

HAM-LET **POSITIONABLES** ELBOW & TEE

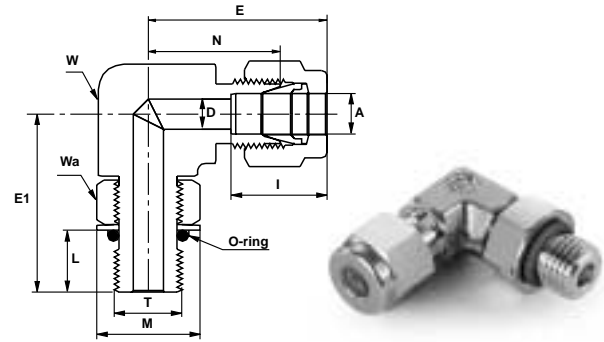


LET-LOK TUBE FITTINGS

POSITIONABLES

PER SAE J1926 AND MS 16142

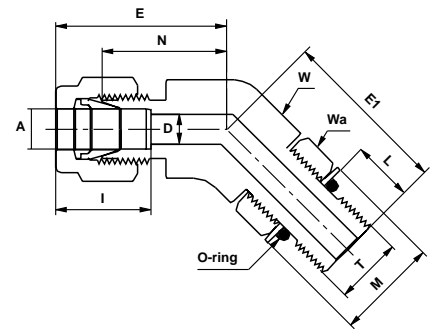
769 LOB MALE ELBOW



TUBE TO SAE/MS STRAIGHT THREAD BOSS (POSITIONABLE)*

Ordering Information	A		T	D		W		Wa		N		E		E1		L		M		I		O-ring**
	Tube O.D.		SAE/MS	Wrench Flat		Hex. Flat																
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
769LOB SS 1/4 X 7/16-20 POS.	1/4	6.35	7/16-20	0.19	4.8	1/2	12.7	9/16	14.3	0.83	21.1	1.12	28.45	1.12	28.45	0.39	9.9	0.65	16.5	0.60	15.2	-904
769LOB SS 1/4 X 9/16-18 POS.	1/4	6.35	9/16-18	0.19	4.8	5/8	15.9	11/16	17.5	0.91	23.11	1.20	30.48	1.27	32.26	0.44	11.2	0.79	20.1	0.60	15.2	-906
769LOB SS 3/8 X 9/16-18 POS.	3/8	9.53	9/16-18	0.28	7.1	5/8	15.9	11/16	17.5	0.97	24.64	1.26	32.0	1.27	32.26	0.44	11.2	0.79	20.1	0.66	16.8	-906

769 LOB 45° MALE ELBOW 45°



TUBE TO SAE/MS STRAIGHT THREAD BOSS (POSITIONABLE)*

Ordering Information	A		T	D		W		Wa		N		E		E1		L		M		I		O-ring**
	Tube O.D.		SAE/MS	Wrench Flat		Hex. Flat																
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
769LAOB SS 1/4 X 7/16-20 POS.	1/4	6.35	7/16-20	0.19	4.8	9/16	14.3	9/16	14.3	0.72	18.29	1.01	25.65	1.01	25.65	0.39	9.9	0.65	16.5	0.60	15.2	-904
769LAOB SS 3/8 X 9/16-18 POS.	3/8	9.53	9/16-18	0.28	7.1	13/16	20.6	11/16	17.5	0.81	20.6	1.10	28.0	1.06	27.0	0.44	11.2	0.79	20.1	0.66	16.8	-906

● "D" - Dimension is minimum opening. ● Dimensions are for reference only, and are subject to change without notice.

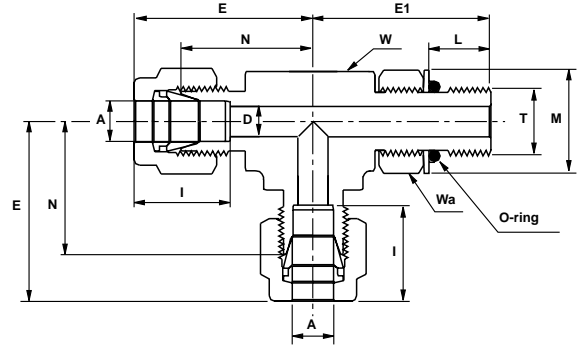
* Per SAE J1926 and MS 16142. See page 8 for mounting dimensions.

** O-rings used are Viton 90 Durometer. Other O-ring materials are available on request.

POSITIONABLE
PER SAE J1926 AND MS 16142

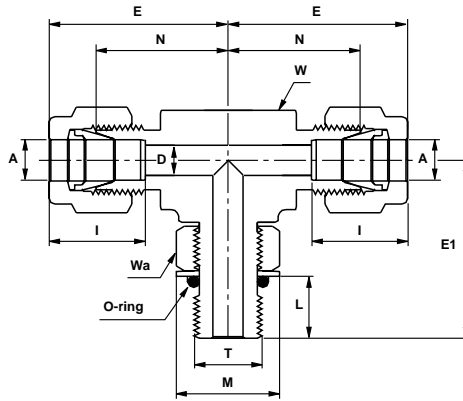
LET-LOK TUBE FITTINGS

771 LOB
MALE RUN TEE



TUBE TO SAE/MS STRAIGHT THREAD BOSS (POSITIONABLE)*																						
Ordering Information	A		T	D		W		Wa		N		E		E1		L		M		I		O-ring**
	Tube O.D.		SAE/MS	Wrench Flat		Hex. Flat																
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
771LOB SS 1/4 X 7/16-20 POS.	1/4	6.35	7/16-20	0.19	4.8	1/2	12.7	9/16	14.3	0.83	21.1	1.12	28.45	1.12	28.45	0.39	9.9	0.65	16.5	0.60	15.2	-904
771LOB SS 3/8 X 9/16-18 POS.	3/8	9.53	9/16-18	0.28	7.1	5/8	15.9	11/16	17.5	0.97	24.64	1.26	32.0	1.27	32.26	0.44	11.2	0.79	20.1	0.66	16.8	-906

772 LOB
MALE BRANCH TEE



TUBE TO SAE/MS STRAIGHT THREAD BOSS (POSITIONABLE)*																						
Ordering Information	A		T	D		W		Wa		N		E		E1		L		M		I		O-ring**
	Tube O.D.		SAE/MS	Wrench Flat		Hex. Flat																
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
772LOB SS 1/4 X 7/16-20 POS.	1/4	6.35	7/16-20	0.19	4.8	1/2	12.7	9/16	14.3	0.83	21.1	1.12	28.45	1.12	28.45	0.39	9.9	0.65	16.5	0.60	15.2	-904
772LOB SS 3/8 X 9/16-18 POS.	3/8	9.53	9/16-18	0.28	7.1	5/8	15.9	11/16	17.5	0.97	24.64	1.26	32.0	1.27	32.26	0.44	11.20	0.79	20.1	0.66	16.8	-906

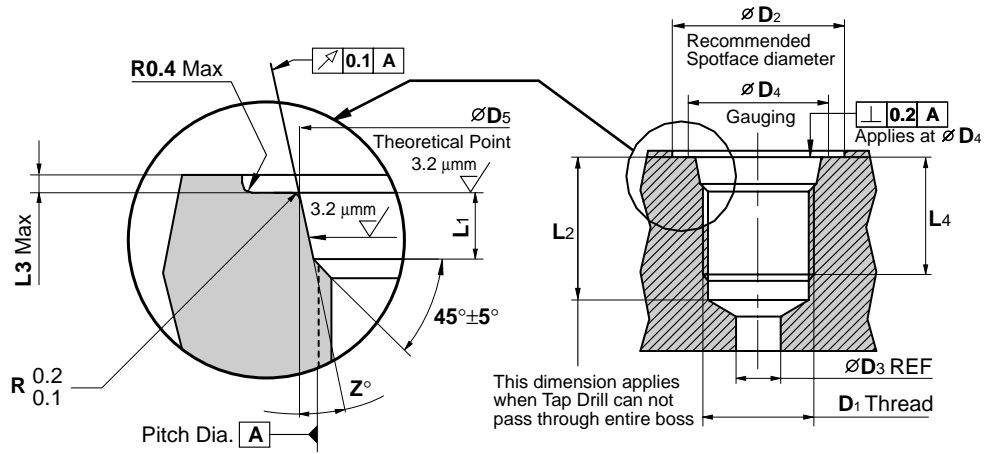
● "D" - Dimension is minimum opening. ● Dimensions are for reference only, and are subject to change without notice.

* Per SAE J1926 and MS 16142. See page 8 for mounting dimensions.

** O-rings used are Viton 90 Durometer. Other O-ring materials are available on request.

LET-LOK TUBE FITTINGS

MOUNTING DIMENSIONS FOR SAE J1926 & MS 16142 BOSS

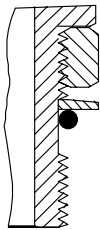


MOUNTING DIMENSIONS FOR O-SEAL CONNECTORS (SAE/MS)

TUBE O.D.		DI Thread Size	D2 Min Diameter	D3 Min Diameter	D4 Min	D5 ± 0.05	L1 ± 0.02	L2 Min	L3 Max	L4 Min Full Thread	Z° ± 1°
in	mm	in	± 0.05	mm	mm	mm	mm	mm	mm	mm	mm
1/8	3.18	5/16 - 24 UNF - 2B	17	1.6	11	9.15	2.1	12	1.6	10	12
3/16	4.76	3/8 - 24 UNF - 2B	19	3.5	13	10.75	2.1	12	1.6	10	12
1/4	6.35	7/16 - 20 UNF - 2B	21	4.5	15	12.45	2.6	14	1.6	11.5	12
5/16	7.94	1/2 - 20 UNF - 2B	23	6	16	14.05	2.6	14	1.6	11.5	12
3/8	9.52	9/16 - 18 UNF - 2B	25	7.5	18	15.70	2.7	15.5	1.6	12.7	12
1/2	12.70	3/4 - 16 UNF - 2B	30	10	22	20.65	2.7	17.5	2.4	14.3	15
5/8	15.88	7/8 - 14 UNF - 2B	34	12.5	26	24	2.7	20	2.4	16.7	15
3/4	19.05	1 1/16 - 12 UNF - 2B	41	16	32	29.2	3.5	23	2.4	19	15
7/8	22.22	1 3/16 - 12 UN - 2B	45	18	35	32.4	3.5	23	2.4	19	15
1	25.40	1 5/16 - 12 UN - 2B	49	21	38	35.55	3.5	23	3.2	19	15

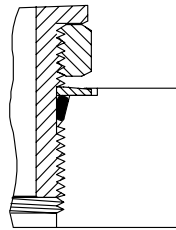
INSTALLATION INSTRUCTIONS

Figure 1
Locking backed off



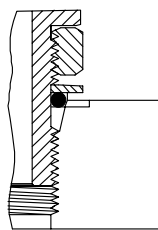
Lubricate the O-ring by inserting it into the groove adjacent to the face of the metal back - up washer which is assembled at the extreme end of the groove as shown in Figure 1.

Figure 2
Fitting install hand tight



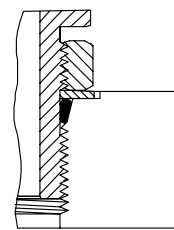
Install the fitting into the S.A.E. straight thread boss, figure 2, until the metal back - up washer contacts the face of the boss as shown in Figure 2.

Figure 3
Fittings backed-off for alignment (1 turn maximum)



Position the fitting by turning it counter clockwise up to a maximum of one turn (see Figure 3).

Figure 4
Fitting locknut tight to appropriate torque



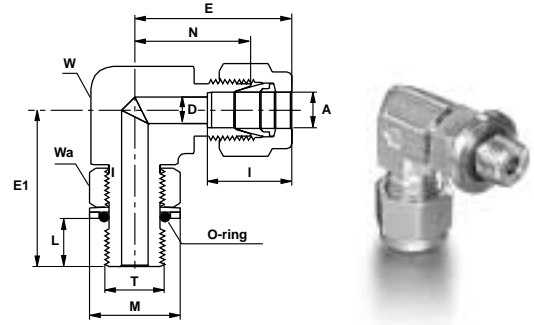
Holding the pad of the fitting with a spanner, tighten the locknut and washer against the face as shown in Figure 4.

● Dimensions are for reference only, and are subject to change without notice.

**POSITIONABLE
ISO PARALLEL THREAD
PER B.S. 2779**

LET-LOK TUBE FITTINGS

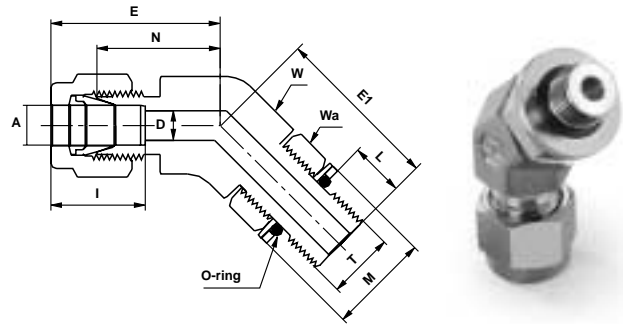
**769 LG
MALE ELBOW**



TUBE (INCH) TO ISO PARALLEL THREAD (POSITIONABLE)*																						
Ordering Information	A		T	D		W		Wa		N		E		E1		L		M		I	O-ring**	
	Tube O.D.		(ISO)	in mm		Wrench Flat		Hex. Flat		in mm		in mm		in mm		in mm		in mm		in mm	I.D.	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	DASH No.	
769LG SS 1/4 X 1/8 POS.	1/4	6.35	1/8-28 BSPP	0.16	4.0	1/2	12.7	9/16	14.3	0.77	19.6	1.06	26.9	1.04	26.4	0.32	8.1	0.68	17.3	0.60	15.2	8.0
769LG SS 1/4 X 1/4 POS.	1/4	6.35	1/4-19 BSPP	0.19	4.8	5/8	15.9	3/4	19.0	0.85	21.6	1.14	28.9	1.27	32.2	0.36	9.1	0.90	22.9	0.60	15.2	-
769LG SS 3/8 X 1/4 POS.	3/8	9.53	1/4-19 BSPP	0.23	5.9	5/8	15.9	3/4	19.0	0.91	23.1	1.20	30.5	1.27	32.2	0.36	9.1	0.90	22.9	0.66	16.8	-

TUBE (METRIC) TO ISO PARALLEL THREAD (POSITIONABLE)*																					
Ordering Information	A		T	D		W		Wa		N		E		E1		L		M		I	O-ring**
	Tube O.D.		(ISO)	mm		in mm		Hex. Flat		mm		mm		mm		mm		mm		mm	I.D.
	mm	in	mm	in	mm	in	mm	in	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DASH No.
769LG SS 6 X 1/8 POS.	6	1/8-28 BSPP	4.0	1/2	12.7	9/16	14.3	19.6	27.0	26.4	8.1	17.3	15.3	8.0							
769LG SS 8 X 1/8 POS.	8	1/8-28 BSPP	4.0	5/8	15.9	9/16	14.3	21.3	28.8	27.4	8.1	17.3	16.2	8.0							
769LG SS 8 X 1/4 POS.	8	1/4-19 BSPP	5.9	5/8	15.9	3/4	19.0	22.4	29.9	32.2	9.1	22.9	16.9	-							

**769 LG 45°
MALE ELBOW 45°**



TUBE (INCH) TO ISO PARALLEL THREAD (POSITIONABLE)*																						
Ordering Information	A		T	D		W		Wa		N		E		E1		L		M		I	O-ring**	
	Tube O.D.		(ISO)	in mm		Wrench Flat		Hex. Flat		in mm		in mm		in mm		in mm		in mm		in mm	I.D.	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	DASH No.	
769LAG SS 1/4 X 1/8 POS.	1/4	6.35	1/8-28 BSPP	0.16	4.0	9/16	14.3	9/16	14.3	0.69	17.5	0.98	24.9	0.94	24.0	0.32	8.1	0.68	17.3	0.60	15.2	8.0

TUBE (METRIC) TO ISO PARALLEL THREAD (POSITIONABLE)*																					
Ordering Information	A		T	D		W		Wa		N		E		E1		L		M		I	O-ring**
	Tube O.D.		(ISO)	mm		Wrench Flat		Hex. Flat		mm		mm		mm		mm		mm		mm	I.D.
	mm	in	mm	in	mm	in	mm	in	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DASH No.
769LAG SS 6 X 1/8 POS.	6	1/8-28 BSPP	4.0	9/16	14.3	9/16	14.3	17.55	24.9	24.0	8.1	17.3	15.3	8.0							

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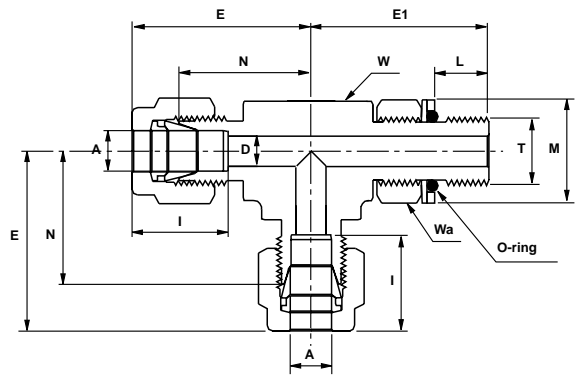
* Per B.S. 2779. See page 11 for mounting dimensions

** O-rings used are Viton 90 Durometer. Other O-ring materials are available on request.

LET-LOK TUBE FITTINGS

POSITIONABLE ISO PARALLEL THREAD PER B.S. 2779

771 LG MALE RUN TEE



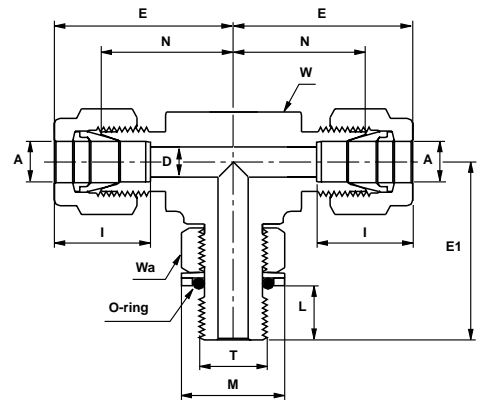
TUBE (INCH) TO ISO PARALLEL THREAD (POSITIONABLE)*

Ordering Information	A		T		D		W		Wa		N		E		E1		L		M		I		O-ring** I.D. DASH No.
	Tube O.D.		(ISO)		Wrench Flat		Hex. Flat																
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
771LG SS 1/4 X 1/8 POS.	1/4	6.35	1/8-28 BSPP	0.16	4.0	1/2	12.7	9/16	14.3	0.77	19.6	1.06	26.9	1.04	26.4	0.32	8.1	0.68	17.3	0.60	15.2	8.0	
771LG SS 1/4 X 1/4 POS.	1/4	6.35	1/4-19 BSPP	0.19	4.8	5/8	15.9	3/4	19.0	0.85	21.6	1.14	28.9	1.27	32.2	0.36	9.1	0.90	22.9	0.60	15.2	-	
771LG SS 3/8 X 1/4 POS.	3/8	9.53	1/4-19 BSPP	0.23	5.9	5/8	15.9	3/4	19.0	0.91	23.1	1.20	30.5	1.27	32.2	0.36	9.1	0.90	22.9	0.66	16.8	-	

TUBE (METRIC) TO ISO PARALLEL THREAD (POSITIONABLE)*

Ordering Information	A		T		D		W		Wa		N		E		E1		L		M		I		O-ring** I.D. DASH No.
	Tube O.D.		(ISO)		Wrench Flat		Hex. Flat																
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
771LG SS 6 X 1/8 POS.	6		1/8-28 BSPP		4.0	1/2	12.7	9/16	14.3	19.6	27.0	26.4	8.1	17.3	15.3	8.0							

772 LG MALE BRANCH TEE



TUBE (INCH) TO ISO PARALLEL THREAD (POSITIONABLE)*

Ordering Information	A		T		D		W		Wa		N		E		E1		L		M		I		O-ring** I.D. DASH No.
	Tube O.D.		(ISO)		Wrench Flat		Hex. Flat																
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
772LG SS 1/4 X 1/8 POS.	1/4	6.35	1/8-28 BSPP	0.16	4.0	1/2	12.7	9/16	14.3	0.77	19.6	1.06	26.9	1.04	26.4	0.32	8.1	0.68	17.3	0.60	15.2	8.0	

TUBE (METRIC) TO ISO PARALLEL THREAD (POSITIONABLE)*

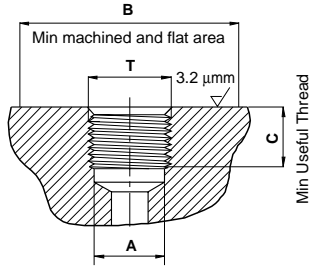
Ordering Information	A		T		D		W		Wa		N		E		E1		L		M		I		O-ring** I.D. DASH No.
	Tube O.D.		(ISO)		Wrench Flat		Hex. Flat																
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
772LG SS 6 X 1/8 POS.	6		1/8-28 BSPP		4.0	1/2	12.7	9/16	14.3	19.6	27.0	26.4	8.1	17.3	15.3	8.0							

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* Per B.S. 2779. See page 11 for mounting dimensions

** O-rings used are Viton 90 Durometer. Other O-ring materials are available on request.

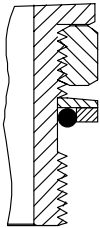
ISO PARALLEL THREAD PER B.S. 2779



MOUNTING DIMENSIONS OF CONNECTORS								
T Female	A Thread Minor Diameter				B Min Machine and Flat Area		C Min useful Thread	
	max		min		in	mm	in	mm
	in	mm	in	mm				
1/8 - 28	0.35	8.89	0.34	8.64	0.53	13.50	0.28	7.00

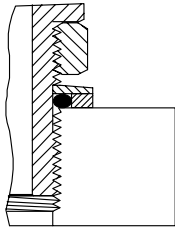
INSTALLATION INSTRUCTIONS:

Figure 1
Locking backed off



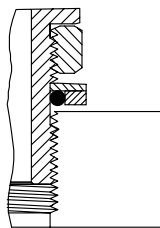
Lubricate O-ring by inserting it in the groove adjacent to the face of the metal back - up washer which is assembled at the extreme end of the groove as shown in Figure 1.

Figure 2
Fitting install hand tight



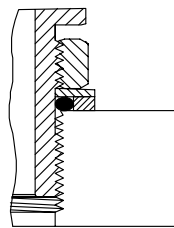
Install the fitting into the S.A.E. straight thread boss, Figure 2, until the metal back - up washer contacts the face of the boss as shown in Figure 2.

Figure 3
Fittings backed - off for alignment (1 turn maximum)



Position the fitting by turning counter clockwise up to maximum of one turn. see Figure 3.

Figure 4
Fitting locknut tight to appropriate torque



Holding the pad of the fitting with a wrench, tighten the locknut and washer against the face as shown in Figure 4.

* All LET-LOK ferrules are available as sets.

Dimensions are for reference only, and are subject to change without notice.