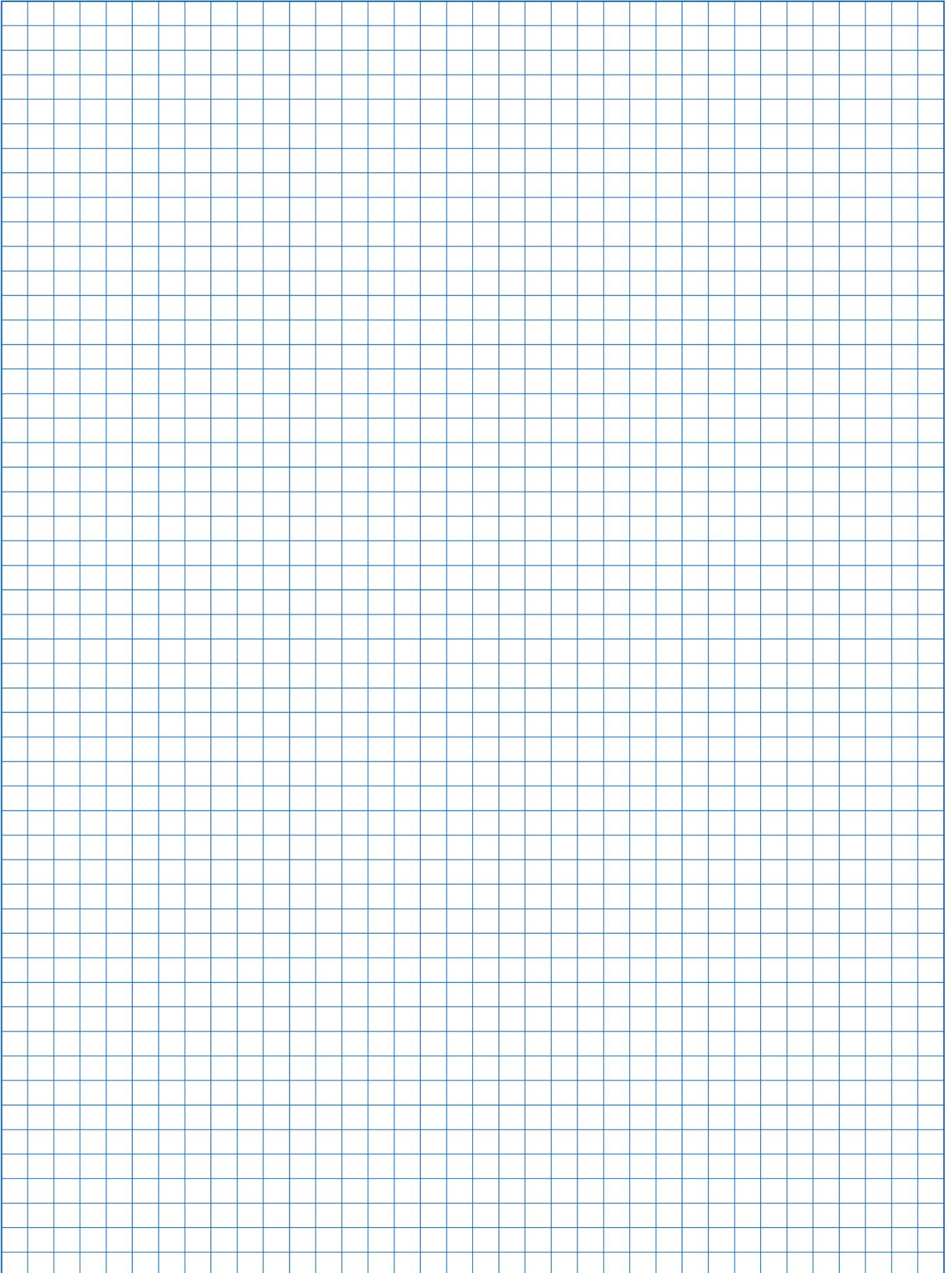


Tube Fittings Series



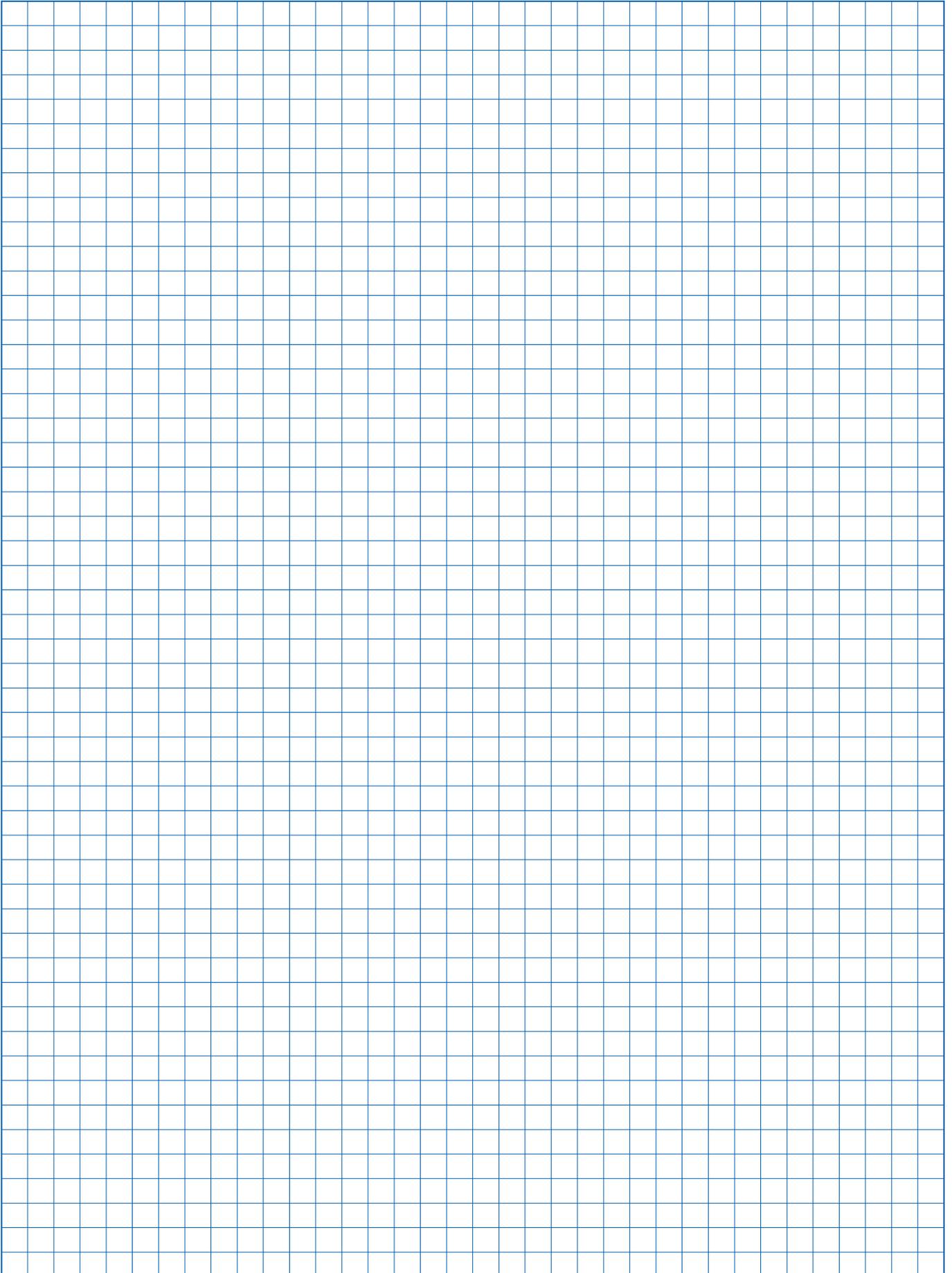
OUR PEOPLE MAKE THE DIFFERENCE

MEMO

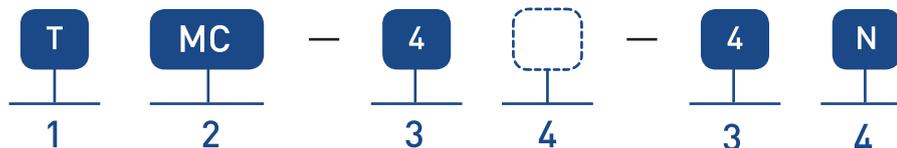


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MEMO



ORDERING INFORMATION 订购信息



1. TUBE FITTING

2. FITTING TYPE

Description	Designator
Union	U
Reducing Union	RU
Union Tee	UT
Reducing Union Tee	RUT
Union 90° Elbow	UE
Female Connector	FC
Reducer	R
Reducing Port Connector	RPC
Port Connector	PC
Male Connector	MC
Male Pipe Weld Connector	MPWC
Tube Socket Weld Connector	TSWC
Male 90° Elbow	ME
Male Pipe Weld 90° Elbow	MPWE
Tube Socket Weld 90° Elbow	TSWE
Female 90° Elbow	FE
Male Run Tee	MRT
Female Run Tee	FRT
Male Branch Tee	MBT
Female Branch Tee	FBT
Bulkhead Union	BU
Bulkhead Female Connector	BFC
Bulkhead Reducer	BR
Bulkhead Male Connector	BMC
Union Cross	UC
Cap	C
Plug	P
Female Tube Adapter	FTA
Male Tube Adapter	MTA
Male 45° Elbow	MHE
Back Ferrule	BF
Front Ferrule	FF
Ferrule Set	FS
Female Nut	FN
Nut-Ferrule Set	NFS
Male Nut	MN
Tube Insert	TI

3. CONNECTION SIZE

Size	Designator
1/16"	1
1/8"	2
3/16"	3
1/4"	4
5/16"	5
3/8"	6
1/2"	8
5/8"	10
3/4"	12
7/8"	14
1"	16
1 1/4"	20
1 1/2"	24
2"	32

Size	Designator
2mm	2M
3mm	3M
4mm	4M
6mm	6M
8mm	8M
10mm	10M
12mm	12M
14mm	14M
15mm	15M
16mm	16M
18mm	18M
20mm	20M
22mm	22M
25mm	25M
28mm	28M
32mm	32M
38mm	38M
42mm	42M

4. CONNECTION TYPE

Description	Designator
MG-LOK	Blank
NPT	N
	NOR
ISO Tapered	P
ISO Parallel	G
Unified Screw	SR
	OR
	ST
Male Pipe Weld	TW
Tube Socket Weld	SW
Thermocouple Connector	TC

MG-LOK INSTALLATION INSTRUCTIONS 安装说明

FEATURES 特性

- ◎ 尺寸范围从1/16"至2"或2mm至42mm
- ◎ 多种材质和形式可选。
- ◎ 零部件加工精度高，确保卡套和管子变形精准。
- ◎ 经硬化和抛光的螺纹延长了接头的寿命，避免阴阳螺纹的咬死。
- ◎ 螺母螺纹镀银，可有效减少与本体螺纹的摩擦系数。
- ◎ 弯头通道圆弧连接，确保流体平稳流动。
- ◎ 每个接头都刻有尺寸、材质和炉号。
- ◎ 接头拆卸和重新紧固方便。



在装配具有先进几何形状设计特点的管接头时(如上图所示)，前卡套被推入到接头本体和卡套管形成主密封，而后卡套向内产生铰链作用以对卡套管形成强有力的抓紧。后卡套的几何形状有助于产生先进的工程铰链—夹箍作用，这种作用可把轴向运动转化为卡套管上的径向挤压作用，操作时只需要很小的装配扭矩。

MATERIALS 材质

Description	Bar Stock	Forgings
Stainless Steel 316 / 316L 304 / 304L	ASTM A276, ASME SA276 ASTM A479, ASME SA479	ASTM A182 ASME SA182
Brass	JIS C3604 ASTM B16 Alloy 360 ASTM B453 Alloy 345 C3601-C3604	JIS C3771BE ASTM B283 Alloy 377 ASTM B124 Alloy 377 C371-C3771

TUBING TEMPERATURE RANGES 管道工作温度

Tubing Material	Temperature Range
Stainless Steel	-321°F to 1200°F (-196°C to 649°C)
Brass	-65°F to 400°F (-54°C to 204°C)

ALLOWABLE WORKING TEMPERATURE 密封件工作温度

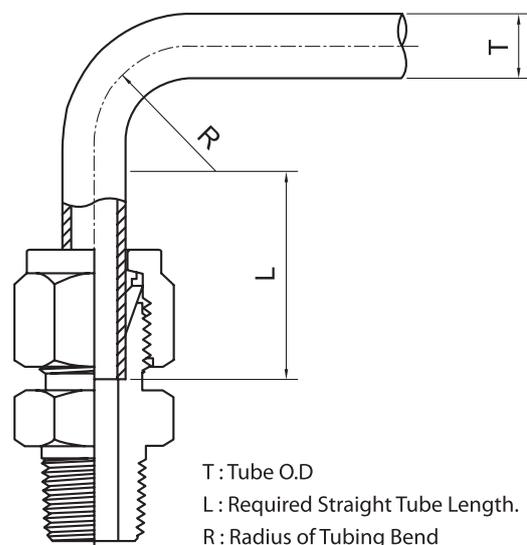
When Elastomer seal is used in the fitting, care must be taken for allowable working temperature.

Elastomer seal material	Working Temperature
NBR (Perbunan®)	-40°F to 212°F (-40°C to 100°C)
FKM (Viton®)	-15°F to 450°F (-26°C-232°C)
FFKM (Kalrez®)	-22°F to 527°F (-30°C-275°C)
PTFE (Teflon®)	-65°F to 450°F (-54°C to 232°C)

INSTALLING FITTINGS NEAR TUBE BENDS 弯管的安装

在拧紧卡套接头之前，管的末端必须与接头本体六角肩部齐平。因此，当在弯管配件时，必须有足够的直管长度以允许正确安装。(见左表)

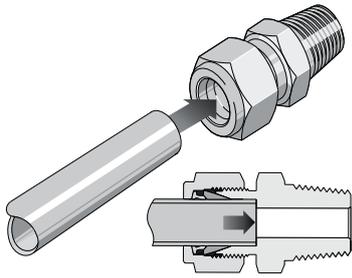
Fractional (INCH)		Metric (mm)	
T Tube OD	L	T Tube OD	L
1/16"	1/2	3	19
1/8"	23/32	6	21
3/16"	3/4	8	23
1/4"	13/16	10	25
5/16"	7/8	12	31
3/8"	15/16	14	
1/2"	13/16	15	32
5/8"		16	
3/4"	1 1/4	18	
7/8"	1 5/16	20	34
1"	1 1/2	22	
1 1/4"	2	25	40
1 1/2"	2 13/32	28	46
2"	3 1/4	30	50
		32	54
		38	63



MG-LOK INSTALLATION INSTRUCTIONS 安装说明

1 in./25 mm 及以下的卡套管接头

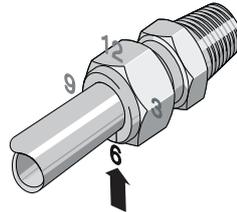
以下说明既适用于传统接头也适用于具有先进的后卡套几何形状的接头。



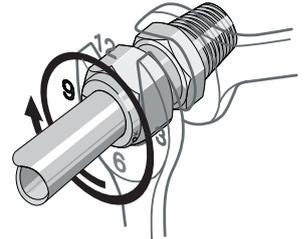
把卡套管完全插入接头内并顶住肩部；

用手指将螺母拧紧。

高压应用和高安全系数系统：进一步拧紧螺母，使卡套管无法用手转动或无法沿轴向在接头内移动。



在 6 点钟的位置给螺母作标记。

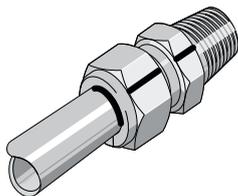


牢牢固定接头本体，将螺母紧固一又四分之一圈以停在 9 点钟的位置。

对于 1/16, 1/8 和 3/16 in.; 2, 3 和 4 mm 的卡套管接头，仅将螺母紧固四分之三圈使其停在 3 点钟的位置。

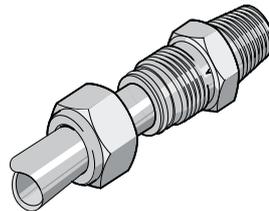
复装——所有尺寸

您可以多次反复拆卸和复装卡套管接头。△必须先卸除系统压力后再拆卸卡套管接头。



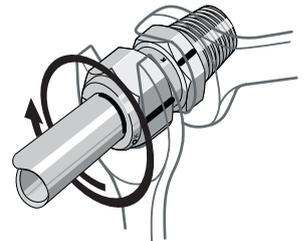
拆卸之前，沿螺母背面在卡套管上作标记；在螺母和接头本体的平面上画一条线。

这些标记用于保证复装时把螺母转到先前紧固的位置。



将带有预装卡套的卡套管插入接头内直到前卡套顶在接头本体上。

1 in./25 mm 以上尺寸：必要时，再在本体螺纹和后卡套背面涂少量润滑剂。



牢牢固定接头本体，使用扳手把螺母转到卡套管及本体平面上的标记指示的先前紧固位置。这时，您会感觉到阻力明显增大。轻轻拧紧螺母。

TUBING DATA FOR STAINLESS STEEL

TABLE 1: MAXIMUM ALLOWABLE WORKING PRESSURE FOR STAINLESS STEEL TUBING

表1: 不锈钢管的最大允许工作压力

- Fully Annealed seamless type 304/304L, 316/316L to ASTM A269 or equivalent
- Hardness: RB90 or less

Tube O.D. INCH	Tube Wall Thickness (INCH)															
	0.010	0.012	0.014	0.016	0.02	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.156	0.188
Working Pressure (psig)																
1/16"	5600	6800	8100	9400	12000											
1/8"						8500	10900									
3/16"						5400	7100	10200								
1/4"						4000	5100	7500	10200							
5/16"							4000	5800	8000							
3/8"							3300	4800	6500							
1/2"							2600	3750	5100	6700						
5/8"								2900	4000	5200	6000					
3/4"								2400	3300	4200	4900	5800				
7/8"								2000	2800	3600	4200	4800				
1"									2400	3100	3600	4200	4700			
1 1/4"										2400	2800	3300	3600	4100	4900	
1 1/2"											2300	2700	3000	3400	4000	4900
2"												2000	2200	2500	2900	3600

Tube O.D. mm	Tube Wall Thickness (mm)													
	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	3.5	4.0	4.5	
Working Pressure (psig)														
3	10400	13700												
4	7500	9700	12100											
6	4780	6230	7500	9800										
8		4490	5500	7100										
10		3480	4350	5500	6800	7680								
12		2900	3480	4490	5500	6230								
14		2610	3190	4060	4930	5650	6230							
15		2465	2900	3770	4640	5220	5800							
16			2755	3480	4350	4780	5360	6230						
18			2465	3040	3770	4200	4780	5510						
20			2175	2755	3330	3770	4200	4780	5510					
22			2030	2465	3045	3480	3770	4350	4930					
25				2175	2610	2900	3330	3770	4350	4640				
28						2610	2900	3330	3770	4060	4780			
30						2465	2755	3045	3480	3770	4490			
32						2320	2465	2900	3335	3480	4200	4780		
38							2030	2465	2755	2900	3480	4060	4490	

- According to the requirements of ASME B31.3 (Process piping Code)
- Allowable working pressures are calculated from an S value of 20,000psi for ASTM A269 Tubing (at -20 to 100°F(-28 to 37°C))
- Safety Factor: 3.75 : 1, Ultimate tensile strength of 75,000psi
- For Weld Tubing Pressure
 - ASME 31.1(Power Piping Code)
 - for double welded tubing: working pressure x 0.85
 - for single welded tubing: working pressure x 0.80
- For gas service, select a tube wall thickness outside of the shaded area.

TUBING DATA FOR COPPER

TABLE 2: MAXIMUM ALLOWABLE WORKING PRESSURE FOR COPPER TUBING

表2:铜管的最大允许工作压力

- Soft annealed seamless copper tubing, ASTM B75 or equivalent. (Temper O with Max. hardness 60)
- Seamless water tubing type K or type L to ASTM B88 (Temper O with Max. hardness 50)

Tube O.D. INCH	Tube Wall Thickness (INCH)										
	0.010	0.012	0.028	0.030	0.035	0.049	0.065	0.083	0.095	0.109	0.120
	Working Pressure (psig)										
1/16"	1650	2100	6700	9800							
1/8"			2800	3000	3600						
3/16"			1800	1900	2300	3400					
1/4"			1300	1400	1600	2500	3600				
5/16"					1300	1900	2700				
3/8"					1000	1600	2200				
1/2"					800	1100	1600	2100			
5/8"						900	1200	1600	1900		
3/4"						700	1000	1300	1500	1800	
7/8"						600	800	1100	1300	1500	
1"						500	700	900	1100	1300	1500

Tube O.D. mm	Tube Wall Thickness (mm)									
	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0
	Working Pressure (psig)									
3	3300	4640								
4	2465	3190	4200							
6	1595	2030	2465	3190	4200					
8	1100	1450	1740	2320	2900					
10	900	1160	1450	1885	2300	2600				
12	750	870	1160	1450	1885	2030				
14		725	870	1305	1595	1740	1885	2300		
15			870	1160	1450	1595	1740	2100		
16				1015	1305	1450	1595	1740		
18				870	1160	1305	1450	1595	1885	2100
20				870	1015	1160	1305	1450	1595	1885
22				725	870	1015	1160	1305	1450	1740
25				580	725	870	1015	1160	1305	1450
28					580	725	870	1015	1160	1305

- According to the requirements of ASME B31.3(Process piping Code)
- Allowable working pressures are calculated from an S value of 6,000psi for ASTM B75 & B88 Tubing (at -20 to 100°F(-28 to 37°C))
- Safety Factor: 3.75 : 1, Ultimate tensile strength of 30,000psi
- For gas service, select a tube wall thickness outside of the shaded area.

TUBING DATA

TABLE 3: TEMPERATURE DERATING FACTORS 温度系数

Temperature		Tubing Materials	
°F	°C	Stainless Steels	Copper
100	38	1.00	1.00
200	93	1.00	0.80
300	149	1.00	0.78
400	204	0.96	0.50
500	260	0.90	-
600	315	0.85	-
700	371	0.82	-
800	426	0.79	-
900	482	0.78	-
1000	537	0.76	-
1100	593	0.62	-
1200	649	0.37	-

- To determine allowable pressure at higher temperature, multiply allowable working pressure from Table 1, 2 by factors shown in Table 3.
- For Example
 - Stainless steel tubing 1/2" O.D. X 0.049" wall at 800°F(426°C)
 - The elevated temperature factor for 800°F(426°C) is 0.79 (3,750psig X 0.79 = 2,962psig)

TABLE 4: GAS ALLOWABLE TUBING 气体用管

Stainless Steel Tubing					Copper Tubing				
Tube O.D.	Metric	Fractional			Tube O.D.	Metric	Fractional		
	Min. Nominal Wall Thickness	Tube O.D.	Min. Nominal Wall Thickness			Min. Nominal Wall Thickness	Tube O.D.	Min. Nominal Wall Thickness	
			mm	INCH				mm	INCH
3	0.8	1/8"	0.028	0.71	8	1.0	1/8"	0.028	0.71
6	0.8	3/16"	0.028	0.71	10	1.0	3/16"	0.028	0.71
8	1.0	1/4"	0.028	0.71	12	1.0	1/4"	0.028	0.71
10	1.0	5/16"	0.035	0.89	14	1.2	5/16"	0.035	0.89
12	1.0	3/8"	0.035	0.89	16	1.2	3/8"	0.035	0.89
14	1.2	1/2"	0.049	1.24	18	1.5	1/2"	0.049	1.24
16	1.5	5/8"	0.065	1.65	20	1.8	5/8"	0.065	1.65
18	1.5	3/4"	0.065	1.65	22	2.0	3/4"	0.065	1.65
20	1.8	7/8"	0.083	2.11	25	2.2	7/8"	0.083	2.11
22	2.0	1"	0.083	2.11	28	2.5	1"	0.083	2.11
25	2.2	1 1/4"	0.109	2.77					
28	2.5	1 1/2"	0.134	3.40					
32	3.0	2"	0.188	4.78					
38	3.5								

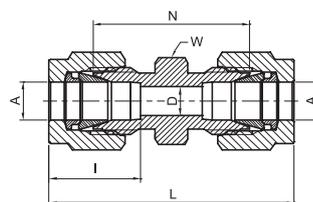
- For Gas applications, we recommend tubing with a greater wall thickness.
- Table 4 shows the recommended min thickness.
- Wall thicknesses for greater safety and efficiency

Attention!

- The value of Table 1, Table 2 are maximum allowable working pressure calculated from the tube thickness.
The maximum allowable working pressure of the fitting is limited from the value of this table according to the application regulations, and use it, please after considering the application regulations and the standard of used equipment.
- There is a possibility that the seal decreases remarkably, and consult separately, please when it is used for a long time exceeding 400°C.

UNION

TU 卡套直通接头

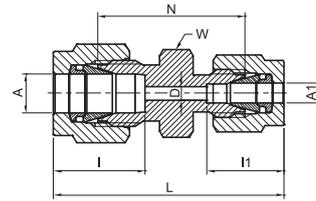


TUBE (METRIC) TO TUBE (METRIC)												
Part Number	A Tube O.D.		D		W Hex. flat		N		L		I	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
TU - 2M	2		1.7		12		22.4		35.6		12.9	
TU - 3M	3		2.4		12		22.1		35.3		12.9	
TU - 4M	4		2.4		12		24.1		37.3		13.7	
TU - 6M	6		4.8		14		26.2		41.0		15.3	
TU - 8M	8		6.4		15		28.2		43.2		16.2	
TU - 10M	10		7.9		18		31.0		46.2		17.2	
TU - 12M	12		9.5		22		31.0		51.2		22.8	
TU - 14M	14		11.1		24		31.8		52.0		22.8	
TU - 15M	15		11.9		24		31.8		52.0		24.4	
TU - 16M	16		12.7		24		31.8		52.0		24.4	
TU - 18M	18		15.1		27		33.3		53.5		24.4	
TU - 20M	20		15.9		30		34.8		55.0		26.0	
TU - 22M	22		18.3		30		34.8		55.0		26.0	
TU - 25M	25		21.8		35		40.4		65.0		31.3	
TU - 28M	28		21.8		41		43.4		85.0		36.6	
TU - 32M	32		28.6		46		51.3		97.3		42.0	
TU - 38M	38		33.7		55		58.4		113.6		49.4	
TU - 42M	42		36.0		55		64.0		126.2		55.1	

TUBE (INCH) TO TUBE (INCH)												
Part Number	A Tube O.D.		D		W Hex. flat		N		L		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TU - 1	1/16	1.58	0.05	1.27	5/16	7.9	0.69	17.52	0.99	25.14	0.34	8.6
TU - 2	1/8	3.17	0.09	2.28	7/16	11.1	0.88	22.35	1.40	35.56	0.50	12.7
TU - 3	3/16	4.76	0.12	3.04	7/16	11.1	0.95	24.13	1.47	37.33	0.54	13.7
TU - 4	1/4	6.35	0.19	4.82	1/2	12.7	1.03	26.16	1.61	40.89	0.60	15.3
TU - 5	5/16	7.93	0.25	6.35	9/16	14.3	1.11	28.2	1.69	42.90	0.64	16.3
TU - 6	3/8	9.52	0.28	7.11	5/8	15.9	1.19	30.22	1.77	44.95	0.66	16.9
TU - 8	1/2	12.70	0.41	10.41	13/16	20.6	1.22	30.98	2.02	51.30	0.90	22.9
TU - 10	5/8	15.87	0.50	12.70	15/16	23.8	1.25	31.75	2.05	52.07	0.96	24.4
TU - 12	3/4	19.05	0.62	15.74	1-1/16	27.0	1.31	33.27	2.11	53.59	0.96	24.5
TU - 14	7/8	22.22	0.72	18.28	1-3/16	30.2	1.38	35.05	2.17	55.11	1.02	25.9
TU - 16	1	25.40	0.88	22.35	1-3/8	34.9	1.59	40.38	2.55	64.77	1.23	31.2
TU - 20	1-1/4	31.75	1.09	27.70	1-3/4	44.5	1.89	48.00	3.63	92.20	1.62	41.2
TU - 24	1-1/2	38.10	1.34	34.00	2-1/8	54.0	2.11	53.60	4.25	107.95	1.97	50.0
TU - 32	2	50.80	1.81	45.97	2-3/4	69.9	2.94	74.67	5.88	149.35	2.66	67.6

REDUCING UNION

TRU 卡套变径直通接头



TUBE (METRIC) TO TUBE (METRIC)

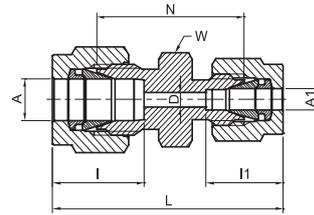
Part Number	A Tube O.D.	A1 Tube O.D.	D	W Hex. flat	N	L	I	I1
	mm	mm	mm	mm	mm	mm	mm	mm
TRU - 3M - 2M	3	2	1.7	12	22.1	35.3	12.9	12.9
TRU - 6M - 2M	6	2	1.7	14	24.6	38.6	15.9	12.9
TRU - 6M - 3M	6	3	2.4	14	24.6	38.6	15.9	12.9
TRU - 6M - 4M	6	4	2.4	14	25.4	39.4	15.9	13.7
TRU - 8M - 6M	8	6	4.8	15	27.4	42.3	16.2	15.3
TRU - 10M - 6M	10	6	4.8	18	29.5	44.5	17.2	15.3
TRU - 10M - 8M	10	8	6.4	18	30.0	45.1	17.2	16.2
TRU - 12M - 6M	12	6	4.8	22	29.5	47.0	22.8	15.3
TRU - 12M - 8M	12	8	6.4	22	30.2	47.8	22.8	16.2
TRU - 12M - 10M	12	10	7.9	22	31.0	48.7	22.8	17.2
TRU - 16M - 10M	16	10	7.9	24	31.8	49.5	24.4	17.2
TRU - 16M - 12M	16	12	9.5	24	31.8	52.0	24.4	22.8
TRU - 18M - 12M	18	12	9.5	27	33.3	53.5	24.4	22.8
TRU - 25M - 18M	25	18	15.1	35	38.6	61.0	31.3	24.4
TRU - 25M - 20M	25	20	15.9	35	39.9	62.3	31.3	26.0

TUBE (METRIC) TO TUBE (INCH)

Part Number	A Tube O.D.	A1 Tube O.D.	D	W Hex. flat	N	L	I	I1
	mm	in	mm	mm	mm	mm	mm	mm
TRU - 2M - 4	2	1/4	1.7	14	24.0	38.6	12.9	15.3
TRU - 3M - 2	3	1/8	2.4	12	22.1	35.2	12.9	12.7
TRU - 4M - 2	4	1/8	2.4	12	23.4	36.5	13.7	12.7
TRU - 4M - 4	4	1/4	2.4	14	25.4	39.4	13.7	15.3
TRU - 6M - 2	6	1/8	2.4	14	24.6	38.5	15.3	12.7
TRU - 6M - 4	6	1/4	4.8	14	26.2	41.0	15.3	15.3
TRU - 6M - 5	6	5/16	4.8	14	27.4	42.3	15.3	16.2
TRU - 8M - 2	8	1/8	2.4	15	25.9	39.9	16.2	12.7
TRU - 8M - 4	8	1/4	4.8	15	27.4	42.3	16.2	15.3
TRU - 8M - 6	8	3/8	6.4	16	29.5	44.3	16.2	16.9
TRU - 10M - 2	10	1/8	2.4	18	27.1	41.8	17.2	12.7
TRU - 10M - 4	10	1/4	4.8	18	29.5	44.5	17.2	15.3
TRU - 10M - 5	10	5/16	6.4	18	30.0	45.1	17.2	16.2
TRU - 10M - 6	10	3/8	7.1	18	31.0	45.9	17.2	16.9
TRU - 12M - 5	12	5/16	6.4	22	30.2	47.8	22.8	16.2
TRU - 12M - 6	12	3/8	7.1	22	31.0	48.4	22.8	16.9
TRU - 12M - 8	12	1/2	9.5	22	31.0	51.2	22.8	22.9
TRU - 15M - 8	15	1/2	10.3	24	31.8	52.0	24.4	22.9
TRU - 16M - 10	16	5/8	12.7	24	31.8	52.0	24.4	24.4
TRU - 18M - 12	18	3/4	15.1	27	33.3	53.5	24.4	24.5

REDUCING UNION

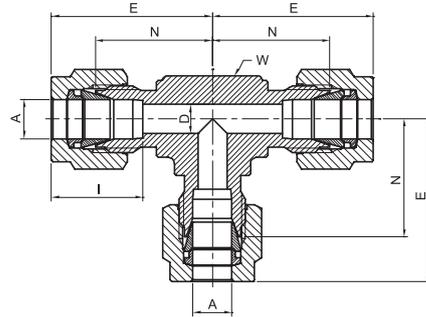
TRU 卡套变径直通接头



TUBE (INCH) TO TUBE (INCH)																
Part Number	A Tube O.D.		A1 Tube O.D.		D		W Hex. flat		N		L		I		I1	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TRU - 2 - 1	1/8	3.17	1/16	1.58	0.05	1.27	7/16	11.1	0.81	20.57	1.22	30.98	0.50	12.7	0.34	8.6
TRU - 3 - 1	3/16	4.76	1/16	1.58	0.05	1.27	7/16	11.1	0.86	21.84	1.27	32.26	0.54	13.7	0.34	8.6
TRU - 3 - 2	3/16	4.76	1/8	3.17	0.09	2.28	7/16	11.1	0.92	23.36	1.44	36.57	0.54	13.7	0.50	12.7
TRU - 4 - 1	1/4	6.35	1/16	1.58	0.05	1.27	1/2	12.7	0.91	23.11	1.35	34.29	0.60	15.3	0.34	8.6
TRU - 4 - 2	1/4	6.35	1/8	3.17	0.09	2.28	1/2	12.7	0.97	24.63	1.52	38.60	0.60	15.3	0.50	12.7
TRU - 4 - 3	1/4	6.35	3/16	4.76	0.12	3.04	1/2	12.7	1.00	25.40	1.55	37.37	0.60	15.3	0.54	13.7
TRU - 5 - 2	5/16	7.93	1/8	3.17	0.09	2.28	9/16	14.3	1.01	25.65	1.56	39.62	0.64	16.3	0.50	12.7
TRU - 5 - 4	5/16	7.93	1/4	6.35	0.19	4.82	9/16	14.3	1.08	27.43	1.66	42.16	0.64	16.3	0.60	15.3
TRU - 6 - 1	3/8	9.52	1/16	1.58	0.05	1.27	5/8	15.9	1.00	25.40	1.44	36.58	0.66	16.9	0.34	8.6
TRU - 6 - 2	3/8	9.52	1/8	3.17	0.09	2.28	5/8	15.9	1.06	26.92	1.61	40.89	0.66	16.9	0.50	12.7
TRU - 6 - 4	3/8	9.52	1/4	6.35	0.19	4.82	5/8	15.9	1.12	28.44	1.70	43.18	0.66	16.9	0.60	15.3
TRU - 6 - 5	3/8	9.52	5/16	7.93	0.25	6.35	5/8	15.9	1.16	29.46	1.74	44.19	0.66	16.9	0.64	16.3
TRU - 8 - 2	1/2	12.70	1/8	3.17	0.09	2.28	13/16	20.6	1.12	28.44	1.78	45.21	0.90	22.9	0.50	12.7
TRU - 8 - 4	1/2	12.70	1/4	6.35	0.19	4.82	13/16	20.6	1.16	29.46	1.85	46.99	0.90	22.9	0.60	15.3
TRU - 8 - 6	1/2	12.70	3/8	9.52	0.28	7.11	13/16	20.6	1.22	30.98	1.91	48.51	0.90	22.9	0.66	16.9
TRU - 10 - 6	5/8	15.87	3/8	9.52	0.28	7.11	15/16	23.8	1.25	31.75	1.94	49.27	0.96	24.4	0.66	16.9
TRU - 10 - 8	5/8	15.87	1/2	12.70	0.41	10.41	15/16	23.8	1.25	31.75	2.05	52.07	0.96	24.4	0.90	22.9
TRU - 12 - 4	3/4	19.05	1/4	6.35	0.19	4.82	1-1/16	27.0	1.25	31.75	1.94	49.28	0.96	24.5	0.60	15.3
TRU - 12 - 6	3/4	19.05	3/8	9.52	0.28	7.11	1-1/16	27.0	1.31	33.27	2.00	50.80	0.96	24.5	0.66	16.9
TRU - 12 - 8	3/4	19.05	1/2	12.70	0.41	10.41	1-1/16	27.0	1.31	33.27	2.11	53.59	0.96	24.5	0.90	22.9
TRU - 12 - 10	3/4	19.05	5/8	15.87	0.50	12.70	1-1/16	27.0	1.31	33.27	2.11	53.59	0.96	24.5	0.96	24.4
TRU - 16 - 8	1	25.40	1/2	12.70	0.41	10.41	1-3/8	34.9	1.59	40.38	2.38	60.45	1.23	31.2	0.90	22.9
TRU - 16 - 12	1	25.40	3/4	19.05	0.62	15.75	1-3/8	34.9	1.59	40.38	2.38	60.45	1.23	31.2	0.96	24.5

UNION TEE

TUT 卡套三通接头



ALL TUBE (METRIC)

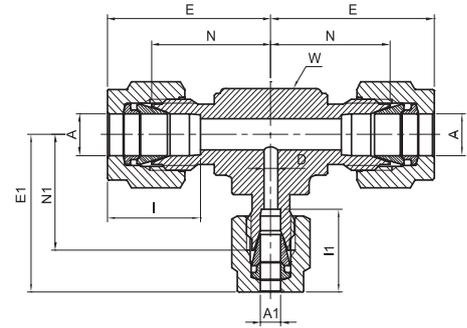
Part Number	A Tube O.D.		D		W Hex. flat		N		E		I	
	mm	mm	mm	mm	in	mm	mm	mm	mm	mm	mm	mm
TUT - 2M	2		1.7		3/8	9.5		15.7		22.3		12.9
TUT - 3M	3		2.4		3/8	9.5		15.7		22.3		12.9
TUT - 4M	4		2.4		1/2	12.7		18.8		25.4		13.7
TUT - 6M	6		4.8		1/2	12.7		19.6		27.0		15.3
TUT - 8M	8		6.4		5/8	15.9		22.4		29.9		16.2
TUT - 10M	10		7.9		11/16	17.5		23.9		31.5		17.2
TUT - 12M	12		9.5		13/16	20.6		25.9		36.0		22.8
TUT - 14M	14		11.1		15/16	23.8		28.7		38.8		24.4
TUT - 15M	15		11.9		15/16	23.8		28.7		38.8		24.4
TUT - 16M	16		12.7		15/16	23.8		28.7		38.8		24.4
TUT - 18M	18		15.1		1-1/8	28.6		29.7		39.8		24.4
TUT - 20M	20		15.9		1-3/8	34.9		34.5		44.6		26.0
TUT - 22M	22		18.3		1-3/8	34.9		34.5		44.6		26.0
TUT - 25M	25		21.8		1-3/8	34.9		36.8		49.1		31.3
TUT - 28M	28		21.8		-	41.0		43.2		64.0		36.8
TUT - 32M	32		28.6		-	46.0		49.3		72.3		42.0
TUT - 38M	38		33.7		-	55.0		56.4		84.0		49.4
TUT - 42M	42		36.0		-	55.0		58.0		89.1		55.1

ALL TUBE (INCH)

Part Number	A Tube O.D.		D		W Hex. flat		N		E		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TUT - 1	1/16	1.58	0.05	1.27	3/8	9.5	0.56	14.00	0.70	17.80	0.34	8.6
TUT - 2	1/8	3.17	0.09	2.28	3/8	9.5	0.62	15.74	0.88	22.35	0.50	12.7
TUT - 3	3/16	4.76	0.12	3.04	1/2	12.7	0.70	17.80	0.96	24.40	0.54	13.7
TUT - 4	1/4	6.35	0.19	4.82	1/2	12.7	0.77	19.60	1.06	26.90	0.60	15.3
TUT - 5	5/16	7.93	0.25	6.35	5/8	15.9	0.88	22.35	1.17	29.71	0.64	16.3
TUT - 6	3/8	9.52	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	0.66	16.9
TUT - 8	1/2	12.70	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.10	0.90	22.9
TUT - 10	5/8	15.87	0.50	12.70	15/16	23.8	1.13	28.70	1.53	38.90	0.96	24.4
TUT - 12	3/4	19.05	0.62	15.74	1-1/16	27.0	1.17	29.70	1.57	39.90	0.96	24.5
TUT - 14	7/8	22.22	0.72	18.29	1-3/8	34.9	1.36	34.54	1.76	44.70	1.02	25.9
TUT - 16	1	25.40	0.88	22.35	1-3/8	34.9	1.45	36.80	1.93	49.00	1.23	31.2
TUT - 20	1-1/4	31.75	1.09	27.70	1-11/16	42.9	1.75	44.50	2.62	66.65	1.62	41.2
TUT - 24	1-1/2	38.10	1.34	34.00	2	50.8	2.00	50.80	3.07	77.98	1.97	50.0
TUT - 32	2	50.80	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.66	67.6

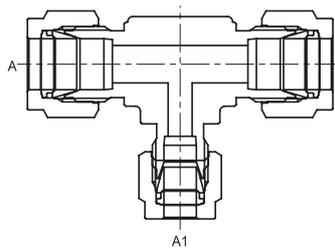
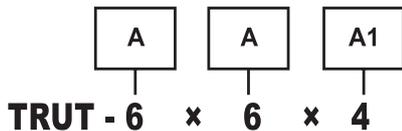
REDUCING UNION TEE

TRUT 卡套中心变径三通接头



TUBE (INCH) TO TUBE (INCH)																				
Part Number	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Hex. flat		N		N1	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TRUT - 6 - 6 - 4	3/8	9.52	1/4	6.35	1.20	30.5	1.14	29.0	0.66	16.9	0.60	15.3	0.19	4.8	5/8	15.9	0.91	23.1	0.85	21.6
TRUT - 8 - 8 - 4	1/2	12.70	1/4	6.35	1.42	36.1	1.25	31.8	0.90	22.9	0.60	15.3	0.19	4.8	13/16	20.6	1.02	25.9	0.96	24.4
TRUT - 8 - 8 - 6	1/2	12.70	3/8	9.52	1.42	36.1	1.31	33.3	0.90	22.9	0.66	16.9	0.28	7.1	13/16	20.6	1.02	25.9	1.02	25.9
TRUT - 10 - 10 - 6	5/8	15.88	3/8	9.52	1.53	38.9	1.42	36.1	0.96	24.4	0.66	16.9	0.28	7.1	15/16	23.8	1.13	28.7	1.13	28.7
TRUT - 12 - 12 - 6	3/4	19.05	3/8	9.52	1.57	39.9	1.46	37.1	0.96	24.5	0.66	16.9	0.28	7.1	1-1/16	27.0	1.17	29.7	1.17	29.7
TRUT - 12 - 12 - 8	3/4	19.05	1/2	12.70	1.57	39.9	1.57	39.9	0.96	24.5	0.90	22.9	0.41	10.4	1-1/16	27.0	1.17	29.7	1.17	29.7
TRUT - 16 - 16 - 6	1	25.4	3/8	9.52	1.93	49.0	1.65	41.9	1.23	31.2	0.66	16.9	0.28	7.1	1-3/8	34.9	1.45	36.8	1.36	34.5
TRUT - 16 - 16 - 8	1	25.4	1/2	12.70	1.93	49.0	1.76	44.7	1.23	31.2	0.90	22.9	0.41	10.4	1-3/8	34.9	1.45	36.8	1.36	34.5
TRUT - 16 - 16 - 12	1	25.4	3/4	19.05	1.93	49.0	1.76	44.7	1.23	31.2	0.96	24.5	0.62	15.8	1-3/8	34.9	1.45	36.8	1.36	34.5

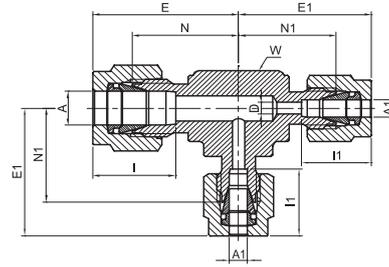
HOW TO ORDER



TUBE (INCH) TO TUBE (INCH)																				
Part Number	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Hex. flat		N		N1	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TRUT - 6 - 4 - 6	3/8	9.52	1/4	6.35	1.20	30.5	1.14	29.0	0.66	16.9	0.60	15.3	0.19	4.8	5/8	15.9	0.91	23.1	0.85	21.6

REDUCING UNION TEE

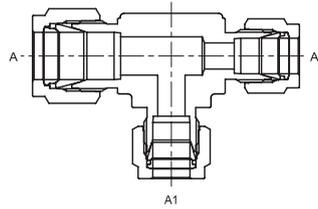
TRUT 卡套中心变径三通接头



TUBE (INCH) TO TUBE (INCH)																				
Part Number	A Tube O.D.		A1 Tube O.D.		E		E1		I		I1		D		W Hex. flat		N		N1	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TRUT - 8 - 6 - 6	1/2	12.70	3/8	9.52	1.42	36.1	1.31	33.3	0.90	22.9	0.66	16.9	0.28	7.1	13/16	20.6	1.02	25.9	1.02	25.9
TRUT - 10 - 6 - 6	5/8	15.88	3/8	9.52	1.53	38.9	1.42	36.1	0.96	24.4	0.66	16.9	0.28	7.1	15/16	23.8	1.13	28.7	1.13	28.7
TRUT - 12 - 6 - 6	3/4	19.05	3/8	9.52	1.57	39.9	1.46	37.1	0.96	24.5	0.66	16.9	0.28	7.1	1-1/16	27.0	1.17	29.7	1.17	29.7

HOW TO ORDER

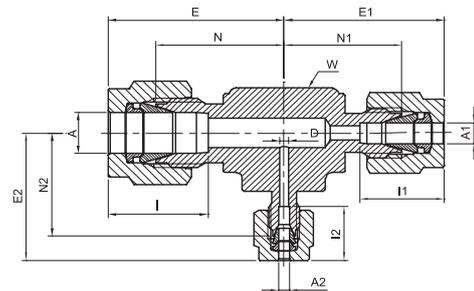
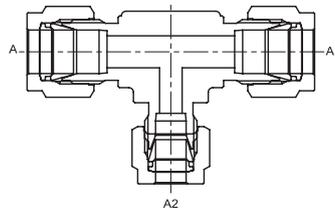
A A1 A1
TRUT - 8 × 6 × 6



TUBE (INCH) TO TUBE (INCH)																										
Part Number	A Tube O.D.		A1 Tube O.D.		A2 Tube O.D.		E		E1		E2		I		I1		I2		D		W Hex. flat		N		N1+N2	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TRUT - 10 - 8 - 6	5/8	15.88	1/2	12.7	3/8	9.52	1.53	38.9	1.53	38.9	1.42	36.1	0.96	24.4	0.9	22.9	0.66	16.9	0.28	7.1	15/16	23.8	1.13	28.7	1.13	28.7
TRUT - 12 - 8 - 6	3/4	19.05	1/2	12.7	3/8	9.52	1.57	39.9	1.57	39.9	1.46	37.1	0.96	24.5	0.9	22.9	0.66	16.9	0.28	7.1	1-1/16	27.0	1.17	29.7	1.17	29.7
TRUT - 16 - 12 - 6	1	25.4	3/4	19.05	3/8	9.52	1.93	49	1.76	44.7	1.65	41.9	1.23	31.2	0.96	24.5	0.66	16.9	0.28	7.1	1 3/8	34.9	1.45	36.8	1.36	34.5

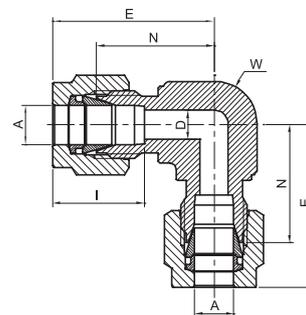
HOW TO ORDER

A A1 A2
TRUT - 10 × 8 × 6



UNION 90° ELBOW

TUE 卡套弯头



TUBE (METRIC) TO TUBE (METRIC)

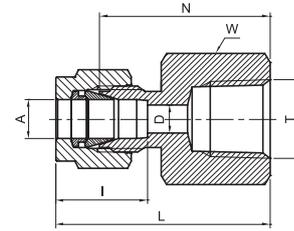
Part Number	A Tube O.D.		D		W Hex. flat		N		E		I	
	mm	mm	mm	mm	in	mm	mm	mm	mm	mm	mm	
TUE - 3M	3		2.4		3/8	9.5		15.7		22.3		12.9
TUE - 4M	4		2.4		1/2	12.7		18.8		25.4		13.7
TUE - 6M	6		4.8		1/2	12.7		19.6		27.0		15.3
TUE - 8M	8		6.4		9/16	14.3		21.3		28.8		16.2
TUE - 10M	10		7.9		11/16	17.5		23.9		31.5		17.2
TUE - 12M	12		9.5		13/16	20.6		25.9		36.0		22.8
TUE - 14M	14		11.1		15/16	23.8		27.9		38.0		24.4
TUE - 15M	15		11.9		15/16	23.8		27.9		38.0		24.4
TUE - 16M	16		12.7		15/16	23.8		27.9		38.0		24.4
TUE - 18M	18		15.1		1-1/8	28.6		29.7		39.8		24.4
TUE - 20M	20		15.9		1-3/8	34.9		34.5		44.6		26.0
TUE - 22M	22		18.3		1-3/8	34.9		34.5		44.6		26.0
TUE - 25M	25		21.8		1-3/8	34.9		36.8		49.1		31.3
TUE - 28M	28		21.8		-	41.0		43.2		64		36.6
TUE - 32M	32		28.6		-	46.0		49.3		72.3		42.0
TUE - 38M	38		33.7		-	55.0		56.4		84		49.4
TUE - 42M	42		36.0		-	55.0		58		89.1		55.1

TUBE (INCH) TO TUBE (INCH)

Part Number	A Tube O.D.		D		W Hex. flat		N		E		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TUE - 1	1/16	1.58	0.05	1.25	3/8	9.5	0.55	14.00	0.70	17.80	0.34	8.6
TUE - 2	1/8	3.17	0.09	2.28	3/8	9.5	0.62	15.74	0.88	22.35	0.50	12.7
TUE - 3	3/16	4.76	0.12	3.04	1/2	12.7	0.74	18.80	1.00	25.40	0.54	13.7
TUE - 4	1/4	6.35	0.19	4.82	1/2	12.7	0.77	19.60	1.06	26.92	0.60	15.32
TUE - 5	5/16	7.93	0.25	6.35	9/16	14.3	0.84	21.33	1.13	28.70	0.64	16.3
TUE - 6	3/8	9.52	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	0.66	16.9
TUE - 8	1/2	12.70	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.06	0.90	22.9
TUE - 10	5/8	15.87	0.50	12.70	15/16	23.8	1.10	27.94	1.50	38.10	0.96	24.4
TUE - 12	3/4	19.05	0.62	15.74	1-1/16	27.0	1.17	29.70	1.57	39.89	0.96	24.5
TUE - 14	7/8	22.22	0.72	18.28	1-3/8	34.9	1.36	34.5	1.76	44.70	1.02	25.9
TUE - 16	1	25.40	0.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.00	1.23	31.2
TUE - 20	1-1/4	31.75	1.09	27.70	1-11/16	42.9	1.75	44.50	2.62	66.55	1.62	41.2
TUE - 24	1-1/2	38.10	1.34	34.00	2	50.8	2.00	50.80	3.07	77.98	1.97	50.0
TUE - 32	2	50.80	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.66	67.6

FEMALE CONNECTOR

TFC 卡套内牙接头

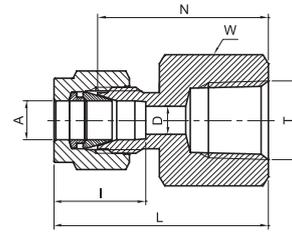


TUBE (METRIC) TO FEMALE NPT THREAD

Part Number	A Tube O.D.	T NPT	D	W Hex. flat	N	L	I
	mm	in	mm	mm	mm	mm	mm
TFC - 3M - 2N	3	1/8	2.4	14	22.1	28.7	12.7
TFC - 3M - 4N	3	1/4	2.4	19	26.9	33.5	12.7
TFC - 4M - 2N	4	1/8	2.4	14	23.1	29.7	13.7
TFC - 6M - 2N	6	1/8	4.8	14	23.9	31.3	15.3
TFC - 6M - 4N	6	1/4	4.8	19	28.4	35.8	15.3
TFC - 6M - 6N	6	3/8	4.8	22	30.2	37.6	15.3
TFC - 6M - 8N	6	1/2	4.8	27	35.1	42.5	15.3
TFC - 8M - 2N	8	1/8	6.4	15	24.6	32.1	16.2
TFC - 8M - 4N	8	1/4	6.4	19	29.5	37.0	16.2
TFC - 8M - 6N	8	3/8	6.4	22	31.0	38.5	16.2
TFC - 8M - 8N	8	1/2	6.4	27	35.8	43.3	16.2
TFC - 10M - 4N	10	1/4	7.9	19	30.2	37.8	17.2
TFC - 10M - 6N	10	3/8	7.9	22	31.8	39.4	17.2
TFC - 10M - 8N	10	1/2	7.9	27	36.6	44.2	17.2
TFC - 12M - 4N	12	1/4	9.5	22	30.2	40.3	22.8
TFC - 12M - 6N	12	3/8	9.5	22	31.8	41.9	22.8
TFC - 12M - 8N	12	1/2	9.5	27	36.6	46.7	22.8
TFC - 15M - 8N	15	1/2	11.9	27	36.6	46.7	24.4
TFC - 16M - 8N	16	1/2	12.7	27	36.8	46.9	24.4
TFC - 20M - 8N	20	1/2	15.9	30	37.8	47.9	26.0
TFC - 20M - 12N	20	3/4	15.9	35	39.6	49.7	26.0
TFC - 22M - 12N	22	3/4	18.3	35	39.6	49.7	26.0
TFC - 22M - 16N	22	1	18.3	41	47.8	57.9	26.0
TFC - 25M - 12N	25	3/4	21.8	35	41.1	53.4	31.3
TFC - 25M - 16N	25	1	21.8	41	50.0	62.3	31.3

FEMALE CONNECTOR

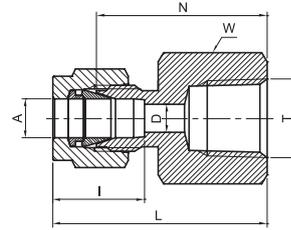
TFC 卡套内牙接头



TUBE (INCH) TO FEMALE NPT THREAD													
Part Number	A Tube O.D.		T NPT	D		W Hex. flat		N		L		I	
	in	mm		in	in	mm	in	mm	in	mm	in	mm	in
TFC - 1 - 1N	1/16	1.58	1/16	0.05	1.27	7/16	11.1	0.78	19.81	0.93	23.62	0.34	8.6
TFC - 1 - 2N	1/16	1.58	1/8	0.05	1.27	9/16	14.3	0.81	20.57	0.96	24.38	0.34	8.6
TFC - 2 - 2N	1/8	3.17	1/8	0.09	2.28	9/16	14.3	0.87	22.10	1.13	28.70	0.50	12.7
TFC - 2 - 4N	1/8	3.17	1/4	0.09	2.28	3/4	19.1	1.06	26.92	1.32	33.52	0.50	12.7
TFC - 3 - 2N	3/16	4.76	1/8	0.12	3.04	9/16	14.3	0.91	23.11	1.17	29.71	0.54	13.7
TFC - 4 - 2N	1/4	6.35	1/8	0.19	4.82	9/16	14.3	0.94	23.87	1.23	31.24	0.60	15.3
TFC - 4 - 4N	1/4	6.35	1/4	0.19	4.82	3/4	19.1	1.12	28.44	1.41	35.81	0.60	15.3
TFC - 4 - 6N	1/4	6.35	3/8	0.19	4.82	7/8	22.2	1.19	30.22	1.48	37.59	0.60	15.3
TFC - 4 - 8N	1/4	6.35	1/2	0.19	4.82	1-1/16	27.0	1.38	35.0	1.67	42.42	0.60	15.3
TFC - 5 - 2N	5/16	7.93	1/8	0.25	6.35	9/16	14.3	0.97	24.63	1.26	32.00	0.64	16.3
TFC - 5 - 4N	5/16	7.93	1/4	0.25	6.35	3/4	19.1	1.16	29.46	1.45	36.83	0.64	16.3
TFC - 6 - 2N	3/8	9.52	1/8	0.28	7.11	5/8	15.9	1.00	25.40	1.29	32.76	0.66	16.9
TFC - 6 - 4N	3/8	9.52	1/4	0.28	7.11	3/4	19.1	1.19	30.22	1.48	37.59	0.66	16.9
TFC - 6 - 6N	3/8	9.52	3/8	0.28	7.11	7/8	22.2	1.25	31.75	1.54	39.11	0.66	16.9
TFC - 6 - 8N	3/8	9.52	1/2	0.28	7.11	1-1/16	27.0	1.44	36.57	1.73	43.94	0.66	16.9
TFC - 6 - 12N	3/8	9.52	3/4	0.28	7.11	1-5/16	33.3	1.59	40.38	1.88	47.75	0.66	16.9
TFC - 8 - 4N	1/2	12.70	1/4	0.41	10.41	13/16	20.6	1.19	30.2	1.59	40.38	0.90	22.9
TFC - 8 - 6N	1/2	12.70	3/8	0.41	10.41	7/8	22.2	1.25	31.75	1.65	41.91	0.90	22.9
TFC - 8 - 8N	1/2	12.70	1/2	0.41	10.41	1-1/16	27.0	1.44	36.57	1.84	46.73	0.90	22.9
TFC - 8 - 12N	1/2	12.70	3/4	0.41	10.41	1-5/16	33.3	1.50	38.10	1.90	48.26	0.90	22.9
TFC - 10 - 6N	5/8	15.87	3/8	0.50	12.70	1-5/16	23.8	1.25	31.75	1.65	41.91	0.96	24.4
TFC - 10 - 8N	5/8	15.87	1/2	0.50	12.70	1-1/16	27.0	1.44	36.57	1.84	46.73	0.96	24.4
TFC - 10 - 12N	5/8	15.87	3/4	0.5	12.7	1-5/16	33.3	1.50	38.1	1.90	48.26	0.96	24.4
TFC - 12 - 8N	3/4	19.05	1/2	0.62	15.74	1-1/16	27.0	1.44	36.57	1.84	46.73	0.96	24.5
TFC - 12 - 12N	3/4	19.05	3/4	0.62	15.74	1-5/16	33.3	1.50	38.10	1.90	48.26	0.96	24.5
TFC - 14 - 12N	7/8	22.22	3/4	0.72	18.28	1-5/16	33.3	1.56	39.62	1.96	49.78	1.02	25.9
TFC - 16 - 12N	1	25.40	3/4	0.88	22.35	1-3/8	34.9	1.62	41.14	2.10	53.34	1.23	31.2
TFC - 16 - 16N	1	25.4	1	0.88	22.35	1-5/8	41.3	1.97	50.03	2.45	62.23	1.23	31.2
TFC - 20 - 20N	1-1/4	31.75	1-1/4	1.09	27.7	2-1/8	54	2.07	52.59	2.94	74.68	1.62	41.2
TFC - 24 - 24N	1-1/2	38.1	1-1/2	1.34	34.0	2-3/8	60.3	2.21	56.13	3.28	83.31	1.97	50.0
TFC - 32 - 32N	2	50.8	2	1.81	45.97	2-7/8	73	2.53	64.26	4.0	101.6	2.66	67.6

FEMALE CONNECTOR

TFC 卡套内牙接头

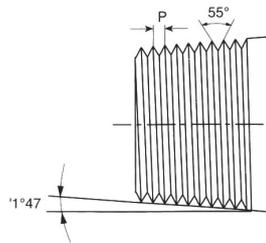


TUBE (METRIC) TO FEMALE ISO TAPERED THREAD

Part Number	A	T	D	W	N	L	I
	Tube O.D.	ISO		Hex. flat			
	mm	in	mm	mm	mm	mm	mm
TFC - 3M - 2P	3	Rc 1/8	2.4	14	22.1	28.7	12.9
TFC - 6M - 2P	6	Rc 1/8	4.8	14	23.9	31.3	15.3
TFC - 6M - 4P	6	Rc 1/4	4.8	19	28.4	35.8	15.3
TFC - 6M - 6P	6	Rc 3/8	4.8	22	30.2	37.6	15.3
TFC - 6M - 8P	6	Rc 1/2	4.8	27	35.1	42.5	15.3
TFC - 8M - 2P	8	Rc 1/8	6.4	15	24.6	32.1	16.2
TFC - 8M - 4P	8	Rc 1/4	6.4	19	29.5	37.0	16.2
TFC - 8M - 6P	8	Rc 3/8	6.4	22	31.0	38.5	16.2
TFC - 8M - 8P	8	Rc 1/2	6.4	27	35.8	43.3	16.2
TFC - 10M - 2P	10	Rc 1/8	7.9	18	25.4	33.0	17.2
TFC - 10M - 4P	10	Rc 1/4	7.9	19	30.2	37.8	17.2
TFC - 10M - 6P	10	Rc 3/8	7.9	22	31.8	39.4	17.2
TFC - 10M - 8P	10	Rc 1/2	7.9	27	36.6	44.2	17.2
TFC - 12M - 2P	12	Rc 1/8	8.3	22	25.4	35.5	22.8
TFC - 12M - 4P	12	Rc 1/4	9.5	22	30.2	40.3	22.8
TFC - 12M - 6P	12	Rc 3/8	9.5	22	31.8	41.9	22.8
TFC - 12M - 8P	12	Rc 1/2	9.5	27	36.6	46.7	22.8
TFC - 12M - 12P	12	Rc 3/4	9.5	35	38.9	49.0	22.8
TFC - 15M - 6P	15	Rc 3/8	11.9	24	31.8	41.9	24.4
TFC - 15M - 8P	15	Rc 1/2	11.9	27	36.6	46.7	24.4
TFC - 20M - 8P	20	Rc 1/2	15.9	30	37.8	47.9	24.4
TFC - 20M - 12P	20	Rc 3/4	15.9	35	39.6	49.7	26.0
TFC - 22M - 12P	22	Rc 3/4	18.3	35	39.6	49.7	26.0
TFC - 22M - 16P	22	Rc 1	18.3	41	47.8	57.9	26.0
TFC - 25M - 12P	25	Rc 3/4	21.8	35	41.1	53.4	31.3
TFC - 25M - 16P	25	Rc 1	21.8	41	50.0	62.3	31.3

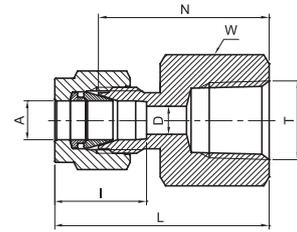
Reference Specifications :

- DIN - ISO 2999 •55° Thread angle
- BS - 21 •Truncation of root and crest are round
- JIS - B0203 •Taper angle 1° 47'



FEMALE CONNECTOR

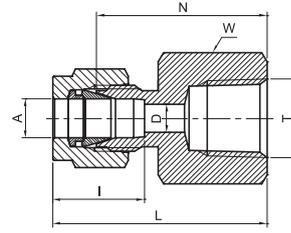
TFC 卡套内牙接头



TUBE (INCH) TO FEMALE ISO TAPERED THREAD													
Part Number	A Tube O.D.		T ISO	D		W Hex. flat		N		L		I	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm
TFC - 1 - 1P	1/16	1.58	Rc 1/16	0.05	1.27	7/16	11.1	0.78	19.81	0.93	23.62	0.34	8.6
TFC - 1 - 2P	1/16	1.58	Rc 1/8	0.05	1.27	9/16	14.3	0.81	20.57	0.96	24.38	0.34	8.6
TFC - 2 - 2P	1/8	3.17	Rc 1/8	0.09	2.28	9/16	14.3	0.87	22.10	1.13	28.70	0.50	12.7
TFC - 2 - 4P	1/8	3.17	Rc 1/4	0.09	2.28	3/4	19.1	1.06	26.92	1.32	33.52	0.50	12.7
TFC - 3 - 2P	3/16	4.76	Rc 1/8	0.12	3.04	9/16	14.3	0.91	23.11	1.17	29.71	0.54	13.7
TFC - 4 - 2P	1/4	6.35	Rc 1/8	0.19	4.82	9/16	14.3	0.94	23.87	1.23	31.24	0.60	15.3
TFC - 4 - 4P	1/4	6.35	Rc 1/4	0.19	4.82	3/4	19.1	1.12	28.44	1.41	35.81	0.60	15.3
TFC - 4 - 6P	1/4	6.35	Rc 3/8	0.19	4.82	7/8	22.2	1.19	30.22	1.48	37.59	0.60	15.3
TFC - 4 - 8P	1/4	6.35	Rc 1/2	0.19	4.82	1-1/16	27.0	1.38	35.0	1.67	42.42	0.60	15.3
TFC - 5 - 2P	5/16	7.93	Rc 1/8	0.25	6.35	9/16	14.3	0.97	24.63	1.26	32.00	0.64	16.3
TFC - 5 - 4P	5/16	7.93	Rc 1/4	0.25	6.35	3/4	19.1	1.16	29.46	1.45	36.83	0.64	16.3
TFC - 6 - 2P	3/8	9.52	Rc 1/8	0.28	7.11	5/8	15.9	1.00	25.40	1.29	32.76	0.66	16.9
TFC - 6 - 4P	3/8	9.52	Rc 1/4	0.28	7.11	3/4	19.1	1.19	30.22	1.48	37.59	0.66	16.9
TFC - 6 - 6P	3/8	9.52	Rc 3/8	0.28	7.11	7/8	22.2	1.25	31.75	1.54	39.11	0.66	16.9
TFC - 6 - 8P	3/8	9.52	Rc 1/2	0.28	7.11	1-1/16	27.0	1.44	36.57	1.73	43.94	0.66	16.9
TFC - 6 - 12P	3/8	9.52	Rc 3/4	0.28	7.11	1-5/16	33.3	1.59	40.38	1.88	47.75	0.66	16.9
TFC - 8 - 4P	1/2	12.70	Rc 1/4	0.41	10.41	13/16	20.6	1.19	30.2	1.59	40.38	0.90	22.9
TFC - 8 - 6P	1/2	12.70	Rc 3/8	0.41	10.41	7/8	22.2	1.25	31.75	1.65	41.91	0.90	22.9
TFC - 8 - 8P	1/2	12.70	Rc 1/2	0.41	10.41	1-1/16	27.0	1.44	36.57	1.84	46.73	0.90	22.9
TFC - 8 - 12P	1/2	12.70	Rc 3/4	0.41	10.41	1-5/16	33.3	1.50	38.10	1.90	48.26	0.90	22.9
TFC - 10 - 6P	5/8	15.87	Rc 3/8	0.50	12.70	1-5/16	23.8	1.25	31.75	1.65	41.91	0.96	24.4
TFC - 10 - 8P	5/8	15.87	Rc 1/2	0.50	12.70	1-1/16	27.0	1.44	36.57	1.84	46.73	0.96	24.4
TFC - 10 - 12P	5/8	15.87	Rc 3/4	0.5	12.7	1-5/16	33.3	1.50	38.1	1.90	48.26	0.96	24.4
TFC - 12 - 8P	3/4	19.05	Rc 1/2	0.62	15.74	1-1/16	27.0	1.44	36.57	1.84	46.73	0.96	24.5
TFC - 12 - 12P	3/4	19.05	Rc 3/4	0.62	15.74	1-5/16	33.3	1.50	38.10	1.90	48.26	0.96	24.5
TFC - 14 - 12P	7/8	22.22	Rc 3/4	0.72	18.28	1-5/16	33.3	1.56	39.62	1.96	49.78	1.02	25.9
TFC - 16 - 12P	1	25.40	Rc 3/4	0.88	22.35	1-3/8	34.9	1.62	41.14	2.10	53.34	1.23	31.2
TFC - 16 - 16P	1	25.40	Rc 1	0.88	22.35	1-3/8	41.3	1.97	50.03	2.45	62.23	1.23	31.2
TFC - 20 - 20P	1-1/4	31.75	Rc 1-1/4	1.09	27.7	2-1/8	54.0	2.07	52.59	2.94	74.68	1.62	41.2
TFC - 24 - 24P	1-1/2	38.1	Rc 1-1/2	1.34	34.0	2-3/8	60.3	2.21	56.13	3.28	83.31	1.97	50.0
TFC - 32 - 32P	2	50.8	Rc 2	1.81	45.97	2-7/8	73.0	2.53	64.26	4.0	101.6	2.66	67.6

FEMALE CONNECTOR

TFC 卡套内牙接头



TUBE(METRIC) TO FEMALE ISO PARALLEL THREAD

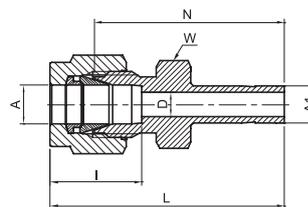
Part Number	A Tube O.D.		T ISO	D		W Hex. Flat		N		L		I	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
TFC-6M-4G	6		G 1/4	4.8		19		32.0		39.4		15.3	
TFC-6M-6G	6		G 3/8	4.8		22		33.8		41.2		15.3	
TFC-8M-6G	8		G 3/8	6.4		22		34.6		42.1		16.2	
TFC-8M-8G	8		G 1/2	6.4		27		30.6		46.9		16.2	
TFC-10M-8G	10		G 1/2	7.9		27		40.2		47.8		17.2	
TFC-12M-8G	12		G 1/2	9.5		27		40.2		50.3		22.8	
TFC-12M-12G	12		G 3/4	9.5		35		40.5		50.6		22.8	

TUBE(INCH) TO FEMALE ISO PARALLEL THREAD

	A Tube O.D.		T ISO	D		W Hex. Flat		N		L		I	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm
TFC-2-2G	1/8	3.17	G 1/8	0.09	2.28	9/16	14.3	0.96	24.3	1.22	30.90	0.5	12.7
TFC-2-4G	1/8	3.17	G 1/4	0.09	2.28	3/4	19.1	1.20	30.52	1.46	37.12	0.5	12.7
TFC-4-4G	1/4	6.35	G 1/4	0.19	4.82	3/4	19.1	1.26	32.04	1.55	39.41	0.6	15.3
TFC-4-6G	1/4	6.35	G 3/8	0.19	4.82	7/8	22.2	1.33	33.82	1.62	41.19	0.6	15.3
TFC-6-6G	3/8	9.52	G 3/8	0.28	7.11	7/8	22.2	1.39	35.35	1.68	42.71	0.66	16.9
TFC-6-8G	3/8	9.52	G 1/2	0.28	7.11	1-1/16	27.0	1.58	40.17	1.68	42.71	0.66	16.9
TFC-8-8G	1/2	12.7	G 1/2	0.41	10.41	1-1/16	27.0	1.58	40.17	1.98	50.33	0.90	22.9
TFC-8-12G	1/2	12.7	G 3/4	0.41	10.41	1-5/16	33.3	1.64	41.7	2.04	51.86	0.9	22.9
TFC-12-12G	3/4	19.05	G 3/4	0.62	15.74	1-5/16	33.3	1.64	41.7	2.04	51.86	0.96	24.5
TFC-16-16G	1	25.4	G 1	0.88	22.35	1-3/8	41.3	2.03	51.63	2.51	63.83	1.23	31.2

REDUCER

TR 卡套转卡套管直通

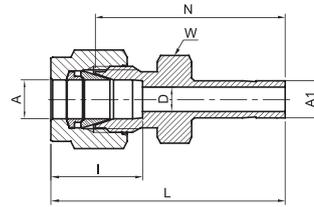


TUBE (METRIC) TO STUB (METRIC)

Part Number	A	A1	D	W Hex. flat	N	L	I
	Tube O.D.	Tube O.D.					
	mm	mm	mm	mm	mm	mm	mm
TR - 2M - 3M	2	3	1.7	12	26.9	33.5	12.9
TR - 3M - 4M	3	4	2.4	12	28.4	35.0	12.9
TR - 3M - 6M	3	6	2.4	12	29.5	36.1	12.9
TR - 3M - 10M	3	10	2.4	14	31.8	38.4	12.9
TR - 4M - 6M	4	6	2.4	12	30.5	37.1	13.7
TR - 6M - 3M	6	3	1.8	14	29.5	36.9	15.3
TR - 6M - 8M	6	8	4.8	14	32.5	39.9	15.3
TR - 6M - 10M	6	10	4.8	14	33.3	40.7	15.3
TR - 6M - 12M	6	12	4.8	14	38.9	46.3	15.3
TR - 6M - 18M	6	18	4.8	22	42.2	49.6	15.3
TR - 8M - 6M	8	6	4.0	15	32.8	40.3	16.2
TR - 8M - 10M	8	10	6.4	15	34.5	42.0	16.2
TR - 8M - 12M	8	12	6.4	15	40.1	47.6	16.2
TR - 10M - 6M	10	6	4.0	18	34.8	42.4	17.2
TR - 10M - 8M	10	8	5.6	18	35.8	43.4	17.2
TR - 10M - 12M	10	12	7.9	18	42.2	49.8	17.2
TR - 10M - 15M	10	15	7.9	18	43.7	51.3	17.2
TR - 10M - 18M	10	18	7.9	22	43.7	51.3	17.2
TR - 12M - 6M	12	6	4.0	22	34.8	44.9	22.8
TR - 12M - 10M	12	10	7.7	22	36.6	46.7	22.8
TR - 12M - 16M	12	16	9.5	22	43.7	53.8	22.8
TR - 12M - 18M	12	18	9.5	22	43.7	53.8	22.8
TR - 12M - 20M	12	20	9.5	22	46.0	56.1	22.8
TR - 12M - 22M	12	22	9.5	24	46.0	46.1	22.8
TR - 12M - 25M	12	25	9.5	27	52.3	62.4	22.8
TR - 16M - 12M	16	12	9.1	24	42.9	53.0	24.4
TR - 18M - 12M	18	12	9.1	27	44.5	54.6	24.4
TR - 18M - 16M	18	16	12.7	27	46.0	56.1	24.4
TR - 18M - 20M	18	20	15.1	27	47.5	57.6	24.4
TR - 18M - 22M	18	22	15.1	27	47.5	57.6	24.4
TR - 18M - 25M	18	25	15.1	27	52.3	62.4	24.4
TR - 20M - 16M	20	16	12.7	30	47.8	57.9	26.0
TR - 20M - 18M	20	18	13.9	30	47.8	57.9	26.0
TR - 20M - 22M	20	22	15.8	30	49.3	59.4	26.0
TR - 20M - 25M	20	25	15.9	30	54.1	64.2	26.0
TR - 22M - 18M	22	18	13.9	30	47.8	57.9	26.0
TR - 22M - 20M	22	20	15.1	30	49.3	59.4	26.0
TR - 22M - 25M	22	25	18.3	30	54.1	64.2	26.0
TR - 25M - 18M	25	18	13.9	35	50.8	63.1	31.3
TR - 25M - 20M	25	20	15.1	35	52.3	64.6	31.3

REDUCER

TR 卡套转卡套管直通接头



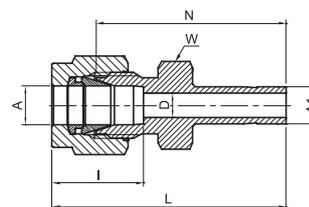
TUBE (METRIC) TO STUB (INCH)

Part Number	A Tube O.D.	A1 Tube O.D.	D	W Hex. flat	N	L	I
	mm	in	mm	mm	mm	mm	mm
TR - 2M - 2	2	1/8	1.7	12	26.9	33.5	12.9
TR - 3M - 2	3	1/8	2.0	12	26.9	33.5	12.9
TR - 3M - 4	3	1/4	2.4	12	29.5	36.1	12.9
TR - 4M - 4	4	1/4	2.4	12	30.5	37.1	13.7
TR - 6M - 2	6	1/8	2.2	14	29.5	36.9	15.3
TR - 6M - 5	6	5/16	4.8	14	32.5	39.9	15.3
TR - 6M - 6	6	3/8	4.8	14	33.3	40.7	15.3
TR - 6M - 8	6	1/2	4.8	14	38.9	46.3	15.3
TR - 8M - 6	8	3/8	6.4	15	34.5	42.0	16.2
TR - 8M - 8	8	1/2	6.4	15	40.1	47.6	16.2
TR - 10M - 6	10	3/8	7.1	18	36.6	44.2	17.2
TR - 10M - 8	10	1/2	7.9	18	42.2	49.8	17.2
TR - 12M - 8	12	1/2	9.5	22	42.2	52.3	22.8
TR - 12M - 12	12	3/4	9.5	22	43.7	53.8	22.8
TR - 18M - 12	18	3/4	15.1	27	46.0	56.1	24.4
TR - 18M - 16	18	1	15.1	27	52.3	62.4	24.4
TR - 25M - 16	25	1	20.2	35	57.2	69.4	31.3



REDUCER

TR 卡套转卡套管直通

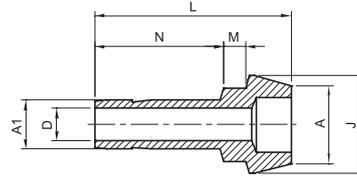


TUBE (INCH) TO STUB (INCH)

Part Number	A Tube O.D.		A1 Tube O.D.		D		W Hex. flat		N		L		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TR - 1 - 2	1/16	1.58	1/8	3.17	0.05	1.27	5/16	7.9	1.00	25.40	1.15	29.21	0.34	8.6
TR - 1 - 4	1/16	1.58	1/4	6.35	0.05	1.27	5/16	7.9	1.09	27.68	1.24	31.50	0.34	8.6
TR - 2 - 1	1/8	3.17	1/16	1.58	0.03	0.76	7/16	11.1	0.88	22.35	1.14	28.96	0.50	12.7
TR - 2 - 3	1/8	3.17	3/16	4.76	0.09	2.28	7/16	11.1	1.09	27.68	1.35	34.29	0.50	12.7
TR - 2 - 4	1/8	3.17	1/4	6.35	0.09	2.28	7/16	11.1	1.16	29.46	1.42	36.06	0.50	12.7
TR - 2 - 6	1/8	3.17	3/8	9.52	0.09	2.28	7/16	11.1	1.22	30.98	1.48	37.59	0.50	12.7
TR - 2 - 8	1/8	3.17	1/2	12.70	0.09	2.28	9/16	14.3	1.48	37.59	1.74	44.20	0.50	12.7
TR - 3 - 2	3/16	4.76	1/8	3.17	0.08	2.03	7/16	11.1	1.11	28.19	1.37	34.80	0.54	13.7
TR - 3 - 4	3/16	4.76	1/4	6.35	0.12	3.04	7/16	11.1	1.20	30.48	1.46	37.08	0.60	13.7
TR - 4 - 2	1/4	6.35	1/8	3.17	0.08	2.03	1/2	12.7	1.16	29.46	1.45	36.83	0.60	15.3
TR - 4 - 3	1/4	6.35	3/16	4.76	0.12	3.04	1/2	12.7	1.19	30.22	1.48	37.59	0.60	15.3
TR - 4 - 4	1/4	6.35	1/4	6.35	0.17	4.20	1/2	12.7	1.25	31.75	1.54	39.11	0.60	15.3
TR - 4 - 5	1/4	6.35	5/16	7.93	0.19	4.82	1/2	12.7	1.28	32.51	1.57	39.87	0.60	15.3
TR - 4 - 6	1/4	6.35	3/8	9.52	0.19	4.82	1/2	12.7	1.31	33.27	1.60	40.64	0.60	15.3
TR - 4 - 8	1/4	6.35	1/2	12.70	0.19	4.82	9/16	14.3	1.53	38.86	1.82	46.22	0.60	15.3
TR - 4 - 10	1/4	6.35	5/8	7.93	0.19	4.82	11/16	17.5	1.60	40.64	1.89	48.00	0.60	15.3
TR - 4 - 12	1/4	6.35	3/4	19.05	0.19	4.82	13/16	20.6	1.59	40.39	1.88	47.75	0.60	15.3
TR - 5 - 6	5/16	7.93	3/8	9.52	0.25	6.35	9/16	14.3	1.36	34.54	1.65	41.91	0.64	16.3
TR - 5 - 8	5/16	7.93	1/2	12.70	0.25	6.35	9/16	14.3	1.58	40.13	1.87	47.49	0.64	16.3
TR - 6 - 4	3/8	9.52	1/4	6.35	0.17	4.20	5/8	15.9	1.34	34.03	1.63	41.40	0.66	16.9
TR - 6 - 6	3/8	9.52	3/8	9.52	0.28	7.11	5/8	15.9	1.41	35.81	1.70	43.18	0.66	16.9
TR - 6 - 8	3/8	9.52	1/2	12.70	0.28	7.11	5/8	15.9	1.62	41.14	1.91	48.51	0.66	16.9
TR - 6 - 10	3/8	9.52	5/8	15.87	0.28	7.11	11/16	17.5	1.69	42.92	1.98	50.29	0.66	16.9
TR - 6 - 12	3/8	9.52	3/4	19.05	0.28	7.11	13/16	20.6	1.69	42.92	1.98	50.29	0.66	16.9
TR - 8 - 4	1/2	12.70	1/4	6.35	0.19	4.82	13/16	20.6	1.37	34.80	1.77	44.96	0.90	22.9
TR - 8 - 6	1/2	12.70	3/8	9.52	0.28	7.11	13/16	20.6	1.44	36.58	1.84	46.74	0.90	22.9
TR - 8 - 8	1/2	12.70	1/2	12.70	0.39	9.91	13/16	20.6	1.66	42.16	2.06	52.32	0.90	22.9
TR - 8 - 10	1/2	12.70	5/8	15.87	0.41	10.41	13/16	20.6	1.72	43.68	2.12	53.84	0.90	22.9
TR - 8 - 12	1/2	12.70	3/4	19.05	0.41	10.41	13/16	20.6	1.72	43.68	2.12	53.84	0.90	22.9
TR - 8 - 16	1/2	12.70	1	25.40	0.41	10.41	1-1/16	27.0	1.97	50.03	2.37	60.19	0.90	22.9
TR - 10 - 12	5/8	15.87	3/4	19.05	0.50	12.70	1-5/16	23.8	1.75	44.45	2.15	54.61	0.96	24.4
TR - 10 - 14	5/8	15.87	7/8	22.22	0.50	12.70	1-5/16	23.8	1.81	45.97	2.21	56.13	0.96	24.4
TR - 10 - 16	5/8	15.87	1	25.40	0.50	12.70	1-1/16	27.0	2.00	50.80	2.40	60.96	0.96	24.4
TR - 12 - 8	3/4	19.05	1/2	12.70	0.39	9.91	1-1/16	27.0	1.75	44.45	2.15	54.61	0.96	24.5
TR - 12 - 16	3/4	19.05	1	25.40	0.62	15.75	1-1/16	27.0	2.06	52.32	2.46	62.48	0.96	24.5
TR - 16 - 20	1	25.40	1-1/4	31.75	0.88	22.35	1-3/8	34.9	2.69	68.33	3.17	80.52	1.23	31.2
TR - 16 - 24	1	25.40	1-1/2	38.10	0.88	22.35	1-5/8	41.3	3.03	76.96	3.51	89.15	1.23	31.2
TR - 20 - 24	1-1/4	31.75	1-1/2	38.10	1.09	27.70	1-3/4	44.5	3.23	82.00	4.10	104.1	1.62	41.2

REDUCING PORT CONNECTOR

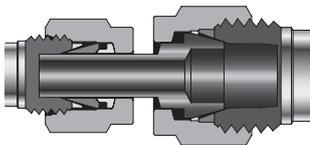
TRPC 卡套管变径连接器



CONNECTS TWO T-LOK PORTS (METRIC)									
Part Number	A Tube O.D.		A1 Tube O.D.		D	N	L	J	M
	mm	mm	mm	mm	mm	mm	mm	mm	mm
TRPC - 6M - 3M	6	3	2.1	13.5	22.9	9.0	3.2		
TRPC - 8M - 6M	8	6	4.0	15.7	24.7	11.0	3.1		
TRPC - 10M - 6M	10	6	4.0	15.7	25.8	13.1	3.4		
TRPC - 10M - 8M	10	8	5.6	16.8	26.1	13.1	3.1		
TRPC - 12M - 6M	12	6	4.0	15.7	29.1	15.0	3.6		
TRPC - 12M - 8M	12	8	5.6	16.8	30.1	15.0	3.4		
TRPC - 12M - 10M	12	10	7.1	17.5	30.6	15.0	3.1		
TRPC - 16M - 10M	16	10	8.8	23.1	37.5	19.0	3.4		

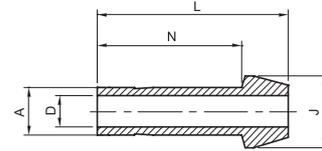
CONNECTS TWO T-LOK PORTS (INCH)														
Part Number	A Tube O.D.		A1 Tube O.D.		D		N		L		J		M	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TRPC - 2 - 1	1/8	3.17	1/16	1.58	0.03	0.75	0.36	9.14	0.72	18.3	0.24	6.15	0.10	2.56
TRPC - 4 - 1	1/4	6.35	1/16	1.58	0.03	0.75	0.36	9.14	0.75	19.05	0.37	9.40	0.15	3.81
TRPC - 4 - 2	1/4	6.35	1/8	3.17	0.09	2.20	0.54	13.71	0.90	22.86	0.37	9.40	0.12	3.05
TRPC - 6 - 2	3/8	9.52	1/8	3.17	0.09	2.20	0.54	13.71	0.92	23.37	0.50	12.7	0.15	3.76
TRPC - 6 - 4	3/8	9.52	1/4	6.35	0.17	4.20	0.64	16.26	1.00	25.4	0.50	12.7	0.13	3.24
TRPC - 8 - 4	1/2	12.70	1/4	6.35	0.17	4.20	0.64	16.26	1.17	29.72	0.62	15.8	0.14	3.66
TRPC - 8 - 6	1/2	12.70	3/8	9.52	0.27	6.85	0.70	17.78	1.21	30.73	0.62	15.8	0.12	3.15
TRPC - 12 - 8	3/4	19.05	1/2	12.70	0.37	9.40	0.96	24.38	1.49	37.85	0.87	22.1	0.15	3.87

Reducing port connector TRPC



PORT CONNECTOR

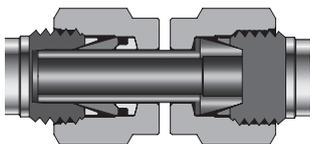
TPC 卡套管连接器



CONNECTS TWO T-LOK PORTS (METRIC)										
Part Number	A Tube O.D.		D		N		L		J	
	mm	in	in	mm	mm	mm	mm	mm	mm	
TPC - 3M	3		2.1		15.7		22.2		6.0	
TPC - 6M	6		4.0		18.7		25.0		9.0	
TPC - 8M	8		6.0		20.0		25.9		11.0	
TPC - 10M	10		7.1		20.2		27.1		13.1	
TPC - 12M	12		8.8		26.0		36.2		15.0	
TPC - 16M	16		12.7		27.6		37.4		19.0	
TPC - 18M	18		13.9		27.6		37.4		21.1	

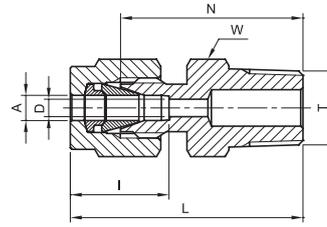
CONNECTS TWO T-LOK PORTS (INCH)										
Part Number	A Tube O.D.		D		N		L		J	
	in	mm	in	mm	in	mm	in	mm	in	mm
TPC - 1	1/16	1.58	0.03	0.75	0.42	10.72	0.54	13.72	0.13	3.30
TPC - 2	1/8	3.17	0.09	2.20	0.62	15.75	0.88	22.35	0.24	6.15
TPC - 4	1/4	6.35	0.17	4.20	0.74	18.80	0.98	24.9	0.37	9.40
TPC - 5	5/16	7.93	0.24	6.00	0.79	20.11	1.02	25.91	0.43	11.00
TPC - 6	3/8	9.52	0.27	6.85	0.82	20.77	1.05	26.67	0.50	12.70
TPC - 8	1/2	12.70	0.37	9.40	1.04	26.52	1.43	36.32	0.62	15.80
TPC - 12	3/4	19.05	0.59	15.00	1.11	28.25	1.49	37.85	0.87	22.10
TPC - 16	1	25.40	0.80	20.30	1.40	35.68	1.94	49.28	1.12	28.50

Port connector TPC



MALE CONNECTOR

TMC-N 卡套外牙直通接头

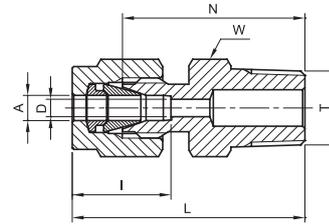


TUBE (METRIC) MALE NPT THREAD

Part Number	A	T	D	W	N	L	I
	Tube O.D.	NPT					
	mm	in	mm	Hex. flat mm	mm	mm	mm
TMC - 3M - 2N	3	1/8	2.4	12	23.9	30.5	12.9
TMC - 3M - 4N	3	1/4	2.4	14	29.0	35.6	12.9
TMC - 4M - 2N	4	1/8	2.4	14	24.6	31.2	13.7
TMC - 4M - 4N	4	1/4	2.4	14	29.7	36.3	13.7
TMC - 6M - 2N	6	1/8	4.8	14	25.4	32.8	15.3
TMC - 6M - 4N	6	1/4	4.8	14	30.5	37.9	15.3
TMC - 6M - 6N	6	3/8	4.8	18	31.0	38.4	15.3
TMC - 6M - 8N	6	1/2	4.8	22	37.3	44.7	15.3
TMC - 8M - 2N	8	1/8	4.8	15	26.7	34.2	16.2
TMC - 8M - 4N	8	1/4	6.4	15	31.2	38.7	16.2
TMC - 8M - 6N	8	3/8	6.4	18	31.8	39.3	16.2
TMC - 8M - 8N	8	1/2	6.4	22	38.1	45.6	16.2
TMC - 10M - 2N	10	1/8	4.8	18	28.7	36.3	17.2
TMC - 10M - 4N	10	1/4	7.9	18	33.3	40.9	17.2
TMC - 10M - 6N	10	3/8	7.9	18	33.3	40.9	17.2
TMC - 10M - 8N	10	1/2	7.9	22	38.9	46.5	17.2
TMC - 10M - 12N	10	3/4	7.9	27	40.4	48.0	17.2
TMC - 12M - 2N	12	1/8	4.8	22	28.7	38.3	22.8
TMC - 12M - 4N	12	1/4	7.1	22	33.3	43.4	22.8
TMC - 12M - 6N	12	3/8	9.5	22	33.3	43.4	22.8
TMC - 12M - 8N	12	1/2	9.5	22	38.9	49.0	22.8
TMC - 12M - 12N	12	3/4	9.5	27	40.4	50.5	22.8
TMC - 14M - 4N	14	1/4	7.1	24	34.0	44.1	24.4
TMC - 14M - 6N	14	3/8	9.5	24	34.0	44.1	24.4
TMC - 14M - 8N	14	1/2	11.1	24	38.9	49.0	24.4
TMC - 15M - 8N	15	1/2	11.9	24	38.9	49.0	24.4
TMC - 16M - 6N	16	3/8	9.5	24	34.0	44.1	24.4
TMC - 16M - 8N	16	1/2	11.9	24	38.9	49.0	24.4
TMC - 16M - 12N	16	3/4	12.7	27	40.4	50.5	24.4
TMC - 18M - 8N	18	1/2	11.9	27	40.4	50.5	24.4
TMC - 18M - 12N	18	3/4	15.1	27	40.4	50.5	24.4
TMC - 20M - 8N	20	1/2	11.9	30	42.2	52.3	26.0
TMC - 20M - 12N	20	3/4	15.9	30	42.2	52.3	26.0
TMC - 22M - 12N	22	3/4	15.9	30	42.2	52.3	26.0
TMC - 22M - 16N	22	1	18.3	35	47.0	57.1	26.0
TMC - 25M - 8N	25	1/2	11.9	35	45.2	57.5	31.3
TMC - 25M - 12N	25	3/4	15.9	35	45.2	57.5	31.3
TMC - 25M - 16N	25	1	21.8	35	50	62.3	31.3
TMC - 28M - 16N	28	1	21.8	41	51.6	72.4	36.6
TMC - 28M - 20N	28	1-1/4	21.8	46	52.3	73.1	36.6
TMC - 32M - 20N	32	1-1/4	28.6	46	56.6	79.6	42.0
TMC - 32M - 24N	32	1-1/2	33.7	50	58.1	91.6	49.4

MALE CONNECTOR

TMC-N 卡套外牙直通接头



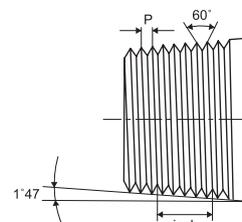
TUBE (INCH) MALE NPT THREAD													
Part Number	A Tube O.D.		T NPT	D		W Hex. flat		N		L		I	
	in	mm		in	in	mm	in	mm	in	mm	in	mm	in
TMC - 1 - 1N	1/16	1.58	1/16	0.05	1.27	5/16	7.9	0.79	20	0.94	23.83	0.34	8.6
TMC - 1 - 2N	1/16	1.58	1/8	0.05	1.27	7/16	11.1	0.88	22.35	1.03	26.10	0.34	8.6
TMC - 1 - 4N	1/16	1.58	1/4	0.05	1.27	9/16	14.3	1.07	27.17	1.22	30.98	0.34	8.6
TMC - 2 - 1N	1/8	3.17	1/16	0.09	2.28	7/16	11.1	0.91	23.11	1.17	29.71	0.50	12.7
TMC - 2 - 2N	1/8	3.17	1/8	0.09	2.28	7/16	11.1	0.94	23.90	1.20	30.48	0.50	12.7
TMC - 2 - 4N	1/8	3.17	1/4	0.09	2.28	9/16	14.3	1.14	28.95	1.40	35.56	0.50	12.7
TMC - 2 - 6N	1/8	3.17	3/8	0.09	2.28	11/16	17.5	1.15	29.21	1.41	35.81	0.50	12.7
TMC - 2 - 8N	1/8	3.17	1/2	0.09	2.28	7/8	22.2	1.40	35.56	1.66	42.16	0.50	12.7
TMC - 3 - 2N	3/16	4.76	1/8	0.12	3.04	7/16	11.1	0.97	24.63	1.23	31.24	0.54	13.7
TMC - 3 - 4N	3/16	4.76	1/4	0.12	3.04	9/16	14.3	1.17	29.72	1.43	36.32	0.54	13.7
TMC - 4 - 1N	1/4	6.35	1/16	0.19	4.82	1/2	12.7	1.00	25.4	1.29	32.76	0.60	15.3
TMC - 4 - 2N	1/4	6.35	1/8	0.19	4.82	1/2	12.7	1.00	25.40	1.29	32.76	0.60	15.3
TMC - 4 - 4N	1/4	6.35	1/4	0.19	4.82	9/16	14.3	1.20	30.50	1.49	37.85	0.60	15.3
TMC - 4 - 6N	1/4	6.35	3/8	0.19	4.82	11/16	17.5	1.22	31.00	1.51	38.35	0.60	15.3
TMC - 4 - 8N	1/4	6.35	1/2	0.19	4.82	7/8	22.2	1.47	37.34	1.76	44.70	0.60	15.3
TMC - 4 - 12N	1/4	6.35	3/4	0.19	4.82	1-1/16	27	1.53	38.86	1.82	46.22	0.60	15.3
TMC - 5 - 2N	5/16	7.93	1/8	0.19	4.82	9/16	14.3	1.05	26.67	1.34	34.03	0.64	16.2
TMC - 5 - 4N	5/16	7.93	1/4	0.25	6.35	9/16	14.3	1.23	31.24	1.52	38.60	0.64	16.2
TMC - 5 - 6N	5/16	7.93	3/8	0.25	6.35	11/16	17.5	1.25	31.75	1.54	39.11	0.64	16.2
TMC - 6 - 2N	3/8	9.52	1/8	0.19	4.82	5/8	15.9	1.10	27.90	1.39	35.30	0.66	16.9
TMC - 6 - 4N	3/8	9.52	1/4	0.28	7.11	5/8	15.9	1.28	32.51	1.57	39.87	0.66	16.9
TMC - 6 - 6N	3/8	9.52	3/8	0.28	7.11	11/16	17.5	1.28	32.51	1.57	39.87	0.66	16.9
TMC - 6 - 8N	3/8	9.52	1/2	0.28	7.11	7/8	22.2	1.52	38.90	1.82	46.23	0.66	16.9
TMC - 6 - 12N	3/8	9.52	3/4	0.28	7.11	1-1/16	27.0	1.59	40.38	1.88	47.75	0.66	16.9
TMC - 8 - 2N	1/2	12.70	1/8	0.19	4.82	13/16	20.6	1.13	28.70	1.53	38.86	0.90	22.9
TMC - 8 - 4N	1/2	12.70	1/4	0.28	7.11	13/16	20.6	1.31	33.27	1.71	43.43	0.90	22.9
TMC - 8 - 6N	1/2	12.70	3/8	0.38	9.65	13/16	20.6	1.31	33.27	1.71	43.43	0.90	22.9
TMC - 8 - 8N	1/2	12.70	1/2	0.41	10.41	7/8	22.2	1.53	38.90	1.93	49.02	0.90	22.9
TMC - 8 - 12N	1/2	12.70	3/4	0.41	10.41	1-1/16	27.0	1.59	40.38	1.99	50.54	0.90	22.9
TMC - 8 - 16N	1/2	12.70	1	0.41	10.41	1-3/8	34.9	1.85	47.00	2.25	57.15	0.90	22.9
TMC - 10 - 6N	5/8	15.87	3/8	0.38	9.65	15/16	23.8	1.34	34.03	1.74	44.19	0.96	24.4
TMC - 10 - 8N	5/8	15.87	1/2	0.47	11.90	15/16	23.8	1.53	38.86	1.93	49.02	0.96	24.4
TMC - 10 - 12N	5/8	15.87	3/4	0.50	12.70	1-1/16	27.0	1.59	40.38	1.99	50.54	0.96	24.4
TMC - 12 - 8N	3/4	19.05	1/2	0.50	12.70	1-1/16	27.0	1.59	40.38	1.99	50.54	0.96	24.5
TMC - 12 - 12N	3/4	19.05	3/4	0.62	15.74	1-1/16	27.0	1.59	40.38	1.99	50.54	0.96	24.5
TMC - 12 - 16N	3/4	19.05	1	0.62	15.74	1-3/8	34.9	1.85	47.00	2.25	57.15	0.96	24.5
TMC - 14 - 12N	7/8	22.22	3/4	0.72	18.28	1-3/16	30.2	1.59	40.38	1.99	50.54	1.02	25.9
TMC - 14 - 16N	7/8	22.22	1	0.72	18.28	1-3/8	34.9	1.85	46.99	2.25	57.15	1.02	25.9
TMC - 16 - 8N	1	25.4	1/2	0.47	11.90	1-3/8	34.9	1.78	45.21	2.26	57.4	1.23	31.2
TMC - 16 - 12N	1	25.40	3/4	0.72	18.28	1-3/8	34.9	1.78	45.21	2.26	57.40	1.23	31.2
TMC - 16 - 16N	1	25.40	1	0.88	22.30	1-3/8	34.9	1.97	50.03	2.45	62.23	1.23	31.2
TMC - 20 - 16N	1-1/4	31.75	1	0.86	21.80	1-3/4	44.5	2.17	55.12	3.04	77.22	1.62	41.2
TMC - 20 - 20N	1-1/4	31.75	1-1/4	1.09	27.70	1-3/4	44.5	2.17	55.12	3.04	77.22	1.62	41.2
TMC - 24 - 24N	1-1/2	38.10	1-1/2	1.34	34.00	2-1/8	54.0	2.43	61.72	3.50	88.90	1.97	50.0
TMC - 32 - 32N	2	50.80	2	1.81	45.97	2-3/4	69.9	3.00	76.20	4.47	113.54	2.66	67.6

Reference Specifications :

- 60° thread angle
- Pitch measured in inches
- Truncation of root and crest are flat
- Taper angel 1° 47'

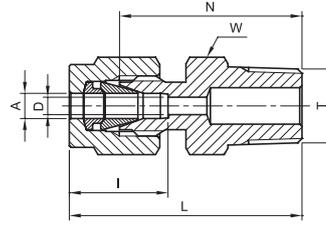
American Standard Pipe Thread NPT.

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



MALE CONNECTOR

TMC-P 卡套外牙直通接头

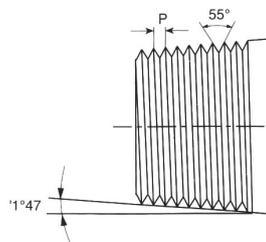


TUBE (METRIC) ISO TAPERED THREAD

Part Number	A	T	D	W	N	L	I
	Tube O.D.	ISO		Hex. flat			
	mm	in	mm	mm	mm	mm	mm
TMC - 2M - 2P	2	R 1/8	1.7	12	23.9	30.5	12.9
TMC - 3M - 2P	3	R 1/8	2.4	12	23.9	30.5	12.9
TMC - 3M - 4P	3	R 1/4	2.4	14	29.0	35.6	12.9
TMC - 4M - 2P	4	R 1/8	2.4	12	24.6	31.2	13.7
TMC - 4M - 4P	4	R 1/4	2.4	14	29.7	36.3	13.7
TMC - 6M - 2P	6	R 1/8	4.8	14	25.4	32.8	15.3
TMC - 6M - 4P	6	R 1/4	4.8	14	30.5	37.9	15.3
TMC - 6M - 6P	6	R 3/8	4.8	18	31.0	38.4	15.3
TMC - 6M - 8P	6	R 1/2	4.8	22	37.3	44.7	15.3
TMC - 8M - 2P	8	R 1/8	4.8	15	26.7	34.2	16.2
TMC - 8M - 4P	8	R 1/4	6.4	15	31.2	38.7	16.2
TMC - 8M - 6P	8	R 3/8	6.4	18	31.8	39.2	16.2
TMC - 8M - 8P	8	R 1/2	6.4	22	38.1	45.6	16.2
TMC - 10M - 2P	10	R 1/8	4.8	18	28.7	36.3	17.2
TMC - 10M - 4P	10	R 1/4	7.9	18	33.3	40.9	17.2
TMC - 10M - 6P	10	R 3/8	7.9	18	33.3	40.9	17.2
TMC - 10M - 8P	10	R 1/2	7.9	22	38.9	46.5	17.2
TMC - 12M - 4P	12	R 1/4	7.1	22	33.3	43.4	22.8
TMC - 12M - 6P	12	R 3/8	9.5	22	33.3	43.4	22.8
TMC - 12M - 8P	12	R 1/2	9.5	22	38.9	49.0	22.8
TMC - 12M - 12P	12	R 3/4	9.5	27	40.4	50.5	22.8
TMC - 15M - 8P	15	R 1/2	11.9	24	38.9	49.0	24.4
TMC - 16M - 4P	16	R 1/4	7.1	24	34.0	44.1	24.4
TMC - 16M - 6P	16	R 3/8	9.5	24	34.0	44.1	24.4
TMC - 16M - 8P	16	R 1/2	11.9	24	38.9	49.0	24.4
TMC - 16M - 12P	16	R 3/4	12.7	27	40.4	50.5	24.4
TMC - 18M - 8P	18	R 1/2	11.9	27	40.4	50.5	24.4
TMC - 18M - 12P	18	R 3/4	15.1	27	40.4	50.5	24.4
TMC - 20M - 8P	20	R 1/2	11.9	30	42.2	52.3	26.0
TMC - 20M - 12P	20	R 3/4	15.9	30	42.2	52.3	26.0
TMC - 22M - 12P	22	R 3/4	15.9	30	42.2	52.3	26.0
TMC - 22M - 16P	22	R 1	18.3	35	47.0	57.1	26.0
TMC - 25M - 12P	25	R 3/4	15.9	35	45.2	57.5	31.3
TMC - 25M - 16P	25	R 1	21.8	35	50.0	62.3	31.3
TMC - 28M - 16P	28	R 1	21.8	41	51.6	72.4	36.6
TMC - 28M - 20P	28	R 1-1/4	21.8	46	52.3	73.1	36.6
TMC - 32M - 20P	32	R 1-1/4	28.6	46	56.6	79.6	42.0
TMC - 32M - 24P	32	R 1-1/2	33.7	50	58.1	91.6	49.4

Reference Specifications :

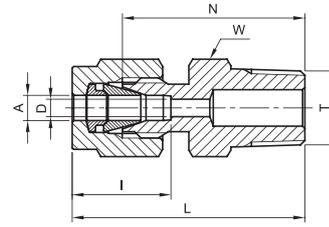
- DIN - ISO 2999 •55° Thread angle
- BS - 21 •Truncation of root and crest are round
- JIS - B0203 •Taper angle 1° 47'



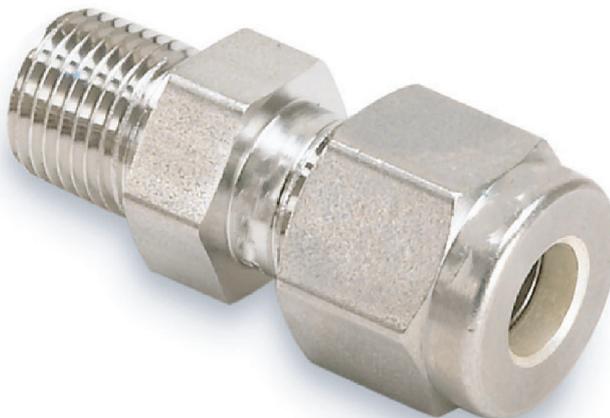
For inches, see next page

MALE CONNECTOR

TMC-P 卡套外牙直通接头

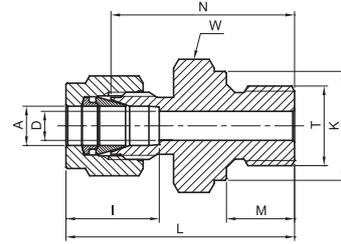


TUBE (INCH) ISO TAPERED THREAD													
Part Number	A Tube O.D.		T ISO	D		W Hex. flat		N		L		I	
	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm
TMC - 2 - 2P	1/8	3.17	R 1/8	0.09	2.28	7/16	11.1	0.94	23.90	1.20	30.48	0.50	12.7
TMC - 2 - 4P	1/8	3.17	R 1/4	0.09	2.28	9/16	14.3	1.14	28.95	1.40	35.56	0.50	12.7
TMC - 4 - 2P	1/4	6.35	R 1/8	0.19	4.82	1/2	12.7	1.00	25.40	1.29	32.76	0.60	15.3
TMC - 4 - 4P	1/4	6.35	R 1/4	0.19	4.82	9/16	14.3	1.20	30.50	1.49	37.85	0.60	15.3
TMC - 4 - 6P	1/4	6.35	R 3/8	0.19	4.82	11/16	17.5	1.21	30.78	1.51	38.35	0.60	15.3
TMC - 4 - 8P	1/4	6.35	R 1/2	0.19	4.82	7/8	22.2	1.47	37.34	1.76	44.70	0.60	15.3
TMC - 5 - 2P	5/16	7.93	R 1/8	0.19	4.82	9/16	14.3	1.05	26.67	1.34	34.03	0.64	16.2
TMC - 5 - 4P	5/16	7.93	R 1/4	0.25	6.35	9/16	14.3	1.23	31.24	1.52	38.60	0.64	16.2
TMC - 6 - 2P	3/8	9.52	R 1/8	0.19	4.82	5/8	15.9	1.10	27.90	1.39	35.30	0.66	16.9
TMC - 6 - 4P	3/8	9.52	R 1/4	0.28	7.11	5/8	15.9	1.28	32.51	1.57	39.87	0.66	16.9
TMC - 6 - 6P	3/8	9.52	R 3/8	0.28	7.11	11/16	17.5	1.28	32.51	1.57	39.87	0.66	16.9
TMC - 6 - 8P	3/8	9.52	R 1/2	0.28	7.11	7/8	22.2	1.53	38.90	1.82	46.23	0.66	16.9
TMC - 8 - 4P	1/2	12.70	R 1/4	0.28	7.11	13/16	20.6	1.31	33.27	1.71	43.43	0.90	22.9
TMC - 8 - 6P	1/2	12.70	R 3/8	0.38	9.65	13/16	20.6	1.31	33.27	1.71	43.43	0.90	22.9
TMC - 8 - 8P	1/2	12.70	R 1/2	0.41	10.41	7/8	22.2	1.53	38.90	1.93	49.02	0.90	22.9
TMC - 8 - 12P	1/2	12.70	R 3/4	0.41	10.41	1-1/16	27.0	1.59	40.38	1.99	50.54	0.90	22.9
TMC - 12 - 12P	3/4	19.05	R 3/4	0.62	15.74	1-1/16	27.0	1.59	40.38	1.99	50.54	0.96	24.5
TMC - 16 - 16P	1	25.40	R 1	0.88	22.35	1-3/8	34.9	1.97	50.03	2.45	62.23	1.23	31.2
TMC - 20 - 16P	1-1/4	31.75	R 1	0.86	21.80	1-3/4	44.5	2.17	55.12	3.04	77.22	1.62	41.2
TMC - 20 - 20P	1-1/4	31.75	R 1-1/4	1.09	27.70	1-3/4	44.5	2.17	55.12	3.04	77.22	1.62	41.2
TMC - 24 - 24P	1-1/2	38.10	R 1-1/2	1.34	34.00	2-1/8	54.0	2.43	61.72	3.50	88.90	1.97	50.0
TMC - 32 - 32P	2	50.80	R 2	1.81	45.97	2-3/4	69.9	3.00	76.20	4.47	113.54	2.66	67.6



MALE CONNECTOR FOR BONDED WASHER SEAL

TMC-G 卡套外牙直通接头



TUBE (METRIC) ISO PARALLEL THREAD									
Part Number	A	T	D	K	W	N	M	L	I
	Tube O.D.	ISO	mm	mm	Hex. flat	mm	mm	mm	mm
	mm	in	mm	mm	mm	mm	mm	mm	mm
TMC - 2M - 2G	2	G 1/8	1.7	13.8	14	23.4	7.1	30.0	12.9
TMC - 3M - 2G	3	G 1/8	2.4	13.8	14	23.4	7.1	30.0	12.9
TMC - 3M - 4G	3	G 1/4	2.4	18.0	19	28.7	11.2	35.3	12.9
TMC - 4M - 2G	4	G 1/8	2.4	13.8	14	24.1	7.1	30.7	13.7
TMC - 6M - 2G	6	G 1/8	4.0	13.8	14	24.9	7.1	24.9	15.3
TMC - 6M - 4G	6	G 1/4	4.8	18.0	19	30.2	11.2	37.6	15.3
TMC - 6M - 6G	6	G 3/8	4.8	21.8	22	31.5	11.2	38.9	15.3
TMC - 6M - 8G	6	G 1/2	4.8	26.0	27	37.3	14.2	44.7	15.3
TMC - 8M - 2G	8	G 1/8	4.0	13.8	15	25.7	7.1	33.2	16.2
TMC - 8M - 4G	8	G 1/4	6.4	13.8	19	31.0	11.2	38.5	16.2
TMC - 8M - 6G	8	G 3/8	6.4	21.8	22	32.3	11.2	39.8	16.2
TMC - 8M - 8G	8	G 1/2	6.4	26.0	27	38.1	14.2	45.6	16.2
TMC - 10M - 4G	10	G 1/4	5.9	18.0	19	31.8	11.2	39.4	17.2
TMC - 10M - 6G	10	G 3/8	7.9	21.8	22	33.0	11.2	40.6	17.2
TMC - 10M - 8G	10	G 1/2	7.9	26.0	27	38.9	14.2	46.5	17.2
TMC - 12M - 4G	12	G 1/4	5.9	18.0	22	32.5	11.2	42.6	22.8
TMC - 12M - 6G	12	G 3/8	7.9	21.8	22	33.0	11.2	43.1	22.8
TMC - 12M - 8G	12	G 1/2	9.5	26.0	27	38.9	14.2	49.0	22.8
TMC - 12M - 12G	12	G 3/4	9.5	32.0	35	42.7	15.7	52.8	22.8
TMC - 16M - 6G	16	G 3/8	7.9	21.8	24	33.8	11.2	43.9	24.4
TMC - 16M - 8G	16	G 1/2	11.9	26.0	27	38.9	14.2	49.0	24.4
TMC - 18M - 8G	18	G 1/2	11.9	26.0	27	38.9	14.2	49.0	24.4
TMC - 18M - 12G	18	G 3/4	15.1	32.0	35	42.7	15.7	52.8	24.4
TMC - 20M - 8G	20	G 1/2	11.9	26.0	30	40.4	14.2	50.5	26.0
TMC - 20M - 12G	20	G 3/4	15.9	32.0	35	42.7	15.7	52.8	26.0
TMC - 22M - 12G	22	G 3/4	15.9	32.0	35	42.7	15.7	52.8	26.0
TMC - 22M - 16G	22	G 1	18.3	39.0	41	45.2	18.3	55.3	26.0
TMC - 25M - 12G	25	G 3/4	15.9	32.0	35	45.2	15.7	57.5	31.3
TMC - 25M - 16G	25	G 1	19.8	39	41	47.8	18.3	60.1	31.3
TMC - 28M - 16G	28	G 1	19.8	39	40	49.3	18.3	70.1	36.6
TMC - 28M - 20G	28	G 1-1/4	21.8	49	50	53.1	19.8	73.9	36.6
TMC - 32M - 20G	32	G 1-1/4	25.0	49	50	55.9	19.8	78.9	42.0
TMC - 38M - 24G	38	G 1-1/2	31.8	54.7	55	63.2	22.1	90.8	49.4

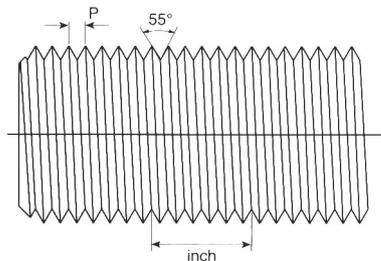
Reference Specifications :

DIN - ISO 228/1

BS - 2779

JIS - B0202

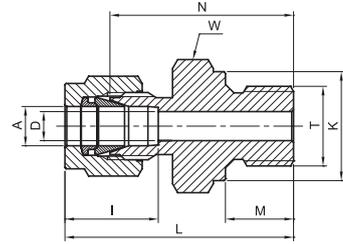
ISO - 228/1-BSP-P



- 55° Thread angle
- Pitch measured in inches
- Root and crest truncation are round
- Diameter measured in inches

MALE CONNECTOR FOR BONDED WASHER SEAL

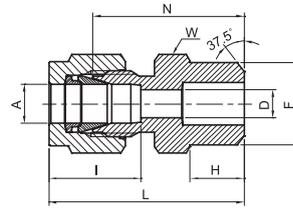
TMC-G 卡套外牙直通接头



TUBE (INCH) ISO PARALLEL THREAD																	
Part Number	A Tube O.D.		T ISO	D		K		W Hex. flat		N		M		L		I	
	in	mm		in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
TMC - 2 - 2G	1/8	3.17	G 1/8	0.09	2.30	0.54	13.8	9/16	14.3	0.92	23.40	0.28	7.10	1.18	30.00	0.50	12.7
TMC - 2 - 4G	1/8	3.17	G 1/4	0.09	2.30	0.71	18.0	3/4	19.1	1.13	28.70	0.44	11.20	1.39	35.30	0.50	12.7
TMC - 2 - 6G	1/8	3.17	G 3/8	0.09	2.30	0.86	21.8	7/8	22.2	1.17	29.72	0.44	11.20	1.46	37.00	0.50	12.7
TMC - 2 - 8G	1/8	3.17	G 1/2	0.09	2.30	1.02	26.0	1-1/16	27.0	1.40	35.70	0.56	14.20	1.69	43.00	0.50	12.7
TMC - 3 - 2G	3/16	4.76	G 1/8	0.12	3.10	0.54	13.8	9/16	14.3	0.95	24.10	0.28	7.10	1.20	30.70	0.54	13.7
TMC - 4 - 2G	1/4	6.35	G 1/8	0.16	4.10	0.54	13.8	9/16	14.3	0.98	24.90	0.28	7.10	1.27	32.26	0.60	15.3
TMC - 4 - 4G	1/4	6.35	G 1/4	0.19	4.80	0.71	18.0	3/4	19.1	1.19	30.20	0.44	11.20	1.48	37.60	0.60	15.3
TMC - 4 - 6G	1/4	6.35	G 3/8	0.19	4.80	0.86	21.8	7/8	22.2	1.24	31.50	0.44	11.20	1.53	38.86	0.60	15.3
TMC - 4 - 8G	1/4	6.35	G 1/2	0.19	4.80	1.02	26.0	1-1/16	27.0	1.47	37.30	0.56	14.20	1.76	44.70	0.60	15.3
TMC - 5 - 4G	5/16	7.93	G 1/4	0.25	6.40	0.71	18.0	3/4	19.1	1.22	31.00	0.44	11.20	1.51	38.36	0.63	16.2
TMC - 5 - 6G	5/16	7.93	G 3/8	0.25	6.40	0.86	21.8	7/8	22.2	1.27	32.30	0.44	11.20	1.56	39.66	0.63	16.2
TMC - 6 - 4G	3/8	9.52	G 1/4	0.23	5.80	0.71	18.0	3/4	19.1	1.25	31.75	0.44	11.20	1.54	39.11	0.66	16.9
TMC - 6 - 6G	3/8	9.52	G 3/8	0.28	7.10	0.86	21.8	7/8	22.2	1.30	33.00	0.44	11.20	1.59	40.40	0.66	16.9
TMC - 6 - 8G	3/8	9.52	G 1/2	0.28	7.10	1.02	26.0	1-1/16	27.0	1.53	38.86	0.56	14.20	1.82	46.22	0.66	16.9
TMC - 8 - 4G	1/2	12.70	G 1/4	0.23	5.80	0.71	18.0	1-3/16	20.6	1.28	32.50	0.44	11.20	1.68	42.67	0.90	22.9
TMC - 8 - 6G	1/2	12.70	G 3/8	0.31	7.90	0.86	21.8	7/8	22.2	1.30	33.00	0.44	11.20	1.70	43.18	0.90	22.9
TMC - 8 - 8G	1/2	12.70	G 1/2	0.41	10.40	1.02	26.0	1-1/16	27.0	1.47	37.40	0.56	14.20	1.93	49.00	0.90	22.9
TMC - 8 - 12G	1/2	12.70	G 3/4	0.41	10.40	1.26	32.0	1-5/16	33.3	1.68	42.70	0.62	15.70	2.08	52.86	0.90	22.9
TMC - 10 - 6G	5/8	15.87	G 3/8	0.31	7.90	0.86	21.8	-	24.0	1.33	33.80	0.44	11.20	1.73	43.96	0.96	24.4
TMC - 10 - 8G	5/8	15.87	G 1/2	0.47	11.90	1.02	26.0	1-1/16	27.0	1.53	38.90	0.56	14.20	1.93	49.10	0.96	24.4
TMC - 12 - 8G	3/4	19.05	G 1/2	0.47	11.90	1.02	26.0	1-1/16	27.0	1.53	38.86	0.56	14.20	1.93	49.00	0.96	24.5
TMC - 12 - 12G	3/4	19.05	G 3/4	0.62	15.80	1.26	32.0	1-5/16	33.3	1.68	42.70	0.62	15.70	2.08	52.83	0.96	24.5
TMC - 16 - 8G	1	25.40	G 1/2	0.47	11.90	1.02	26.0	1-3/8	34.9	1.72	43.70	0.56	14.20	2.20	55.80	1.23	31.2
TMC - 16 - 12G	1	25.40	G 3/4	0.62	15.90	1.26	32.0	1-3/8	34.9	1.78	45.20	0.62	15.70	2.65	67.30	1.23	31.2
TMC - 16 - 16G	1	25.40	G 1	0.78	19.80	1.54	39.0	1-5/8	41.3	1.88	47.80	0.72	18.30	2.36	59.94	1.23	31.2

MALE PIPE WELD CONNECTOR

TMPWC 卡套直通转PIPE管对焊接头



TUBE (METRIC) TO PIPE (INCH)

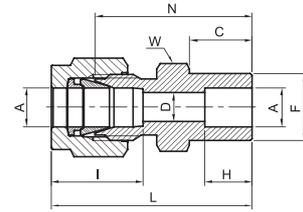
Part Number	A Tube O.D.		F Pipe size		D		W Hex. flat		N		H		L		I	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
TMPWC - 3M - 2TW	3	1/8	10.30	2.4	12	23.1	9.7	30.5	12.9							
TMPWC - 4M - 2TW	4	1/8	10.30	2.4	12	24.1	9.7	31.2	13.7							
TMPWC - 6M - 2TW	6	1/8	10.30	4.8	14	25.4	9.7	32.8	15.3							
TMPWC - 6M - 4TW	6	1/4	13.70	4.8	14	30.2	14.2	37.9	15.3							
TMPWC - 8M - 2TW	8	1/8	10.30	5.1	15	26.7	9.7	34.2	16.2							
TMPWC - 8M - 4TW	8	1/4	13.70	6.4	15	31.2	14.2	38.7	16.2							
TMPWC - 8M - 8TW	8	1/2	21.34	6.4	22	37.3	19.0	45.6	16.2							
TMPWC - 10M - 4TW	10	1/4	13.70	7.1	18	33.3	14.2	40.9	17.2							
TMPWC - 10M - 6TW	10	3/8	17.10	7.9	18	32.5	14.2	40.9	17.2							
TMPWC - 10M - 8TW	10	1/2	21.34	7.9	22	38.1	19.0	46.5	17.2							
TMPWC - 12M - 4TW	12	1/4	13.70	7.1	22	33.3	14.2	43.4	22.8							
TMPWC - 12M - 6TW	12	3/8	17.10	9.5	22	33.3	14.2	43.4	22.8							
TMPWC - 12M - 8TW	12	1/2	21.34	9.5	22	38.1	19.0	49.0	22.8							
TMPWC - 15M - 8TW	15	1/2	21.34	11.9	24	38.9	19.0	49.0	24.4							
TMPWC - 16M - 8TW	16	1/2	21.34	12.7	24	38.9	19.0	49.0	24.4							
TMPWC - 18M - 8TW	18	1/2	21.34	13.5	27	40.4	19.0	50.5	24.4							

TUBE (INCH) TO PIPE (INCH)

Part Number	A Tube O.D.		F Pipe size		D		W Hex. flat		N		H		L		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TMPWC - 2 - 2TW	1/8	3.17	1/8	10.30	0.09	2.28	7/16	11.1	0.94	23.88	0.38	9.65	1.20	30.48	0.50	12.7
TMPWC - 3 - 2TW	3/16	4.76	1/8	10.30	0.12	3.04	7/16	11.1	0.97	24.60	0.38	9.65	1.23	31.25	0.54	13.7
TMPWC - 4 - 2TW	1/4	6.35	1/8	10.30	0.19	4.82	1/2	12.7	1.00	25.40	0.38	9.65	1.29	32.77	0.60	15.3
TMPWC - 4 - 4TW	1/4	6.35	1/4	13.70	0.19	4.82	9/16	14.3	1.19	30.22	0.56	14.22	1.48	37.59	0.60	15.3
TMPWC - 5 - 2TW	5/16	7.93	1/8	10.30	0.20	5.08	9/16	14.3	1.05	26.67	0.38	9.65	1.34	34.04	0.64	16.2
TMPWC - 5 - 4TW	5/16	7.93	1/4	13.70	0.25	6.35	9/16	14.3	1.23	31.24	0.56	14.22	1.52	38.61	0.64	16.2
TMPWC - 6 - 4TW	3/8	9.52	1/4	13.70	0.28	7.11	5/8	15.9	1.28	32.51	0.56	14.22	1.57	39.87	0.66	16.9
TMPWC - 6 - 6TW	3/8	9.52	3/8	17.10	0.28	7.11	11/16	17.5	1.28	32.51	0.56	14.22	1.57	39.87	0.66	16.9
TMPWC - 6 - 8TW	3/8	9.52	1/2	21.34	0.28	7.11	7/8	22.2	1.53	38.86	0.75	19.05	1.82	46.22	0.66	16.9
TMPWC - 8 - 6TW	1/2	12.70	3/8	17.10	0.41	10.41	13/16	20.6	1.31	33.27	0.56	14.22	1.71	44.43	0.90	22.9
TMPWC - 8 - 8TW	1/2	12.70	1/2	21.34	0.41	10.41	7/8	22.2	1.53	38.86	0.75	19.05	1.93	49.00	0.90	22.9
TMPWC - 8 - 12TW	1/2	12.70	3/4	26.67	0.41	10.41	1-1/16	27.0	1.59	40.40	0.75	19.05	1.99	50.55	0.90	22.9
TMPWC - 10 - 8TW	5/8	15.87	1/2	21.34	0.50	12.70	15/16	23.8	1.53	38.86	0.75	19.05	1.93	49.02	0.96	24.4
TMPWC - 12 - 12TW	3/4	19.05	3/4	26.67	0.62	15.74	1-1/16	27.0	1.59	40.40	0.75	19.05	1.99	50.55	0.96	24.5
TMPWC - 16 - 16TW	1	25.4	1	33.4	0.88	22.35	1-3/8	34.9	1.97	50.03	0.94	23.87	2.45	62.23	1.23	31.2
TMPWC - 20 - 20TW	1-1/4	31.75	1-1/4	42.16	1.09	22.7	1-3/4	44.5	2.17	55.12	0.94	23.88	3.04	77.22	1.62	41.2
TMPWC - 24 - 24TW	1-1/2	38.1	1-1/2	48.26	1.34	34	2-1/8	54.0	2.43	61.72	1.03	26.16	3.5	88.9	1.97	50.0
TMPWC - 32 - 32TW	2	50.8	2	60.33	1.81	45.97	2-3/4	69.9	3.0	76.2	1.06	26.92	4.47	113.34	2.66	67.6

TUBE SOCKET WELD CONNECTOR

TTSWC 卡套直通转PIPE管对焊接头



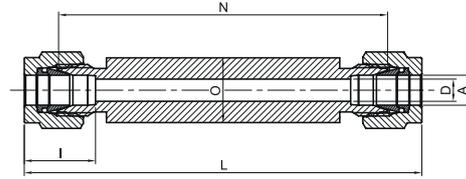
TUBE (INCH) TO TUBE (INCH)

Part Number	A Tube O.D.		C		D		W Hex. flat		F		H		L		I		N	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TTSWC - 2 - 2SW	1/8	3.17	0.34	8.64	0.09	2.28	7/16	11.1	0.31	7.87	0.25	6.35	0.50	28.96	1.14	12.7	0.88	22.35
TTSWC - 4 - 4SW	1/4	6.35	0.41	10.41	0.19	4.80	1/2	12.7	0.44	11.18	0.31	7.90	0.60	33.53	1.32	15.3	1.03	26.16
TTSWC - 6 - 6SW	3/8	9.52	0.47	11.94	0.28	7.10	5/8	15.9	0.62	15.75	0.38	9.65	0.66	37.60	1.48	16.9	1.19	30.23
TTSWC - 8 - 8SW	1/2	12.70	0.47	11.94	0.41	10.40	13/16	20.6	0.75	19.05	0.50	12.70	0.90	41.15	1.62	22.9	1.22	31.00
TTSWC - 12 - 12SW	3/4	19.05	0.47	11.94	0.62	15.80	1-1/16	27.0	1.05	26.67	0.56	14.20	0.96	43.43	1.71	24.5	1.31	33.28
TTSWC - 16 - 16SW	1	25.40	0.56	14.22	0.88	22.35	1-3/8	34.9	1.31	33.27	0.75	19.05	1.23	52.58	2.07	31.2	1.59	40.40



WELD BULKHEAD UNION

TWBU 卡套焊式穿墙直通接头



TUBE (METRIC) TO MALE NPT THREAD

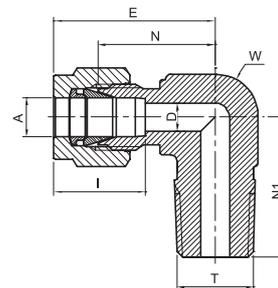
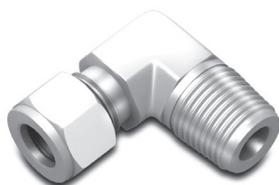
Part Number	A Tube O.D.		D		N	L	I	O
	mm	mm	mm	mm	mm	mm	mm	mm
TWBU - 2M	2	1.7	67.3	80.5	12.9	12.0		
TWBU - 3M	3	2.4	67.3	80.5	12.9	12.0		
TWBU - 4M	4	2.4	69.0	82.2	13.7	12.0		
TWBU - 6M	6	4.8	70.5	85.3	15.3	12.0		
TWBU - 8M	8	6.3	72.1	87.1	16.2	16.0		
TWBU - 10M	10	7.9	73.7	88.9	17.2	19.0		
TWBU - 12M	12	9.5	73.6	93.8	22.8	23.0		
TWBU - 15M	15	11.9	73.7	93.9	22.8	25.0		
TWBU - 16M	16	12.7	73.7	93.9	24.4	28.0		
TWBU - 18M	18	15.1	73.7	93.9	24.4	28.0		
TWBU - 20M	20	15.9	73.7	93.9	24.4	32.0		
TWBU - 22M	22	18.3	73.7	93.9	26.0	32.0		
TWBU - 25M	25	21.8	78.6	103.2	31.3	38.0		
TWBU - 28M	28	21.8	81.7	123.3	36.6	45.0		
TWBU - 32M	32	28.6	87.1	132.8	42.0	50.0		
TWBU - 38M	38	33.7	90.9	146.1	49.4	60.0		

TUBE (METRIC) TO MALE NPT THREAD

Part Number	A Tube O.D.		D		N	L	I	O
	mm	mm	mm	mm	mm	mm	mm	mm
TWBU - 1	1/16	1.58	0.05	1.27	64.2	71.82	8.6	10.00
TWBU - 2	1/8	3.17	0.09	2.28	67.2	80.41	12.7	12.00
TWBU - 3	3/16	4.76	0.12	3.04	69.0	82.2	13.7	12.00
TWBU - 4	1/4	6.35	0.19	4.82	70.8	85.53	15.3	14.00
TWBU - 5	5/16	7.93	0.25	6.35	73.7	88.4	16.3	16.00
TWBU - 6	3/8	9.52	0.28	7.11	73.7	88.43	16.9	19.00
TWBU - 8	1/2	12.70	0.41	10.41	73.7	94.02	22.9	23.00
TWBU - 10	5/8	15.87	0.50	12.7	73.7	94.02	24.4	25.00
TWBU - 12	3/4	19.05	0.62	15.74	73.7	94.02	24.5	28.00
TWBU - 14	7/8	22.22	0.72	18.28	73.7	93.76	25.9	32.00
TWBU - 16	1	25.40	0.88	22.35	78.5	102.89	31.2	35.00
TWBU - 20	1-1/4	31.75	1.09	27.70	83.9	128.1	41.2	50.00
TWBU - 24	1-1/2	38.10	1.34	34.00	86.1	140.45	50.0	55.00
TWBU - 32	2	50.80	1.81	45.97	100.9	175.58	67.6	80.00

MALE 90° ELBOW

TME 卡套外牙弯头

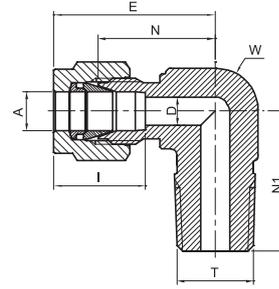


TUBE (METRIC) MALE NPT THREAD									
Part Number	A	T	D	W		N	E	N1	I
	Tube O.D.	NPT		Wrench flat					
	mm	in	mm	in	mm	mm	mm	mm	mm
TME - 3M - 2N	3	1/8	2.4	7/16	11.1	17.0	23.6	17.8	12.9
TME - 3M - 4N	3	1/4	2.4	1/2	12.7	18.0	24.6	23.4	12.9
TME - 4M - 2N	4	1/8	2.4	1/2	12.7	18.8	25.4	18.8	13.7
TME - 4M - 4N	4	1/4	2.4	1/2	12.7	18.8	25.4	23.4	13.7
TME - 6M - 2N	6	1/8	4.8	1/2	12.7	19.6	27.0	18.8	15.3
TME - 6M - 4N	6	1/4	4.8	1/2	12.7	19.6	27.0	23.4	15.3
TME - 6M - 6N	6	3/8	4.8	11/16	17.5	22.4	29.8	26.2	15.3
TME - 6M - 8N	6	1/2	4.8	13/16	20.6	24.4	31.8	33.0	15.3
TME - 8M - 2N	8	1/8	4.8	9/16	14.3	21.3	28.8	19.8	16.2
TME - 8M - 4N	8	1/4	6.4	9/16	14.3	21.3	28.8	24.4	16.2
TME - 8M - 6N	8	3/8	6.4	11/16	17.5	23.1	30.6	26.2	16.2
TME - 8M - 8N	8	1/2	6.4	13/16	20.6	25.1	32.6	33.0	16.2
TME - 10M - 2N	10	1/8	4.8	11/16	17.5	23.9	31.5	21.6	17.2
TME - 10M - 4N	10	1/4	7.1	11/16	17.5	23.9	31.5	26.2	17.2
TME - 10M - 6N	10	3/8	7.9	11/16	17.5	23.9	31.5	26.2	17.2
TME - 10M - 8N	10	1/2	7.9	13/16	20.6	25.9	33.5	33.0	17.2
TME - 12M - 2N	12	1/8	4.8	13/16	20.6	25.9	36.0	23.6	22.8
TME - 12M - 4N	12	1/4	7.1	13/16	20.6	25.9	36.0	28.2	22.8
TME - 12M - 6N	12	3/8	9.5	13/16	20.6	25.9	36.0	28.2	22.8
TME - 12M - 8N	12	1/2	9.5	13/16	20.6	25.9	36.0	33.0	22.8
TME - 12M - 12N	12	3/4	9.5	1-1/16	27.0	29.7	39.8	36.8	22.8
TME - 15M - 8N	15	1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
TME - 16M - 6N	16	3/8	9.5	15/16	23.8	27.9	38.0	30.2	24.4
TME - 16M - 8N	16	1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
TME - 16M - 12N	16	3/4	12.7	1-1/16	27.0	29.7	39.8	36.8	24.4
TME - 18M - 8N	18	1/2	11.9	1-1/16	27.0	29.7	39.8	36.8	24.4
TME - 18M - 12N	18	3/4	15.1	1-1/16	27.0	29.7	39.8	36.8	24.4
TME - 20M - 8N	20	1/2	11.9	1-3/8	34.9	34.5	44.6	41.7	26.0
TME - 20M - 12N	20	3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
TME - 22M - 12N	22	3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
TME - 22M - 16N	22	1	18.3	1-3/8	34.9	34.5	44.6	46.5	26.0
TME - 25M - 12N	25	3/4	15.9	1-3/8	34.9	36.8	49.1	41.7	31.3
TME - 25M - 16N	25	1	21.8	1-3/8	34.9	36.8	49.1	46.5	31.3

For inches, see next page

MALE 90° ELBOW

TME 卡套外牙弯头

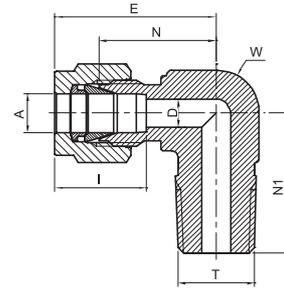


TUBE (INCH) MALE NPT THREAD

Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E		N1		I	
	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TME - 1 - 1N	1/16	1.58	1/16	0.05	1.27	7/16	11.1	0.60	15.24	0.75	19.05	0.70	17.78	0.34	8.6
TME - 1 - 2N	1/16	1.58	1/8	0.05	1.27	7/16	11.1	0.60	15.24	0.75	19.05	0.70	17.78	0.34	8.6
TME - 2 - 2N	1/8	3.17	1/8	0.09	2.28	7/16	11.1	0.67	17.02	0.93	23.62	0.70	17.28	0.50	12.7
TME - 2 - 4N	1/8	3.17	1/4	0.09	2.28	1/2	12.7	0.71	18.03	0.97	24.64	0.92	23.37	0.50	12.7
TME - 3 - 2N	3/16	4.76	1/8	0.12	3.04	1/2	12.7	0.74	18.80	1.00	25.40	0.74	18.80	0.54	13.7
TME - 3 - 4N	3/16	4.76	1/4	0.12	3.04	1/2	12.7	0.74	18.80	1.00	25.40	0.92	23.37	0.54	13.7
TME - 4 - 1N	1/4	6.35	1/16	0.12	3.04	1/2	12.7	0.77	19.55	1.06	26.9	0.74	18.79	0.60	15.3
TME - 4 - 2N	1/4	6.35	1/8	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.92	0.74	18.80	0.60	15.3
TME - 4 - 4N	1/4	6.35	1/4	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.92	0.92	23.37	0.60	15.3
TME - 4 - 6N	1/4	6.35	3/8	0.19	4.82	11/16	17.5	0.88	22.35	1.17	29.71	1.03	26.16	0.60	15.3
TME - 4 - 8N	1/4	6.35	1/2	0.19	4.82	13/16	20.6	0.96	24.38	1.25	31.75	1.30	33.02	0.60	15.3
TME - 5 - 2N	5/16	7.93	1/8	0.19	4.82	9/16	14.3	0.84	21.34	1.13	28.70	0.78	19.81	0.64	16.2
TME - 5 - 4N	5/16	7.93	1/4	0.25	6.35	9/16	14.3	0.84	21.34	1.13	28.70	0.96	24.38	0.64	16.2
TME - 5 - 6N	5/16	7.93	3/8	0.25	6.35	11/16	17.5	0.91	23.11	1.20	30.48	1.03	26.16	0.64	16.2
TME - 6 - 2N	3/8	9.52	1/8	0.19	4.82	5/8	15.9	0.91	23.11	1.20	30.48	0.82	20.83	0.66	16.9
TME - 6 - 4N	3/8	9.52	1/4	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	1.00	25.40	0.66	16.9
TME - 6 - 6N	3/8	9.52	3/8	0.28	7.11	11/16	17.5	0.94	23.87	1.23	31.24	1.03	26.16	0.66	16.9
TME - 6 - 8N	3/8	9.52	1/2	0.28	7.11	13/16	20.6	1.02	25.90	1.31	33.28	1.30	33.02	0.66	16.9
TME - 6 - 12N	3/8	9.52	3/4	0.28	7.11	1-1/16	27.0	1.17	29.71	1.46	37.08	1.45	36.83	0.66	16.9
TME - 8 - 4N	1/2	12.70	1/4	0.28	7.11	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	0.90	22.9
TME - 8 - 6N	1/2	12.70	3/8	0.38	9.65	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	0.90	22.9
TME - 8 - 8N	1/2	12.70	1/2	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	1.30	33.02	0.90	22.9
TME - 8 - 12N	1/2	12.70	3/4	0.41	10.41	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	0.90	22.9
TME - 10 - 6N	5/8	15.87	3/8	0.38	9.61	15/16	23.8	1.10	27.94	1.50	38.10	1.19	30.23	0.96	24.4
TME - 10 - 8N	5/8	15.87	1/2	0.47	11.94	15/16	23.8	1.10	27.94	1.50	38.10	1.38	35.05	0.96	24.4
TME - 10 - 12N	5/8	15.87	3/4	0.50	12.70	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	0.96	24.4
TME - 12 - 8N	3/4	19.05	1/2	0.47	15.74	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	0.96	24.5
TME - 12 - 12N	3/4	19.05	3/4	0.62	15.74	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	0.96	24.5
TME - 14 - 12N	7/8	22.22	3/4	0.62	15.74	1-3/16	34.9	1.36	34.54	1.76	44.70	1.64	41.66	1.02	25.9
TME - 16 - 12N	1	25.40	3/4	0.62	15.74	1-3/8	34.9	1.45	36.83	1.93	49.02	1.64	41.66	1.23	31.2
TME - 16 - 16N	1	25.4	1	0.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.83	46.48	1.23	31.2
TME - 20 - 20N	1-1/4	31.75	1-1/4	1.09	27.7	1-11/16	42.9	1.75	44.45	2.62	66.5	1.88	47.75	1.62	41.2
TME - 24 - 24N	1-1/2	38.1	1-1/2	1.34	34	2	50.8	2.0	50.8	3.07	78.0	2.38	60.45	1.97	50.0
TME - 32 - 32N	2	50.8	2	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.78	70.61	2.66	67.6

MALE 90° ELBOW

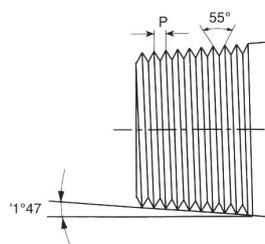
TME 卡套外牙弯头



TUBE (METRIC) ISO TAPERED THREAD									
Part Number	A	T	D	W		N	E	N1	I
	Tube O.D.	ISO	mm	Wrench flat	mm	mm	mm	mm	mm
	mm	in	mm	in	mm	mm	mm	mm	mm
TME - 3M - 2P	3	R 1/8	2.4	7/16	11.1	17.0	23.6	17.8	12.9
TME - 3M - 4P	3	R 1/4	2.4	1/2	12.7	18.0	24.6	23.4	12.9
TME - 4M - 2P	4	R 1/8	2.4	1/2	12.7	18.8	25.4	18.8	13.7
TME - 4M - 4P	4	R 1/4	2.4	1/2	12.7	18.8	25.4	23.4	13.7
TME - 6M - 2P	6	R 1/8	4.8	1/2	12.7	19.6	27.0	18.8	15.3
TME - 6M - 4P	6	R 1/4	4.8	1/2	12.7	19.6	27.0	23.4	15.3
TME - 6M - 6P	6	R 3/8	4.8	11/16	17.5	22.4	29.8	26.2	15.3
TME - 6M - 8P	6	R 1/2	4.8	13/16	20.6	24.4	31.8	33.0	15.3
TME - 8M - 2P	8	R 1/8	4.8	9/16	14.3	21.3	28.8	19.8	16.2
TME - 8M - 4P	8	R 1/4	6.4	9/16	14.3	21.3	28.8	24.4	16.2
TME - 8M - 6P	8	R 3/8	6.4	11/16	17.5	23.1	30.6	26.2	16.2
TME - 8M - 8P	8	R 1/2	6.4	13/16	20.6	25.1	32.6	33.0	16.2
TME - 10M - 2P	10	R 1/8	4.8	11/16	17.5	23.9	31.5	21.6	17.2
TME - 10M - 4P	10	R 1/4	7.1	11/16	17.5	23.9	31.5	26.2	17.2
TME - 10M - 6P	10	R 3/8	7.9	11/16	17.5	23.9	31.5	26.2	17.2
TME - 10M - 8P	10	R 1/2	7.9	13/16	20.6	25.9	33.5	33.0	17.2
TME - 12M - 2P	12	R 1/8	4.8	13/16	20.6	25.9	36.0	23.6	22.8
TME - 12M - 4P	12	R 1/4	7.1	13/16	20.6	25.9	36.0	28.2	22.8
TME - 12M - 6P	12	R 3/8	9.5	13/16	20.6	25.9	36.0	28.2	22.8
TME - 12M - 8P	12	R 1/2	9.5	13/16	20.6	25.9	36.0	33.0	22.8
TME - 12M - 12P	12	R 3/4	9.5	1-1/16	27.0	29.7	39.8	36.8	22.8
TME - 16M - 6P	16	R 3/8	9.5	15/16	23.8	27.9	38.0	30.2	24.4
TME - 16M - 8P	16	R 1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
TME - 18M - 8P	18	R 1/2	11.9	1-1/16	27.0	29.7	39.8	36.8	24.4
TME - 18M - 12P	18	R 3/4	15.1	1-1/16	27.0	29.7	39.8	36.8	24.4
TME - 20M - 8P	20	R 1/2	11.9	1-3/8	34.9	34.5	44.6	41.7	26.0
TME - 20M - 12P	20	R 3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
TME - 22M - 12P	22	R 3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
TME - 22M - 16P	22	R 1	18.3	1-3/8	34.9	34.5	44.6	46.5	26.0
TME - 25M - 12P	25	R 3/4	15.9	1-3/8	34.9	36.8	49.1	41.7	31.3
TME - 25M - 16P	25	R 1	21.8	1-3/8	34.9	36.8	49.1	46.5	31.3

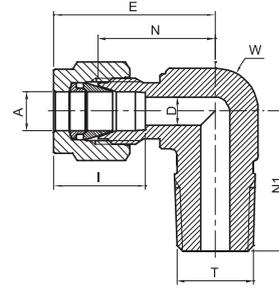
Reference Specifications :

- DIN - ISO 2999 •55° Thread angle
- BS - 21 •Truncation of root and crest are round
- JIS - B0203 •Taper angle 1° 47'



MALE 90° ELBOW

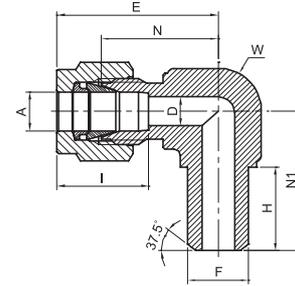
TME 卡套外牙弯头



TUBE (INCH) ISO TAPERED THREAD															
Part Number	A Tube O.D.		T ISO	D		W Wrench flat		N		E		N1		I	
	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TME - 1 - 1P	1/16	1.58	R 1/16	0.05	1.27	7/16	11.1	0.60	15.24	0.75	19.05	0.70	17.78	0.34	8.6
TME - 1 - 2P	1/16	1.58	R 1/8	0.05	1.27	7/16	11.1	0.60	15.24	0.75	19.05	0.70	17.78	0.34	8.6
TME - 2 - 2P	1/8	3.17	R 1/8	0.09	2.28	7/16	11.1	0.67	17.02	0.93	23.62	0.70	17.28	0.50	12.7
TME - 2 - 4P	1/8	3.17	R 1/4	0.09	2.28	1/2	12.7	0.71	18.03	0.97	24.64	0.92	23.37	0.50	12.7
TME - 3 - 2P	3/16	4.76	R 1/8	0.12	3.04	1/2	12.7	0.74	18.80	1.00	25.40	0.74	18.80	0.54	13.7
TME - 3 - 4P	3/16	4.76	R 1/4	0.12	3.04	1/2	12.7	0.74	18.80	1.00	25.40	0.92	23.37	0.54	13.7
TME - 4 - 1P	1/4	6.35	R 1/16	0.12	3.04	1/2	12.7	0.77	19.55	1.06	26.9	0.74	18.79	0.60	15.3
TME - 4 - 2P	1/4	6.35	R 1/8	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.92	0.74	18.80	0.60	15.3
TME - 4 - 4P	1/4	6.35	R 1/4	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.92	0.92	23.37	0.60	15.3
TME - 4 - 6P	1/4	6.35	R 3/8	0.19	4.82	11/16	17.5	0.88	22.35	1.17	29.71	1.03	26.16	0.60	15.3
TME - 4 - 8P	1/4	6.35	R 1/2	0.19	4.82	13/16	20.6	0.96	24.38	1.25	31.75	1.30	33.02	0.60	15.3
TME - 5 - 2P	5/16	7.93	R 1/8	0.19	4.82	9/16	14.3	0.84	21.34	1.13	28.70	0.78	19.81	0.64	16.2
TME - 5 - 4P	5/16	7.93	R 1/4	0.25	6.35	9/16	14.3	0.84	21.34	1.13	28.70	0.96	24.38	0.64	16.2
TME - 5 - 6P	5/16	7.93	R 3/8	0.25	6.35	11/16	17.5	0.91	23.11	1.20	30.48	1.03	26.16	0.64	16.2
TME - 6 - 2P	3/8	9.52	R 1/8	0.19	4.82	5/8	15.9	0.91	23.11	1.20	30.48	0.82	20.83	0.66	16.9
TME - 6 - 4P	3/8	9.52	R 1/4	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	1.00	25.40	0.66	16.9
TME - 6 - 6P	3/8	9.52	R 3/8	0.28	7.11	11/16	17.5	0.94	23.87	1.23	31.24	1.03	26.16	0.66	16.9
TME - 6 - 8P	3/8	9.52	R 1/2	0.28	7.11	13/16	20.6	1.02	25.90	1.31	33.28	1.30	33.02	0.66	16.9
TME - 6 - 12P	3/8	9.52	R 3/4	0.28	7.11	1-1/16	27.0	1.17	29.71	1.46	37.08	1.45	36.83	0.66	16.9
TME - 8 - 4P	1/2	12.70	R 1/4	0.28	7.11	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	0.90	22.9
TME - 8 - 6P	1/2	12.70	R 3/8	0.38	9.65	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	0.90	22.9
TME - 8 - 8P	1/2	12.70	R 1/2	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	1.30	33.02	0.90	22.9
TME - 8 - 12P	1/2	12.70	R 3/4	0.41	10.41	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	0.90	22.9
TME - 10 - 6P	5/8	15.87	R 3/8	0.38	9.61	15/16	23.8	1.10	27.94	1.50	38.10	1.19	30.23	0.96	24.4
TME - 10 - 8P	5/8	15.87	R 1/2	0.47	11.94	15/16	23.8	1.10	27.94	1.50	38.10	1.38	35.05	0.96	24.4
TME - 10 - 12P	5/8	15.87	R 3/4	0.50	12.70	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	0.96	24.4
TME - 12 - 8P	3/4	19.05	R 1/2	0.47	15.74	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	0.96	24.5
TME - 12 - 12P	3/4	19.05	R 3/4	0.62	15.74	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	0.96	24.5
TME - 14 - 12P	7/8	22.22	R 3/4	0.62	15.74	1-3/16	34.9	1.36	34.54	1.76	44.70	1.64	41.66	1.02	25.9
TME - 16 - 12P	1	25.40	R 3/4	0.62	15.74	1-3/8	34.9	1.45	36.83	1.93	49.02	1.64	41.66	1.23	31.2
TME - 16 - 16P	1	25.4	R 1	0.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.83	46.48	1.23	31.2
TME - 20 - 20P	1-1/4	31.75	R 1-1/4	1.09	27.7	1-11/16	42.9	1.75	44.45	2.62	66.5	1.88	47.75	1.62	41.2
TME - 24 - 24P	1-1/2	38.1	R 1-1/2	1.34	34.0	2	50.8	2.0	50.8	3.07	78.0	2.38	60.45	1.97	50.0
TME - 32 - 32P	2	50.8	R 2	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.78	70.61	2.66	67.6

MALE PIPE WELD 90° ELBOW

TMPWE 卡套弯头转PIPE管对焊接头

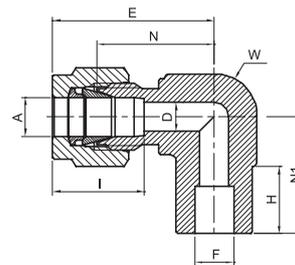
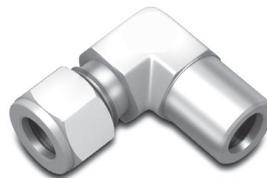


TUBE TO PIPE (INCH)																		
Part Number	A Tube O.D.		F Pipe size		D		W Wrench flat		N		H		E		N1		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TMPWE - 4 - 2TW	1/4	6.35	1/8	10.30	0.19	4.82	1/2	12.7	0.77	19.56	0.38	7.65	1.06	26.92	0.74	18.8	0.60	15.3
TMPWE - 4 - 4TW	1/4	6.35	1/4	13.70	0.19	4.82	1/2	12.7	0.77	19.56	0.56	14.22	1.06	26.92	0.92	23.37	0.60	15.3
TMPWE - 6 - 4TW	3/8	9.52	1/4	13.70	0.28	7.11	5/8	15.9	0.91	23.11	0.56	14.22	1.20	30.48	1.00	25.40	0.66	16.9
TMPWE - 8 - 8TW	1/2	12.70	1/2	21.34	0.41	10.41	13/16	20.6	1.02	25.90	0.75	19.05	1.42	36.06	1.30	33.02	0.90	22.9
TMPWE - 12 - 12TW	3/4	19.05	3/4	26.67	0.62	15.75	1-1/16	27.0	1.17	29.72	0.75	19.05	1.57	39.88	1.45	36.83	0.96	24.5

“D” - Dimension is the minimum opening. These fittings may have a larger opening at the weld end.
The wall thickness of welding edge is based on SCH 80.

TUBE SOCKET WELD 90° ELBOW

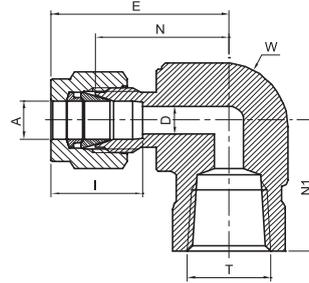
TTSWE 卡套弯头转TUBE管承插焊接头



TUBE TO TUBE																		
Part Number	A Tube O.D.		F Pipe size		D		W Wrench flat		N		H		E		N1		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TTSWE - 4 - 4SW	1/4	6.35	1/4	6.35	0.19	4.82	1/2	12.7	0.77	19.60	0.31	7.87	1.06	26.98	0.77	19.60	0.60	15.30
TTSWE - 6 - 6SW	3/8	9.52	3/8	9.52	0.28	7.11	5/8	15.9	0.91	23.11	0.38	9.65	1.20	30.98	0.91	23.11	0.66	16.90
TTSWE - 8 - 8SW	1/2	12.70	1/2	12.70	0.41	10.41	13/16	20.6	1.02	25.90	0.50	12.70	1.42	36.06	1.02	25.90	0.90	22.90
TTSWE - 12 - 12SW	3/4	19.05	3/4	19.05	0.62	15.74	1-1/16	26.98	1.17	29.72	0.56	14.22	1.57	39.87	1.17	29.72	0.96	24.38
TTSWE - 16 - 16SW	1	25.40	1	25.40	0.88	22.35	1-3/8	34.92	1.45	36.83	0.75	19.05	1.93	49.02	1.45	36.83	1.23	31.20

FEMALE 90° ELBOW

TFE 卡套内牙弯头



UBE (METRIC) TO FEMALE NPT THREAD

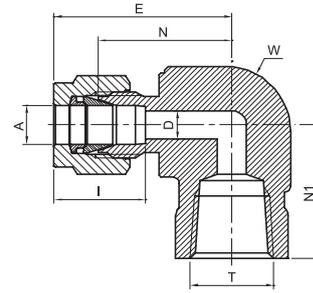
Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E		N1		I	
	mm	in		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
TFE - 6M - 2N	6		1/8	4.8		1/2	12.7	19.6		27.0		21.6		15.3	
TFE - 6M - 4N	6		1/4	4.8		11/16	17.5	22.4		29.8		22.4		15.3	
TFE - 6M - 6N	6		3/8	4.8		13/16	20.6	24.4		31.7		22.4		15.3	
TFE - 6M - 8N	6		1/2	4.8		1	25.4	27.2		34.6		28.4		15.3	
TFE - 8M - 4N	8		1/4	6.4		11/16	17.5	23.1		30.6		22.4		16.2	
TFE - 8M - 8N	8		1/2	6.4		1	25.4	28		35.2		28.4		16.2	
TFE - 10M - 2N	10		1/8	7.9		11/16	17.5	23.9		31.5		21.6		17.2	
TFE - 10M - 4N	10		1/4	7.9		11/16	17.5	25		32.6		22.4		17.2	
TFE - 10M - 6N	10		3/8	7.9		13/16	20.6	25.9		33.5		22.4		17.2	
TFE - 10M - 8N	10		1/2	7.9		1	25.4	28.7		36.1		28.4		17.2	
TFE - 12M - 4N	12		1/4	9.5		13/16	20.6	25.9		36.0		22.4		22.8	
TFE - 12M - 6N	12		3/8	9.5		13/16	20.6	25.9		36.0		22.4		22.8	
TFE - 12M - 8N	12		1/2	9.5		1	25.4	28.7		38.8		28.4		22.8	
TFE - 16M - 8N	16		1/2	11.9		1-1/16	27.0	29.7		39.9		28.4		22.4	

TUBE (INCH) TO FEMALE NPT THREAD

Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E		N1		I	
	in	mm		in	in	mm	in	mm	in	mm	in	mm	in	mm	in
TFE - 2 - 2N	1/8	3.17	1/8	0.09	2.28	1/2	12.7	0.71	18.03	0.97	24.64	0.75	19.05	0.50	12.7
TFE - 2 - 4N	1/8	3.17	1/4	0.09	2.28	11/16	17.5	0.82	20.80	1.08	27.43	0.94	23.75	0.50	12.7
TFE - 3 - 2N	3/16	4.76	1/8	0.12	30.4	1/2	12.7	0.74	18.80	1.00	25.40	0.75	19.05	0.54	13.7
TFE - 4 - 2N	1/4	6.35	1/8	0.19	4.82	1/2	12.7	0.77	19.55	1.06	26.92	0.75	19.05	0.60	15.3
TFE - 4 - 4N	1/4	6.35	1/4	0.19	7.82	11/16	17.5	0.88	22.40	1.17	29.72	0.88	22.40	0.60	15.3
TFE - 4 - 6N	1/4	6.35	3/8	0.19	7.82	13/16	20.6	0.96	24.38	1.25	31.75	0.88	22.40	0.60	15.3
TFE - 4 - 8N	1/4	6.35	1/2	0.19	7.82	1	25.4	1.07	27.18	1.36	34.54	1.12	28.45	0.60	15.3
TFE - 5 - 2N	5/16	7.93	1/8	0.25	6.35	9/16	14.3	0.84	21.30	1.13	28.70	0.75	19.05	0.64	16.2
TFE - 5 - 4N	5/16	7.93	1/4	0.25	6.35	11/16	17.5	0.91	23.11	1.20	30.48	0.88	22.40	0.64	16.2
TFE - 6 - 2N	3/8	9.52	1/8	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	0.75	19.05	0.66	16.9
TFE - 6 - 4N	3/8	9.52	1/4	0.28	7.11	11/16	17.5	0.88	22.40	1.23	31.24	0.88	22.40	0.66	16.9
TFE - 6 - 6N	3/8	9.52	3/8	0.28	7.11	13/16	20.6	1.02	25.90	1.31	33.27	0.88	22.40	0.66	16.9
TFE - 6 - 8N	3/8	9.52	1/2	0.28	7.11	1	25.4	1.12	28.45	1.42	36.07	1.12	28.45	0.66	16.9
TFE - 8 - 4N	1/2	12.70	1/4	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	0.88	22.40	0.90	22.9
TFE - 8 - 6N	1/2	12.70	3/8	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	0.88	22.40	0.90	22.9
TFE - 8 - 8N	1/2	12.70	1/2	0.41	10.41	1	25.4	1.12	28.44	1.53	38.86	1.13	28.70	0.90	22.9
TFE - 10 - 6N	5/8	15.87	3/8	0.50	12.70	15/16	23.8	1.10	27.90	1.50	38.10	0.88	22.40	0.96	24.4
TFE - 10 - 8N	5/8	15.87	1/2	0.50	12.70	1-1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	0.96	24.4
TFE - 12 - 8N	3/4	19.05	1/2	0.62	15.74	1-1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	0.96	24.5
TFE - 12 - 12N	3/4	19.05	3/4	0.62	15.74	1-3/8	34.9	1.25	31.75	1.76	44.70	1.25	31.75	0.96	24.5
TFE - 14 - 12N	7/8	22.22	3/4	0.72	18.28	1-3/8	34.9	1.25	31.75	1.76	44.70	1.25	31.75	1.02	25.9
TFE - 16 - 12N	1	25.40	3/4	0.88	22.35	1-3/8	34.9	1.25	31.75	1.93	49.02	1.25	31.75	1.23	31.2
TFE - 16 - 16N	1	25.40	1	0.88	22.35	1-11/16	42.9	1.50	38.10	2.11	53.59	1.50	38.10	1.23	31.2

FEMALE 90° ELBOW

TFE 卡套内牙弯头

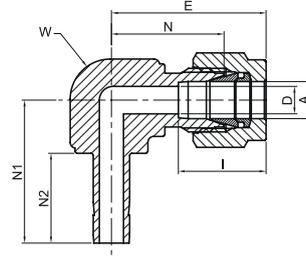
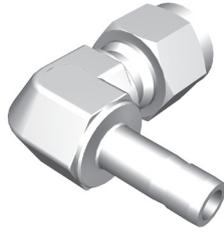


TUBE (METRIC) TO FEMALE ISO TAPERED THREAD														
Part Number	A Tube O.D.		T ISO	D		W Wrench flat		N		E	N1		I	
	mm	in	in	mm	in	mm	in	mm	mm	mm	mm	mm	mm	mm
TFE - 6M - 2P	6		Rc 1/8	4.8	1/2	12.7		19.6		27		21.6		15.3
TFE - 6M - 4P	6		Rc 1/4	4.8	11/16	17.5		22.4		29.8		22.4		15.3
TFE - 6M - 6P	6		Rc 3/8	4.8	13/16	20.6		24.4		31.7		22.4		15.3
TFE - 6M - 8P	6		Rc 1/2	4.8	1	25.4		27.2		34.6		28.4		15.3
TFE - 8M - 4P	8		Rc 1/4	6.4	11/16	17.5		23.1		30.6		22.4		16.2
TFE - 8M - 8P	8		Rc 1/2	6.4	1	25.4		28		35.2		28.4		16.2
TFE - 10M - 2P	10		Rc 1/8	7.9	11/16	17.5		23.9		31.5		21.6		17.2
TFE - 10M - 4P	10		Rc 1/4	7.9	11/16	17.5		25		32.6		22.4		17.2
TFE - 10M - 6P	10		Rc 3/8	7.9	13/16	20.6		25.9		33.5		22.4		17.2
TFE - 10M - 8P	10		Rc 1/2	7.9	1	25.4		28.7		36.1		28.4		17.2
TFE - 12M - 4P	12		Rc 1/4	9.5	13/16	20.6		25.9		36		22.4		22.8
TFE - 12M - 6P	12		Rc 3/8	9.5	13/16	20.6		25.9		36		22.4		22.8
TFE - 12M - 8P	12		Rc 1/2	9.5	1	25.4		28.7		38.8		28.4		22.8
TFE - 16M - 8P	16		Rc 1/2	11.9	1-1/16	27		29.7		39.9		28.4		22.4

TUBE (INCH) TO FEMALE ISO TAPERED THREAD															
Part Number	A Tube O.D.		T ISO	D		W Wrench flat		N		E		N1		I	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TFE - 2 - 2P	1/8	3.17	Rc 1/8	0.09	2.28	1/2	12.7	0.71	18.03	0.97	24.64	0.75	19.05	0.50	12.7
TFE - 2 - 4P	1/8	3.17	Rc 1/4	0.09	2.28	11/16	17.5	0.82	20.80	1.08	27.43	0.94	23.75	0.50	12.7
TFE - 3 - 2P	3/16	4.76	Rc 1/8	0.12	30.4	1/2	12.7	0.74	18.80	1.00	25.40	0.75	19.05	0.54	13.7
TFE - 4 - 2P	1/4	6.35	Rc 1/8	0.19	4.82	1/2	12.7	0.77	19.55	1.06	26.92	0.75	19.05	0.60	15.3
TFE - 4 - 4P	1/4	6.35	Rc 1/4	0.19	7.82	11/16	17.5	0.88	22.40	1.17	29.72	0.88	22.40	0.60	15.3
TFE - 4 - 6P	1/4	6.35	Rc 3/8	0.19	7.82	13/16	20.6	0.96	24.38	1.25	31.75	0.88	22.40	0.60	15.3
TFE - 4 - 8P	1/4	6.35	Rc 1/2	0.19	7.82	1	25.4	1.07	27.18	1.36	34.54	1.12	28.45	0.60	15.3
TFE - 5 - 2P	5/16	7.93	Rc 1/8	0.25	6.35	9/16	14.3	0.84	21.30	1.13	28.70	0.75	19.05	0.64	16.2
TFE - 5 - 4P	5/16	7.93	Rc 1/4	0.25	6.35	11/16	17.5	0.91	23.11	1.20	30.48	0.88	22.40	0.64	16.2
TFE - 6 - 2P	3/8	9.52	Rc 1/8	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	0.75	19.05	0.66	16.9
TFE - 6 - 4P	3/8	9.52	Rc 1/4	0.28	7.11	11/16	17.5	0.88	22.40	1.23	31.24	0.88	22.40	0.66	16.9
TFE - 6 - 6P	3/8	9.52	Rc 3/8	0.28	7.11	13/16	20.6	1.02	25.90	1.31	33.27	0.88	22.40	0.66	16.9
TFE - 6 - 8P	3/8	9.52	Rc 1/2	0.28	7.11	1	25.4	1.12	28.45	1.42	36.07	1.12	28.45	0.66	16.9
TFE - 8 - 4P	1/2	12.70	Rc 1/4	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	0.88	22.40	0.90	22.9
TFE - 8 - 6P	1/2	12.70	Rc 3/8	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	0.88	22.40	0.90	22.9
TFE - 8 - 8P	1/2	12.70	Rc 1/2	0.41	10.41	1	25.4	1.12	28.44	1.53	38.86	1.13	28.70	0.90	22.9
TFE - 10 - 6P	5/8	15.87	Rc 3/8	0.50	12.70	15/16	23.8	1.10	27.90	1.50	38.10	0.88	22.40	0.96	24.4
TFE - 10 - 8P	5/8	15.87	Rc 1/2	0.50	12.70	1-1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	0.96	24.4
TFE - 12 - 8P	3/4	19.05	Rc 1/2	0.62	15.74	1-1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	0.96	24.5
TFE - 12 - 12P	3/4	19.05	Rc 3/4	0.62	15.74	1-3/8	34.9	1.25	31.75	1.76	44.70	1.25	31.75	0.96	24.5
TFE - 14 - 12P	7/8	22.22	Rc 3/4	0.72	18.28	1-3/8	34.9	1.25	31.75	1.76	44.70	1.25	31.75	1.02	25.9
TFE - 16 - 12P	1	25.40	Rc 3/4	0.88	22.35	1-3/8	34.9	1.25	31.75	1.93	49.02	1.25	31.75	1.23	31.2
TFE - 16 - 16P	1	25.40	Rc 1	0.88	22.35	1-11/16	42.9	1.50	38.10	2.11	53.59	1.50	38.10	1.23	31.2

ADJUSTABLE ELBOW

TAE 卡套转卡套管弯头



TUBE(METRIC) TO STUB(METRIC)

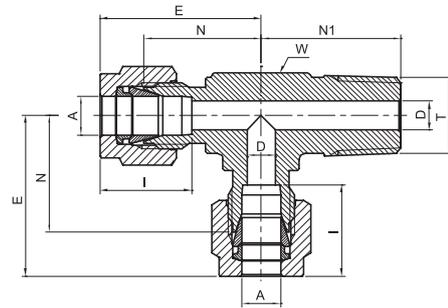
Part Number	A Tube O.D.		D	W Wrench flat		N	E	N1	N2	I
	mm	mm		mm	mm					
TAE - 3M	3	1.9	9.5	15.7	22.3	20.5	13.5	12.9		
TAE - 4M	4	2.2	12.7	18.8	25.4	23.5	14.2	13.7		
TAE - 6M	6	4.1	12.7	19.6	27.0	25.0	15.7	15.3		
TAE - 8M	8	5.6	14.3	21.3	28.8	27.2	16.9	16.2		
TAE - 10M	10	7.1	17.5	23.9	31.5	29.5	17.6	17.2		
TAE - 12M	12	8.8	20.6	25.9	36.0	36	23.3	22.8		
TAE - 15M	15	11.2	23.8	28.7	38.8	41.6	24.7	24.4		
TAE - 16M	16	12.0	23.8	28.7	38.8	41.8	24.7	24.4		
TAE - 18M	18	13.9	27.0	28.7	39.8	42.6	24.7	24.4		
TAE - 20M	20	15.5	30.0	32.5	42.6	47.2	26.6	26.0		

TUBE(INCH) TO TUBE(INCH)

Part Number	A Tube O.D.		D	W Wrench flat		N	E	N1	N2	I
	mm	mm		mm	mm					
TAE - 1	1/16	1.58	0.76	3/8	9.52	14.00	8.63	16.00	8.9	8.6
TAE - 2	1/8	3.17	2.03	3/8	9.52	15.74	12.70	20.59	13.5	12.7
TAE - 3	3/16	4.76	3.04	1/2	12.70	17.78	13.71	22.48	14.2	13.7
TAE - 4	1/4	6.35	4.32	1/2	12.70	19.55	15.24	25.00	15.7	15.32
TAE - 5	5/16	7.93	5.59	9/16	14.28	21.33	16.25	27.08	16.9	16.3
TAE - 6	3/8	9.52	6.86	5/8	15.87	23.11	16.76	26.00	17.5	16.9
TAE - 8	1/2	12.70	9.40	13/16	20.63	25.90	22.86	37.30	23.3	22.9
TAE - 10	5/8	15.87	11.94	15/16	23.80	28.70	24.38	41.75	24.7	24.4
TAE - 12	3/4	19.05	14.73	1-1/16	26.98	29.71	24.38	42.60	24.7	24.5
TAE - 14	7/8	22.22	18.28	1-3/16	30.00	34.54	25.9	49.39	26.6	25.9
TAE - 16	1	25.40	20.32	1-3/8	34.92	36.83	31.24	55.60	33	31.2

MALE RUN TEE

TMRT 边外牙卡套三通接头

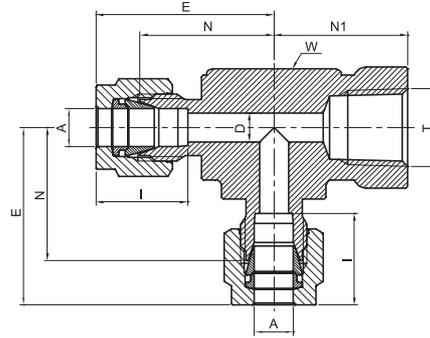


TUBE (METRIC) TO MALE NPT THREAD											
Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N	E	N1	I
	mm	in	in	mm	in	mm	mm	mm	mm	mm	mm
TMRT - 3M - 2N	3		1/8	2.4		1/2	12.7	17.0	23.6	17.8	12.9
TMRT - 3M - 4N	3		1/4	2.4		1/2	12.7	18.0	24.6	23.4	12.9
TMRT - 4M - 2N	4		1/8	2.4		1/2	12.7	18.8	25.4	18.8	13.7
TMRT - 6M - 2N	6		1/8	4.8		1/2	12.7	19.6	27.0	18.8	15.3
TMRT - 6M - 4N	6		1/4	4.8		1/2	12.7	19.6	27.0	23.4	15.3
TMRT - 8M - 2N	8		1/8	4.8		5/8	15.9	22.4	29.9	20.8	16.2
TMRT - 8M - 4N	8		1/4	6.4		5/8	15.9	22.4	29.9	25.4	16.2
TMRT - 10M - 4N	10		1/4	7.1		13/16	20.6	25.9	33.5	28.2	17.2
TMRT - 10M - 6N	10		3/8	7.9		11/16	17.5	23.9	31.5	28.2	17.2
TMRT - 12M - 4N	12		1/4	7.1		13/16	20.6	25.9	36.0	28.2	22.8
TMRT - 12M - 6N	12		3/8	9.5		13/16	20.6	25.9	36.0	28.2	22.8
TMRT - 12M - 8N	12		1/2	9.5		13/16	20.6	25.9	36.0	33.0	22.8
TMRT - 16M - 6N	16		3/8	9.5		15/16	23.8	27.9	38.0	30.2	24.4
TMRT - 16M - 8N	16		1/2	11.9		15/16	23.8	27.9	38.0	35.1	24.4
TMRT - 20M - 12N	20		3/4	15.9		1-3/8	34.9	34.5	44.6	41.7	26.0

TUBE (INCH) TO MALE NPT THREAD															
Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E		N1		I	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TMRT - 2 - 2N	1/8	3.17	1/8	0.09	2.28	7/16	11.1	0.67	17.02	0.93	23.62	0.70	17.78	0.50	12.7
TMRT - 2 - 4N	1/8	3.17	1/4	0.09	2.28	1/2	12.7	0.71	18.03	0.97	24.64	0.92	23.40	0.50	12.7
TMRT - 3 - 2N	3/16	4.76	1/8	0.12	3.05	7/16	11.1	0.70	17.78	0.96	24.38	0.70	17.78	0.54	13.7
TMRT - 4 - 2N	1/4	6.35	1/8	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.92	0.74	18.80	0.60	15.3
TMRT - 4 - 4N	1/4	6.35	1/4	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.92	0.92	23.37	0.60	15.3
TMRT - 5 - 2N	5/16	7.93	1/8	0.19	4.82	5/8	15.9	0.88	22.35	1.17	29.71	0.82	20.83	0.64	16.2
TMRT - 6 - 4N	3/8	9.52	1/4	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	1.00	25.40	0.66	16.9
TMRT - 6 - 6N	3/8	9.52	3/8	0.28	7.11	13/16	20.6	1.02	25.91	1.31	33.27	1.11	28.19	0.66	16.9
TMRT - 8 - 6N	1/2	12.70	3/8	0.38	9.50	13/16	20.6	1.02	25.91	1.42	36.07	1.11	28.19	0.90	22.9
TMRT - 8 - 8N	1/2	12.70	1/2	0.41	10.41	13/16	20.6	1.02	25.91	1.42	36.07	1.30	33.00	0.90	22.9
TMRT - 10 - 8N	5/8	15.87	1/2	0.47	11.94	15/16	23.8	1.10	27.94	1.50	38.10	1.38	35.05	0.96	24.4
TMRT - 12 - 12N	3/4	19.05	3/4	0.62	15.75	1-1/16	27.0	1.17	29.72	1.57	39.88	1.45	36.83	0.96	24.5

FEMALE RUN TEE

TFRT 边内牙卡套三通接头



TUBE (METRIC) TO FEMALE NPT THREAD

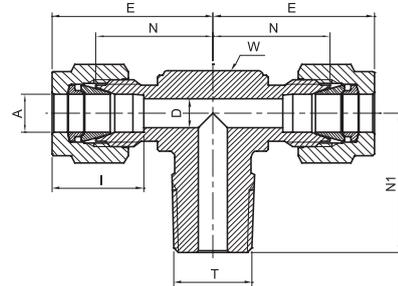
Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E	N1	I	
	mm	in	in	mm	in	mm	mm	mm	mm	mm	mm	mm	mm
TFRT - 6M - 2N	6		1/8	4.8		1/2	12.7	19.6	27.0		19.0	15.3	
TFRT - 6M - 4N	6		1/4	4.8		11/16	17.5	22.4	29.8		22.4	15.3	
TFRT - 6M - 8N	6		1/2	4.8		1	25.4	27.2	34.5		28.4	15.3	
TFRT - 8M - 2N	8		1/8	6.4		5/8	15.9	22.4	29.9		19.0	16.2	
TFRT - 8M - 4N	8		1/4	6.4		11/16	17.5	23.1	30.6		22.4	16.2	
TFRT - 8M - 6N	8		3/8	6.4		13/16	20.6	25.2	32.4		22.4	16.2	
TFRT - 8M - 8N	8		1/2	6.4		1	25.4	28	35.2		28.4	16.2	
TFRT - 10M - 4N	10		1/4	7.9		11/16	17.5	25	32.6		22.4	17.2	
TFRT - 12M - 4N	12		1/4	9.5		13/16	20.6	25.9	36.0		22.4	22.8	
TFRT - 12M - 6N	12		3/8	9.5		13/16	20.6	25.9	36.0		22.4	22.8	
TFRT - 12M - 8N	12		1/2	9.5		1	25.4	28.7	38.8		28.4	22.8	
TFRT - 16M - 8N	16		1/2	12.7		1	25.4	29.7	39.5		28.4	24.4	

TUBE (INCH) TO FEMALE NPT THREAD

Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E		N1		I	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TFRT - 2 - 2N	1/8	3.17	1/8	0.09	2.28	1/2	12.70	0.71	18.00	0.97	24.44	0.75	19.05	0.50	12.70
TFRT - 4 - 2N	1/4	6.35	1/8	0.19	4.82	1/2	12.70	0.77	19.55	1.06	26.92	0.75	19.05	0.60	15.30
TFRT - 4 - 4N	1/4	6.35	1/4	0.19	4.82	11/16	17.50	0.88	22.35	1.17	29.71	0.88	22.35	0.60	15.30
TFRT - 6 - 4N	3/8	9.52	1/4	0.28	7.11	11/16	17.50	0.94	23.87	1.23	31.24	0.88	22.35	0.60	16.90
TFRT - 8 - 6N	1/2	12.70	3/8	0.41	10.41	13/16	20.60	1.02	25.90	1.42	36.07	0.88	22.35	0.90	22.90
TFRT - 8 - 8N	1/2	12.70	1/2	0.41	10.41	1-1/16	27.00	1.17	29.72	1.57	39.88	1.12	28.45	0.90	22.90
TFRT - 12 - 12N	3/4	19.05	3/4	0.62	15.75	1-3/8	34.90	1.36	34.54	1.76	44.70	1.25	31.75	0.90	24.50
TFRT - 16 - 12N	1	25.40	3/4	19.05	22.35	1-3/8	34.90	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.24
TFRT - 16 - 16N	1	25.40	1	25.40	22.35	1-11/16	42.86	1.63	41.40	2.11	53.59	1.50	38.10	1.23	31.24

MALE BRANCH TEE

TMBT 中心外牙卡套三通接头

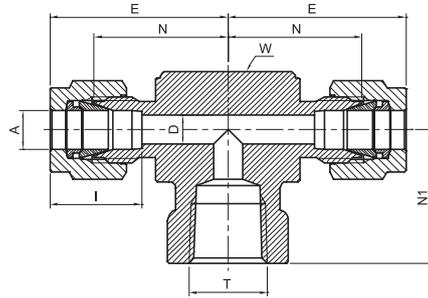


TUBE (METRIC) TO MALE NPT THREAD											
Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N	E	N1	I
	mm	in	in	mm	in	mm	mm	mm	mm	mm	mm
TMBT - 3M - 2N	3		1/8	2.4		1/2	12.7	17.0	23.6	17.8	12.9
TMBT - 3M - 4N	3		1/4	2.4		1/2	12.7	18.0	24.6	23.4	12.9
TMBT - 4M - 2N	4		1/8	2.4		1/2	12.7	18.8	25.4	18.8	13.7
TMBT - 6M - 2N	6		1/8	4.8		1/2	12.7	19.6	27.0	18.8	15.3
TMBT - 6M - 4N	6		1/4	4.8		1/2	12.7	19.6	27.0	23.4	15.3
TMBT - 8M - 2N	8		1/8	4.8		5/8	15.9	22.4	29.9	20.8	16.2
TMBT - 8M - 4N	8		1/4	6.4		5/8	15.9	22.4	29.9	25.4	16.2
TMBT - 10M - 4N	10		1/4	7.1		13/16	20.6	25.9	33.5	28.2	17.2
TMBT - 10M - 6N	10		3/8	7.9		11/16	17.5	23.9	31.5	28.2	17.2
TMBT - 12M - 4N	12		1/4	7.1		13/16	20.6	25.9	36.0	28.2	22.8
TMBT - 12M - 6N	12		3/8	9.5		13/16	20.6	25.9	36.0	28.2	22.8
TMBT - 12M - 8N	12		1/2	9.5		13/16	20.6	25.9	36.0	33.0	22.8
TMBT - 16M - 6N	16		3/8	9.5		15/16	23.8	27.9	38.0	30.2	24.4
TMBT - 16M - 8N	16		1/2	11.9		15/16	23.8	27.9	38.0	35.1	24.4
TMBT - 20M - 12N	20		3/4	15.9		1-3/8	34.9	34.5	44.6	41.7	26.0

TUBE (INCH) TO MALE NPT THREAD															
Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E		N1		I	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TMBT - 2 - 2N	1/8	3.17	1/8	0.09	2.28	7/16	11.1	0.67	17.02	0.93	23.62	0.70	17.78	0.50	12.7
TMBT - 2 - 4N	1/8	3.17	1/4	0.09	2.28	1/2	12.7	0.71	18.03	0.97	24.64	0.92	23.37	0.50	12.7
TMBT - 3 - 2N	3/16	4.76	1/8	0.12	3.04	7/16	11.1	0.70	17.78	0.96	24.38	0.70	17.78	0.54	13.7
TMBT - 4 - 2N	1/4	6.35	1/8	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.90	0.74	18.80	0.60	15.3
TMBT - 4 - 4N	1/4	6.35	1/4	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.90	0.92	23.87	0.60	15.3
TMBT - 5 - 2N	5/16	7.93	1/8	0.19	4.82	5/8	15.9	0.88	22.35	1.17	29.71	0.82	20.83	0.64	16.2
TMBT - 6 - 4N	3/8	9.52	1/4	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	1.00	25.40	0.66	16.9
TMBT - 6 - 6N	3/8	9.52	3/8	0.28	7.11	13/16	20.6	1.02	25.91	1.31	33.27	1.11	28.19	0.66	16.9
TMBT - 8 - 6N	1/2	12.70	3/8	0.38	9.65	13/16	20.6	1.02	25.91	1.42	36.07	1.11	28.19	0.90	22.9
TMBT - 8 - 8N	1/2	12.70	1/2	0.41	10.41	13/16	20.6	1.02	25.96	1.42	36.07	1.30	33.02	0.90	22.9
TMBT - 10 - 8N	5/8	15.87	1/2	0.47	11.94	1	25.4	1.13	28.70	1.53	38.86	1.41	35.80	0.96	24.4
TMBT - 12 - 12N	3/4	19.05	3/4	0.62	15.75	1-1/16	27.0	1.17	29.72	1.57	39.88	1.45	36.83	0.96	24.5

FEMALE BRANCH TEE

TFBT 中心内牙卡套三通接头



TUBE (METRIC) TO FEMALE NPT THREAD

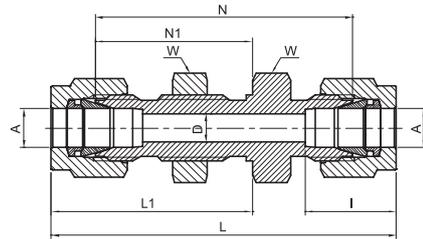
Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E		N1		I	
	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
TFBT - 6M - 2N	6		1/8	4.8		1/2	12.7	19.6		27.0		19.0		15.3	
TFBT - 6M - 4N	6		1/4	4.8		11/16	17.5	22.4		29.8		22.4		15.3	
TFBT - 6M - 6N	6		3/8	4.8		13/16	20.6	24.4		31.7		22.4		15.3	
TFBT - 6M - 8N	6		1/2	4.8		1	25.4	27.2		34.5		28.4		15.3	
TFBT - 8M - 2N	8		1/8	6.4		5/8	15.9	23.1		29.9		19.0		16.2	
TFBT - 8M - 4N	8		1/4	6.4		11/16	17.5	23.1		30.6		22.4		16.2	
TFBT - 8M - 6N	8		3/8	6.4		13/16	20.6	25.2		32.4		22.4		16.2	
TFBT - 8M - 8N	8		1/2	6.4		1	25.4	28.0		35.2		28.4		16.2	
TFBT - 10M - 4N	10		1/4	7.9		13/16	20.6	25.9		33.5		22.4		17.2	
TFBT - 10M - 6N	10		3/8	7.9		13/16	20.6	25.9		33.5		22.4		17.2	
TFBT - 10M - 8N	10		1/2	7.9		1	25.4	28.7		36.1		22.4		17.2	
TFBT - 12M - 4N	12		1/4	9.5		13/16	20.6	25.9		36.0		22.4		22.8	
TFBT - 12M - 6N	12		3/8	9.5		13/16	20.6	25.9		36.0		22.4		22.8	
TFBT - 12M - 8N	12		1/2	9.5		1	25.4	28.7		38.8		28.4		22.8	
TFBT - 16M - 8N	16		1/2	12.7		1	25.4	28.7		38.8		28.4		24.4	

TUBE (INCH) TO FEMALE NPT THREAD

Part Number	A Tube O.D.		T NPT	D		W Wrench flat		N		E		N1		I	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TFBT - 2 - 2N	1/8	3.17	1/8	0.09	2.28	1/2	12.7	0.70	18.00	0.97	24.64	0.75	19.05	0.50	12.7
TFBT - 4 - 2N	1/4	6.35	1/8	0.19	4.82	1/2	12.7	0.77	19.56	1.06	26.96	0.75	19.05	0.60	15.3
TFBT - 4 - 4N	1/4	6.35	1/4	0.19	4.82	11/16	17.5	0.88	22.35	1.17	29.71	0.88	22.35	0.60	15.3
TFBT - 6 - 4N	3/8	9.52	1/4	0.28	7.11	11/16	17.5	0.94	23.88	1.23	31.24	0.88	22.35	0.66	16.9
TFBT - 8 - 4N	1/2	12.70	1/4	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	0.88	22.35	0.90	22.9
TFBT - 8 - 6N	1/2	12.70	3/8	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	0.88	22.35	0.90	22.9
TFBT - 8 - 8N	1/2	12.70	1/2	0.41	10.41	1-1/8	25.4	25.4	28.70	1.53	38.86	1.12	28.45	0.90	22.9
TFBT - 10 - 8N	5/8	15.87	1/2	0.50	12.70	1-1/8	25.4	25.4	28.70	1.53	38.86	1.12	28.44	0.96	24.4
TFBT - 12 - 12N	3/4	19.05	3/4	0.62	15.74	1-3/8	34.9	1.36	34.50	1.76	44.70	1.25	31.75	0.96	24.5
TFBT - 16 - 12N	1	25.40	3/4	0.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
TFBT - 16 - 16N	1	25.40	1	0.88	22.35	1-11/16	42.9	1.63	41.40	2.11	53.60	1.50	38.10	1.23	31.2

BULKHEAD UNION

TBU 穿板卡套接头



TUBE (METRIC) TO TUBE (METRIC)

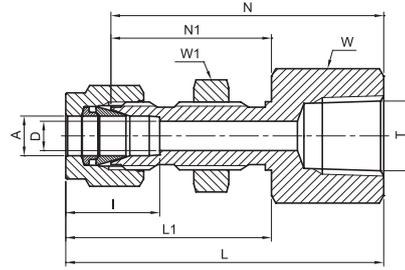
Part Number	A Tube O.D.		D		W Hex. flat		N		N1		L		L1		I		Panel hole drill size	Max. panel thickness
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
TBU - 3M	3		2.4		14		38.1		24.6		51.3		31.2		12.9		8.3	12.7
TBU - 4M	4		2.4		14		40.4		25.4		53.6		32.0		13.7		9.9	12.7
TBU - 6M	6		4.8		16		42.9		26.2		57.7		33.6		15.3		11.5	10.2
TBU - 8M	8		6.4		18		46		28.6		61.0		36.1		16.2		13.1	11.2
TBU - 10M	10		7.9		22		48.5		29.4		63.7		37.0		17.2		16.25	11.2
TBU - 12M	12		9.5		24		50.8		31.8		71.0		41.9		22.8		19.5	12.7
TBU - 15M	15		11.9		27		52.3		32.5		72.5		42.6		24.4		22.8	12.7
TBU - 16M	16		12.7		27		52.3		32.5		72.5		42.6		24.4		22.8	12.7
TBU - 18M	18		15.1		30		58.7		37.3		78.9		47.4		24.4		26.0	16.8
TBU - 20M	20		15.9		35		64.3		42.9		84.5		53.0		26.0		29.0	23.9
TBU - 22M	22		18.3		35		64.3		42.9		84.5		53.0		26.0		29.0	19.1
TBU - 25M	25		21.8		41		71.4		45.2		95.9		57.5		31.3		33.7	19.0
TBU - 32M	32		28.6		50		82.3		49.5		128.3		72.5		42.0		42.5	19.0
TBU - 38M	38		33.7		60		89.4		51.5		144.6		79.1		49.4		50.5	19.0

TUBE (INCH) TO TUBE (INCH)

Part Number	A Tube O.D.		D		W Hex. flat		N		N1		L		L1		I		Panel hole drill size	Max. panel thickness		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm			in	mm
TBU - 1	1/16	1.58	0.05	1.27	5/16	7.9	0.94	23.88	0.53	13.46	1.24	31.5	0.68	17.3	0.34	8.6	13/64	5.16	0.12	3.05
TBU - 2	1/8	3.17	0.09	2.28	1/2	12.7	1.5	38.1	0.97	24.63	2.02	51.3	1.23	31.24	0.5	12.7	21/64	8.33	0.5	12.7
TBU - 3	3/16	4.76	0.12	3.04	9/16	14.3	1.59	40.38	1	25.4	2.11	53.59	1.26	32	0.54	13.7	25/64	9.92	0.5	12.7
TBU - 4	1/4	6.35	0.19	4.82	5/8	15.9	1.69	42.92	1.03	26.16	2.27	57.65	1.32	33.52	0.6	15.3	29/64	11.5	0.4	10.16
TBU - 5	5/16	7.93	0.25	6.35	11/16	17.5	1.81	45.97	1.12	28.44	2.39	60.7	1.41	35.81	0.64	16.2	33/64	13.09	0.44	11.17
TBU - 6	3/8	9.52	0.28	7.11	3/4	19.1	1.87	47.5	1.16	29.46	2.45	62.2	1.45	36.83	0.66	16.9	37/64	14.68	0.44	11.17
TBU - 8	1/2	12.7	0.41	10.41	15/16	23.8	2	50.2	1.25	31.75	2.8	71.12	1.65	41.91	0.9	22.9	49/64	19.44	0.5	12.7
TBU - 10	5/8	15.87	0.5	12.7	1-1/16	27	2.06	52.32	1.28	32.51	2.86	72.64	1.68	42.67	0.96	24.4	57/64	22.62	0.5	12.7
TBU - 12	3/4	19.05	0.62	15.9	1-3/16	30.2	2.31	58.67	1.47	37.33	3.11	78.99	1.87	47.49	0.96	24.5	1-1/64	25.79	0.66	16.76
TBU - 16	1	25.4	0.88	22.35	1-5/8	41.3	2.81	71.37	1.78	45.21	3.77	95.76	2.26	57.4	1.23	31.2	1-21/64	33.73	0.75	19.05
TBU - 20	1-1/4	31.75	1.09	27.7	1-7/8	47.6	3.11	79	1.88	47.75	4.85	123.19	2.75	69.85	1.62	41.2	1-41/64	41.67	0.75	19.05
TBU - 24	1-1/2	38.1	1.34	34	2-1/4	57.2	3.34	84.8	1.94	49.28	5.48	139.19	3.01	76.45	1.97	50	1-61/64	49.61	0.75	19.05
TBU - 32	2	50.8	1.81	45.97	2-3/4	69.9	4.16	105.66	2.22	56.39	7.1	180.34	3.69	93.73	2.66	67.6	2-41/64	67.07	0.75	19.05

BULKHEAD FEMALE CONNECTOR

TBFC 卡套穿板内牙直通接头

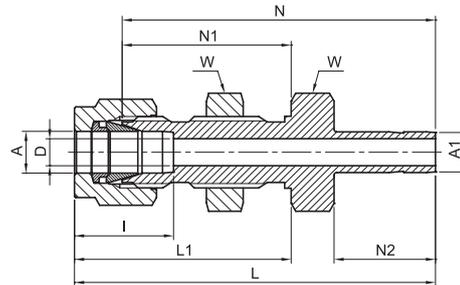


TUBE (INCH) TO MALE NPT THREAD

Part Number	A Tube O.D.		T	D		W Hex. flat		W1 Hex. flat		N		N1		L		L1		I		Panel hole drill size		Max. panel thickness	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TBFC - 2 - 2N	1/8	3.17	1/8	.09	2.28	9/16	14.3	1/2	12.7	1.50	38.10	0.97	24.63	1.76	44.70	1.23	31.24	0.50	12.7	21/64	8.33	0.50	12.70
TBFC - 4 - 2N	1/4	6.35	1/8	.19	4.82	5/8	15.9	5/8	15.9	1.56	39.62	1.03	26.16	1.85	46.99	1.32	33.52	0.60	15.3	29/64	11.50	0.40	10.16
TBFC - 4 - 4N	1/4	6.35	1/4	.19	4.82	3/4	19.1	5/8	15.9	1.75	44.45	1.03	26.16	2.04	51.81	1.32	33.52	0.60	15.3	29/64	11.50	0.40	10.16
TBFC - 6 - 4N	3/8	9.52	1/4	.28	7.11	3/4	19.1	3/4	19.1	1.88	47.75	1.16	29.46	2.17	55.11	1.45	36.83	0.66	16.9	37/64	14.68	0.44	11.17
TBFC - 8 - 6N	1/2	12.70	3/8	.41	10.41	15/16	23.8	15/16	23.8	2.03	51.56	1.25	31.75	2.43	61.72	1.65	41.91	0.90	22.9	49/64	19.44	0.50	12.70
TBFC - 8 - 8N	1/2	12.70	1/2	.41	10.41	1-1/16	27.0	15/16	23.8	2.22	56.38	1.25	31.75	2.62	66.54	1.65	41.91	0.90	22.9	49/64	19.44	0.50	12.70
TBFC - 12 - 12N	3/4	19.05	3/4	.62	15.74	15/16	23.81	1-5/16	33.33	2.50	63.60	1.51	38.30	2.89	73.51	2.89	47.21	0.96	24.38	1-1/64	25.79	0.66	16.76

BULKHEAD REDUCER

TBR 卡套穿板转卡套管直通接头

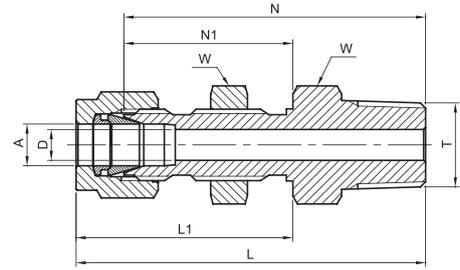


TUBE (INCH) TO SUB (INCH)

Part Number	A Tube O.D.		A1 Tube O.D.	D		W Hex. flat		N		N1		N2		L		L1		I	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TBR - 2	1/8	3.17	1/8	0.08	2.03	1/2	12.70	1.69	42.92	0.97	24.63	0.53	13.46	1.95	49.53	1.23	31.24	0.50	12.7
TBR - 4	1/4	6.35	1/4	0.17	4.20	5/8	15.90	1.91	48.50	1.03	26.16	0.62	15.74	2.20	55.88	1.32	33.52	0.60	15.3
TBR - 6	3/8	9.52	3/8	0.28	7.11	3/4	19.10	2.12	53.85	1.16	29.46	0.69	17.52	2.41	61.21	1.45	36.83	0.66	16.9
TBR - 8	1/2	12.70	1/2	0.39	9.90	15/16	23.80	2.47	62.73	1.25	31.75	0.91	23.11	2.87	72.89	1.65	41.91	0.90	22.9
TBR - 12	3/4	19.05	3/4	0.62	15.90	1-3/16	26.93	2.81	71.45	1.47	37.33	0.97	24.70	3.21	81.53	1.87	47.49	0.96	24.5
TBR - 16	1	25.40	1	0.88	22.35	1-5/8	41.27	3.47	88.13	1.78	45.21	1.30	33.00	3.95	100.33	2.26	57.40	1.23	31.2

BULKHEAD MALE CONNECTOR

TBMC 卡套外牙直通接头



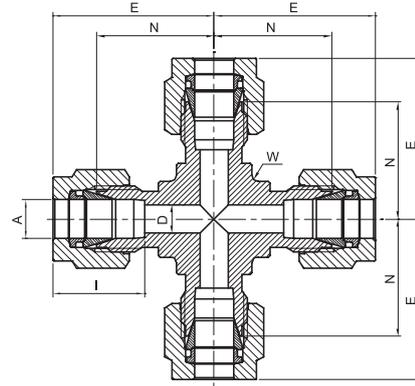
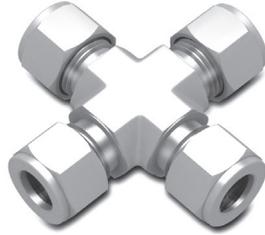
TUBE (METRIC) TO MALE NPT THREAD														
Part Number	A Tube O.D.		T NPT	D		W Hex. flat		N		N1	L	L1	Panel hole drill size	Max. panel thickness
	mm	in	in	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
TBMC - 6M - 2N	6		1/8	4.8		16		42.2		26.2	49.6	33.6	11.5	10.2
TBMC - 6M - 4N	6		1/4	4.8		16		46.2		26.2	53.6	33.6	11.5	10.2
TBMC - 12M - 8N	12		1/2	9.5		24		58.7		31.8	68.8	41.9	19.5	12.7

15.74TUBE (INCH) TO MALE NPT THREAD																			
Part Number	A Tube O.D.		T NPT	D		W Hex. flat		N		N1		L		L1	Panel hole drill size		Max. panel thickness		
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TBMC - 2 - 2N	1/8	3.17	1/8	0.09	2.28	1/2	12.7	1.57	39.90	0.97	24.60	1.83	46.48	1.23	31.24	21/64	8.33	0.50	12.70
TBMC - 4 - 2N	1/4	6.35	1/8	0.19	4.82	5/8	15.9	1.66	12.20	1.03	26.20	1.95	49.53	1.32	33.52	29/64	11.50	0.40	10.16
TBMC - 4 - 4N	1/4	6.35	1/4	0.19	4.82	5/8	15.9	1.84	46.70	1.03	26.16	2.13	54.10	1.32	33.52	29/64	11.50	0.40	10.16
TBMC - 6 - 4N	3/8	9.52	1/4	0.28	7.11	3/4	19.1	1.97	50.00	1.16	29.46	2.26	57.40	1.45	36.83	37/64	14.68	0.44	11.17
TBMC - 8 - 6N	1/2	12.70	3/8	0.40	10.40	15/16	23.8	2.09	53.10	1.25	31.75	2.49	83.25	1.65	41.91	49/64	19.44	0.50	12.70
TBMC - 8 - 8N	1/2	12.70	1/2	0.40	10.40	15/16	23.8	2.31	58.70	1.25	31.70	2.71	68.83	1.65	41.91	49/64	19.44	0.50	12.70
TBMC - 12 - 12N	3/4	19.05	3/4	0.62	15.74	1-3/16	30.16	2.60	66.04	1.47	37.33	3.00	76.20	1.87	47.49	1-1/64	25.76	0.66	16.76
TBMC - 16 - 16N	1	25.40	1	0.88	22.35	1-5/8	41.27	3.19	81.02	1.78	45.21	3.67	93.21	2.26	57.40	1-21/64	33.73	0.75	19.05



UNION CROSS

TUC 卡套四通接头



ALL TUBES (METRIC)

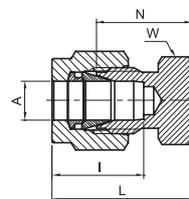
Part Number	A Tube O.D.		D		W Wrench flat		N		E		I	
	mm	mm	mm	mm	in	mm	mm	mm	mm	mm	mm	mm
TUC - 3M	3		2.4		3/8	9.5		15.7		22.3		12.9
TUC - 6M	6		4.8		1/2	12.7		19.6		27.0		15.3
TUC - 8M	8		6.4		5/8	15.9		22.4		29.9		16.2
TUC - 10M	10		7.9		13/16	20.6		25.9		33.5		17.2
TUC - 12M	12		9.5		13/16	20.6		25.9		36.0		22.8
TUC - 18M	18		15.1		1-1/16	27.0		28.2		38.3		24.4
TUC - 20M	20		15.9		1-3/8	34.9		34.5		44.6		26.0
TUC - 25M	25		21.8		1-3/8	34.9		36.8		49.1		31.3

ALL TUBES (INCH)

Part Number	A Tube O.D.		D		W Wrench flat		N		E		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TUC - 1	1/16	1.58	0.05	1.27	3/8	9.5	0.55	14	0.70	17.8	0.34	8.6
TUC - 2	1/8	3.17	0.09	2.28	3/8	9.5	0.62	15.74	0.88	22.35	0.50	12.7
TUC - 4	1/4	6.35	0.19	4.82	1/2	12.7	0.77	19.60	1.06	26.92	0.60	15.3
TUC - 5	5/16	7.93	0.25	6.35	5/8	15.9	0.88	22.35	1.17	29.71	0.64	16.2
TUC - 6	3/8	9.52	0.28	7.11	5/8	15.9	0.91	23.11	1.20	30.48	0.66	16.9
TUC - 8	1/2	12.70	0.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	0.90	22.9
TUC - 12	3/4	19.05	0.62	15.74	1-1/8	27.0	1.17	29.72	1.57	39.88	0.96	24.5
TUC - 16	1	25.40	0.88	22.35	1-3/8	34.9	1.45	36.80	1.93	49.02	1.23	31.2

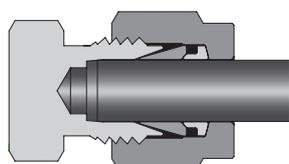
CAP

TC 管帽



CAPPING END OF TUBE (METRIC)									
Part Number	A Tube O.D.		W Hex. flat		N	L		I	
	mm	mm	mm	mm	mm	mm	mm	mm	mm
TC - 2M	2		12		13.5		20.1		12.9
TC - 3M	3		12		13.5		20.1		12.9
TC - 4M	4		12		14.7		21.3		13.7
TC - 6M	6		14		15.7		23.1		15.3
TC - 8M	8		15		17.0		24.5		16.2
TC - 10M	10		18		19.0		26.6		17.2
TC - 12M	12		22		19.0		29.1		22.8
TC - 15M	15		24		19.8		29.9		24.4
TC - 16M	16		24		19.8		29.9		24.4
TC - 18M	18		27		21.3		31.4		24.4
TC - 20M	20		30		23.9		34.0		26.0
TC - 22M	22		30		23.9		34.0		26.0
TC - 25M	25		35		26.2		38.5		31.3
TC - 28M	28		41		27.7		48.5		36.6
TC - 32M	32		46		32.8		55.8		42.0
TC - 38M	38		55		37.8		65.4		49.4

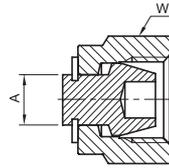
CAPPING END OF TUBE (INCH)										
Part Number	A Tube O.D.		W Hex. flat		N		L		I	
	in	mm	in	mm	in	mm	in	mm	in	mm
TC - 1	1/16	1.58	5/16	7.9	0.44	11.17	0.59	14.98	0.34	8.6
TC - 2	1/8	3.17	7/16	11.1	0.53	13.46	0.79	20.06	0.5	12.7
TC - 3	3/16	4.76	7/16	11.1	0.58	14.73	0.84	21.84	0.54	13.7
TC - 4	1/4	6.35	1/2	12.7	0.63	16	0.92	23.37	0.6	15.3
TC - 5	5/16	7.93	9/16	14.3	0.67	17.01	0.96	24.38	0.64	16.2
TC - 6	3/8	9.52	5/8	15.9	0.72	18.28	1.01	25.65	0.66	16.9
TC - 8	1/2	12.7	13/16	20.6	0.75	19.05	1.15	29.21	0.9	22.9
TC - 10	5/8	15.87	15/16	23.8	0.78	19.81	1.18	29.97	0.96	24.4
TC - 12	3/4	19.05	1-1/16	27	0.84	21.33	1.24	31.49	0.96	24.5
TC - 14	7/8	22.22	1-3/16	30.2	0.94	23.88	1.34	34.04	1.02	25.9
TC - 16	1	25.4	1-3/8	34.9	1.03	26.16	1.51	38.35	1.23	31.2
TC - 20	1-1/4	31.75	1-3/4	44.5	1.23	31.24	2.1	53.34	1.62	41.2
TC - 24	1-1/2	38.1	2-1/8	54.0	1.47	37.33	2.54	64.52	1.97	50.0
TC - 32	2	50.8	2-3/4	69.9	1.94	49.28	3.41	86.61	2.66	67.6



"D" - Dimension is minimum opening - dimensions are for reference only, and are subject to change without notice. For 1/16, 1/8 and 3/16 in 2, 3 and 4mm tube fittings, tighten the nut 3/4 turn.

PLUG

TP 堵头



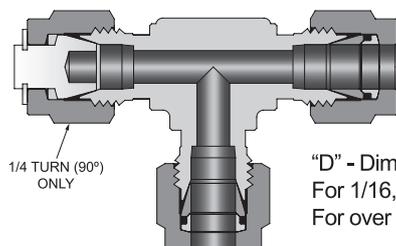
PLUGGING UNUSED PORT OF FITTING (METRIC)

Part Number	A Tube O.D.		W Hex. flat	
	mm		mm	
TP - 3M	3		12	
TP - 4M	4		12	
TP - 6M	6		14	
TP - 8M	8		16	
TP - 10M	10		19	
TP - 12M	12		22	
TP - 15M	15		25	
TP - 16M	16		25	
TP - 18M	18		30	
TP - 20M	20		32	
TP - 22M	22		32	
TP - 25M	25		38	
TP - 28M	28		46	
TP - 32M	32		50	
TP - 38M	38		60	
TP - 42M	42		65	

PLUGGING UNUSED PORT OF FITTING (INCH)

Part Number	A Tube O.D.		W Hex. flat	
	in	mm	in	mm
TP - 1	1/16	1.58	5/16	7.9
TP - 2	1/8	3.17	7/16	11.1
TP - 3	3/16	4.76	1/2	12.7
TP - 4	1/4	6.35	9/16	14.3
TP - 5	5/16	7.93	5/8	15.9
TP - 6	3/8	9.52	11/16	17.5
TP - 8	1/2	12.7	7/8	22.2
TP - 10	5/8	15.87	1	25.4
TP - 12	3/4	19.05	1-1/8	28.6
TP - 16	1	25.4	1-1/2	38.1
TP - 20	1-1/4	31.75	1-7/8	47.6
TP - 24	1-1/2	38.1	2-1/4	57.2
TP - 32	2	50.8	3	76.2

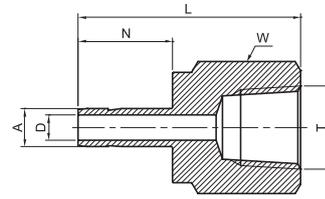
PLUG ASSEMBLY INSTRUCTIONS



"D" - Dimension is minimum opening - dimensions are for reference only, and are subject to change without notice.
 For 1/16, 1/8 and 3/16 in 2, 3 and 4mm tube fittings, tighten the plug 1/8 turn.
 For over 1 in and over 25mm tube fittings, tighten the plug 1/4 turn.

FEMALE TUBE ADAPTER

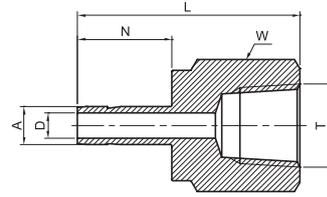
TFTA 卡套管转内牙接头



TUBE (METRIC) FEMALE PIPE						
Part Number	A Tube O.D.	T NPT	D	W Hex. flat	N	L
	mm	in	mm	mm	mm	mm
TFTA - 3M - 2N	3	1/8	2.1	14	13.5	31.5
TFTA - 3M - 4N	3	1/4	2.1	19	13.5	35.3
TFTA - 4M - 4N	4	1/4	2.2	19	14.2	35.0
TFTA - 6M - 2N	6	1/8	4.0	14	15.7	32.5
TFTA - 6M - 4N	6	1/4	4.0	19	15.7	36.5
TFTA - 6M - 6N	6	3/8	4.0	22	15.7	39.6
TFTA - 6M - 8N	6	1/2	4.0	27	15.7	45.5
TFTA - 8M - 2N	8	1/8	5.6	14	16.9	34.3
TFTA - 8M - 4N	8	1/4	5.6	19	16.9	37.6
TFTA - 8M - 8N	8	1/2	5.6	27	16.9	46.0
TFTA - 10M - 4N	10	1/4	7.1	19	17.6	38.1
TFTA - 10M - 6N	10	3/8	7.1	22	17.6	40.1
TFTA - 10M - 8N	10	1/2	7.7	27	17.6	46.5
TFTA - 12M - 4N	12	1/4	8.8	19	23.3	43.4
TFTA - 12M - 6N	12	3/8	8.8	22	23.3	45.5
TFTA - 12M - 8N	12	1/2	8.8	27	23.3	52.3
TFTA - 16M - 6N	16	3/8	12.7	24	24.7	48.0
TFTA - 16M - 8N	16	1/2	12.7	27	24.7	53.1
TFTA - 20M - 8N	20	1/2	15.1	27	26.6	56.0
TFTA - 20M - 12N	20	3/4	15.1	35	26.6	56.0

FEMALE TUBE ADAPTER

TFTA 卡套管转内牙接头

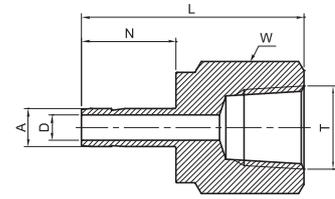


TUBE (INCH) FEMALE PIPE NPT THREAD

Part Number	A Tube O.D.		T NPT	D		W Hex. flat		N		L	
	in	mm	in	in	mm	in	mm	in	mm	in	mm
TFTA - 2 - 2N	1/8	3.17	1/8	0.08	2.2	9/16	14.3	0.53	13.5	1.24	31.5
TFTA - 2 - 4N	1/8	3.17	1/4	0.08	2.2	3/4	19.1	0.53	13.5	1.39	35.3
TFTA - 3 - 4N	3/16	4.76	1/4	0.12	3.0	3/4	19.1	0.56	14.2	1.41	35.8
TFTA - 4 - 2N	1/4	6.35	1/8	0.17	4.2	9/16	14.3	0.62	15.7	1.30	33.0
TFTA - 4 - 4N	1/4	6.35	1/4	0.17	4.2	3/4	19.1	0.62	15.7	1.46	37.1
TFTA - 4 - 6N	1/4	6.35	3/8	0.17	4.2	7/8	22.2	0.62	15.7	1.55	39.4
TFTA - 4 - 8N	1/4	6.35	1/2	0.17	4.2	1-1/16	27.0	0.62	15.7	1.79	45.5
TFTA - 5 - 4N	5/16	7.93	1/4	0.24	6.0	3/4	19.1	0.67	16.9	1.48	37.6
TFTA - 6 - 2N	3/8	9.52	1/8	0.27	6.85	9/16	14.3	0.69	17.5	1.35	34.3
TFTA - 6 - 4N	3/8	9.52	1/4	0.27	6.85	3/4	19.1	0.69	17.5	1.50	38.1
TFTA - 6 - 6N	3/8	9.52	3/8	0.27	6.85	7/8	22.2	0.69	17.5	1.59	40.4
TFTA - 6 - 8N	3/8	9.52	1/2	0.27	6.85	1-1/16	27.0	0.69	17.5	1.84	46.7
TFTA - 8 - 4N	1/2	12.70	1/4	0.37	9.4	3/4	19.1	0.92	23.3	1.71	43.4
TFTA - 8 - 6N	1/2	12.70	3/8	0.37	9.4	7/8	22.2	0.92	23.3	1.79	45.5
TFTA - 8 - 8N	1/2	12.70	1/2	0.37	9.4	1-1/16	27.0	0.92	23.3	2.04	51.8
TFTA - 10 - 8N	5/8	15.87	1/2	0.50	12.7	1-1/16	27.0	0.97	24.7	2.09	53.1
TFTA - 12 - 8N	3/4	19.05	1/2	0.59	15.0	1-1/16	27.0	0.97	24.7	2.08	52.8
TFTA - 12 - 12N	3/4	19.05	3/4	0.59	15.0	1-5/16	33.3	0.97	24.7	2.16	54.9
TFTA - 12 - 16N	3/4	19.05	1	0.59	15.0	1-5/8	41.3	0.97	24.7	2.30	58.4
TFTA - 16 - 12N	1	25.40	3/4	0.80	20.3	1-5/16	33.3	1.30	33.0	2.39	60.7
TFTA - 16 - 16N	1	25.4	1	0.8	20.3	1-5/8	41.3	1.3	33	2.53	64.3
TFTA - 20 - 20N	1-1/4	31.75	1-1/4	1.02	25.9	2-1/8	54	1.72	43.9	3.06	77.7
TFTA - 24 - 24N	1-1/2	38.1	1-1/2	1.25	31.8	2-3/8	60.3	2.06	52.5	3.5	88.9
TFTA - 32 - 32N	2	50.8	2	1.72	43.7	2-7/8	73.03	2.73	69.4	4.22	107.44

FEMALE TUBE ADAPTER

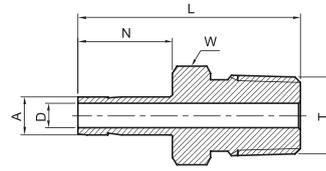
TFTA 卡套管转内牙接头



TUBE (INCH) FEMALE PIPE ISO TAPERED THREAD											
Part Number	A Tube O.D.		T ISO	D		W Hex. flat		N		L	
	in	mm	in	in	mm	in	mm	in	mm	in	mm
TFTA - 2 - 2P	1/8	3.17	Rc 1/8	0.08	2.2	9/16	14.3	0.53	13.5	1.24	31.5
TFTA - 2 - 4P	1/8	3.17	Rc 1/4	0.08	2.2	3/4	19.1	0.53	13.5	1.39	35.3
TFTA - 3 - 4P	3/16	4.76	Rc 1/4	0.12	3.0	3/4	19.1	0.56	14.2	1.41	35.8
TFTA - 4 - 2P	1/4	6.35	Rc 1/8	0.17	4.2	9/16	14.3	0.62	15.7	1.30	33.0
TFTA - 4 - 4P	1/4	6.35	Rc 1/4	0.17	4.2	3/4	19.1	0.62	15.7	1.46	37.1
TFTA - 4 - 6P	1/4	6.35	Rc 3/8	0.17	4.2	7/8	22.2	0.62	15.7	1.55	39.4
TFTA - 4 - 8P	1/4	6.35	Rc 1/2	0.17	4.2	1-1/16	27.0	0.62	15.7	1.79	45.5
TFTA - 5 - 4P	5/16	7.93	Rc 1/4	0.24	6.0	3/4	19.1	0.67	16.9	1.48	37.6
TFTA - 6 - 2P	3/8	9.52	Rc 1/8	0.27	6.85	9/16	14.3	0.69	17.5	1.35	34.3
TFTA - 6 - 4P	3/8	9.52	Rc 1/4	0.27	6.85	3/4	19.1	0.69	17.5	1.50	38.1
TFTA - 6 - 6P	3/8	9.52	Rc 3/8	0.27	6.85	7/8	22.2	0.69	17.5	1.59	40.4
TFTA - 6 - 8P	3/8	9.52	Rc 1/2	0.27	6.85	1-1/16	27.0	0.69	17.5	1.84	46.7
TFTA - 8 - 4P	1/2	12.70	Rc 1/4	0.37	9.4	3/4	19.1	0.92	23.3	1.71	43.4
TFTA - 8 - 6P	1/2	12.70	Rc 3/8	0.37	9.4	7/8	22.2	0.92	23.3	1.79	45.5
TFTA - 8 - 8P	1/2	12.70	Rc 1/2	0.37	9.4	1-1/16	27.0	0.92	23.3	2.04	51.8
TFTA - 10 - 8P	5/8	15.87	Rc 1/2	0.50	12.7	1-1/16	27.0	0.97	24.7	2.09	53.1
TFTA - 12 - 8P	3/4	19.05	Rc 1/2	0.59	15.0	1-1/16	27.0	0.97	24.7	2.08	52.8
TFTA - 12 - 12P	3/4	19.05	Rc 3/4	0.59	15.0	1-5/16	33.3	0.97	24.7	2.16	54.9
TFTA - 12 - 16P	3/4	19.05	Rc 1	0.59	15.0	1-5/8	41.3	0.97	24.7	2.30	58.4
TFTA - 16 - 12P	1	25.40	Rc 3/4	0.80	20.3	1-5/16	33.3	1.30	33.0	2.39	60.7
TFTA - 16 - 16P	1	25.4	Rc 1	0.8	20.3	1-5/8	41.3	1.3	33.0	2.53	64.3
TFTA - 20 - 20P	1-1/4	31.75	Rc 1-1/4	1.02	25.9	2-1/8	54	1.72	43.9	3.06	77.7
TFTA - 24 - 24P	1-1/2	38.1	Rc 1-1/2	1.25	31.8	2-3/8	60.3	2.06	52.5	3.5	88.9
TFTA - 32 - 32P	2	50.8	Rc 2	1.72	43.7	2-7/8	73.03	2.73	69.4	4.22	107.44

MALE TUBE ADAPTER

TMTA 卡套管转外牙接头

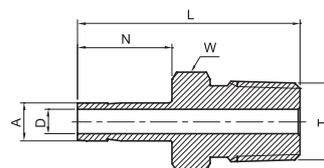


TUBE (METRIC) MALE PIPE NPT THREAD

Part Number	A Tube O.D.	T NPT	D	W Hex. flat	N	L
	mm	in	mm	mm	mm	mm
TMTA - 3M - 2N	3	1/8	2.1	12	13.5	30.0
TMTA - 3M - 4N	3	1/4	2.1	14	13.5	35.3
TMTA - 6M - 2N	6	1/8	4.0	12	15.7	32.8
TMTA - 6M - 4N	6	1/4	4.0	14	15.7	38.1
TMTA - 6M - 6N	6	3/8	4.0	14	15.7	37.0
TMTA - 6M - 8N	6	1/2	4.0	22	15.7	43.4
TMTA - 8M - 2N	8	1/8	5.6	12	16.9	33.5
TMTA - 8M - 4N	8	1/4	5.6	14	16.9	39.1
TMTA - 8M - 8N	8	1/2	5.6	22	16.9	43.0
TMTA - 10M - 4N	10	1/4	7.1	14	17.6	39.9
TMTA - 10M - 6N	10	3/8	7.7	18	17.6	40.6
TMTA - 10M - 8N	10	1/2	7.7	22	17.6	46.2
TMTA - 12M - 4N	12	1/4	8.8	16	23.3	46.5
TMTA - 12M - 6N	12	3/8	8.8	18	23.3	46.5
TMTA - 12M - 8N	12	1/2	8.8	22	23.3	52.0
TMTA - 16M - 8N	16	1/2	12.7	22	24.7	50.5
TMTA - 20M - 12N	20	3/4	15.1	27	26.6	54.3

MALE TUBE ADAPTER

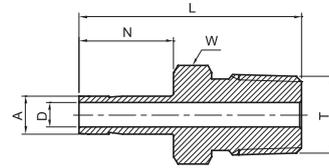
TMTA 卡套管转外牙接头



TUBE (INCH) MALE PIPE NPT THREAD											
Part Number	A Tube O.D.		T NPT	D		W Hex. flat		N		L	
	in	mm	in	in	mm	in	mm	in	mm	in	mm
TMTA - 2 - 2N	1/8	3.17	1/8	0.09	2.2	7/16	11.1	0.53	13.5	1.16	29.5
TMTA - 2 - 4N	1/8	3.17	1/4	0.09	2.2	9/16	14.3	0.53	13.5	1.37	34.8
TMTA - 3 - 2N	3/16	4.76	1/8	0.12	3.0	7/16	11.1	0.56	14.2	1.19	30.2
TMTA - 3 - 4N	3/16	4.76	1/4	0.12	3.0	9/16	14.3	0.56	14.2	1.40	35.6
TMTA - 4 - 2N	1/4	6.35	1/8	0.17	4.2	7/16	11.1	0.62	15.7	1.25	31.8
TMTA - 4 - 4N	1/4	6.35	1/4	0.17	4.2	9/16	14.3	0.62	15.7	1.46	37.1
TMTA - 4 - 6N	1/4	6.35	3/8	0.17	4.2	11/16	17.5	0.62	15.7	1.49	37.9
TMTA - 4 - 8N	1/4	6.35	1/2	0.17	4.2	7/8	22.2	0.62	15.7	1.71	43.4
TMTA - 5 - 2N	5/16	7.93	1/8	0.24	6.0	7/16	11.1	0.67	16.9	1.29	32.7
TMTA - 5 - 4N	5/16	7.93	1/4	0.24	6.0	9/16	14.3	0.67	16.9	1.50	38.1
TMTA - 6 - 2N	3/8	9.52	1/8	0.28	7.1	7/16	11.1	0.69	17.5	1.32	33.5
TMTA - 6 - 4N	3/8	9.52	1/4	0.28	7.1	9/16	14.3	0.69	17.5	1.53	38.9
TMTA - 6 - 6N	3/8	9.52	3/8	0.28	7.1	11/16	17.5	0.69	17.5	1.56	39.6
TMTA - 6 - 8N	3/8	9.52	1/2	0.28	7.1	7/8	22.2	0.69	17.5	1.78	45.2
TMTA - 8 - 4N	1/2	12.70	1/4	0.37	9.4	9/16	14.3	0.92	23.3	1.75	44.5
TMTA - 8 - 6N	1/2	12.70	3/8	0.37	9.4	11/16	17.5	0.92	23.3	1.78	45.2
TMTA - 8 - 8N	1/2	12.70	1/2	0.37	9.4	7/8	22.2	0.92	23.3	2.00	50.8
TMTA - 10 - 6N	5/8	15.87	3/8	0.50	12.7	11/16	17.5	0.97	24.7	1.81	47.6
TMTA - 10 - 8N	5/8	15.87	1/2	0.50	12.7	7/8	22.2	0.97	24.7	2.06	52.3
TMTA - 10 - 12N	5/8	15.87	3/4	0.50	12.7	1-1/16	27.0	0.97	24.7	2.06	52.3
TMTA - 12 - 8N	3/4	19.05	1/2	0.59	15.0	7/8	22.2	0.97	24.7	2.06	52.3
TMTA - 12 - 12N	3/4	19.05	3/4	0.59	15.0	1-1/16	27.0	0.97	24.7	2.06	52.3
TMTA - 12 - 16N	3/4	19.05	1	0.59	15.0	1-3/8	34.9	0.97	24.7	2.28	57.3
TMTA - 14 - 12N	7/8	22.22	3/4	0.60	15.9	1-1/16	27.0	1.05	26.6	2.09	54.3
TMTA - 16 - 12N	1	25.40	3/4	0.80	20.3	1-1/16	27.0	1.30	33.0	2.31	58.7
TMTA - 16 - 16N	1	25.4	1	0.80	20.3	1-3/8	34.9	1.3	33.0	2.6	66.0
TMTA - 20 - 20N	1-1/4	31.75	1-1/4	1.02	25.9	1-3/4	44.5	1.72	43.9	3.16	80.3
TMTA - 24 - 24N	1-1/2	38.1	1-1/2	1.25	31.8	2-1/8	54.0	2.06	52.5	3.72	94.5
TMTA - 32 - 32N	2	50.8	2	1.72	43.7	2-9/16	65.1	2.73	69.4	3.72	119.4

MALE TUBE ADAPTER

TMTA 卡套管转外牙接头

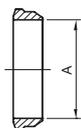


TUBE (INCH) MALE PIPE ISO TAPERED THREAD

Part Number	A Tube O.D.		T ISO	D		W Hex. flat		N		L	
	in	mm	in	in	mm	in	mm	in	mm	in	mm
TMTA - 2 - 2P	1/8	3.17	R 1/8	0.09	2.2	7/16	11.1	0.53	13.5	1.16	29.5
TMTA - 2 - 4P	1/8	3.17	R 1/4	0.09	2.2	9/16	14.3	0.53	13.5	1.37	34.8
TMTA - 3 - 2P	3/16	4.76	R 1/8	0.12	3.0	7/16	11.1	0.56	14.2	1.19	30.2
TMTA - 3 - 4P	3/16	4.76	R 1/4	0.12	3.0	9/16	14.3	0.56	14.2	1.40	35.6
TMTA - 4 - 2P	1/4	6.35	R 1/8	0.17	4.2	7/16	11.1	0.62	15.7	1.25	31.8
TMTA - 4 - 4P	1/4	6.35	R 1/4	0.17	4.2	9/16	14.3	0.62	15.7	1.46	37.1
TMTA - 4 - 6P	1/4	6.35	R 3/8	0.17	4.2	11/16	17.5	0.62	15.7	1.49	37.9
TMTA - 4 - 8P	1/4	6.35	R 1/2	0.17	4.2	7/8	22.2	0.62	15.7	1.71	43.4
TMTA - 5 - 2P	5/16	7.93	R 1/8	0.24	6.0	7/16	11.1	0.67	16.9	1.29	32.7
TMTA - 5 - 4P	5/16	7.93	R 1/4	0.24	6.0	9/16	14.3	0.67	16.9	1.50	38.1
TMTA - 6 - 2P	3/8	9.52	R 1/8	0.28	7.1	7/16	11.1	0.69	17.5	1.32	33.5
TMTA - 6 - 4P	3/8	9.52	R 1/4	0.28	7.1	9/16	14.3	0.69	17.5	1.53	38.9
TMTA - 6 - 6P	3/8	9.52	R 3/8	0.28	7.1	11/16	17.5	0.69	17.5	1.56	39.6
TMTA - 6 - 8P	3/8	9.52	R 1/2	0.28	7.1	7/8	22.2	0.69	17.5	1.78	45.2
TMTA - 8 - 4P	1/2	12.70	R 1/4	0.28	7.1	9/16	14.3	0.92	23.3	1.75	44.5
TMTA - 8 - 6P	1/2	12.70	R 3/8	0.39	9.9	11/16	17.5	0.92	23.3	1.78	45.2
TMTA - 8 - 8P	1/2	12.70	R 1/2	0.39	9.9	7/8	22.2	0.92	23.3	2.00	50.8
TMTA - 10 - 6P	5/8	15.87	R 3/8	0.50	12.7	11/16	17.5	0.97	24.7	1.81	47.6
TMTA - 10 - 8P	5/8	15.87	R 1/2	0.50	12.7	7/8	22.2	0.97	24.7	2.06	52.3
TMTA - 10 - 12P	5/8	15.87	R 3/4	0.50	12.7	1-1/16	27.0	0.97	24.7	2.06	52.3
TMTA - 12 - 8P	3/4	19.05	R 1/2	0.59	15.0	7/8	22.2	0.97	24.7	2.06	52.3
TMTA - 12 - 12P	3/4	19.05	R 3/4	0.59	15.0	1-1/16	27.0	0.97	24.7	2.06	52.3
TMTA - 12 - 16P	3/4	19.05	R 1	0.59	15.0	1-3/8	34.9	0.97	24.7	2.28	57.3
TMTA - 14 - 12P	7/8	22.22	R 3/4	0.60	15.9	1-1/16	27.0	1.05	26.6	2.09	54.3
TMTA - 16 - 16P	1	25.4	R 1	0.8	20.3	1-3/8	34.9	1.3	33.0	2.6	66.0
TMTA - 20 - 20P	1-1/4	31.75	R 1-1/4	1.02	25.9	1-3/4	44.5	1.72	43.9	3.16	80.3
TMTA - 24 - 24P	1-1/2	38.1	R 1-1/2	1.25	31.8	2-1/8	54.0	2.06	52.5	3.72	94.5
TMTA - 32 - 32P	2	50.8	R 2	1.72	43.7	2-9/16	65.1	2.73	69.4	3.72	119.4

BACK FERRULE

TBF 后卡

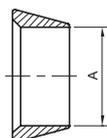


METRIC	
Part Number	A Tube O.D.
	mm
TBF - 2M	2
TBF - 3M	3
TBF - 4M	4
TBF - 6M	6
TBF - 8M	8
TBF - 10M	10
TBF - 12M	12
TBF - 14M	14
TBF - 15M	15
TBF - 16M	16
TBF - 18M	18
TBF - 20M	20
TBF - 25M	25
TBF - 28M	28
TBF - 32M	32
TBF - 38M	38
TBF - 42M	42

INCH		
Part Number	A Tube O.D.	
	in	mm
TBF - 1	1/16	1.58
TBF - 2	1/8	3.17
TBF - 3	3/16	4.76
TBF - 4	1/4	6.35
TBF - 5	5/16	7.93
TBF - 6	3/8	9.52
TBF - 8	1/2	12.70
TBF - 10	5/8	15.87
TBF - 12	3/4	19.05
TBF - 14	7/8	22.22
TBF - 16	1	25.40
TBF - 20	1-1/4	31.75
TBF - 24	1-1/2	38.10
TBF - 32	2	50.80

FRONT FERRULE

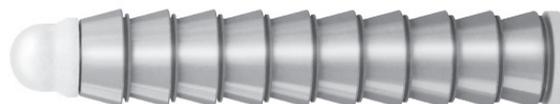
TFF 前卡



METRIC		INCH		
Part Number	A Tube O.D.	Part Number	A Tube O.D.	
	mm		in	mm
TFF - 2M	2	TFF - 1	1/16	1.58
TFF - 3M	3	TFF - 2	1/8	3.17
TFF - 4M	4	TFF - 3	3/16	4.76
TFF - 6M	6	TFF - 4	1/4	6.35
TFF - 8M	8	TFF - 5	5/16	7.93
TFF - 10M	10	TFF - 6	3/8	9.52
TFF - 12M	12	TFF - 8	1/2	12.70
TFF - 14M	14	TFF - 10	5/8	15.87
TFF - 15M	15	TFF - 12	3/4	19.05
TFF - 16M	16	TFF - 14	7/8	22.22
TFF - 18M	18	TFF - 16	1	25.40
TFF - 20M	20	TFF - 20	1-1/4	31.75
TFF - 22M	22	TFF - 24	1-1/2	38.10
TFF - 25M	25	TFF - 32	2	50.80
TFF - 28M	28			
TFF - 32M	32			
TFF - 38M	38			
TFF - 42M	42			

FERRULE SET

TFS 卡圈组件

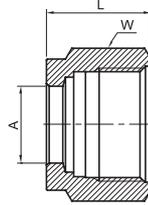


METRIC		INCH		
Part Number	Tube O.D.	Part Number	Tube O.D.	
	mm		in	mm
TFS - 2M	2	TFS - 1	1/16	1.58
TFS - 3M	3	TFS - 2	1/8	3.17
TFS - 4M	4	TFS - 3	3/16	4.76
TFS - 6M	6	TFS - 4	1/4	6.35
TFS - 8M	8	TFS - 5	5/16	7.93
TFS - 10M	10	TFS - 6	3/8	9.52
TFS - 12M	12	TFS - 8	1/2	12.7
TFS - 14M	14	TFS - 10	5/8	15.87
TFS - 15M	15	TFS - 12	3/4	19.05
TFS - 16M	16	TFS - 14	7/8	22.22
TFS - 18M	18	TFS - 16	1	25.40
TFS - 20M	20	TFS - 20	1-1/4	31.75
TFS - 22M	22	TFS - 24	1-1/2	38.10
TFS - 25M	25	TFS - 32	2	50.80
TFS - 28M	28			
TFS - 32M	32			
TFS - 38M	38			
TFS - 42M	42			

* The ferrule set contains one front ferrule and back ferrule.
Please order ferrule sets in multiples of ten.

NUT

TFN



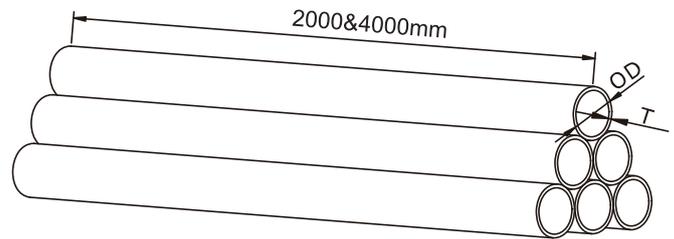
Part Number	METRIC		
	A Tube O.D.	W Hex. Flat	L
	mm	mm	mm
TFN - 2M	2	12	11.9
TFN - 3M	3	12	11.9
TFN - 4M	4	12	11.9
TFN - 6M	6	14	12.7
TFN - 8M	8	16	13.5
TFN - 10M	10	19	15.1
TFN - 12M	12	22	17.4
TFN - 14M	14	25	17.4
TFN - 15M	15	25	17.4
TFN - 16M	16	25	17.4
TFN - 18M	18	30	17.4
TFN - 20M	20	32	17.4
TFN - 22M	22	32	17.4
TFN - 25M	25	38	20.6
TFF - 28M	28	46	30.6
TFF - 32M	32	50	34.4
TFF - 38M	38	60	40.6
TFF - 42M	42	65	44.7

Part Number	INCH					
	A Tube O.D.		W Hex. Flat		L	
	in	mm	in	mm	in	mm
TFN - 1	1/16	1.58	5/16	7.9	0.31	7.87
TFN - 2	1/8	3.17	7/16	11.1	0.47	11.93
TFN - 3	3/16	4.76	1/2	12.7	0.47	11.93
TFN - 4	1/4	6.35	9/16	14.3	0.50	12.70
TFN - 5	5/16	7.93	5/8	15.9	0.53	13.46
TFN - 6	3/8	9.52	11/16	17.5	0.56	14.20
TFN - 8	1/2	12.70	7/8	22.2	0.69	17.50
TFN - 10	5/8	15.87	1	25.4	0.69	17.52
TFN - 12	3/4	19.05	1-1/8	28.6	0.69	17.50
TFN - 14	7/8	22.22	1-1/4	31.8	0.69	17.52
TFN - 16	1	25.4	1-1/2	38.1	0.81	20.57
TFN - 20	1-1/4	31.75	1-7/8	47.6	1.25	31.75
TFN - 24	1-1/2	38.1	2-1/4	57.2	1.50	38.10
TFN - 32	2	50.8	3	76.2	2.06	52.32



TUBE

Material	316L/304
Surface treatment	EP/BA/AP
Range of size	1/8" -12"
Comply with specification	ASTM A269



Part Number	INCH	
	Tube Size	
	OD	T
66759-0018	1/8	0.6
66759-0014	1/4	0.89
66759-0038	3/8	0.89
66759-0050	1/2	1&1.24
66759-0075	3/4	1.65
66759-0100	1	1.65
66759-0150	1-1/2	1.65
66759-0200	2	1.65

Part Number	METRIC	
	Tube Size	
	OD	T
66759-0003M	3	0.5
66759-0004M	4	1
66759-0006M	6	1
66759-0008M	8	1
66759-0010M	10	1
66759-0012M	12	1
66759-0014M	14	1
66759-0016M	16	1&1.5
66759-0018M	18	1&1.5
66759-0020M	20	1.5
66759-0022M	22	1.5
66759-0025M	25	1.5&2
66759-0028M	28	1.5&2
66759-0032M	32	1.5&2



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