-0604	3/8	9.52	R-1/4	.28	7.11	5/8	15.87	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
II769SB-0606	II769BB-0606	3/8	9.52	R-3/8	.28	7.11	13/16	20.63	.94	23.87	1.23	31.24	1.03	26.16	.66	16.8
II769SB-0608	II769BB-0608	3/8	9.52	R-1/2	.28	7.11	15/16	23.81	1.02	25.90	1.31	33.28	1.30	33.02	.66	16.8
II769SB-0804	II769BB-0804	1/2	12.7	R-1/4	.28	7.11	13/16	20.63	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
II769SB-0806	II769BB-0806	1/2	12.7	R-3/8	.38	9.65	13/16	20.63	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
II769SB-0808	II769BB-0808	1/2	12.7	R-1/2	.41	10.41	15/16	23.81	1.02	25.9	1.42	36.07	1.30	33.02	.90	22.9
II769SB-0812	II769BB-0812	1/2	12.7	R-3/4	.41	10.41	1.1/8	28.60	1.17	29.71	1.57	39.88	1.45	36.83	.90	22.9
II769SB-1008	II769BB-1008	5/8	15.87	R-1/2	.47	11.90	15/16	23.81	1.10	27.94	1.50	38.10	1.38	35.05	.96	24.4
II769SB-1208	II769BB-1208	3/4	19.05	R-1/2	.47	11.90	1.1/8	28.60	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
II769SB-1212	II769BB-1212	3/4	19.05	R-3/4	.62	15.74	1.1/8	28.60	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
II769SB-1612 †	II769BB-1612	1	25.40	R-3/4	0.61	15.70	1.3/8	34.92	1.45	36.83	1.93	49.02	1.64	41.66	1.23	31.2
II769SB-1616	II769BB-1616	1	25.40	R-1	.88	22.35	1.3/8	34.92	1.45	36.83	1.93	49.02	1.83	46.48	1.23	31.2
II769SB-2020	II769BB-2020 †	1.1/4	31.75	R-1.1/4	1.09	27.70	1.11/16	42.9	1.75	44.45	2.62	66.55	1.88	47.75	1.62	41.2

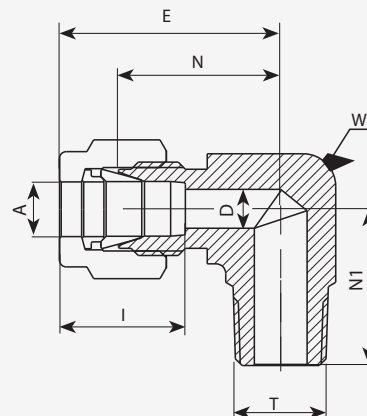
† Indent item, available on request

LET-LOK

TUBE TO MALE PIPE

LET-LOK® (IMPERIAL)

MALE ELBOW (NPT) 769*N



Product Code Stainless Steel	Product Code Brass	769*N Male Elbow - Connects Tube (inch) to Male NPT Thread														
		A Tube O.D.		T (NPT)	D		W Width Across Hex		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II769SN-0202	II769BN-0202	1/8	3.17	1/8	.09	2.28	7/16	11.11	.67	17.02	.93	23.62	.70	17.28	.50	12.7
II769SN-0204	II769BN-0204	1/8	3.17	1/4	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.37	.50	12.7
II769SN-0402	II769BN-0402	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
II769SN-0404	II769BN-0404	1/4	6.35	1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
II769SN-0406	II769BN-0406	1/4	6.35	3/8	.19	4.82	13/16	20.63	.88	22.35	1.17	29.71	1.03	26.16	.60	15.2
II769SN-0502	II769BN-0502	5/16	7.93	1/8	.19	4.82	5/8	15.87	.84	21.34	1.13	28.70	.78	45.21	.64	16.2
II769SN-0504	II769BN-0504	5/16	7.93	1/4	.25	6.35	5/8	15.87	.84	21.34	1.13	28.70	.96	49.78	.64	16.2
II769SN-0604	II769BN-0604	3/8	9.52	1/4	.28	7.11	5/8	15.87	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
II769SN-0606	II769BN-0606	3/8	9.52	3/8	.28	7.11	13/16	20.63	.94	23.87	1.23	31.24	1.03	26.16	.66	16.8
II769SN-0608	II769BN-0608	3/8	9.52	1/2	.28	7.11	15/16	23.81	1.02	25.90	1.31	33.28	1.30	33.02	.66	16.8
II769SN-0804	II769BN-0804	1/2	12.7	1/4	.28	7.11	13/16	20.63	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
II769SN-0808	II769BN-0808	1/2	12.7	1/2	.41	10.41	15/16	23.81	1.02	25.9	1.42	36.07	1.30	33.02	.90	22.9
II769SN-1008	II769BN-1008	5/8	15.87	1/2	.47	11.94	15/16	23.81	1.10	27.94	1.50	38.10	1.38	35.05	.96	24.4
II769SN-1212	II769BN-1212	3/4	19.05	3/4	.62	15.74	1.1/8	28.60	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
II769SN-1616	II769BN-1616	1	25.40	1	.88	22.35	1.3/8	34.92	1.45	36.83	1.93	49.02	1.83	46.48	1.23	31.2

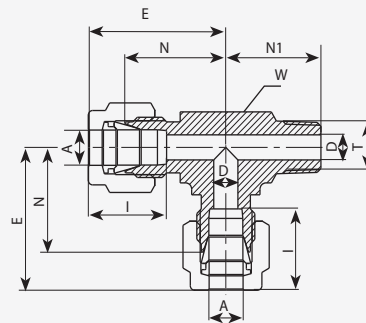
TUBE TO MALE PIPE

LET-LOK

TUBE TO MALE PIPE

MALE RUN TEE

771



"Product Code Stainless Steel"	"Product Code Brass"	771*B Male Run Tee - Tube (inch) to Male BSPT Pipe Thread														
		"A Tube O.D"		"T (BSPT)"	D		"W Width Across Hex"		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II771SB-0404 †	II771BB-0404 †	1/4	6.35	R-1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
II771SB-0604 †	II771BB-0604	3/8	9.52	R-1/4	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
II771SB-0606 †	II771BB-0606	3/8	9.52	R-3/8	.28	7.11	13/16	20.6	1.02	25.91	1.31	33.27	1.11	28.19	.66	16.8
II771SB-0806 †	II771BB-0806 †	1/2	12.70	R-3/8	.38	9.5	13/16	20.6	1.02	25.91	1.42	36.07	1.11	28.19	.90	22.90
II771SB-0808 †	II771BB-0808 †	1/2	12.70	R-1/2	.41	10.41	13/16	20.6	1.02	25.91	1.42	36.07	1.30	33.00	.90	22.9
II771SB-1212 †	II771BB-1212	3/4	19.05	R-3/4	.62	15.74	1.1/8	28.6	1.17	29.72	1.57	39.88	1.45	36.83	.96	24.4

† Indent item, available on request

"Product Code Stainless Steel"	"Product Code Brass"	771*N Male Run Tee - Tube (inch) to Male NPT Pipe Thread														
		"A Tube O.D"		"T (NPT)"	D		"W Width Across Hex"		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II771SN-0202 †	II771BN-0202 †	1/8	3.17	1/8	.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
II771SN-0204 †	II771BN-0204 †	1/8	3.17	1/4	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.40	.50	12.7
II771SN-0302 †	II771BN-0302 †	3/16	4.76	1/8	.12	3.05	7/16	11.1	.70	17.78	.96	24.38	.70	17.78	.54	13.7
II771SN-0402 †	II771BN-0402 †	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.8	.60	15.2
II771SN-0404	II771BN-0404 †	1/4	6.35	1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
II771SN-0502 †	II771BN-0502 †	5/16	7.93	1/8	.19	4.82	5/8	15.9	.88	22.35	1.17	29.71	.82	20.83	.64	16.2
II771SN-0604	II771BN-0604 †	3/8	9.52	1/4	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
II771SN-0606	II771BN-0606 †	3/8	9.52	3/8	.28	7.11	13/16	20.6	1.02	25.91	1.31	33.27	1.11	28.19	.66	16.8
II771SN-0806	II771BN-0806 †	1/2	12.70	3/8	.38	9.5	13/16	20.6	1.02	25.91	1.42	36.07	1.11	28.19	.90	22.90
II771SN-0808	II771BN-0808 †	1/2	12.70	1/2	.41	10.41	13/16	20.6	1.02	25.91	1.42	36.07	1.30	33.00	.90	22.9
II771SN-1008 †	II771BN-1008 †	5/8	15.87	1/2	.47	11.94	15/16	23.8	1.10	27.94	1.50	38.1	1.38	35.05	.96	24.4
II771SN-1212	II771BN-1212 †	3/4	19.05	3/4	.62	15.74	1.1/8	28.6	1.17	29.72	1.57	39.88	1.45	36.83	.96	24.4

† Indent item, available on request

LET-LOK
TUBE TO MALE PIPE

MALE BRANCH TEE
772

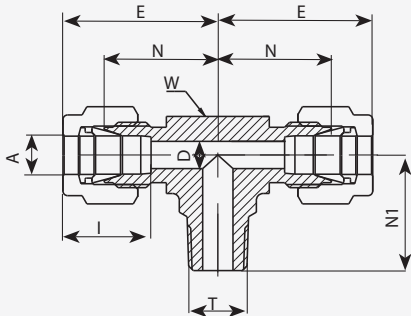
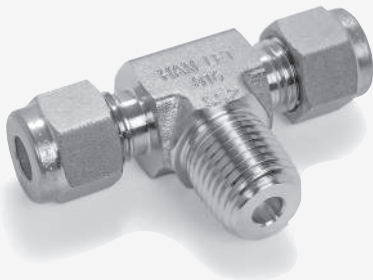


Table with 10 columns: Product Code Stainless Steel, Product Code Brass, 772*B Male Branch Tee - Tube (inch) to Male BSPT Pipe Thread, A Tube O.D., T (BSPT), D, W Width Across Hex, N, E, N1, I. Rows include various sizes like II772SB-0404, II772BB-0404, etc.

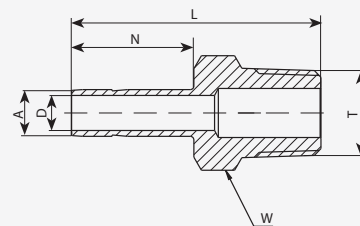
Table with 10 columns: Product Code Stainless Steel, Product Code Brass, 772*N Male Branch Tee - Tube (inch) to Male NPT Pipe Thread, A Tube O.D., T (NPT), D, W Width Across Hex, N, E, N1, I. Rows include various sizes like II772SN-0202, II772BN-0202, etc.

† Indent item, available on request

LET-LOK

TUBE TO MALE PIPE

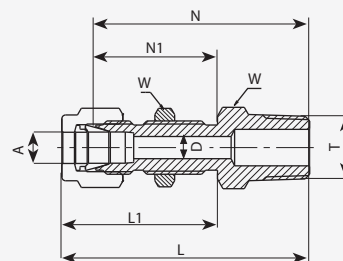
TUBE TO MALE PIPE ADAPTOR 739M



Product Code Stainless Steel		739M Male Adaptor - Tube (inch) to Male Pipe NPT or BSPT Thread											
NPT	BSPT	A Tube O.D.		T (NPT) (BSPT)	D		W Width Across Hex		N		L		
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	
II739MSN-0404	II739MSB-0404+	1/4	6.35	1/4	.19	4.83	9/16	14.28	.62	15.74	1.46	37.08	
II739MSN-0406	II739MSB-0406+	1/4	6.35	3/8	.19	4.83	11/16	17.46	.62	15.74	1.46	37.08	
II739MSN-0408	II739MSB-0408+	1/4	6.35	1/2	.19	4.83	7/8	22.22	.62	15.74	1.71	43.43	
II739MSN-0604	II739MSB-0604+	3/8	9.52	1/4	.28	7.11	9/16	14.28	.68	17.27	1.53	38.86	
II739MSN-0606	II739MSB-0606+	3/8	9.52	3/8	.28	7.11	11/16	17.46	.68	17.27	1.56	39.62	
II739MSN-0608	II739MSB-0608+	3/8	9.52	1/2	.28	7.11	7/8	22.22	.68	17.27	1.78	45.21	
II739MSN-0804	II739MSN-0804+	1/2	12.7	1/4	.39	9.90	9/16	14.28	.90	22.86	1.75	44.45	
II739MSN-0806	II739MSB-0806+	1/2	12.7	3/8	.39	9.90	11/16	17.46	.90	22.86	1.78	45.21	
II739MSN-0808	II739MSB-0808+	1/2	12.7	1/2	.39	9.90	7/8	22.22	.90	22.86	2.00	50.8	

+ Non stocked item

BULKHEAD MALE CONNECTOR 774M

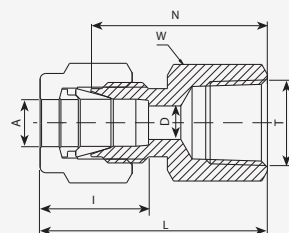


Product Code Stainless Steel		774M Bulkhead Male Connector - Connects Tube (inch) to Male NPT or BSPT Thread																		
NPT	BSPT	A Tube O.D.		T (NPT) (BSPT)	D		W Width Across Hex		N		N1		L		L1		Panel Hole Drill Size		Max. Panel Thickness	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II774MSN-0404	II774MSB-0404	1/4	6.35	1/4	.19	4.82	5/8	15.87	1.81	45.97	1.03	26.16	2.10	53.34	1.32	33.52	29/64	11.50	.40	10.16
II774MSN-0604	II774MSB-0604	3/8	9.52	1/4	.28	7.11	3/4	19.05	1.97	50.03	1.16	29.46	2.26	57.40	1.45	36.83	37/64	14.68	.44	11.17
II774MSN-0808	II774MSB-0808	1/2	12.7	1/2	.41	10.41	15/16	23.81	2.31	58.80	1.25	31.75	2.71	68.83	1.65	41.91	49/64	19.44	.50	12.70

LET-LOK

TUBE TO FEMALE PIPE

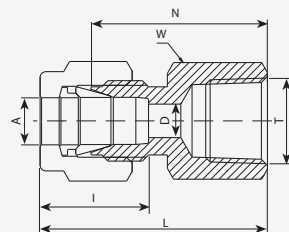
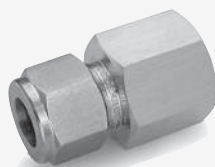
FEMALE CONNECTOR (BSPT) 766*B



Product Code Stainless Steel	Product Code Brass	766*B Female Connector - Connects Tube (inch) to Female BSPT Thread												
		A Tube O.D.		T (BSPT)	D		W Width Across Hex		N		L		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II766SB-0302	II766BB-0302	3/16	4.76	R-1/8	.12	3.04	9/16	14.28	.91	23.11	1.17	29.71	.54	13.7
II766SB-0404	II766BB-0404	1/4	6.35	R-1/4	.19	4.82	3/4	19.05	1.12	28.44	1.41	35.81	.60	15.2
II766SB-0406	II766BB-0406	1/4	6.35	R-3/8	.19	4.82	7/8	22.22	1.19	30.22	1.48	37.59	.60	15.2
II766SB-0408	II766BB-0408	1/4	6.35	R-1/2	.19	4.82	1.1/16	26.98	1.38	35.0	1.67	42.42	.60	15.2
II766SB-0604	II766BB-0604	3/8	9.52	R-1/4	.28	7.11	3/4	19.05	1.19	30.22	1.48	37.59	.66	16.8
II766SB-0606	II766BB-0606	3/8	9.52	R-3/8	.28	7.11	7/8	22.22	1.25	31.75	1.54	39.11	.66	16.8
II766SB-0608	II766BB-0608	3/8	9.52	R-1/2	.28	7.11	1.1/16	26.98	1.44	36.57	1.73	43.94	.66	16.8
II766SB-0804	II766BB-0804	1/2	12.7	R-1/4	.41	10.41	13/16	20.63	1.19	30.20	1.59	40.38	.90	22.9
II766SB-0806	II766BB-0806	1/2	12.7	R-3/8	.41	10.41	7/8	22.22	1.25	31.75	1.65	41.91	.90	22.9
II766SB-0808	II766BB-0808	1/2	12.7	R-1/2	.41	10.41	1.1/16	26.98	1.44	36.57	1.84	46.73	.90	22.9
II766SB-0812	II766BB-0812	1/2	12.7	R-3/4	.41	10.41	1.5/16	33.33	1.50	38.10	1.90	48.26	.90	22.9
II766SB-1212	II766BB-1212	3/4	19.05	R-3/4	.62	15.74	1.5/16	33.33	1.50	38.10	1.90	48.26	.86	24.4
II766SB-1616	II766BB-1616	1	25.40	R-1	.88	22.35	1.5/8	41.27	1.97	50.03	2.45	62.23	1.23	31.2
II766SB-1208 †	II766BB-1208	3/4	19.05	R-1/2	.62	15.75	1.1/16	26.98	1.44	36.57	1.84	46.73	.96	24.4

† Indent item, available on request

FEMALE CONNECTOR (NPT) 766*N

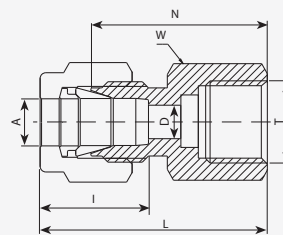


Product Code Stainless Steel	Product Code Brass	766 Female Connector - Connects Tube (inch) to Female NPT Thread												
		A Tube O.D.		T (NPT)	D		W Width Across Hex		N		L		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II766SN-0404	II766BN-0404	1/4	6.35	1/4	.19	4.82	3/4	19.05	1.12	28.44	1.41	35.81	.60	15.2
II766SN-0406	II766BN-0406	1/4	6.35	3/8	.19	4.82	7/8	22.22	1.19	30.22	1.48	37.59	.60	15.2
II766SN-0408	II766BN-0408	1/4	6.35	1/2	.19	4.82	1.1/16	26.98	1.38	35.0	1.67	42.42	.60	15.2
II766SN-0504	II766BN-0504	5/16	7.93	1/4	.25	6.35	3/4	19.05	1.16	29.46	1.45	36.83	.64	16.3
II766SN-0604	II766BN-0604	3/8	9.52	1/4	.28	7.11	3/4	19.05	1.19	30.22	1.48	37.59	.66	16.8
II766SN-0606	II766BN-0606	3/8	9.52	3/8	.28	7.11	7/8	22.22	1.25	31.75	1.54	39.11	.66	16.8
II766SN-0608	II766BN-0608	3/8	9.52	1/2	.28	7.11	1.1/16	26.98	1.44	36.57	1.73	43.94	.66	16.8
II766SN-0804	II766BN-0804	1/2	12.7	1/4	.41	10.41	13/16	20.63	1.19	30.20	1.59	40.38	.90	22.9
II766SN-0806	II766BN-0806	1/2	12.7	3/8	.41	10.41	7/8	22.22	1.25	31.75	1.65	41.91	.90	22.9
II766SN-0808	II766BN-0808	1/2	12.7	1/2	.41	10.41	1.1/16	26.98	1.44	36.57	1.84	46.73	.90	22.9
II766SN-0812	II766BN-0812	1/2	12.7	3/4	.41	10.41	1.5/16	33.33	1.50	38.10	1.90	48.26	.90	22.9
II766SN-1208	II766BN-1208	3/4	19.05	1/2	.62	15.74	1.1/16	26.98	1.44	36.57	1.84	46.73	.86	24.4
II766SN-1212	II766BN-1212	3/4	19.05	3/4	.62	15.74	1.5/16	33.33	1.50	38.10	1.90	48.26	.86	24.4
II766SN-1612	II766BN-1612	1	25.40	3/4	.88	22.35	1.3/8	34.92	1.62	41.14	2.10	53.34	1.23	31.2
II766SN-1616	II766BN-1616	1	25.40	1	.88	22.35	1.5/8	41.27	1.97	50.03	2.45	62.23	1.23	31.2

LET-LOK

TUBE TO FEMALE PIPE

FEMALE CONNECTOR (BSPP) 766*P



Product Code Stainless Steel	766*P Female Connector - Connects Tube (inch) to Female BSPP Thread												
	A Tube O.D.		T (BSPP)	D		W Width Across Hex		N		L		I	
	ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II766SP-0404	1/4	6.35	G-1/4	-	4.82	3/4	19.05	-	30.20	-	37.60	-	15.3
II766SP-0604	3/8	9.52	G-1/4	-	5.50	3/4	19.05	-	31.80	-	39.40	-	17.2
II766SP-0606	3/8	9.52	G-3/8	-	6.50	15/16	24.00	-	31.20	-	38.80	-	17.2
II766SP-0804	1/2	12.7	G-1/4	-	5.50	13/16	22.00	-	31.80	-	41.90	-	22.8
II766SP-0806	1/2	12.7	G-3/8	-	6.50	15/16	24.00	-	34.30	-	44.40	-	22.8
II766SP-0808	1/2	12.7	G-1/2	-	7.0	-	27.00	-	38.10	-	48.20	-	22.8

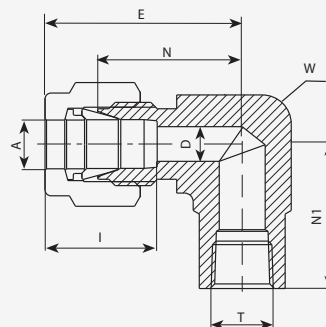
For thread specifications, refer page L 16

LET-LOK

TUBE TO FEMALE PIPE

FEMALE ELBOW

770



"Product Code Stainless Steel"	"Product Code Brass"	770*B Female Elbow - Tube (inch) to Female BSPT Pipe Thread														
		"A Tube O.D"		"T (BSPT)"	D		"W Width Across Hex"		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II770SB-0404	II770BB-0404 †	1/4	6.35	R-1/4	.19	4.82	11/16	17.5	.88	22.40	1.17	29.72	.88	22.40	.60	15.2
II770SB-0604	II770BB-0604	3/8	9.52	R-1/4	.28	7.11	11/16	17.5	0.94	23.87	1.23	31.24	.88	22.40	.66	16.8
II770SB-0606	II770BB-0606	3/8	9.52	R-3/8	.28	7.11	15/16	23.8	1.02	25.90	1.31	33.27	.88	22.40	.66	16.8
II770SB-0806	II770BB-0806 †	1/2	12.70	R-3/8	.41	10.41	15/16	23.8	1.02	25.90	1.42	36.07	.88	22.40	.90	22.9
II770SB-0808	II770BB-0808 †	1/2	12.70	R-1/2	.41	10.41	1.1/16	27.0	1.13	28.70	1.53	36.86	1.12	28.45	.90	22.9
II770SB-1006	II770BB-1006 †	5/8	15.87	R-3/8	.50	12.70	15/16	23.8	1.10	27.90	1.50	38.10	.88	22.40	.96	24.4
II770SB-1212 †	II770BB-1212	3/4	19.05	R-3/4	.62	15.74	1.3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	.96	24.4

† Indent item, available on request

"Product Code Stainless Steel"	"Product Code Brass"	770*N Female Elbow - Tube (inch) to Female NPT Pipe Thread															
		"A Tube O.D"		"T (NPT)"	D		"W Width Across Hex"		N		E		N1		I		
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	
II770SN-0202 †	II770BN-0202 †	1/8	3.17	1/8	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.75	19.05	.50	12.7	
II770SN-0204 †	II770BN-0204 †	1/8	3.17	1/4	.09	2.28	11/16	17.5	.82	20.80	1.08	27.43	.88	22.40	.50	12.7	
II770SN-0302 †	II770BN-0302 †	3/16	4.76	1/8	.12	3.04	1/2	12.7	.74	18.80	1.00	25.40	.75	19.05	.54	13.7	
II770SN-0402 †	II770BN-0402 †	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.55	1.06	26.92	.75	19.05	.60	15.2	
II770SN-0404	II770BN-0404	1/4	6.35	1/4	.19	4.82	11/16	17.5	.88	22.40	1.17	29.72	.88	22.40	.60	15.2	
II770SN-0406	II770BN-0406 †	1/4	6.35	3/8	.19	4.82	15/16	23.8	.96	24.38	1.25	31.75	.88	22.40	.60	15.2	
II770SN-0408 †	II770BN-0408 †	1/4	6.35	1/2	.19	4.82	1.1/16	27.0	1.07	27.18	1.36	34.54	1.12	28.45	.60	15.2	
II770SN-0502 †	II770BN-0502 †	5/16	7.93	1/8	.25	6.35	9/16	14.3	.84	21.30	1.13	28.70	.75	19.05	.64	16.2	
II770SN-0504 †	II770BN-0504 †	5/16	7.93	1/4	.25	6.35	11/16	17.5	.91	23.11	1.20	30.48	.88	22.40	.64	16.2	
II770SN-0602 †	II770BN-0602 †	3/8	9.52	1/8	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	.75	19.05	.66	16.8	
II770SN-0604	II770BN-0604 †	3/8	9.52	1/4	.28	7.11	11/16	17.5	0.94	23.87	1.23	31.24	.88	22.40	.66	16.8	
II770SN-0606	II770BN-0606 †	3/8	9.52	3/8	.28	7.11	15/16	23.8	1.02	25.90	1.31	33.27	.88	22.40	.66	16.8	
II770SN-0608	II770BN-0608 †	3/8	9.52	1/2	.28	7.11	1.1/16	27.0	1.13	28.70	1.42	36.07	1.12	28.45	.66	16.8	
II770SN-0804	II770BN-0804 †	1/2	12.70	1/4	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	.88	22.40	.90	22.9	
II770SN-0806	II770BN-0806 †	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.90	1.42	36.07	.88	22.40	.90	22.9	
II770SN-0808	II770BN-0808	1/2	12.70	1/2	.41	10.41	1.1/16	27.0	1.13	28.70	1.53	36.86	1.12	28.45	.90	22.9	
II770SN-1006 †	II770BN-1006 †	5/8	15.87	3/8	.50	12.70	15/16	23.8	1.10	27.90	1.50	38.10	.88	22.40	.96	24.4	
II770SN-1008 †	II770BN-1008 †	5/8	15.87	1/2	.50	12.70	1.1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	.96	24.4	
II770SN-1208 †	II770BN-1208 †	3/4	19.05	1/2	.62	15.74	1.1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	.96	24.4	
II770SN-1212	II770BN-1212 †	3/4	19.05	3/4	.62	15.74	1.3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	.96	24.4	

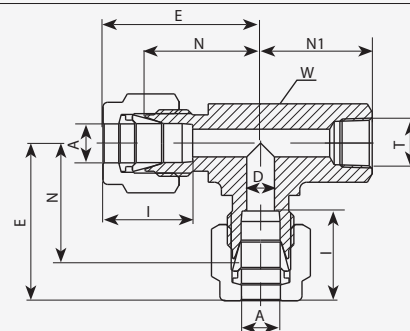
† Indent item, available on request

LET-LOK

TUBE TO FEMALE PIPE

FEMALE RUN TEE

771F



"Product Code Stainless Steel"	"Product Code Brass"	771F*B Female Run Tee - Tube (inch) to Female BSPT Pipe Thread														
		"A Tube O.D"		"T (BSPT)"	D		"W Width Across Hex"		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II771FSB-0404 †	II771FBB-0404 †	1/4	6.35	R-1/4	.19	4.82	13/16	20.6	.88	22.35	1.17	29.71	.88	22.35	.60	15.2
II771FSB-0606 †	II771FBB-0606	3/8	9.52	R-3/8	.28	7.11	15/16	23.8	1.02	25.91	1.31	33.27	.88	22.40	.66	16.8
II771FSB-0808 †	II771FBB-0808 †	1/2	12.70	R-1/2	.41	10.41	1.1/8	28.6	1.17	29.72	1.57	39.88	1.12	28.45	.90	22.9
II771FSB-1212 †	II771FBB-1212 †	3/4	19.05	R-3/4	.62	15.74	1.3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	.96	24.4

† Indent item, available on request

"Product Code Stainless Steel"	"Product Code Brass"	771F*N Female Run Tee - Tube (inch) to Female NPT Pipe Thread														
		"A Tube O.D"		"T (NPT)"	D		"W Width Across Hex"		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II771FSN-0202 †	II771FBN-0202 †	1/8	3.17	1/8	.09	2.28	5/8	15.9	.71	18.00	.97	24.63	.75	19.05	.50	12.7
II771FSN-0402 †	II771FBN-0402 †	1/4	6.35	1/8	.19	4.82	5/8	15.9	.77	19.55	1.06	26.92	.75	19.05	.60	15.2
II771FSN-0404	II771FBN-0404 †	1/4	6.35	1/4	.19	4.82	13/16	20.6	.88	22.35	1.17	29.71	.88	22.35	.60	15.2
II771FSN-0604 †	II771FBN-0604 †	3/8	9.52	1/4	.28	7.11	13/16	20.6	.94	23.87	1.23	31.24	.88	22.35	.66	16.8
II771FSN-0606	II771FBN-0606 †	3/8	9.52	3/8	.28	7.11	15/16	23.8	1.02	25.91	1.31	33.27	.88	22.40	.66	16.8
II771FSN-0806 †	II771FBN-0806 †	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.9	1.42	36.07	.88	22.35	.90	22.9
II771FSN-0808	II771FBN-0808 †	1/2	12.70	1/2	.41	10.41	1.1/8	28.6	1.17	29.72	1.57	39.88	1.12	28.45	.90	22.9
II771FSN-1212 †	II771FBN-1212 †	3/4	19.05	3/4	.62	15.74	1.3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	.96	24.4
II771FSN-1612 †	II771FBN-1612 †	1	25.4	3/4	.88	22.35	1.3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
II771FSN-1616 †	II771FBN-1616 †	1	25.4	1	.88	22.35	1.11/16	42.9	1.63	41.40	2.11	53.59	1.50	38.10	1.23	31.2

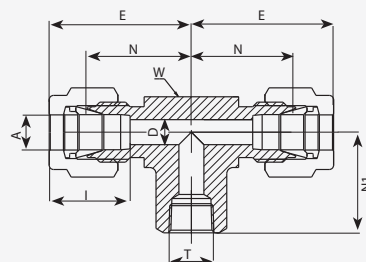
† Indent item, available on request

LET-LOK

TUBE TO FEMALE PIPE

FEMALE BRANCH TEE

772F



"Product Code Stainless Steel"	"Product Code Brass"	772F*B Female Branch Tee - Tube (inch) to Female BSPT Pipe Thread														
		"A Tube O.D"		"T (BSPT)"	D		"W Width Across Hex"		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II772FSB-0404 †	II772FBB-0404 †	1/4	6.35	R-1/4	.19	4.82	13/16	20.6	.88	22.35	1.17	29.71	.88	22.35	.60	15.2
II772FSB-0604 †	II772FBB-0604	3/8	9.52	R-1/4	.28	7.11	13/16	20.6	.94	23.88	1.23	31.24	.88	22.35	.66	16.8
II772FSB-0606 †	II772FBB-0606 †	3/8	9.52	R-3/8	.28	7.11	15/16	23.8	1.02	25.91	1.31	33.27	.88	22.35	.66	16.8
II772FSB-0808 †	II772FBB-0808 †	1/2	12.70	R-1/2	.41	10.41	1 1/8	28.6	1.13	28.70	1.53	38.86	1.12	28.45	.90	22.9
II772FSB-1008	II772FBB-1008 †	5/8	15.87	R-1/2	.50	12.7	1 1/8	28.6	1.13	28.70	1.53	38.86	1.12	28.44	.96	24.4
II772FSB-1212 †	II772FBB-1212 †	3/4	19.05	R-3/4	.62	15.74	1 3/8	34.9	1.36	34.50	1.76	44.70	1.25	31.75	.96	24.4
II772FSB-1612 †	II772FBB-1612	1	25.4	R-3/4	.88	22.35	1 3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
II772FSB-1616 †	II772FBB-1616 †	1	25.4	R-1	.88	22.35	1 11/16	42.9	1.63	41.40	2.11	53.60	1.50	38.10	1.23	31.2

† Indent item, available on request

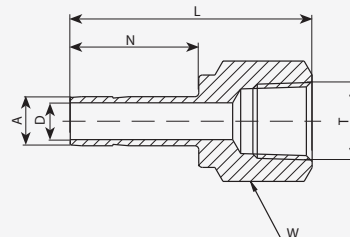
"Product Code Stainless Steel"	"Product Code Brass"	772F*N Female Branch Tee - Tube (inch) to Female NPT Pipe Thread														
		"A Tube O.D"		"T (NPT)"	D		"W Width Across Hex"		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II772FSN-0202 †	II772FBN-0202 †	1/8	3.17	1/8	.09	2.28	5/8	15.9	.70	18.00	.97	24.63	.75	19.05	.50	12.7
II772FSN-0402 †	II772FBN-0402 †	1/4	6.35	1/8	.19	4.82	5/8	15.9	.77	19.56	1.06	26.92	.75	19.05	.60	15.2
II772FSN-0404	II772FBN-0404 †	1/4	6.35	1/4	.19	4.82	13/16	20.6	.88	22.35	1.17	29.71	.88	22.35	.60	15.2
II772FSN-0604	II772FBN-0604 †	3/8	9.52	1/4	.28	7.11	13/16	20.6	.94	23.88	1.23	31.24	.88	22.35	.66	16.8
II772FSN-0606 †	II772FBN-0606 †	3/8	9.52	3/8	.28	7.11	15/16	23.8	1.02	25.91	1.31	33.27	.88	22.35	.66	16.8
II772FSN-0608 †	II772FBN-0608 †	3/8	9.52	1/2	.28	7.11	1 1/8	28.6	1.13	28.70	1.42	36.07	1.12	28.45	.66	16.8
II772FSN-0804	II772FBN-0804 †	1/2	12.70	1/4	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	.88	22.35	.90	22.9
II772FSN-0806 †	II772FBN-0806 †	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.9	1.42	36.07	.88	22.35	.90	22.9
II772FSN-0808	II772FBN-0808	1/2	12.70	1/2	.41	10.41	1 1/8	28.6	1.13	28.70	1.53	38.86	1.12	28.45	.90	22.9
II772FSN-1008 †	II772FBN-1008 †	5/8	15.87	1/2	.50	12.70	1 1/8	28.6	1.13	28.70	1.53	38.86	1.12	28.44	.96	24.4
II772FSN-1212	II772FBN-1212 †	3/4	19.05	3/4	.62	15.74	1 3/8	34.9	1.36	34.50	1.76	44.70	1.25	31.75	.96	24.4
II772FSN-1612	II772FBN-1612 †	1	25.4	3/4	.88	22.35	1 3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
II772FSN-1616 †	II772FBN-1616 †	1	25.4	1	.88	22.35	1 11/16	42.9	1.63	41.40	2.11	53.60	1.50	38.10	1.23	31.2

† Indent item, available on request

LET-LOK

TUBE TO FEMALE PIPE

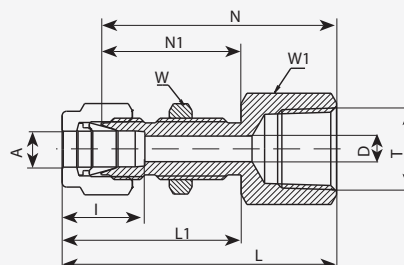
TUBE TO FEMALE PIPE ADAPTOR 739F



Product Code Stainless Steel		739F Female Pipe Adaptor - Connects Tube (inch) to Female Pipe NPT or BSPT Thread										
		A Tube O.D.		T (NPT) (BSPT)	D		W Width Across Hex		N		L	
NPT	BSPT	ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm
II739FSN-0402	II739FSB-0402	1/4	6.35	1/8								
II739FSN-0404	II739FSB-0404	1/4	6.35	1/4	.198	4.83	3/4	19.05	.62	15.74	1.46	37.08
II739FSN-0406	II739FSB-0406	1/4	6.35	3/8	.19	4.83	7/8	22.22	.62	15.74	1.55	39.37
II739FSN-0408	II739FSB-0408	1/4	6.35	1/2	.19	4.83	1.1/16	26.98	.62	15.74	1.79	45.46
II739FSN-0604	II739FSB-0604	3/8	9.52	1/4	.28	7.11	3/4	19.05	.68	17.27	1.50	38.10
II739FSN-0606	II739FSB-0606	3/8	9.52	3/8	.28	7.11	7/8	22.22	.68	17.27	1.59	40.40
II739FSN-0608	II739FSB-0608	3/8	9.52	1/2	.28	7.11	1.1/16	26.98	.68	17.27	1.84	46.73
II739FSN-0804	II739FSB-0804	1/2	12.7	1/4	.39	9.90	3/4	19.05	.90	22.86	1.71	43.43
II739FSN-0806	II739FSB-0806	1/2	12.7	3/8	.39	9.90	7/8	22.20	.90	22.86	1.79	45.47
II739FSN-0808	II739FSB-0808	1/2	12.7	1/2	.39	9.90	1.1/16	26.98	.90	22.86	2.04	51.82

Note: This range of fittings is typically stocked as NPT. Refer to Pirtek for availability of BSPT fittings.

BULKHEAD FEMALE CONNECTOR 774F



Product Code Stainless Steel	774F Bulkhead Female Connector - Tube (inch) to Female NPT Thread																							
	A Tube O.D.		T (NPT)	D		W Width Across Hex		W Width Across Hex		N		N1		L		L1		I		Panel Hole Drill Size		Max. Panel Thickness		
	ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	
II774FSN-0404	1/4	6.35	1/4	.19	4.82	3/4	19.05	5/8	15.87	1.75	44.45	1.03	26.16	2.04	51.81	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16	
II774FSN-0606	3/8	9.52	3/8	.41	10.41	15/16	23.81	15/16	23.81	2.03	51.56	1.25	31.75	2.43	61.72	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70	
II774FSN-0808	1/2	12.7	1/2	.41	10.41	1.1/16	26.98	15/16	23.81	2.22	56.38	1.25	31.75	2.62	66.54	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70	

Product Code Stainless Steel	774F Bulkhead Female Connector - Tube (inch) to Female BSPT Thread																						
	A Tube O.D.		T (BSPT)	D		W Width Across Hex		W Width Across Hex		N		N1		L		L1		I		Panel Hole Drill Size		Max. Panel Thickness	
	ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II774FSB-0404	1/4	6.35	1/4	.19	4.82	3/4	19.05	5/8	15.87	1.75	44.45	1.03	26.16	2.04	51.81	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16
II774FSB-0606	3/8	9.52	3/8	.41	10.41	15/16	23.81	15/16	23.81	2.03	51.56	1.25	31.75	2.43	61.72	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70
II774FSB-0808	1/2	12.7	1/2	.41	10.41	1.1/16	26.98	15/16	23.81	2.22	56.38	1.25	31.75	2.62	66.54	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70

Note: This range of fittings is typically stocked as NPT. Refer to Pirtek for availability of BSPT fittings in stainless steel or brass (Brass fittings use Product Code II774FBB).

LET-LOK

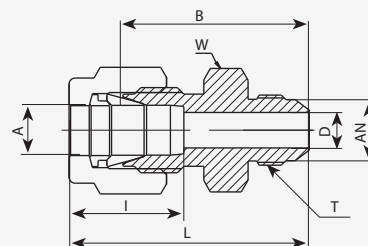
TUBE TO JIC / AN FLARE

LET-LOK® (IMPERIAL)

TUBE TO JIC / AN FLARE

LET-LOK TO JIC / AN MALE FLARE ADAPTOR

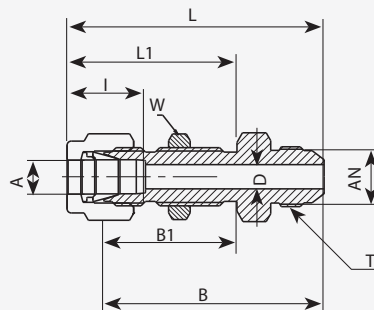
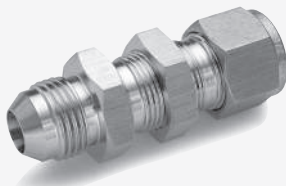
762FL



Product Code Stainless Steel	762FL Let-Lok to AN / JIC Union - Tube (inch) to Tube (inch)														
	A Tube O.D.		AN Tube Flare Size		T Thread	D		W Width Across Hex		B		L		I	
	ins	mm	ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II762FLSJ-0404	1/4	6.35	1/4	6.35	7/16 - 20	.17	4.31	1/2	12.70	1.19	30.22	1.48	37.59	.70	17.78
II762FLSJ-0606	3/8	9.52	3/8	9.52	9/16 - 18	.28	7.11	5/8	15.87	1.27	32.35	1.56	39.62	.76	19.3
II762FLSJ-0808	1/2	12.70	1/2	12.70	3/4 - 16	.39	9.90	13/16	20.63	1.41	35.80	1.80	45.72	.86	21.84
II762FLSJ-1212	3/4	19.05	3/4	19.05	1.1/16 - 12	.61	15.49	1.1/8	28.57	1.70	43.18	2.10	53.34	.86	21.84
II762FLSJ-1616	1	25.40	1	25.40	1.5/16 - 12	.84	21.34	1.3/8	34.92	1.94	49.28	2.42	61.47	1.04	26.42

LET-LOK TO JIC / AN MALE FLARE BULKHEAD

774FL

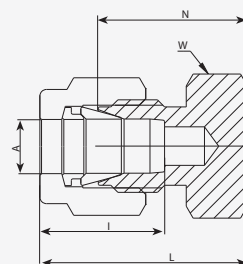


Product Code Stainless Steel	774FL Let-Lok to AN / JIC Male Flare Bulkhead - Tube (inch) to Tube (inch)																						
	A Tube O.D.		AN Tube Flare Size		T Thread	D		W Width Across Hex		B		B1		L		L1		Panel Hole Drill Size		Max. Panel Thickness		I	
	ins	mm	ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II774FLSJ-0404	1/4	6.35	1/4	6.35	7/16-20	.19	4.82	5/8	15.87	1.83	46.48	1.03	26.16	2.12	53.84	1.32	33.52	29/64	11.50	11.50	10.16	.60	15.2
II774FLSJ-0606	3/8	9.52	3/8	9.52	9/16-18	.28	7.11	3/4	19.05	1.96	49.78	1.16	29.46	2.25	57.15	1.45	36.83	37/64	14.68	14.68	11.17	.66	16.8
II774FLSJ-0808	1/2	12.70	1/2	12.70	3/4-16	.39	9.90	15/16	23.81	2.19	55.63	1.25	31.75	2.59	65.79	1.65	41.91	49/64	19.45	19.45	12.70	.90	22.9

LET-LOK

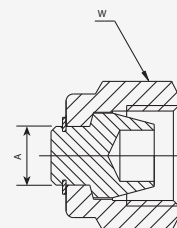
CAPS AND PLUGS

CAP 7108



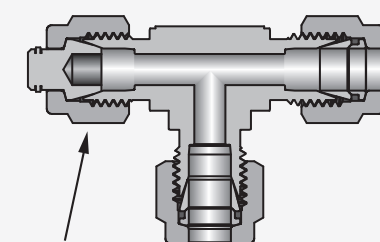
Product Code Stainless Steel	Product Code Brass	7108 Cap - Capping End of Tube (inch)									
		A Tube O.D.		W Width Across Hex.		N		L		I	
		ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II7108S-02	II7108B-02	1/8	3.17	7/16	11.11	.53	13.46	.79	20.06	.50	12.7
II7108S-04	II7108B-04	1/4	6.35	1/2	12.70	.62	15.74	.91	23.11	.60	15.2
II7108S-06	II7108B-06	3/8	9.52	5/8	15.87	.72	18.28	1.01	26.65	.66	16.2
II7108S-08	II7108B-08	1/2	12.70	13/16	20.63	.75	19.05	1.15	29.21	.90	16.8
II7108S-12	II7108B-12	3/4	19.05	1.1/16	26.98	.84	21.33	1.24	31.49	.96	24.4
II7108S-16	II7108B-16	1	25.40	1.3/8	34.92	1.03	26.16	1.51	38.35	1.23	31.2

PLUG 7121



Product Code Stainless Steel	Product Code Brass	7121 Plug - Plugging Unused Port of Fitting (inch)									
		A Tube O.D.		W Width Across Hex.							
		ins	mm	ins	mm						
II7121S-02	II7121B-02	1/8	3.17	7/16	11.11						
II7121S-04	II7121B-04	1/4	6.35	9/16	14.28						
II7121S-06	II7121B-06	3/8	9.52	11/16	17.46						
II7121S-08	II7121B-08	1/2	12.70	7/8	22.22						
II7121S-12	II7121B-12	3/4	19.05	1.1/8	28.57						
II7121S-16	II7121B-16	1	25.40	1.1/2	38.10						

PLUG ASSEMBLY INSTRUCTIONS



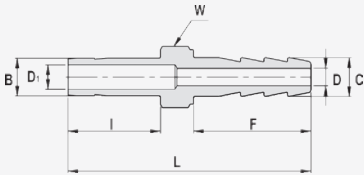
1/4 TURN (90°)
ONLY

LET-LOK

TUBE TO HOSE CONNECTOR

TUBE TO HOSE CONNECTOR

130LT



Product Code Stainless Steel	130LT Tube Stub to Hose Connector																	
	Hose I.D.		A Tube O.D.		C		D		D1		F		I		L		W Hex Flat	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II130LTS-0204	1/8	3.18	1/4	6.35	.15	3.80	.08	2.00	.19	4.80	.40	10.2	.62	15.7	1.44	36.6	3/8	9.53
II130LTS-0404	1/4	6.35	1/4	6.35	.30	7.62	.19	4.80	.19	4.80	.79	20.1	.62	15.7	1.83	46.5	7/16	11.11
II130LTS-0606	3/8	9.53	3/8	9.52	.45	11.43	.30	7.60	.28	7.10	.87	22.1	.69	17.5	1.98	50.3	9/16	14.29
II130LTS-0808	1/2	12.7	1/2	12.7	.60	15.24	.38	9.70	.39	9.90	.94	23.9	.91	23.1	2.27	57.7	11/16	17.46

LET-LOK

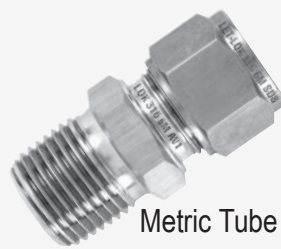
TWIN FERRULE TUBE COMPRESSION FITTINGS

PRODUCT CODE EXAMPLE

II	768	S = Stainless Steel B = Brass T = Teflon	None = Tube all ends N = NPT Thread B = BSPT Thread P = BSPP Thread J = JIC / AN Thread	M6	04
Signifies Industrial Instrumentation	Fitting Type (Male Connector)	Material	End Connection	Tube O.D. (as metric size) is always first to be described	Thread Dash Size (number of 1/16ths of an inch)

Product Codes are as listed in this Catalogue. The Codes allow easy identification of the type, configuration, and material of the fittings, as well as the applicable tube and thread sizes. Fittings are supplied fully assembled. The Tube O.D. is always referenced first, followed by the pipe size. In the event both connections are tubing, specify the largest size first. Consult the Table below for assistance.

Size Combination	Metric Tube OD	Pipe Thread or Tube OD
-M202	2	1/8
-M302	3	1/8
-M304	3	1/4
-M402	4	1/8
-M404	4	1/4
-M406	4	3/8
-M602	6	1/8
-M604	6	1/4
-M606	6	3/8
-M608	6	1/2
-M802	8	1/8
-M804	8	1/4
-M806	8	3/8
-M808	8	1/2
-M1004	10	1/4
-M1006	10	3/8
-M1008	10	1/2
-M1204	12	1/4
-M1206	12	3/8
-M1208	12	1/2
-M1212	12	3/4
-M1606	16	3/8
-M1608	16	1/2
-M1808	18	1/2
-M1812	18	3/4
-M2008	20	1/2
-M2012	20	3/4
-M2212	22	3/4
-M2216	22	1
-M2512	25	3/4
-M2516	25	1



II768SB-M604

Metric Tube to Male Stainless Steel Connector to suit 6 mm Tube and with 1/4" BSPT Thread

ABOUT LET-LOK How it Works



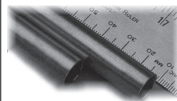
2

INSTALLATION



3

TUBE DATA



6

COMPONENTS

Nut



761

36

Ferrule Set



760

36

LET-LOK

TWIN FERRULE TUBE COMPRESSION FITTINGS

LET-LOK® (METRIC)

PICTORIAL INDEX

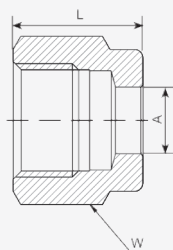
TUBE TO TUBE UNION	Straight Tube Union	Reducing Tube Union	Union Elbow	Union Tee	Reducing Union Tee
	 762 37	 763 37	 765 38	 764 38	 764R 38
TUBE STUB CONNECTOR	Tube Reducer	TUBE TO MALE PIPE	Male Connector	Male Elbow	Male Run Tee
	 767T 39		 768 40-41	 769 42	 771 43
Male Branch Tee	Tube to Male Pipe Adaptor	TUBE TO FEMALE PIPE	Female Connector	CAP AND PLUG	Cap
 772 43	 739M 44		 766 44		 7108 45
Plug	VALVES	Ball Valve Let-Lok	Ball Valve NPT	Lever Ball Valve	Needle Valve Let-Lok
 7121 45		 H6800 47	 H6810 47	 H700 48	 H300 49
Needle Valve NPT	Needle Valve High Pressure	Check Valve Let-Lok	Check Valve NPT		
 H310 49	 H99 50	 H400 51	 H410 51		

LET-LOK

COMPONENTS

NUT

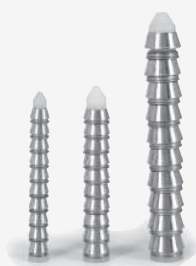
761



Product Code Stainless Steel	761 Nut (Metric)			
	A	W		L
	Tube O.D.	Wrench Flat		
	mm	ins	mm	mm
II761S-M6	6	9/16	14	12.7
II761S-M8	8	5/8	16	13.5
II761S-M10	10	3/4	19	15.1
II761S-M12	12	7/8	22	17.4

FERRULE SET

760



Product Code Stainless Steel	Tube O.D. mm	760 Ferrule (Metric) Stick Sets
II760S-M6	6	A ferrule set contains one front ferrule and one back ferrule x 10 sets housed on a single stick
II760S-M8	8	
II760S-M10	10	The stick provides a safe and easy method of storage as well as an easy and correct way to slide off a ferrule set directly onto tubing
II760S-M12	12	The risk of damage to individual ferrules is greatly reduced, and assembly errors avoided through their use
II760S-M16	16	Front and back ferrules are not available separately

LET-LOK

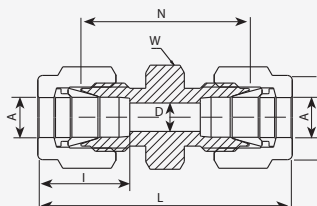
TUBE TO TUBE UNIONS

LET-LOK® (METRIC)

TUBE TO TUBE UNIONS

TUBE UNION

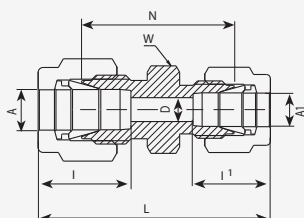
762



Product Code Stainless Steel	762 Union Tube (Metric) to Tube (Metric)											
	A Tube O.D.		D Minimum opening		W Wrench Flat		N		L		I	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II762S-M6	-	6	-	4.8	-	14	-	26.2	-	41.0	-	15.3
II762S-M8	-	8	-	6.4	-	15	-	28.2	-	43.2	-	16.2
II762S-M10	-	10	-	7.9	-	18	-	31.0	-	45.9	-	17.2
II762S-M12	-	12	-	9.5	-	22	-	31.0	-	51.2	-	22.8
II762S-M22	-	22	-	18.3	-	30	-	34.8	-	55.0	-	26.0

REDUCING TUBE UNION

763



Product Code Stainless Steel	763 Reducing Union - Tube (Metric) to Tube (Imperial)															
	A Tube O.D.		A1 Tube O.D.		D Minimum opening		W Wrench Flat		N		L		I		I1	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II763S-M1208	-	12	1/2	12.7	-	6.4	-	22	-	30.2	-	47.8	-	22.8		16.2

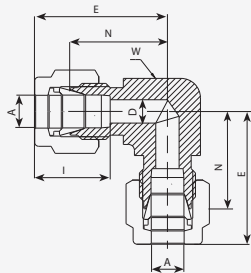
Note: This and many other combinations of this fitting are available to order on an indent basis. Please refer Pirtek

LET-LOK

TUBE TO TUBE UNIONS

UNION ELBOW

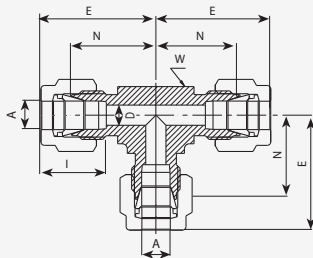
765



Product Code Stainless Steel	765 Union Elbow Tube (Metric) to Tube (Metric)											
	A Tube O.D.		D		W Wrench Flat		N		E		I	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II765S-M6	-	6	-	4.8	1/2	12.5	-	19.6	-	27.0	-	15.3
II765S-M8	-	8	-	6.4	5/8	16.0	-	21.3	-	28.8	-	16.2
II765S-M10	-	10	-	7.9	11/16	17.5	-	23.9	-	31.5	-	17.2
II765S-M12	-	12	-	9.5	13/16	20.6	-	25.9	-	36.0	-	22.8
II765S-M16	-	16	-	12.7	15/16	24.0	-	27.9	-	38.0	-	24.4

UNION TEE

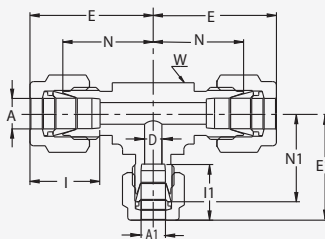
764



Product Code Stainless Steel	764 Union Tee - All Tube (Metric)											
	A Tube O.D.		D		W Wrench Flat		N		E		I	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II764S-M6	-	6	-	4.8	1/2	12.7	-	19.6	-	27.0	-	15.3
II764S-M8	-	8	-	6.4	5/8	16.0	-	22.4	-	29.9	-	16.2
II764S-M10	-	10	-	7.9	11/16	20.5	-	23.9	-	31.5	-	17.2
II764S-M12	-	12	-	9.5	13/16	20.5	-	25.9	-	36.0	-	22.8
II764S-M16	-	16	-	12.7	15/16	25.0	-	28.7	-	38.8	-	24.4

REDUCING UNION TEE

764R



Product Code Stainless Steel	764R Reducing Tee - All Tube (Metric)																			
	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D Minimum opening		W Wrench Flat		N		N1	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II764RS-M12M12M10†	-	12	-	10	-	36.1	-	33.3	-	22.9	-	16.8	-	7.1	13/16	20.6	-	25.9	-	25.9

† Note: This and many other combinations of this fitting are available to order on an indent basis. Please refer Pirtek

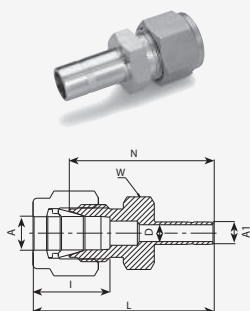
LET-LOK

TUBE STUB CONNECTORS

LET-LOK® (METRIC)

TUBE STUB CONNECTORS

REDUCER 767T

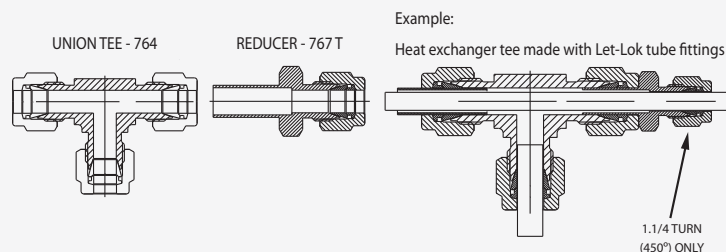


Product Code Brass	767T Reducer - Tube (Metric) to Stub (inch)													
	A		A1		D		W		N		L		I	
	Tube O.D.		Tube O.D.											
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II767TB-M606	-	6	3/8	9.53	-	4.8	-	14	-	32.5	-	39.9	-	15.3
II767TB-M1208	-	12	1/2	12.7	-	9.5	-	22	-	42.2	-	52.3	-	22.8

Product Code Brass	767T Reducer - Tube (Metric) to Stub (metric)													
	A		A1		D		W		N		L		I	
	Tube O.D.		Tube O.D.											
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II767TB-M6M12	-	6	-	12	-	4.8	-	14	-	38.9	-	46.3	-	15.3

Note: These and many other combinations of the fittings are available to order on an indent basis. Please refer Pirtek

767 T

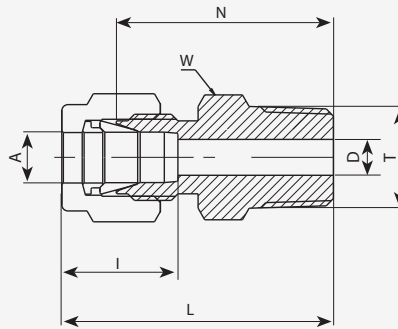
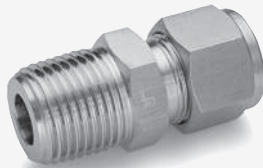


LET-LOK

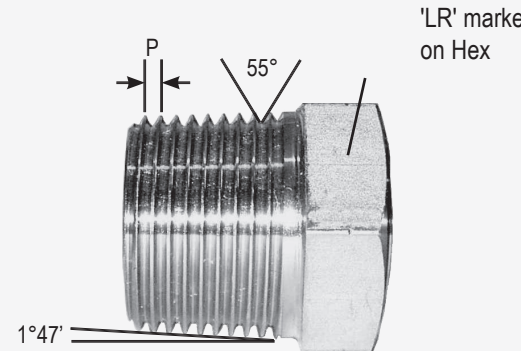
TUBE TO MALE PIPE

MALE CONNECTOR (BSPT)

768*B



Product Code Stainless Steel	Product Code Brass	768*B Male Connector - Connects Tube (Metric) to Male BSPT Thread						
		A Tube O.D.	T (BSPT)	D	W Width Across Hex	N	L	I
		mm	ins	mm	mm	mm	mm	mm
II768SB-M602	II768BB-M602	6	R-1/8	4.8	14	25.4	32.8	15.3
II768SB-M604	II768BB-M604	6	R-1/4	4.8	14	30.5	37.9	15.3
II768SB-M606	II768BB-M606	6	R-3/8	4.8	18	31.0	38.4	15.3
II768SB-M802	II768BB-M802	8	R-1/8	4.8	15	26.7	34.2	16.2
II768SB-M804	II768BB-M804	8	R-1/4	6.4	15	31.2	38.7	16.2
II768SB-M1002	II768BB-M1002	10	R-1/8	4.8	18	28.7	36.3	17.2
II768SB-M1004	II768BB-M1004	10	R-1/4	7.9	18	33.3	40.9	17.2
II768SB-M1006	II768BB-M1006	10	R-3/8	7.9	18	33.3	40.9	17.2
II768SB-M1204	II768BB-M1204	12	R-1/4	7.1	22	33.3	43.4	22.8
II768SB-M1206	II768BB-M1206	12	R-3/8	9.5	22	33.3	43.4	22.8
II768SB-M1208	II768BB-M1208	12	R-1/2	9.5	22	30.9	49.0	22.8
II768SB-M1608	II768BB-M1608	16	R-1/2	11.9	24	38.9	49.0	24.4



Reference Specifications:

DIN - ISO 2999

BS - 21

JIS - B0203

ISO - 7/1 - BSP-T

55° Thread Angle

Pitch measured in Threads Per Inch (TPI)

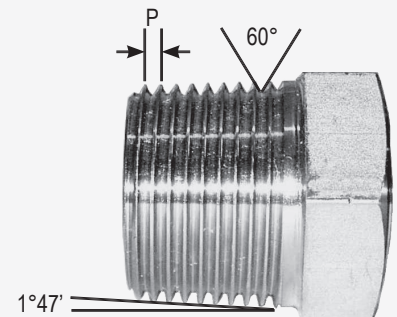
Truncation of root and crest are round

Taper angle 1° 47'

MALE CONNECTOR (NPT)

768*N

Product Code Stainless Steel		768*N Male Connector - Connects Tube (Metric) to Male NPT Thread						
		A Tube O.D.	T (NPT)	D	W Width Across Hex	N	L	I
		mm	ins	mm	mm	mm	mm	mm
II768SN-M602		6	1/8	4.8	14	25.4	32.8	15.3
II768SN-M604		6	1/4	4.8	14	30.5	37.9	15.3
II768SN-M802		8	1/8	4.8	15	26.7	34.2	16.2
II768SN-M804		8	1/4	6.4	15	31.2	38.7	16.2
II768SN-M1002		10	1/8	4.8	18	28.7	36.3	17.2
II768SN-M1004		10	1/4	7.9	18	33.3	40.9	17.2
II768SN-M1006		10	3/8	7.9	18	33.3	40.9	17.2
II768SN-M1204		12	1/4	7.1	22	33.3	43.4	22.8
II768SN-M1206		12	3/8	9.5	22	33.3	43.4	22.8
II768SN-M1208		12	1/2	9.5	22	30.9	49.0	22.8



Thread Specifications:

60° Thread Angle

Pitch measured in Threads Per Inch (TPI)

Truncation of root and crest are flat

Taper angle 1° 47'

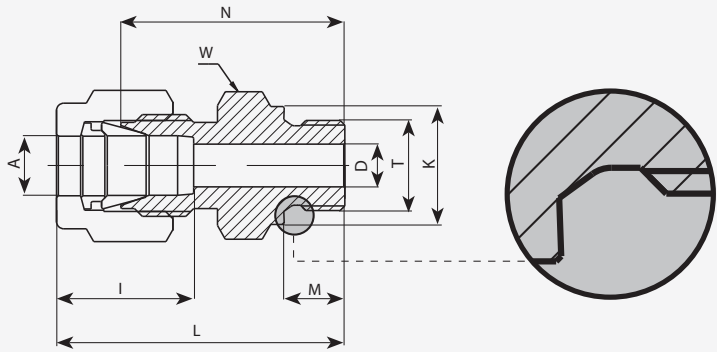
American Standard Pipe Thread (NPT)

NPT (National Pipe Tapered) is made to specifications outlined in ANSI B1.20.1

LET-LOK

TUBE TO MALE PIPE

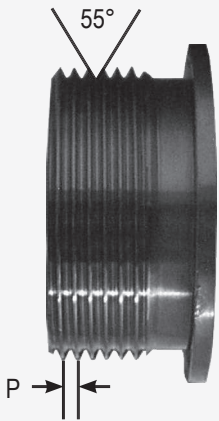
MALE CONNECTOR BSPP 768*P



Product Code Stainless Steel	768SP Male Connector - Connects Tube (Metric) to Male BSPP Thread										
	A Tube O.D.		T (BSPP)	D	K	W Width Across Hex		N	M	L	I
	ins	mm	ins	mm	mm	ins	mm	mm	mm	mm	mm
II768SP-M602	-	6	G-1/8	4.0	13.8		14.0	24.9	7.1	32.3	15.3

Notes: Many combinations of this fitting are available to order on an indent basis. Please refer Pirtek.
A Bonded Seal (Dowty Washer) is required to provide a seal.

Reference Specifications:
 DIN - ISO 228/1
 BS - 2779
 JIS - B0202
 ISO - 228/1 - BSP-P
 55° Thread Angle
 Pitch measured in Threads Per Inch (TPI)
 Truncation of root and crest are round
 Diameter measured in inches

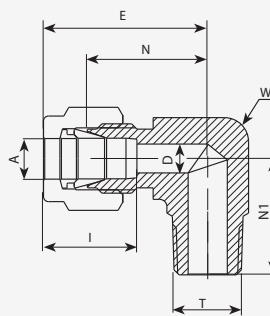


LET-LOK

TUBE TO MALE PIPE

MALE ELBOW (BSPT)

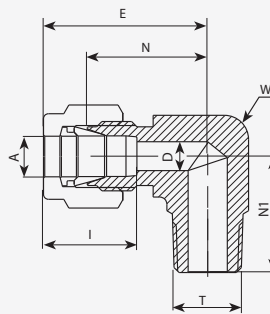
769*B



Product Code Stainless Steel	Product Code Brass	769*B Male Elbow - Connects Tube (Metric) to Male BSPT Thread														
		A Tube O.D.		T (BSPT)	D		W Width Across Hex		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II769SB-M602	II769BB-M602	-	6	R-1/8	-	4.8	1/2	12.7	-	19.6	-	27.0	-	18.8	-	15.3
II769SB-M604	II769BB-M604	-	6	R-1/4	-	4.8	1/2	12.7	-	19.6	-	27.0	-	23.4	-	15.3
II769SB-M802	II769BB-M802	-	8	R-1/8	-	4.8	5/8	15.9	-	21.3	-	28.8	-	19.8	-	16.2
II769SB-M804	II769BB-M804	-	8	R-1/4	-	6.4	5/8	16.0	-	21.3	-	28.8	-	24.4	-	16.2
II769SB-M1004	II769BB-M1004	-	10	R-1/4	-	7.1	11/16	17.5	-	23.9	-	31.5	-	26.2	-	17.2
II769SB-M1006	II769BB-M1006	-	10	R-3/8	-	7.9	13/16	17.5	-	20.6	-	31.5	-	26.2	-	17.2
II769SB-M1008	II769BB-M1008	-	10	R-3/8	-	7.9	15/16	23.8	-	25.9	-	33.5	-	33.0	-	17.2
II769SB-M1204	II769BB-M1204	-	12	R-1/4	-	7.1	13/16	20.5	-	25.9	-	36.0	-	28.2	-	22.8
II769SB-M1206	II769BB-M1208	-	12	R-1/2	-	9.5	15/16	24.0	-	25.9	-	36.0	-	33.0	-	22.8
II769SB-M1212	II769BB-M1212	-	12	R-3/4	-	9.5	1.1/8	28.6	-	29.7	-	39.8	-	36.8	-	22.8

MALE ELBOW (NPT)

769*N



Product Code Stainless Steel		769*N Male Elbow - Connects Tube (Metric) to Male NPT Thread														
		A Tube O.D.		T (NPT)	D		W Width Across Hex		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II769SN-M602		-	6	1/8	-	4.8	1/2	12.7	-	19.6	-	27.0	-	18.8	-	15.3
II769SN-M604		-	6	1/4	-	4.8	1/2	12.7	-	19.6	-	27.0	-	23.4	-	15.3
II769SN-M802		-	8	1/8	-	4.8	5/8	15.9	-	21.3	-	28.8	-	19.8	-	16.2
II769SN-M804		-	8	1/4	-	6.4	5/8	16.0	-	21.3	-	28.8	-	24.4	-	16.2
II769SN-M1002		-	10	1/8	-	4.8	11/16	17.5	-	23.9	-	31.5	-	21.6	-	17.2
II769SN-M1004		-	10	1/4	-	7.1	11/16	17.5	-	23.9	-	31.5	-	26.2	-	17.2
II769SN-M1006		-	10	3/8	-	7.9	13/16	17.5	-	20.6	-	31.5	-	26.2	-	17.2
II769SN-M1204		-	12	1/4	-	7.1	13/16	20.5	-	25.9	-	36.0	-	28.2	-	22.8
II769SN-M1206		-	12	3/8	-	9.5	13/16	20.5	-	25.9	-	36.0	-	28.2	-	22.8
II769SN-M1208		-	12	1/2	-	9.5	15/16	24.0	-	25.9	-	36.0	-	33.0	-	22.8

LET-LOK

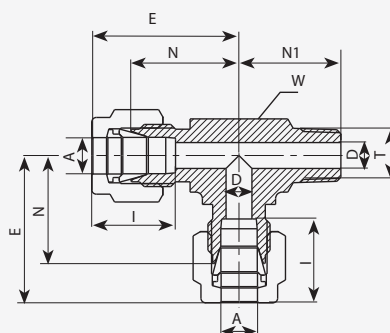
TUBE TO MALE PIPE

LET-LOK® (METRIC)

TUBE TO MALE PIPE

MALE RUN TEE (NPT)

771*N

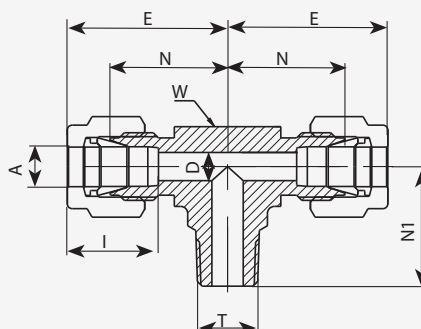
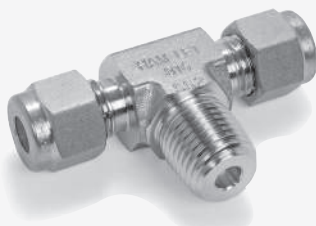


Product Code Stainless Steel	Product Code Brass	771 Male Run Tee - Connects Tube (inch) to Male NPT Thread														
		A Tube O.D.		T (NPT)	D		W Width Across Hex		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II771SN-M1208	-	1/2	12.7	1/2	.41	10.41	15/16	23.81	1.02	25.9	1.42	36.07	1.30	33.02	.90	22.9

Note: Many combinations of this fitting are available to order on an indent basis. Please refer Pirtek

MALE BRANCH TEE (NPT)

772*N



Product Code Stainless Steel	Product Code Brass	772 Male Branch Tee - Connects Tube (Metric) to Male NPT Thread														
		A Tube O.D.		T (NPT)	D		W Width Across Hex		N		E		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II772BB-M1608	-	-	16	1/2	-	11.9	15/16	24.0	-	28.7	-	38.8	-	35.8	-	24.4

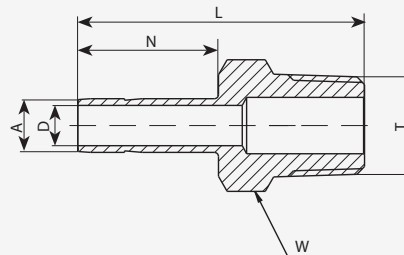
Note: Many combinations of the above fittings are available to order on an indent basis. Please refer Pirtek

LET-LOK

TUBE TO PIPE ADAPTORS

TUBE TO MALE PIPE ADAPTOR

739M

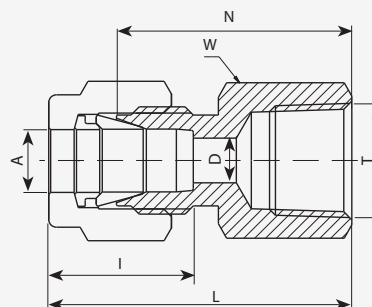
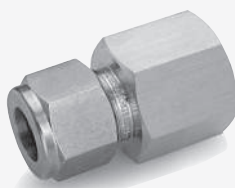


"Product Code Stainless Steel"	"Product Code Brass"	739M Male Adaptor - Tube (metric) to Male Pipe Thread														
		"A Tube O.D"		"T (BSPT)"	D		"W Width Across Hex"		N		L		N1		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II739MSB-M602 †	II739MBB-M602 †	-	6	1/8	-	4.0	-	12	-	15.7	-	32.8	.70	17.78	.50	12.7
II739MSB-M604 †	II739MBB-M604 †	-	6	1/4	-	4.0	-	14	-	15.7	-	38.1	.92	23.40	.50	12.7
II739MSB-M608 †	II739MBB-M608 †	-	6	1/2	-	4.0	-	22	-	15.7	-	43.4	.70	17.78	.54	13.7
II739MSB-M802 †	II739MBB-M802 †	-	8	1/8	-	4.8	-	12	-	16.8	-	33.5	.74	18.8	.60	15.2
II739MSB-M804 †	II739MBB-M804 †	-	8	1/4	-	5.6	-	14	-	16.8	-	39.1	.92	23.37	.60	15.2
II739MSB-M806 †	II739MBB-M806 †	-	8	3/8	-	5.6	11/16	-	-	16.8	-	37.8	.82	20.83	.64	16.2
II739MSB-M1004 †	II739MBB-M1004 †	-	10	1/4	-	7.1	-	14	-	17.5	-	39.9	1.00	25.40	.66	16.8
II739MSB-M1006 †	II739MBB-M1006 †	-	10	3/8	-	7.1	-	18	-	17.5	-	40.6	1.11	28.19	.66	16.8
II739MSB-M1008 †	II739MBB-M1008 †	-	10	1/2	-	7.1	-	22	-	17.5	-	46.2	1.11	28.19	.90	22.90
II739MSB-M1204 †	II739MBB-M1204 †	-	12	1/4	-	7.1	-	16	-	23.1	-	46.5	1.30	33.00	.90	22.9
II739MSB-M1206 †	II739MBB-M1206 †	-	12	3/8	-	8.8	-	18	-	23.1	-	46.2	1.38	35.05	.96	24.4
II739MSB-M1208 †	II739MBB-M1208 †	-	12	1/2	-	8.8	-	22	-	23.1	-	52	1.45	36.83	.96	24.4
II739MSB-M2012 †	II739MBB-M2012 †	-	20	3/4	-	15.1	-	27	-	26.6	-	54.3				

† Indent item, available on request

FEMALE CONNECTOR

766*B



Product Code Stainless Steel	Product Code Brass	766*B Female Connector - Connects Tube (Metric) to Female Thread												
		A Tube O.D.		T (BSPT)	D		W Width Across Hex		N		L		I	
		ins	mm	ins	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
-	II766BB-M604†	-	6	R-1/4	-	4.8	-	19	-	28.4	-	35.8	-	15.3
-	II766BB-M606†	-	6	R-3/8	-	4.8	-	22	-	30.2	-	37.6	-	15.3
-	II766SB-M1206†	-	12	R-3/8	-	9.5	-	22	-	31.8	-	41.9	-	22.8
-	II766BB-M1208†	-	12	R-1/2	-	9.5	-	27	-	36.6	-	46.7	-	22.8

† These and many other combinations of this fitting, both BSPT and NPT, are available to order on an indent basis. Please refer Pirtek

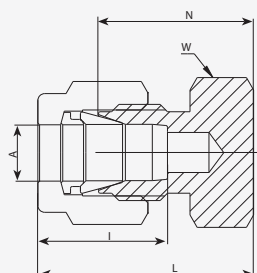
LET-LOK

CAPS AND PLUGS

LET-LOK® (METRIC)

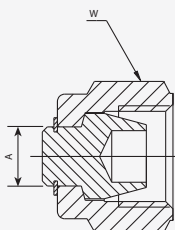
CAPS AND PLUGS

CAP 7108



Product Code Stainless Steel	7108 Cap - Capping End of Tube (Metric)									
	A Tube O.D.		W Width Across Hex.		N		L		I	
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
II7108S-M6	-	6	-	14	-	15.7	-	23.1	-	15.3
II7108S-M8	-	8	-	15	-	17.0	-	24.6	-	16.2
II7108S-M10	-	10	-	18	-	15.0	-	26.6	-	17.2
II7108S-M12	-	12	-	22	-	19.0	-	29.1	-	22.8
II7108S-M16	-	16	-	24	-	19.8	-	29.9	-	24.4

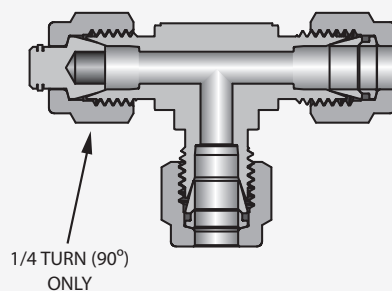
PLUG 7121



Product Code Stainless Steel	Product Code Brass	7121 Plug - Plugging Unused Port of Fitting (Metric)							
		A Tube O.D.		W Width Across Hex.					
		ins	mm	ins	mm				
II7121S-M6	II7121B-M6†	-	6	9/16	14				
II7121S-M8	II7121B-M8 †	-	8	5/8	16				
II7121S-M10	II7121B-M10†	-	10	3/4	19				
II7121S-M12	II7121B-M12†	-	12	7/8	22				
II7121S-M16	II7121B-M16†	-	16	1	25				

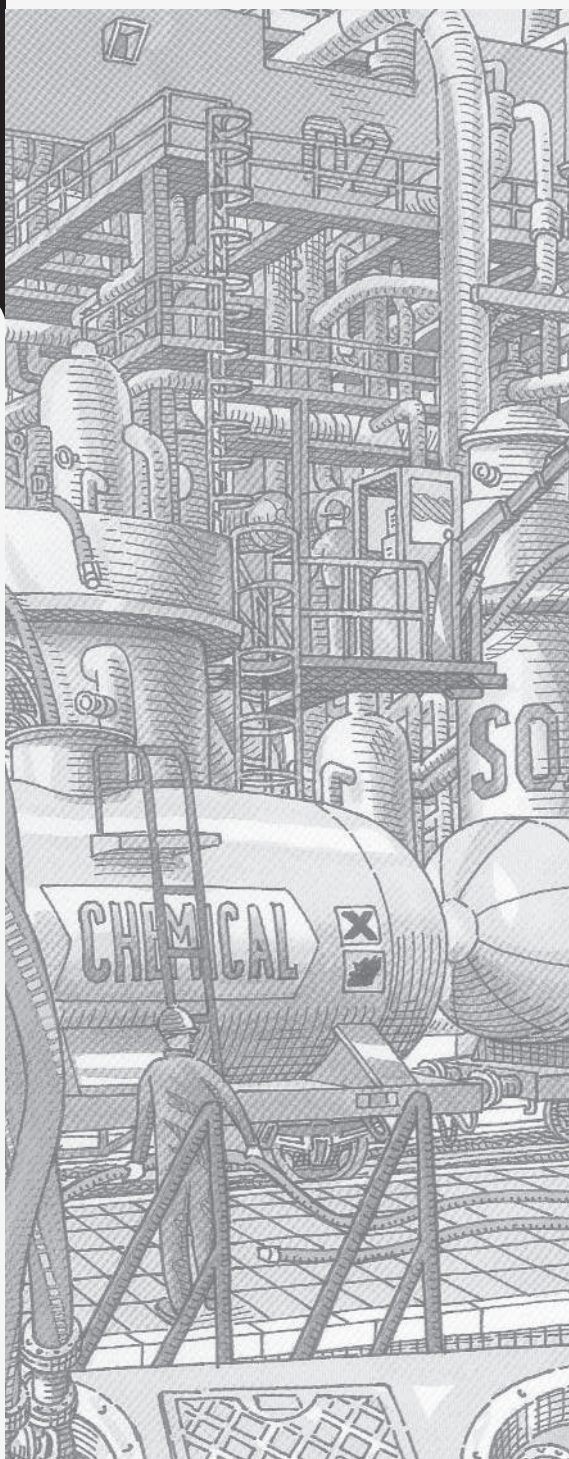
† These sizes are available to order on an indent basis. Please refer Pirtek

PLUG ASSEMBLY INSTRUCTIONS



HAM-LET

INSTRUMENTATION AND PROCESS VALVES



Pirtek stock typically imperial tube and Ham-Let valves with NPT female threaded ends. Contact Pirtek for availability on metric O.D. tube, BSP ends, or male threads.

Tube technical data can be found on page 6.

Many additional Ham-Let valves and fittings beyond the scope of those documented here can be procured on an indent basis. Please consult Pirtek for assistance with applications not covered by the documented products.



HAM-LET

H6800 / H6810 INSTRUMENTATION BALL VALVES



H6800
Let-Lok Ends



H6810
NPT Female

Description :

- A high-performance instrumentation ball valve for general service and instrumentation panels
- The valves offer tight shutoff, long-life service and low operating torque
- Rated to max. 6000 psig (410 bar) for on/off service (3 way diverter service to order)
- Factory pressure tested with Nitrogen at 5.5 and 69 bar. Max. seat leakage 0.1 std. cc/min

Features:

- On/off-service ball valve with 2-way pattern
- Stainless Steel construction (or Brass to order)
- MAWP 6000 psi (410 bar) (see graph)
- MAWT 500°F (260°C) (see graph)
- Variable end connection types and sizes from 1/16" to 3/4" 3mm to 18mm (unlisted sizes to order)
- Black nylon handle as standard (other colours and materials to order)
- Viton O-Rings as standard

Seal Materials:

TFM1600 (PFA and PTFE composite)

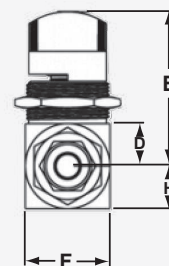
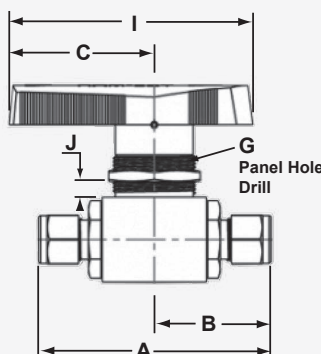
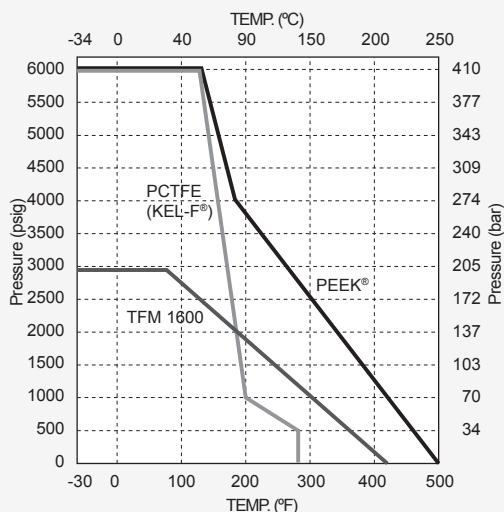
Excellent seat material for purity applications. Very low residual material during operation. Lower deformation ratio than PTFE, but higher pressure and temperature ratings than PTFE. Rated up to 410°F (210°C). Chemical resistance equal to PTFE material

PCTFE (Kel-F®) (Pirtek standard supply)

Excellent seat material for cryogenic applications such as Oxygen and Nitrogen. Suitable for low temperature applications down to -200°C.

PEEK (PolyEtherEtherKeton)

Excellent seat material for high-pressure and high-temperature applications. Excellent chemical resistance. Can be used continuously to 500°F (260°C) and in hot water or steam without permanent loss in physical properties. High strength for hostile environment and high pressure



H6800 STAINLESS STEEL HIGH PRESSURE INSTRUMENTATION VALVE LET-LOK ENDS

Product Code	Orifice		Cv	A		B		C		D		E		F		G		H		I		J	
	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
IIH6800SLCSS-04	0.19	4.8	0.92	3.29	83.6	1.65	41.8	1.1	28	0.44	11.3	1.55	39.5	0.87	22.2	0.81	20.6	0.44	11.2	1.85	47	0.04	1
IIH6800SLCSS-06	0.19	4.8	0.92	3.4	86.3	1.7	43.15	1.1	28	0.44	11.3	1.55	39.5	0.87	22.2	0.81	20.6	0.44	11.2	1.85	47	0.04	1
IIH6800SLCSS-08	0.4	10.4	7.02	4.04	102.5	2.02	51.25	3.03	77	0.75	19	2.52	64.1	1.5	38.1	1.5	38.1	0.75	19.1	4.28	108.7	0.06	1.5

H6810 STAINLESS STEEL HIGH PRESSURE INSTRUMENTATION VALVE NPT FEMALE

Product Code	Orifice		Cv	A		B		C		D		E		F		G		H		I		J	
	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
IIH6810SNCSS-02	0.19	4.8	0.92	2.16	54.8	1.08	27.4	1.1	28	0.44	11.3	1.55	39.5	0.87	22.2	0.81	20.6	0.44	11.2	1.85	47	0.04	1
IIH6810SNCSS-04	0.19	4.8	0.92	2.5	63.6	1.25	31.8	1.1	28	0.44	11.3	1.55	39.5	0.87	22.2	0.81	20.6	0.44	11.2	1.85	47	0.04	1
IIH6810SNCSS-06	0.19	4.8	0.92	2.66	67.6	1.33	33.8	1.1	28	0.44	11.3	1.55	39.5	0.87	22.2	0.81	20.6	0.44	11.2	1.85	47	0.04	1
IIH6810SNCSS-08	0.4	10.4	7.02	3.53	89.6	1.76	44.8	3.03	77	0.75	19	2.52	64.1	1.5	38.1	1.5	38.1	0.75	19.1	4.28	108.7	0.06	1.5

HAM-LET

H700 LEVER TYPE LOCKABLE BALL VALVE



H700
Let-Lok Ends



Description :

- A moderate pressure instrumentation ball valve for general service and instrumentation panels
- The valves offer compact size of structure with relatively large ports, for high flow, tight shut-off, long life service and low operating torque
- Can be used for bi-directional flow
- Rated to max. 2000 psig (135 Bar) and performs on-off service
- Factory pressure tested with Nitrogen to 69 bar. Max. seat leakage 0.1 std. cc/min

Features:

- Explosion Proof Stem
- A351 or 316 Stainless Steel construction (brass to order)
- One piece ball valve with Let-Lok ends
- Locking Handle in On and Off positions
- MAWP 2000 psi (135 Bar)
- MAWT 400°F (204°C)
- Flow coefficient (Cv) 1.25 to 17.35
- Size range: 1/4" to 1" (or 6mm to 25mm to order)

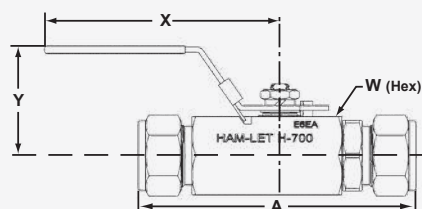
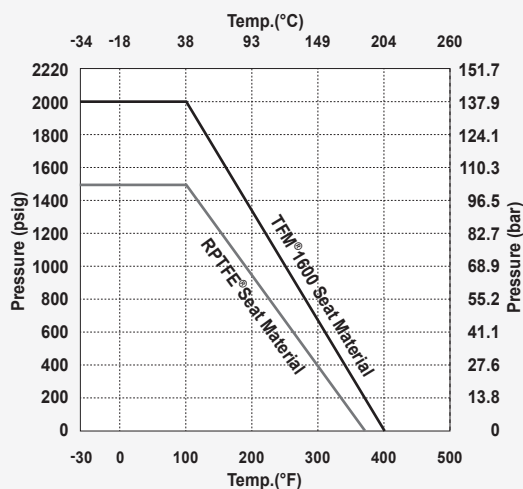
Seat Material:

TFM1600 - a PTFE and PFA composite (Pirtek standard supply)

Color (Bright White). An excellent seat material for purity applications, very low residual material during operation. It has lower deformation ratio than PTFE, but higher pressure and temperature rating than PTFE. Chemical resistance is equal to PTFE material

RPTFE - 15% Glass Fiber Filled PTFE

Color (Off White). Short stand glass fibers are used as a reinforcement in valve seats. Adding reinforcements increases the pressure containing properties of PTFE by reducing its tendency to cold flow. Available only to special order



H700 STAINLESS STEEL LOCKABLE BALL VALVE LET-LOK ENDS

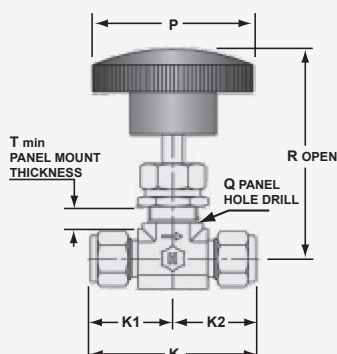
Product Code	Cv	Orifice		A		X		Y		W (Hex)
		in	mm	in	mm	in	mm	in	mm	mm
IIH700SL-04	1.25	5.0	0.20	90.0	3.54	82	3.23	38.0	1.50	17
IIH700SL-06	2.50	7.0	0.28	90.0	3.54	82	3.23	40.0	1.57	21
IIH700SL-08	9.25	9.2	0.36	95.3	3.75	82	3.23	40.7	1.60	25
IIH700SL-12	12.65	12.5	0.49	113.4	4.46	82	3.23	44.5	1.75	32
IIH700SL-16	17.35	15.0	0.59	129.6	5.10	102	4.02	50.0	1.97	38

HAM-LET

H300 / H310 INTEGRAL BONNET NEEDLE VALVES

HAM-LET® (IMPERIAL)

VALVES



Description :

- A high pressure instrumentation needle valve for shut-off service on instrumentation panels
- Compact structure size
- Relatively high flow regulation
- Long service life
- Rated to 345 bar service
- Suited for on-off service
- Factory pressure tested with Nitrogen to 69 bar. Max. seat leakage 0.1 std. cc/min

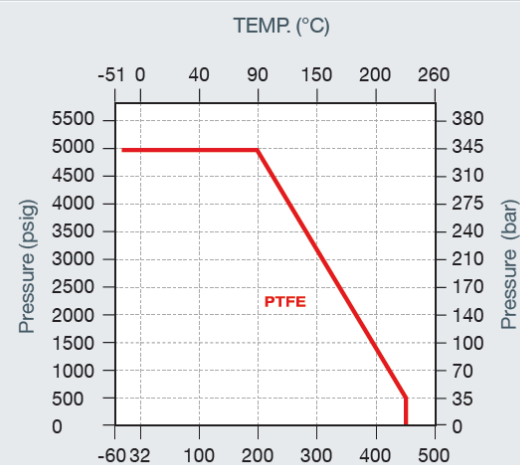
Features:

- Straight pattern (angle pattern to order)
- 316 Stainless Steel construction (brass to order)
- MAWP 5000 psi (340 Bar)
- MAWT 230°C (446°F)
- Flow coefficient (Cv) 0.09 to 1.8
- Size range: 1/8" to 3/4" (or 3mm to 12mm to order)
- Round handles (metal to order)

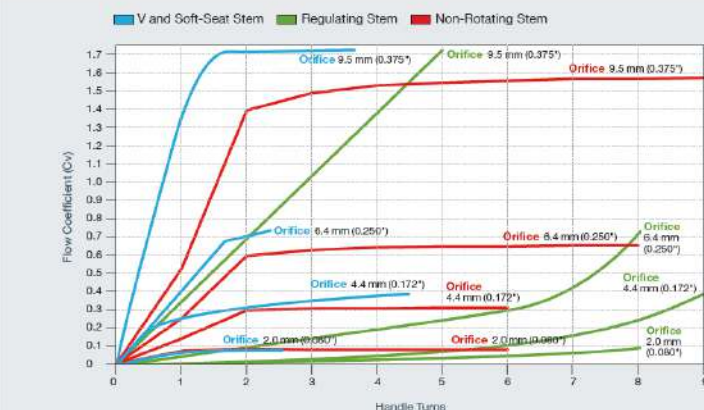
Stems:

- A** Regulating - used where a degree of flow control is required (Pirtek standard issue)
- B** V-Stem - for general purpose liquids and gases
- C** Non - Rotating - typically for high cycle applications to extend valve life
- D** Soft Seat - Requires a lower seating torque than a metal tip. 121°C max temp.

PRESSURE TEMPERATURE RATING



FLOW DATA: FLOW COEFFICIENT VS. HANDLE TURNS



H300 STAINLESS STEEL NEEDLE VALVE LET-LOK ENDS

Product Code	Orifice		Cv	Connection Size		K		K1		K2		K3		L		M		N		P		S		Q		R Open		Tmax	
	in	mm		Inlet	Outlet	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
IIH300SLRS-04	0.17	4.4	0.37	1/4	1/4	2.31	58.8	1.16	29.4	1.16	29.4	1.16	29.4	1.47	37.4	0.39	10	0.31	7.95	1.61	41	5/8	15.9	0.51	13	2.83	72	0.27	7
IIH300SLRS-06	0.25	6.4	0.73	3/8	3/8	2.6	66	1.3	33	1.3	33	1.3	33	1.77	45	0.56	14.3	0.47	11.9	1.97	50	15/16	23.8	0.79	20	3.25	82.6	0.27	7
IIH300SLRS-08	0.25	6.4	0.73	1/2	1/2	2.82	71.6	1.41	35.8	1.41	35.8	1.41	35.8	1.88	47.7	0.56	14.3	0.47	11.9	1.97	50	15/16	23.8	0.79	20	3.25	82.6	0.27	7

H310 STAINLESS STEEL NEEDLE VALVE NPT FEMALE

Product Code	Orifice		Cv	NPT Female Thread		K		K1		K2		K3		L		M		N		P		S		Q		R Open		Tmax	
	in	mm		Inlet	Outlet	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
IIH310SNRS-04	0.25	6.4	0.73	1/4	1/4	2.12	54	1.06	27	1.06	27	1.06	27	1.53	38.9	0.56	14.3	0.47	11.9	1.97	50	15/16	23.8	0.79	20	3.25	82.6	0.27	7
IIH310SNRS-06	0.38	9.5	1.8	3/8	3/8	3	76.2	1.5	38.1	1.5	38.1	1.5	38.1	2.09	53.2	0.75	19	0.59	15.1	2.52	64	13/16	30.2	1.02	26	4.06	103.3	0.26	6.5
IIH310SNRS-08	0.38	9.5	1.8	1/2	1/2	3	76.2	1.5	38.1	1.5	38.1	1.5	38.1	2.09	53.2	0.75	19	0.59	15.1	2.52	64	13/16	30.2	1.02	26	4.06	103.3	0.26	6.5



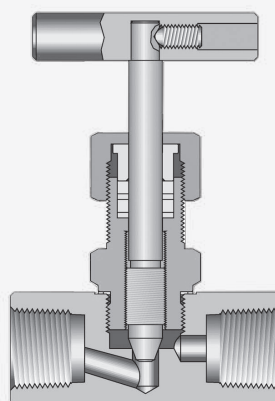
This page is part of a complete catalogue containing technical and safety data.
All data must be reviewed when selecting a product.
Pirtek reserve the right to change technical specifications without notice

HAM-LET

H99 SCREWED BONNET NEEDLE VALVES



H99
NPT Female



Description :

- A general service valve of rugged design and construction
- Available in stainless steel to suit a wide range of services
- Capable of withstanding high pressures
1/4" - 10,000 psig max.
3/8" - 1" 6,000 psig max.

Features:

- 316 Stainless Steel Construction
- PTFE Packing
- MAWP 10,000 psi (680bar)
- Working Temp. Range -51°C - 232°C
- Flow coefficient (Cv) 0.3 to 2.2
- Sizes: 1/4" to 1"
- Female NPT (socket weld to special order)
- Metal Handles as standard
- Variable Stem Range (to special order)
- Factory Tested to 69 bar with Nitrogen- max. leak across seats 0.1 std cc/min.

Applications:

- This valve is typically used in corrosive service, high pressure sampling systems, high pressure shut down systems and test stands

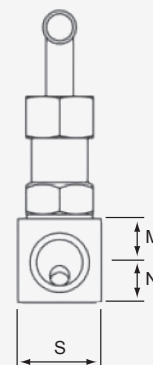
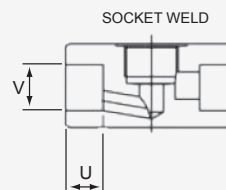
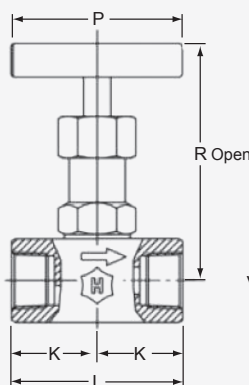
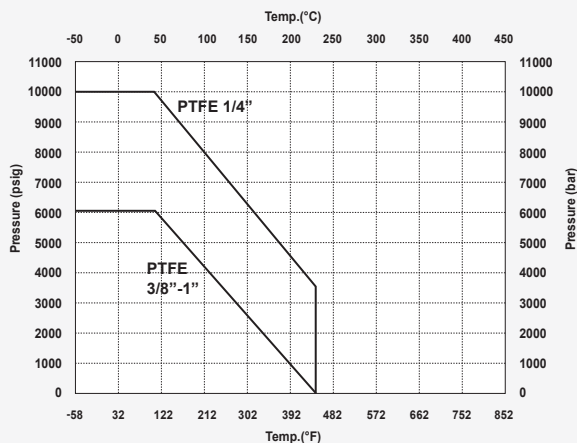
Stems:

A Regulating - used where a degree of flow control is required

B V-Stem (Pirtek standard issue) - for general purpose liquids and gases

C Non - Rotating - typically for high cycle applications to extend valve life

D Soft Seat - Requires a lower seating torque than a metal tip. 121°C max temp.



H99 STAINLESS STEEL SCREWED BONNET NEEDLE VALVE NPT FEMALE

Product Code	Orifice		Connection Size		K		L		M		N		P		R Open		S	
	in	mm	Inlet	Outlet	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
IIH99SSNV-04	0.73	4.4	1/4" NPT-F	1/4" NPT-F	1.38	35	2.76	70	0.59	15	0.59	15	2.52	64	3.94	100	1.18	30
IIH99SSNV-06	0.28	7	3/8 NPT-F	3/8 NPT-F	1.28	32.5	2.56	65	0.59	15	0.59	15	2.52	64	3.94	100	1.18	30
IIH99SSNV-08	0.28	7	1/2 NPT-F	1/2 NPT-F	1.42	36	2.83	72	0.59	15	0.59	15	2.52	64	3.94	100	1.18	30
IIH99SSNV-12	0.39	10	3/4 NPT-F	3/4 NPT-F	1.62	41	3.23	82	0.79	20	0.79	20	3.23	82	4.8	125	1.57	40
IIH99SSNV-16	0.39	10	1" NPT-F	1" NPT-F	1.75	44.5	3.5	89	0.99	25	0.99	25	3.23	82	5	130	1.97	50

HAM-LET

H400 / H410 STAINLESS STEEL CHECK VALVES

H400
Let-Lok Ends



H410
NPT Female



Description :

- A compact design for instrumentation panels and systems
- Provides an accurate operating point
- Normally closed. When differential pressure between inlet and outlet is higher than the set pressure of the spring, the loaded poppet will move backwards to provide a free passage of flow through the valve

Features:

- 316 St.St. Construction (Brass to order)
- Moderate Pressure Characteristics (up to 3000 psi)
- Compact Design
- Interchangeable Parts
- Variable fixed cracking-pressure springs
- Viton O-Rings are supplied as standard. Please stipulate if other materials are required. (Ethylene Propylene, Buna-N, Kalrez, Neoprene)

Cracking Pressures:

Cracking Pressure

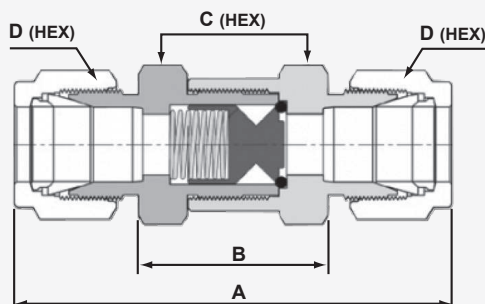
The differential pressure between inlet and outlet, at which an initial flow is passing through the valve

Reseal Pressure

The differential pressure between outlet and inlet, at which no flow is passing through the valve

Pirtek-supply valves pre set to 1/3 psi cracking pressure as standard. Other cracking pressures as tabulated below can be specified to order

Cracking Pressure (psi)		Reseal Pressure (psi)	
Nominal	Range	Pressure	Up/Back
1/3	Up to 3	Up to 3	Back
1	Up to 4	Up to 6	Back
10	7-15	3 or more	Up
25	20-30	17 or more	Up



Max. Allowable Working Pressure (M.A.W.P.) *		
Size	psi	bar
1/8 - 1/4	3000	210
3/8 - 1/2	3000	210
3/4 - 1	2000	102

* Applicable for 316 Stainless Steel Body at 21°C

H400 STAINLESS STEEL CHECK VALVE LET-LOK ENDS

Product Code	Connection Size		A		B		C		D		Cv	M.A.W.P.
	Inlet	Outlet	in	mm	in	mm	in	mm	in	mm		
IIH400SL1/3PSI-04	1/4 LET-LOK	1/4 LET-LOK	2.38	60.5	0.98	25	5/8	15.88	9/16	14.28	0.47	210
IIH400SL1/3PSI-06	3/8 LET-LOK	3/8 LET-LOK	2.5	63.5	0.98	24.9	11/16	17.46	11/16	17.46	1.47	210
IIH400SL1/3PSI-08	1/2 LET-LOK	1/2 LET-LOK	3.03	77	1.28	32.6	15/16	23.8	7/8	22.23	1.68	210

H410 STAINLESS STEEL CHECK VALVE NPT FEMALE

Product Code	NPT Female Size		A		B		C		D		Cv	M.A.W.P.
	Inlet	Outlet	in	mm	in	mm	in	mm	in	mm		
IIH410SN1/3PSI-04	1/4	1/4	2.07	52.5	1.1	28	3/4	19.05			0.47	210
IIH410SN1/3PSI-06	3/8	3/8	2.03	51.5	1.34	34.1	7/8	22.23			1.47	210
IIH410SN1/3PSI-08	1/2	1/2	3.01	76.5	1.71	43.4	1.1/8	28.6			1.68	210

IMPERIAL	
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PLUG (METRIC TUBE)	45
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