

Double Ferrule Compression Fittings



BULK



Fluid control division

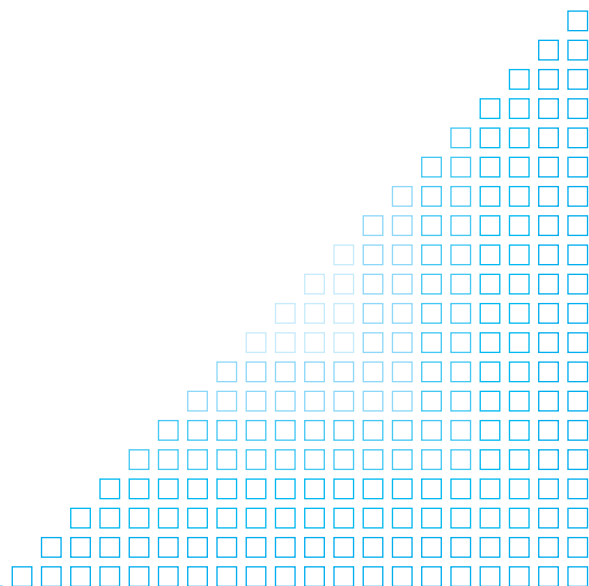
BULK

RACCORDI A COMPRESSIONE CON DOPPIA OGIVA

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RACCORDERIA FILETTATA

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BULK produce raccordi filettati ed a compressione con doppia ogiva di tenuta per ogni applicazione che richieda una tenuta perfetta su tubazioni in pressione.

I raccordi BULK sono progettati, costruiti e venduti da tecnici esperti e rispettosi delle aspettative dei Clienti.

MATERIALI DI COSTRUZIONE

I componenti dei raccordi sono ricavati dalla stessa tipologia di materiale per assicurare una compatibilità termica ed aumentare la resistenza alla corrosione.

I materiali di costruzione standard sono indicati nella tabella 2 nella sezione "Come ordinare".

E' consigliato utilizzare raccordi con tubi dello stesso materiale per evitare fenomeni di corrosione galvanica.

LIMITI DI PRESSIONE E TEMPERATURA

I raccordi sono progettati per resistere a pressioni superiori a quelle del tubo, che pertanto ne determina le massime condizioni d'esercizio. Questi limiti variano in funzione del materiale, dello spessore e della temperatura (vedi tabella sottostante).

In caso di alta temperatura è necessario ridurre i limiti di pressione indicati.

Massima pressione di funzionamento per tubi con diametro in pollici (valore in PSI)

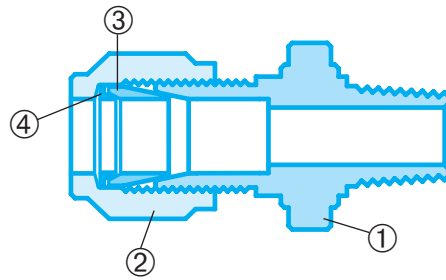
Ø esterno tubo (in pollici)	Spessore del tubo (in pollici)											
	0.010"	0.012"	0.016"	0.020"	0.028"	0.035"	0.049"	0.065"	0.083"	0.095"	0.109"	0.120"
1/16"	6.852	8.395	11.510	14.395								
1/8"				6.843	9.948	12.622						
3/16"				4.345	6.342	8.145	11.760					
1/4"					4.575	5.910	8.700	11.773				
3/8"						3.770	5.465	7.520				
1/2"						2.770	3.980	5.415	7.155			
5/8"							3.130	4.240	5.550	6.480		
3/4"							2.570	3.490	4.535	5.270	6.150	
7/8"							2.190	2.948	3.845	4.443	5.180	
1"								2.568	3.318	3.843	4.462	4.970

Massima pressione di funzionamento per tubi con diametro in millimetri (valore in bar)

Ø esterno tubo (in mm)	Spessore del tubo (in mm)											
	0.5	0.6	0.8	1.0	1.2	1.5	1.6	1.8	2.0	2.2	2.5	3
3	492	610	825	1.030								
6			382	495	603	775	909					
8			281	357	441	560	603					
10			220	278	342	438	471					
12			180	235	280	360	384	438				
16				170	203	259	278	315	360	398	458	561
18				148	178	231	245	278	313	350	400	495
22				121	145	186	201	223	250	278	320	392
25				104	125	160	175	194	218	243	278	339

I valori in tabella si riferiscono a tubi con le seguenti caratteristiche e nelle condizioni più sotto riportate:

Tubo per strumentazione in AISI 304 e AISI 316, senza saldatura, ricotto, con caratteristiche conformi alla norma ASTM A-269 A-213 o equivalente. Durezza superficiale inferiore a 80 HRB. Resistenza a trazione 75.000 psi a temperatura ambiente. Temperatura di superficie tra -29°C e +38°C (-20°F e +100°F), vedi ANSI B31.3



I raccordi a doppia ogiva sono costituiti da quattro elementi:

- 1) il corpo
- 2) il dado
- 3) la ferrula anteriore
- 4) la ferrula posteriore

I raccordi per tubi con diametro in millimetri sono riconoscibili da quelli per tubo con diametro in pollici per una piccola corona cilindrica ricavata sia sul corpo che sul dado.

ISTRUZIONI DI ASSEMBLAGGIO

- a) allentare il dado 2)
- b) inserire il tubo all'interno del raccordo fino alla battuta e serrare manualmente il dado 2)
- c) avvitare, con una chiave di dimensioni idonee, il dado 2) di un giro ed un quarto.

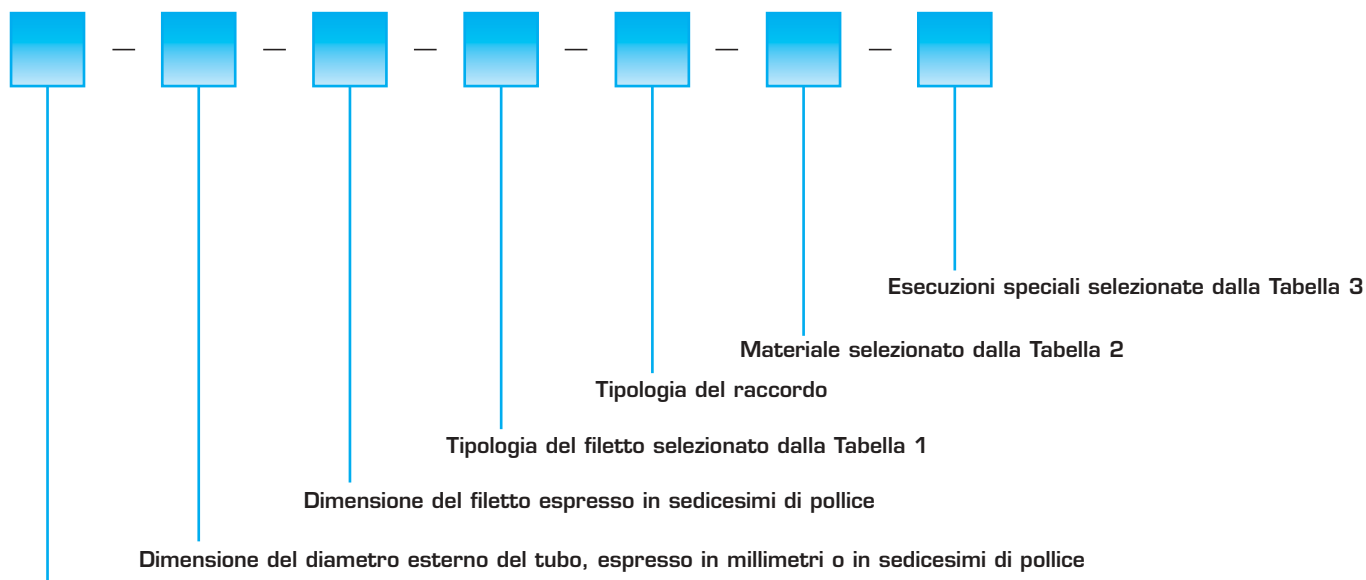
ISTRUZIONI DI RIASSEMBLAGGIO

- a) inserire il tubo con le ogive 3)4) nel corpo 1) ed avvitare a mano il dado 2)
- b) ruotare, con una chiave di dimensioni idonee, il dado 2) fino al completo serraggio

INFORMAZIONI DI SICUREZZA

- a) Non avvitare o svitare mai un raccordo montato su di un circuito in pressione
- b) Non spurgare mai il circuito svitando il raccordo od il dado
- c) Utilizzare sempre sigillanti e lubrificanti (idonei alla temperatura ambiente e del circuito) per i raccordi con filettature coniche
- d) Lasciare sempre un tratto dritto di tubo prima dell'ingresso nel raccordo
- e) Utilizzare sempre una bussola di supporto all'interno di tubi in materiale plastico
- f) Non mischiare mai componenti di costruttori differenti
- g) Utilizzare solo tubi senza saldatura e con durezza inferiore a quella dei raccordi (80 RB massimo per tubo in acciaio inossidabile)
- h) La corretta selezione, pulizia ed installazione del tubo rivestono una vitale importanza per una tenuta perfetta e durata del circuito
- i) Vi invitiamo a contattare il ns distributore per ulteriori informazioni od approfondimenti

COME ORDINARE



Selezionare M per raccordi metrici o P per raccordi in pollici

TABELLA 1

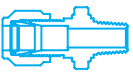
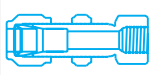
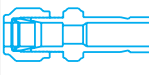
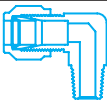
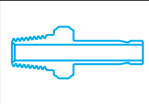
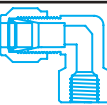
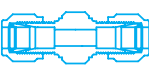

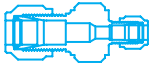

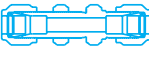

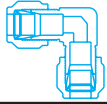
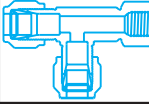

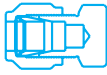

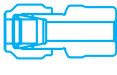

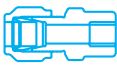

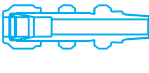

NO SUFFIX = NPT ANSI B1.20.1
K = BSPP ISO 228/1, BS 2779, DIN 3852 Form A
W = BSPP ISO 228/1, BS 2779, DIN 3852 Form B
J = BSPT ISO 7/1, BS 21, DIN 2999

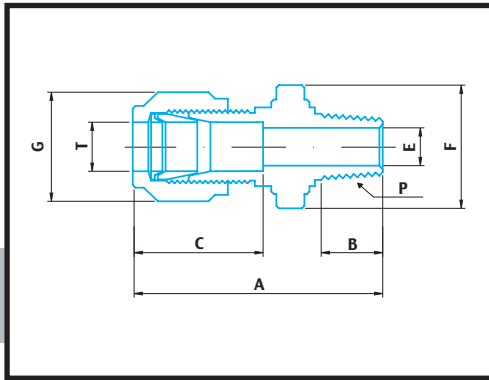
TABELLA 2

NO SUFFIX = 316
L = 316L
O = OTTONE
MO = MONEL
TI = TITANIO
H = HASTELLOY
I = INCONEL

TABELLA 3

FB = Raccordo per termocoppia
Z = Raccordo sgrassato per uso ossigeno

	DIRITTO MASCHIO DM	6/7		PASSAPARETE FEMMINA DFP	23
	DIRITTO FEMMINA DF	8/9		RIDUZIONE R	24/25
	GOMITO MASCHIO GM	10/11		ADATTATORE MASCHIO AM	26
	GOMITO FEMMINA GF	12/13		ADATTATORE FEMMINA AF	27
	UNIONE DIRITTA UD	14		T MASCHIO CENTRALE TMC	28/29
	UNIONE RIDUCENTE UR	15		T MASCHIO LATERALE TML	30/31
	UNIONE PASSAPARETE UP	16		T FEMMINA CENTRALE TFC	32
	UNIONE A GOMITO UG	17		T FEMMINA LATERALE TFL	33
	UNIONE A T UT	18		TAPPO PER TUBO TT	34
	UNIONE A CROCE UC	19		TAPPO PER RACCORDO TR	35
	DIRITTO A SALDARE DI TESTA DBW	20		DADO D	36
	DIRITTO TASCA A SALDARE DSW	21		FERRULA ANTERIORE FA	37
	PASSAPARETE MASCHIO DMP	22		FERRULA POSTERIORE FP	37

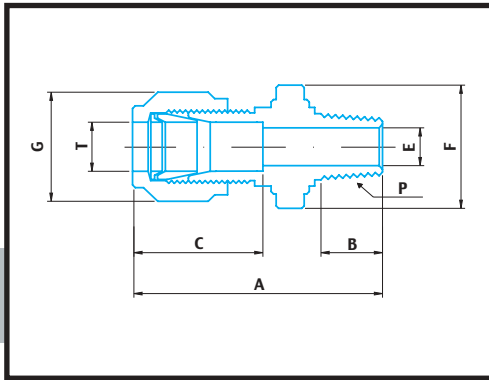


DIRITTO MASCHIO

DM

Metric OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	B	C	E	F	G	PART No.
3	1/8"	30.5	9.6	12.9	2.4	11	11	M - 3 - 2 - DM
3	1/4"	35.6	14.3	12.9	2.4	14	11	M - 3 - 4 - DM
6	1/8"	32.8	9.6	15.3	4.8	14	14	M - 6 - 2 - DM
6	1/4"	37.9	14.3	15.3	4.8	14	14	M - 6 - 4 - DM
6	3/8"	38.4	14.3	15.3	4.8	19	14	M - 6 - 6 - DM
6	1/2"	44.7	19.1	15.3	4.8	22	14	M - 6 - 8 - DM
8	1/8"	34.2	9.6	16.2	4.8	14	16	M - 8 - 2 - DM
8	1/4"	38.7	14.3	16.2	6.3	14	16	M - 8 - 4 - DM
8	3/8"	39.3	14.3	16.2	6.3	19	16	M - 8 - 6 - DM
8	1/2"	45.6	19.1	16.2	6.3	22	16	M - 8 - 8 - DM
10	1/8"	36.3	9.6	17.2	4.8	17	19	M - 10 - 2 - DM
10	1/4"	40.9	14.3	17.2	7.9	19	19	M - 10 - 4 - DM
10	3/8"	40.9	14.3	17.2	7.9	19	19	M - 10 - 6 - DM
10	1/2"	46.5	19.1	17.2	7.9	22	19	M - 10 - 8 - DM
12	1/4"	43.4	14.3	22.8	7.1	22	22	M - 12 - 4 - DM
12	3/8"	43.4	14.3	22.8	9.5	22	22	M - 12 - 6 - DM
12	1/2"	49.0	19.1	22.8	9.5	22	22	M - 12 - 8 - DM
12	3/4"	50.5	19.1	22.8	9.5	27	22	M - 12 - 12 - DM
12	1"	57.1	23.8	22.8	9.5	35	22	M - 12 - 16 - DM
14	1/4"	44.1	14.3	24.4	7.1	24	25	M - 14 - 4 - DM
14	3/8"	44.1	14.3	24.4	9.5	24	25	M - 14 - 6 - DM
14	1/2"	49.0	19.1	24.4	11.1	24	25	M - 14 - 8 - DM
15	1/2"	49.0	19.1	24.4	11.9	24	25	M - 15 - 8 - DM
16	3/8"	44.1	14.3	24.4	9.5	24	25	M - 16 - 6 - DM
16	1/2"	49.0	19.1	24.4	11.9	24	25	M - 16 - 8 - DM
16	3/4"	50.5	19.1	24.4	12.7	27	25	M - 16 - 12 - DM
18	1/2"	50.5	19.1	24.4	11.9	27	30	M - 18 - 8 - DM
18	3/4"	50.5	19.1	24.4	15.1	27	30	M - 18 - 12 - DM
20	1/2"	52.3	19.1	26.0	11.9	30	32	M - 20 - 8 - DM
20	3/4"	52.3	19.1	26.0	15.9	30	32	M - 20 - 12 - DM
22	3/4"	52.3	19.1	26.0	15.9	30	32	M - 22 - 12 - DM
22	1"	57.1	23.8	26.0	18.3	35	32	M - 22 - 16 - DM
25	1/2"	57.5	19.1	31.3	11.9	35	38	M - 25 - 8 - DM
25	3/4"	57.5	19.1	31.3	15.8	35	38	M - 25 - 12 - DM
25	1"	62.3	23.8	31.3	21.8	35	38	M - 25 - 16 - DM
28	1"	72.4	23.8	36.6	21.8	41	46	M - 28 - 16 - DM
28	1.1/4"	73.1	23.8	36.6	21.8	46	46	M - 28 - 20 - DM
30	1.1/4"	77.2	23.8	39.6	26.2	46	50	M - 30 - 20 - DM
32	1.1/4"	79.6	23.8	42.0	28.6	46	50	M - 32 - 20 - DM
38	1.1/2"	96.6	26.2	49.4	33.7	55	60	M - 38 - 20 - DM

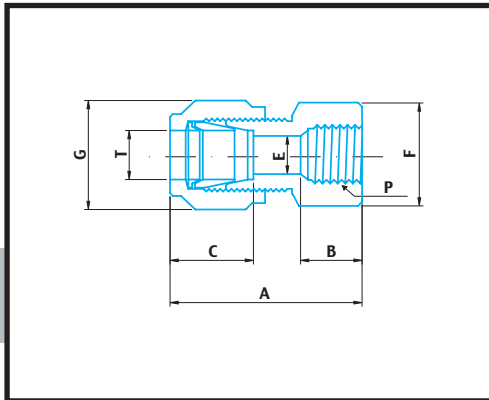


DIRITTO MASCHIO

DM

Inch OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	B	C	E	F	G	PART No.
1/16"	1/16"	23.9	9.6	8.6	1.3	8	8	P - 1 - 1 - DM
1/16"	1/8"	26.2	9.6	8.6	1.3	14	8	P - 1 - 2 - DM
1/8"	1/8"	30.5	9.6	12.7	2.4	11	11	P - 2 - 2 - DM
1/8"	1/4"	35.6	14.3	12.7	2.4	14	11	P - 2 - 4 - DM
1/4"	1/8"	32.8	9.6	15.3	4.8	14	14	P - 4 - 2 - DM
1/4"	1/4"	37.8	14.3	15.3	4.8	14	14	P - 4 - 4 - DM
1/4"	3/8"	38.4	14.3	15.3	4.8	19	14	P - 4 - 6 - DM
1/4"	1/2"	44.7	19.1	15.3	4.8	22	14	P - 4 - 8 - DM
5/16"	1/4"	38.6	14.3	16.3	6.3	14	16	P - 5 - 4 - DM
3/8"	1/8"	35.3	9.6	16.8	4.8	16	17	P - 6 - 2 - DM
3/8"	1/4"	39.8	14.3	16.8	7.1	16	17	P - 6 - 4 - DM
3/8"	3/8"	39.8	14.3	16.8	7.1	19	17	P - 6 - 6 - DM
3/8"	1/2"	41.2	19.1	16.8	7.1	22	17	P - 6 - 8 - DM
1/2"	1/4"	43.4	14.3	22.9	7.1	22	22	P - 8 - 4 - DM
1/2"	3/8"	43.4	14.3	22.9	9.6	22	22	P - 8 - 6 - DM
1/2"	1/2"	49.0	19.1	22.9	10.4	22	22	P - 8 - 8 - DM
1/2"	3/4"	50.5	19.1	22.9	10.4	27	22	P - 8 - 12 - DM
1/2"	1"	57.1	23.8	22.9	10.4	35	22	P - 8 - 16 - DM
5/8"	3/8"	44.2	14.3	24.4	9.6	24	25	P - 10 - 6 - DM
5/8"	1/2"	49.0	19.1	24.4	10.4	24	25	P - 10 - 8 - DM
3/4"	1/2"	50.5	19.1	24.4	10.4	27	28.5	P - 12 - 8 - DM
3/4"	3/4"	50.5	19.1	24.4	15.8	27	28.5	P - 12 - 12 - DM
3/4"	1"	57.1	23.8	24.4	15.8	35	28.5	P - 12 - 16 - DM
7/8"	3/4"	50.5	19.1	26.0	15.8	30	32	P - 14 - 12 - DM
1"	1/2"	57.4	19.1	31.2	10.4	35	38	P - 16 - 8 - DM
1"	3/4"	57.4	19.1	31.2	15.8	35	38	P - 16 - 12 - DM
1"	1"	62.2	23.8	31.2	22.3	35	38	P - 16 - 16 - DM
1.1/4"	1"	77.2	23.8	41.2	22.3	46	50	P - 20 - 16 - DM
1.1/4"	1.1/4"	77.2	23.8	41.2	27.6	46	50	P - 20 - 20 - DM
1.1/2"	1.1/2"	88.9	26.2	50.0	34.0	55	60	P - 24 - 24 - DM

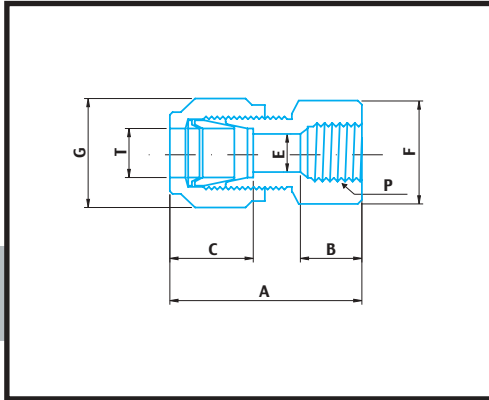


DIRITTO FEMMINA

DF

Metric OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	B	C	E	F	G	PART No.
3	1/8"	28.7	10.4	12.9	2.4	14	11	M - 3 - 2 - DF
3	1/4"	33.5	15.0	12.9	2.4	19	11	M - 3 - 4 - DF
6	1/8"	31.3	10.4	15.3	4.8	14	14	M - 6 - 2 - DF
6	1/4"	35.8	15.0	15.3	4.8	19	14	M - 6 - 4 - DF
6	3/8"	37.6	15.0	15.3	4.8	22	14	M - 6 - 6 - DF
6	1/2"	42.5	19.8	15.3	4.8	27	14	M - 6 - 8 - DF
8	1/8"	32.1	10.4	16.2	6.3	14	16	M - 8 - 2 - DF
8	1/4"	37.0	15.0	16.2	6.3	19	16	M - 8 - 4 - DF
8	3/8"	38.5	15.0	16.2	6.3	22	16	M - 8 - 6 - DF
8	1/2"	43.3	19.8	16.2	6.3	27	16	M - 8 - 8 - DF
10	1/4"	37.8	15.0	17.2	7.9	19	19	M - 10 - 4 - DF
10	3/8"	39.4	15.0	17.2	7.9	22	19	M - 10 - 6 - DF
10	1/2"	44.2	19.8	17.2	7.9	27	19	M - 10 - 8 - DF
12	1/4"	40.3	15.0	22.8	9.5	22	22	M - 12 - 4 - DF
12	3/8"	41.9	15.0	22.8	9.5	22	22	M - 12 - 6 - DF
12	1/2"	46.7	19.8	22.8	9.5	27	22	M - 12 - 8 - DF
15	1/2"	46.7	19.8	24.4	11.9	27	25	M - 15 - 8 - DF
16	1/2"	46.9	19.8	24.4	12.7	27	25	M - 16 - 8 - DF
20	1/2"	47.9	19.8	26.0	15.9	30	32	M - 20 - 8 - DF
20	3/4"	49.7	20.6	26.0	15.9	35	32	M - 20 - 12 - DF
22	3/4"	49.7	20.6	26.0	18.3	35	32	M - 22 - 12 - DF
22	1"	57.9	25.4	26.0	18.3	41	32	M - 22 - 16 - DF
25	3/4"	53.4	20.6	31.3	21.8	35	38	M - 25 - 12 - DF
25	1"	62.3	25.4	31.3	21.8	41	38	M - 25 - 16 - DF
32	1.1/4"	74.6	25.4	42.0	27.6	55	50	M - 32 - 20 - DF
38	1.1/2"	83.3	27.6	49.4	34.0	60	60	M - 38 - 24 - DF

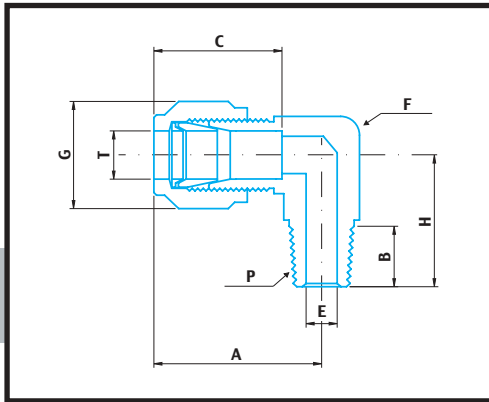


DIRITTO FEMMINA

DF

Inch OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	B	C	E	F	G	PART No.
1/16"	1/16"	23.6	9.9	8.6	1.3	11	8	P - 1 - 1 - DF
1/16"	1/8"	24.4	10.4	8.6	1.3	14	8	P - 1 - 2 - DF
1/8"	1/8"	28.7	10.4	12.7	2.4	14	11	P - 2 - 2 - DF
1/8"	1/4"	33.6	15.0	12.7	2.4	19	11	P - 2 - 4 - DF
1/4"	1/8"	31.2	9.9	15.3	4.8	14	14	P - 4 - 2 - DF
1/4"	1/4"	35.8	15.0	15.3	4.8	19	14	P - 4 - 4 - DF
1/4"	3/8"	37.6	15.0	15.3	4.8	22	14	P - 4 - 6 - DF
1/4"	1/2"	42.4	19.8	15.3	4.8	27	14	P - 4 - 8 - DF
5/16"	1/8"	32.0	10.4	16.3	6.3	14	16	P - 5 - 2 - DF
5/16"	1/4"	36.8	15.0	16.3	6.3	19	16	P - 5 - 4 - DF
3/8"	1/8"	32.8	10.4	16.8	7.1	16	17	P - 6 - 2 - DF
3/8"	1/4"	37.6	15.0	16.8	7.1	19	17	P - 6 - 4 - DF
3/8"	3/8"	39.1	15.0	16.8	7.1	22	17	P - 6 - 6 - DF
3/8"	1/2"	43.9	19.8	16.8	7.1	27	17	P - 6 - 8 - DF
1/2"	1/4"	40.4	15.0	22.9	10.4	22	22	P - 8 - 4 - DF
1/2"	3/8"	41.9	15.0	22.9	10.4	22	22	P - 8 - 6 - DF
1/2"	1/2"	46.7	19.8	22.9	10.4	27	22	P - 8 - 8 - DF
1/2"	3/4"	48.3	20.6	22.9	10.4	32	22	P - 8 - 12 - DF
5/8"	3/8"	41.9	15.0	24.4	12.7	24	25	P - 10 - 6 - DF
5/8"	1/2"	46.7	19.8	24.4	12.7	27	25	P - 10 - 8 - DF
3/4"	1/2"	46.7	19.8	24.4	15.8	27	28.5	P - 12 - 8 - DF
3/4"	3/4"	48.3	20.6	24.4	15.8	32	28.5	P - 12 - 12 - DF
7/8"	3/4"	49.8	20.6	25.9	18.3	35	32	P - 14 - 12 - DF
1"	3/4"	53.4	20.6	31.2	22.3	35	38	P - 16 - 12 - DF
1"	1"	62.3	25.4	31.2	22.3	41	38	P - 16 - 16 - DF
1.1/4"	1.1/4"	74.6	25.4	41.2	27.6	55	50	P - 20 - 20 - DF
1.1/2"	1.1/2"	83.3	27.6	50.0	34.0	60	60	P - 24 - 24 - DF

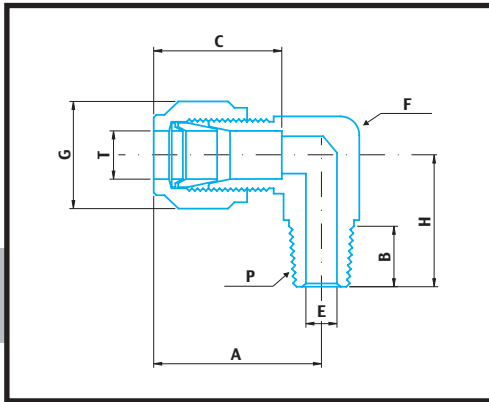


GOMITO MASCHIO

GM

Metric OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	B	C	E	F	G	H	PART No.
3	1/8"	23.6	9.6	12.9	2.4	11	11	17.8	M - 3 - 2 - GM
3	1/4"	24.6	14.3	12.9	2.4	14	11	23.4	M - 3 - 4 - GM
6	1/8"	27.0	9.6	15.3	4.8	14	14	18.8	M - 6 - 2 - GM
6	1/4"	27.0	14.3	15.3	4.8	14	14	23.4	M - 6 - 4 - GM
6	3/8"	29.8	14.3	15.3	4.8	17	14	26.2	M - 6 - 6 - GM
6	1/2"	31.8	19.1	15.3	4.8	22	14	33.0	M - 6 - 8 - GM
8	1/8"	28.8	9.6	16.2	4.8	14	16	19.8	M - 8 - 2 - GM
8	1/4"	28.8	14.3	16.2	6.3	14	16	24.4	M - 8 - 4 - GM
8	3/8"	30.6	14.3	16.2	6.3	17	16	26.2	M - 8 - 6 - GM
8	1/2"	32.6	19.1	16.2	6.3	22	16	33.0	M - 8 - 8 - GM
10	1/8"	31.5	9.6	17.2	4.8	17	19	21.6	M - 10 - 2 - GM
10	1/4"	31.5	14.3	17.2	7.1	17	19	26.2	M - 10 - 4 - GM
10	3/8"	31.5	14.3	17.2	7.9	17	19	26.2	M - 10 - 6 - GM
10	1/2"	33.5	19.1	17.2	7.9	22	19	33.0	M - 10 - 8 - GM
12	1/4"	36.0	14.3	22.8	7.1	22	22	26.2	M - 12 - 4 - GM
12	3/8"	36.0	14.3	22.8	9.5	22	22	28.2	M - 12 - 6 - GM
12	1/2"	36.0	19.1	22.8	9.5	22	22	33.0	M - 12 - 8 - GM
12	3/4"	39.8	19.1	22.8	9.5	27	22	36.8	M - 12 - 12 - GM
15	1/2"	38.0	19.1	24.4	11.9	24	25	35.1	M - 15 - 8 - GM
16	1/2"	38.0	19.1	24.4	11.9	24	25	35.1	M - 16 - 8 - GM
16	3/4"	39.8	19.1	24.4	12.7	27	25	36.8	M - 16 - 12 - GM
18	1/2"	39.8	19.1	24.4	11.9	27	30	36.8	M - 18 - 8 - GM
18	3/4"	39.8	19.1	24.4	15.1	27	30	36.8	M - 18 - 12 - GM
20	1/2"	44.6	19.1	26.0	11.9	35	32	41.7	M - 20 - 8 - GM
20	3/4"	44.6	19.1	26.0	15.9	35	32	41.7	M - 20 - 12 - GM
22	3/4"	44.6	19.1	26.0	15.9	35	32	41.7	M - 22 - 12 - GM
22	1"	44.6	23.8	26.0	18.3	35	32	46.5	M - 22 - 16 - GM
25	3/4"	49.1	19.1	31.3	15.8	35	38	41.7	M - 25 - 12 - GM
25	1"	49.1	23.8	31.3	21.8	35	38	46.5	M - 25 - 16 - GM
30	1.1/4"	69.9	23.8	39.6	26.2	45	50	53.1	M - 30 - 20 - GM
32	1.1/4"	72.3	23.8	42.0	27.6	45	50	53.1	M - 32 - 20 - GM
38	1.1/2"	84.0	26.2	49.4	33.7	55	60	60.4	M - 38 - 24 - GM

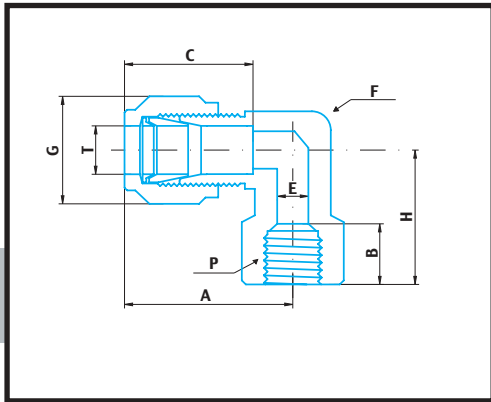


GOMITO MASCHIO

GM

Inch OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	B	C	E	F	G	H	PART No.
1/16"	1/16"	19.0	9.6	8.6	1.3	11	8	17.8	P - 1 - 1 - GM
1/16"	1/8"	19.0	9.6	8.6	1.3	11	8	17.8	P - 1 - 2 - GM
1/8"	1/8"	23.6	9.6	12.7	2.4	11	11	17.8	P - 2 - 2 - GM
1/8"	1/4"	24.6	14.3	12.7	2.4	14	11	23.4	P - 2 - 4 - GM
1/4"	1/8"	26.9	9.6	15.3	4.8	14	14	18.8	P - 4 - 2 - GM
1/4"	1/4"	26.9	14.3	15.3	4.8	14	14	23.4	P - 4 - 4 - GM
1/4"	3/8"	29.7	14.3	15.3	4.8	17	14	26.2	P - 4 - 6 - GM
1/4"	1/2"	31.8	19.1	15.3	4.8	22	14	33.0	P - 4 - 8 - GM
5/16"	1/4"	28.7	9.6	16.3	6.3	14	16	24.4	P - 5 - 4 - GM
3/8"	1/8"	30.5	9.6	16.8	4.8	14	17	20.9	P - 6 - 2 - GM
3/8"	1/4"	30.5	14.3	16.8	7.1	17	17	25.4	P - 6 - 4 - GM
3/8"	3/8"	31.2	14.3	16.8	7.1	17	17	26.2	P - 6 - 6 - GM
3/8"	1/2"	33.3	19.1	16.8	7.1	22	17	33.0	P - 6 - 8 - GM
1/2"	1/4"	36.0	14.3	22.9	4.8	22	22	28.2	P - 8 - 4 - GM
1/2"	3/8"	36.0	14.3	22.9	9.6	22	22	28.2	P - 8 - 6 - GM
1/2"	1/2"	36.0	19.1	22.9	10.4	22	22	33.0	P - 8 - 8 - GM
1/2"	3/4"	39.9	19.1	22.9	10.4	27	22	36.8	P - 8 - 12 - GM
5/8"	1/2"	38.1	19.1	24.4	11.9	24	25	35.0	P - 10 - 8 - GM
3/4"	1/2"	39.9	19.1	24.4	11.9	27	28.5	36.8	P - 12 - 8 - GM
3/4"	3/4"	39.9	19.1	24.4	15.8	27	28.5	36.8	P - 12 - 12 - GM
7/8"	3/4"	44.7	19.1	25.9	15.8	35	32	41.6	P - 14 - 12 - GM
1"	3/4"	49.0	19.1	31.2	15.8	35	38	41.6	P - 16 - 12 - GM
1"	1"	49.0	23.8	31.2	22.3	35	38	46.5	P - 16 - 16 - GM
1.1/4"	1.1/4"	66.5	23.8	41.2	27.6	46	50	47.8	P - 20 - 20 - GM
1.1/2"	1.1/2"	78.0	26.2	50.0	34.0	55	60	60.4	P - 24 - 24 - GM

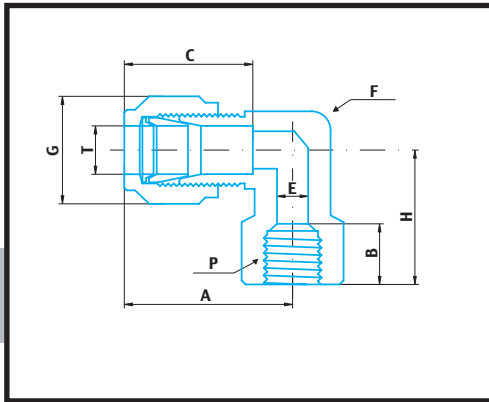


GOMITO FEMMINA

GF

Metric OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	B	C	E	F	G	H	PART No.
3	1/8"	24.6	10.4	12.9	2.4	14	11	19.0	M - 3 - 2 - GF
3	1/4"	27.4	15.0	12.9	2.4	19	11	22.4	M - 3 - 4 - GF
6	1/8"	27.0	10.4	15.3	4.8	14	14	19.0	M - 6 - 2 - GF
6	1/4"	29.8	15.0	15.3	4.8	19	14	22.4	M - 6 - 4 - GF
6	1/2"	34.6	19.8	15.3	4.8	27	14	28.5	M - 6 - 8 - GF
8	1/4"	30.6	15.0	16.2	6.3	19	16	22.4	M - 8 - 4 - GF
8	3/8"	32.6	15.0	16.2	6.3	22	16	22.4	M - 8 - 6 - GF
10	1/4"	33.5	15.0	17.2	7.9	19	19	22.4	M - 10 - 4 - GF
10	3/8"	33.5	15.0	17.2	7.9	22	19	22.4	M - 10 - 6 - GF
12	1/4"	36.0	15.0	22.8	9.5	22	22	22.4	M - 12 - 4 - GF
12	3/8"	36.0	15.0	22.8	9.5	22	22	22.4	M - 12 - 6 - GF
12	1/2"	38.8	19.8	22.8	9.5	27	22	28.5	M - 12 - 8 - GF
16	1/2"	39.5	19.8	24.4	12.7	27	25	28.5	M - 16 - 8 - GF
25	3/4"	49.0	20.6	31.3	22.3	35	38	31.8	M - 25 - 12 - GF
25	1"	53.6	25.4	31.3	22.3	41	38	38.1	M - 25 - 16 - GF

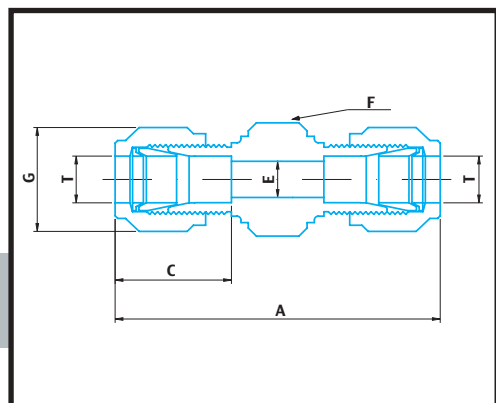


GOMITO FEMMINA

GF

Inch OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	B	C	E	F	G	H	PART No.
1/8"	1/8"	24.6	10.4	12.7	2.4	14	11	19.0	P - 2 - 2 - GF
1/8"	1/4"	27.4	15.0	12.7	2.4	19	11	22.4	P - 2 - 4 - GF
1/4"	1/8"	26.9	10.4	15.3	4.8	14	14	19.0	P - 4 - 2 - GF
1/4"	1/4"	29.7	15.0	15.3	4.8	19	14	22.4	P - 4 - 4 - GF
1/4"	3/8"	31.8	15.0	15.3	4.8	22	14	22.4	P - 4 - 6 - GF
1/4"	1/2"	34.6	19.8	15.3	4.8	27	14	28.5	P - 4 - 8 - GF
5/16"	1/8"	28.7	10.4	16.3	6.3	19	16	19.1	P - 5 - 2 - GF
5/16"	1/4"	30.5	15.0	16.3	6.3	22	16	22.4	P - 5 - 4 - GF
3/8"	1/8"	30.5	10.4	16.8	7.1	17	17	19.1	P - 6 - 2 - GF
3/8"	1/4"	31.2	15.0	16.8	7.1	19	17	22.4	P - 6 - 4 - GF
3/8"	3/8"	33.3	15.0	16.8	7.1	22	17	22.4	P - 6 - 6 - GF
3/8"	1/2"	36.0	19.8	16.8	7.1	27	17	28.5	P - 6 - 8 - GF
1/2"	1/4"	36.0	15.0	22.9	7.1	22	22	22.4	P - 8 - 4 - GF
1/2"	3/8"	36.0	15.0	22.9	10.4	22	22	22.4	P - 8 - 6 - GF
1/2"	1/2"	38.9	19.8	22.9	10.4	27	22	28.5	P - 8 - 8 - GF
5/8"	3/8"	38.1	15.0	24.4	12.7	24	25	22.4	P - 10 - 6 - GF
5/8"	1/2"	39.9	19.8	24.4	12.7	27	25	28.5	P - 10 - 8 - GF
3/4"	1/2"	39.9	19.8	24.4	15.8	27	28.5	28.5	P - 12 - 8 - GF
3/4"	3/4"	44.7	20.6	24.4	15.8	35	28.5	31.8	P - 12 - 12 - GF
7/8"	3/4"	44.7	20.6	25.9	18.2	35	32	31.8	P - 14 - 12 - GF
1"	3/4"	49.0	20.6	31.2	22.3	35	38	31.8	P - 16 - 12 - GF
1"	1"	53.6	25.4	31.2	22.3	41	38	38.1	P - 16 - 16 - GF



UNIONE DIRETTA

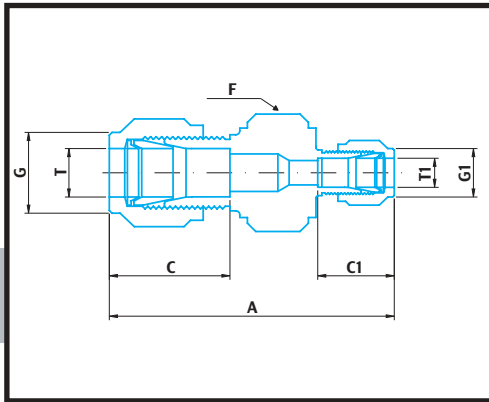
UD

Metric OD tubes

T TUBE OD	A	C	E	F	G	PART No.
3	35.3	12.9	2.4	11	11	M - 3 - UD
6	41.0	15.3	4.8	14	14	M - 6 - UD
8	43.2	16.2	6.3	16	16	M - 8 - UD
10	46.2	17.2	7.9	17	19	M - 10 - UD
12	51.2	22.8	9.5	22	22	M - 12 - UD
14	52.0	24.4	11.1	24	25	M - 14 - UD
15	52.0	24.4	11.9	24	25	M - 15 - UD
16	52.0	24.4	12.7	24	25	M - 16 - UD
18	53.5	24.4	15.1	27	30	M - 18 - UD
20	55.0	26.0	15.9	30	32	M - 20 - UD
22	55.0	26.0	18.3	30	32	M - 22 - UD
25	65.0	31.3	21.8	35	38	M - 25 - UD
28	85.0	36.6	21.8	41	46	M - 28 - UD
30	92.7	39.6	26.2	46	50	M - 30 - UD
32	97.3	42.0	28.6	46	50	M - 32 - UD
38	113.6	49.4	33.7	55	60	M - 38 - UD

Inch OD tubes

T TUBE OD	A	C	E	F	G	PART No.
1/16"	25.1	8.6	1.3	8	8	P - 1 - UD
1/8"	35.6	12.7	2.4	11	11	P - 2 - UD
1/4"	40.9	15.3	4.8	14	14	P - 4 - UD
5/16"	42.9	16.3	6.3	14	16	P - 5 - UD
3/8"	45.0	16.8	7.1	16	17	P - 6 - UD
1/2"	51.3	22.9	10.4	22	22	P - 8 - UD
5/8"	52.0	24.4	12.7	24	25	P - 10 - UD
3/4"	53.6	24.4	15.8	27	28.5	P - 12 - UD
7/8"	55.2	25.9	18.2	30	32	P - 14 - UD
1"	64.8	31.2	22.3	35	38	P - 16 - UD
1.1/4"	92.2	41.2	27.6	46	50	P - 20 - UD
1.1/2"	108.0	50.0	34.0	55	60	P - 24 - UD



UNIONE RIDUCENTE

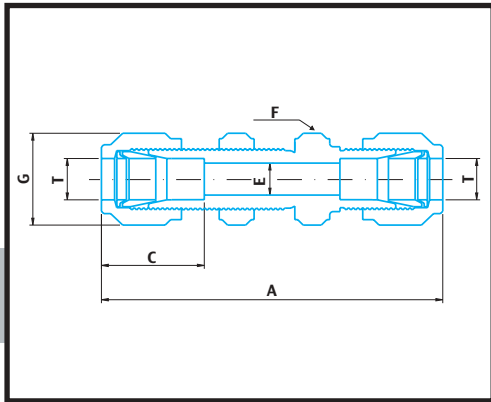
UR

Metric OD tubes

T TUBE OD	T1 TUBE OD	A	C	C1	F	G	G1	PART No.
6	3	38.6	15.3	12.9	14	14	11	M - 6 - 3 - UR
8	6	42.3	16.2	15.3	14	16	14	M - 8 - 6 - UR
10	6	44.5	17.2	15.3	17	19	14	M - 10 - 6 - UR
10	8	45.1	17.2	16.2	17	19	16	M - 10 - 8 - UR
12	6	47.0	22.8	15.3	22	22	14	M - 12 - 6 - UR
12	8	47.8	22.8	16.2	22	22	16	M - 12 - 8 - UR
12	10	48.7	22.8	17.2	22	22	19	M - 12 - 10 - UR
16	10	49.5	24.4	17.2	24	25	19	M - 16 - 10 - UR
16	12	52.0	24.4	22.8	24	25	22	M - 16 - 12 - UR
22	18	55.0	26.0	24.4	30	32	30	M - 22 - 18 - UR
22	20	55.0	26.0	26.6	30	32	32	M - 22 - 20 - UR
25	12	65.0	31.3	22.8	35	38	22	M - 25 - 12 - UR
25	20	65.0	31.3	26.0	35	38	32	M - 25 - 20 - UR
30	20	75.4	39.6	26.0	45	50	32	M - 30 - 20 - UR
30	25	80.1	39.6	31.3	45	50	38	M - 30 - 25 - UR
32	20	77.8	42.0	26.0	45	50	32	M - 32 - 20 - UR
32	25	82.3	42.0	31.3	45	50	38	M - 32 - 25 - UR
38	20	92.0	49.4	31.3	55	60	38	M - 38 - 20 - UR
38	25	104.6	49.4	39.6	55	60	50	M - 38 - 25 - UR

Inch OD tubes

T TUBE OD	T1 TUBE OD	A	C	C1	F	G	G1	PART No.
1/4"	1/8"	38.6	15.3	12.7	14	14	11	P - 4 - 2 - UR
5/16"	1/8"	39.6	16.3	12.7	14	16	11	P - 5 - 2 - UR
5/16"	1/4"	42.2	16.3	15.3	14	16	14	P - 5 - 4 - UR
3/8"	1/8"	40.9	16.8	12.7	16	17	11	P - 6 - 2 - UR
3/8"	1/4"	43.2	16.8	15.3	16	17	14	P - 6 - 4 - UR
1/2"	1/8"	45.2	22.9	12.7	22	22	11	P - 8 - 2 - UR
1/2"	1/4"	47.0	22.9	15.3	22	22	14	P - 8 - 4 - UR
1/2"	3/8"	48.5	22.9	16.8	22	22	17	P - 8 - 6 - UR
5/8"	3/8"	49.3	24.4	16.8	24	25	17	P - 10 - 6 - UR
5/8"	1/2"	52.0	24.4	22.9	24	25	22	P - 10 - 8 - UR
3/4"	1/4"	49.3	24.4	15.3	27	28.5	14	P - 12 - 4 - UR
3/4"	3/8"	50.8	24.4	16.8	27	28.5	17	P - 12 - 6 - UR
3/4"	1/2"	53.6	24.4	22.9	27	28.5	22	P - 12 - 8 - UR
1"	1/2"	60.5	31.2	22.9	35	38	22	P - 16 - 8 - UR
1"	3/4"	60.5	31.2	24.4	35	38	28.5	P - 16 - 12 - UR
1.1/4"	1"	92.2	41.2	31.2	45	50	38	P - 20 - 16 - UR
1.1/2"	1.1/4"	60.5	31.2	24.4	35	38	50	P - 24 - 20 - UR



UNIONE PASSAPARETE

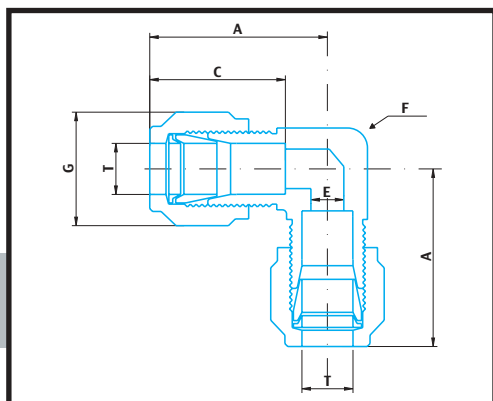
UP

Metric OD tubes

T TUBE OD	A	C	E	F	G	Panel Hole Drill Size	Max. Panel Thickness	PART No.
3	51.3	12.9	2.4	14	11	8.3	12.7	M - 3 - UP
6	57.7	15.3	4.8	16	14	11.5	10.2	M - 6 - UP
8	61.0	16.2	6.3	17	16	13.1	11.2	M - 8 - UP
10	63.7	17.2	7.9	22	19	16.3	11.2	M - 10 - UP
12	71.0	22.8	9.5	24	22	19.5	12.7	M - 12 - UP
14	72.5	24.4	11.1	27	25	22.5	12.7	M - 14 - UP
15	72.5	24.4	11.9	27	25	22.8	12.7	M - 15 - UP
16	72.5	24.4	12.7	27	25	22.8	12.7	M - 16 - UP
18	78.9	24.4	15.1	30	30	26.0	16.8	M - 18 - UP
20	84.5	26.0	15.8	35	32	29.0	19.0	M - 20 - UP
25	95.6	31.2	22.3	35	38	33.7	19.0	M - 25 - UP
30	123.7	39.6	26.2	50	46	40.5	19.0	M - 30 - UP
32	128.3	42.0	27.6	50	50	42.5	19.0	M - 32 - UP
38	144.6	49.4	33.7	60	60	50.5	19.0	M - 38 - UP

Inch OD tubes

T TUBE OD	A	C	E	F	G	Panel Hole Drill Size	Max. Panel Thickness	PART No.
1/16"	31.5	8.6	1.3	11	8	5.2	3.0	P - 1 - UP
1/8"	51.3	12.7	2.4	11	11	8.3	12.7	P - 2 - UP
1/4"	57.6	15.3	4.8	16	14	11.5	10.2	P - 4 - UP
5/16"	60.7	16.3	6.3	17	16	13.0	11.2	P - 5 - UP
3/8"	62.2	16.8	7.1	22	17	14.6	11.2	P - 6 - UP
1/2"	71.1	22.9	10.4	24	22	19.5	12.7	P - 8 - UP
5/8"	72.6	24.4	12.7	27	25	22.6	12.7	P - 10 - UP
3/4"	79.0	24.4	16.0	30	28.5	25.8	16.8	P - 12 - UP
1"	95.6	31.2	22.3	35	38	33.7	19.0	P - 16 - UP
1.1/4"	123.2	41.2	27.6	50	50	41.6	19.0	P - 20 - UP
1.1/2"	139.2	50.0	34.0	60	60	49.6	19.0	P - 24 - UP



UNIONE A GOMITO

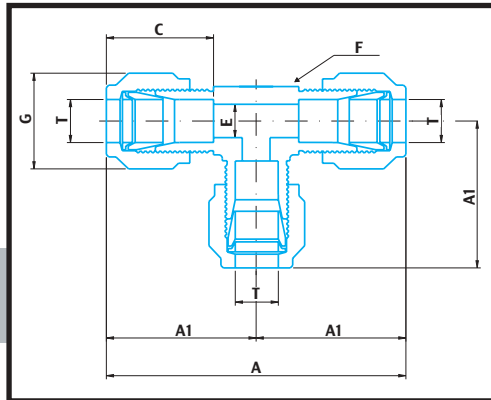
UG

Metric OD tube

T TUBE OD	A	C	E	F	G	PART No.
3	22.3	12.9	2.4	11	11	M - 3 - UG
6	27.0	15.3	4.8	14	14	M - 6 - UG
8	28.8	16.2	6.3	16	16	M - 8 - UG
10	31.5	17.2	7.9	17	19	M - 10 - UG
12	36.0	22.8	9.5	22	22	M - 12 - UG
14	38.0	24.4	11.1	24	25	M - 14 - UG
15	38.0	24.4	11.9	24	25	M - 15 - UG
16	38.0	24.4	12.7	24	25	M - 16 - UG
18	39.8	24.4	15.1	27	30	M - 18 - UG
20	44.6	26.0	15.9	32	32	M - 20 - UG
22	44.6	26.0	18.3	32	32	M - 22 - UG
25	49.1	31.2	21.8	35	38	M - 25 - UG
28	64.0	36.6	21.8	41	46	M - 28 - UG
30	69.9	39.6	26.2	46	50	M - 30 - UG
32	72.3	42.0	28.6	46	50	M - 32 - UG
38	84.0	49.4	33.7	55	60	M - 38 - UG

Inch OD tube

T TUBE OD	A	C	E	F	G	PART No.
1/16"	17.8	8.6	1.3	11	8	P - 1 - UG
1/8"	22.4	12.7	2.4	11	11	P - 2 - UG
1/4"	26.9	15.3	4.8	14	14	P - 4 - UG
5/16"	28.7	16.3	6.3	16	16	P - 5 - UG
3/8"	30.5	16.8	7.1	17	17	P - 6 - UG
1/2"	36.0	22.9	10.4	22	22	P - 8 - UG
5/8"	38.1	24.4	12.7	24	25	P - 10 - UG
3/4"	39.9	24.4	15.8	27	28.5	P - 12 - UG
7/8"	44.7	25.9	18.2	35	32	P - 14 - UG
1"	49.0	31.2	22.3	35	38	P - 16 - UG
1.1/4"	66.6	41.2	27.6	46	50	P - 20 - UG
1.1/2"	78.0	50.0	34.0	55	60	P - 24 - UG



UNIONE A T

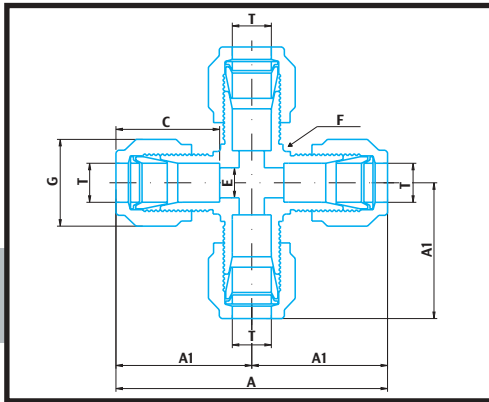
UT

Metric OD tube

T TUBE OD	A	A1	C	E	F	G	PART No.
3	44.6	22.3	12.9	2.4	11	11	M - 3 - UT
6	54.0	27.0	15.3	4.8	14	14	M - 6 - UT
8	57.6	28.8	16.2	6.3	16	16	M - 8 - UT
10	63.0	31.5	17.2	7.9	17	19	M - 10 - UT
12	72.0	36.0	22.8	9.5	22	22	M - 12 - UT
14	76.0	38.0	24.4	11.1	24	25	M - 14 - UT
15	76.0	38.0	24.4	11.9	24	25	M - 15 - UT
16	76.0	38.0	24.4	12.7	24	25	M - 16 - UT
18	79.6	39.8	24.4	15.1	27	30	M - 18 - UT
20	89.2	44.6	26.0	15.9	32	32	M - 20 - UT
22	89.2	44.6	26.0	18.3	32	32	M - 22 - UT
25	98.2	49.1	31.2	21.8	35	38	M - 25 - UT
28	128.0	64.0	36.6	21.8	41	46	M - 28 - UT
30	139.8	69.9	39.6	26.2	46	50	M - 30 - UT
32	144.6	72.3	42.0	28.6	46	50	M - 32 - UT
38	168.0	84.0	49.4	33.7	55	60	M - 38 - UT

Inch OD tube

T TUBE OD	A	A1	C	E	F	G	PART No.
1/16"	35.6	17.8	8.6	1.3	11	8	P - 1 - UT
1/8"	44.8	22.4	12.7	2.4	11	11	P - 2 - UT
1/4"	53.8	26.9	15.3	4.8	14	14	P - 4 - UT
5/16"	57.4	28.7	16.3	6.3	16	16	P - 5 - UT
3/8"	61.0	30.5	16.8	7.1	17	17	P - 6 - UT
1/2"	72.0	36.0	22.9	10.4	22	22	P - 8 - UT
5/8"	76.2	38.1	24.4	12.7	24	25	P - 10 - UT
3/4"	79.8	39.9	24.4	15.8	27	28.5	P - 12 - UT
7/8"	89.4	44.7	25.9	18.2	35	32	P - 14 - UT
1"	98.0	49.0	31.2	22.3	35	38	P - 16 - UT
1.1/4"	133.2	66.6	41.2	27.6	46	50	P - 20 - UT
1.1/2"	156.0	78.0	50.0	34.0	55	60	P - 24 - UT



UNIONE A CROCE

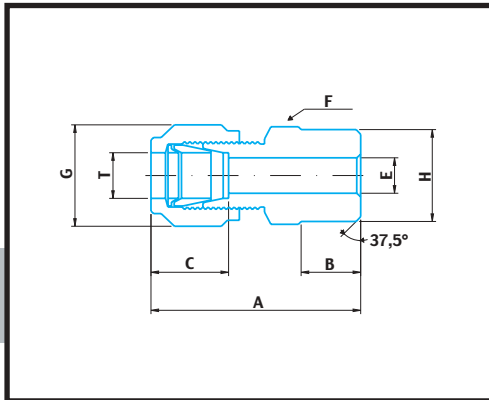
UC

Metric OD tube

T TUBE OD	A	A1	C	E	F	G	PART No.
3	44.6	22.3	12.9	2.4	11	11	M - 3 - UC
6	54.0	27.0	15.3	4.8	14	14	M - 6 - UC
8	57.6	28.8	16.2	6.3	16	16	M - 8 - UC
10	63.0	31.5	17.2	7.9	17	19	M - 10 - UC
12	72.0	36.0	22.8	9.5	22	22	M - 12 - UC
16	76.0	38.0	24.4	12.7	24	25	M - 16 - UC
22	89.2	44.6	26.0	18.3	32	32	M - 22 - UC
25	98.2	49.1	31.2	21.8	35	38	M - 25 - UC

Inch OD tube

T TUBE OD	A	A1	C	E	F	G	PART No.
1/8"	44.8	22.4	12.7	2.4	11	11	P - 2 - UC
1/4"	53.8	26.9	15.3	4.8	14	14	P - 4 - UC
3/8"	61.0	30.5	16.8	7.1	17	17	P - 6 - UC
1/2"	72.0	36.0	22.9	10.4	22	22	P - 8 - UC
3/4"	79.8	39.9	24.4	15.8	27	28.5	P - 12 - UC
1"	98.0	49.0	31.2	22.3	35	38	P - 16 - UC



DIRITTO A SALDARE IN TESTA

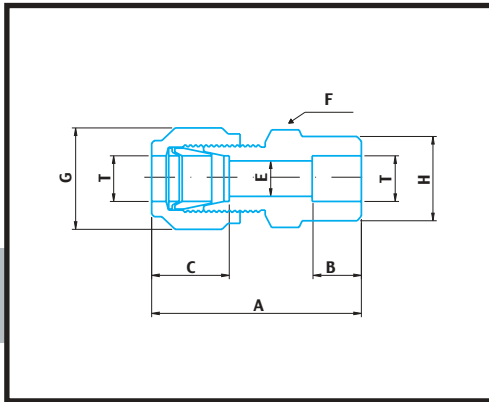
DBW

Metric OD tube x ANSI B 36.19 Pipe

T TUBE OD	PIPE WELD MALE	A	B	C	E	F	G	H	PART No.
3	1/8"	30.5	9.6	12.9	2.4	11	11	10.3	M - 3 - 2 - DBW
6	1/8"	32.8	9.6	15.3	4.8	14	14	10.3	M - 6 - 2 - DBW
6	1/4"	37.9	14.3	15.3	4.8	14	14	13.7	M - 6 - 4 - DBW
8	1/8"	34.2	9.6	16.3	5.1	16	16	10.3	M - 8 - 2 - DBW
8	1/4"	38.7	14.3	16.3	6.3	16	16	13.7	M - 8 - 4 - DBW
8	1/2"	45.6	19.1	16.3	6.3	22	16	21.3	M - 8 - 8 - DBW
10	1/4"	40.9	14.3	17.2	7.1	19	19	13.7	M - 10 - 4 - DBW
10	3/8"	40.9	14.3	17.2	7.9	19	19	17.2	M - 10 - 6 - DBW
10	1/2"	46.5	19.1	17.2	7.9	22	19	21.3	M - 10 - 8 - DBW
12	1/4"	43.4	14.3	22.9	7.1	22	22	13.7	M - 12 - 4 - DBW
12	3/8"	43.4	14.3	22.9	9.5	22	22	17.2	M - 12 - 6 - DBW
12	1/2"	49.0	19.1	22.9	9.5	22	22	21.3	M - 12 - 8 - DBW
16	1/2"	49.0	19.1	24.4	12.7	24	25	21.3	M - 16 - 8 - DBW
20	3/4"	52.3	19.1	26.0	15.9	30	32	26.7	M - 20 - 12 - DBW
22	3/4"	52.3	19.1	26.0	15.9	30	32	26.7	M - 22 - 12 - DBW
25	1"	62.3	23.8	31.2	21.8	35	38	33.4	M - 25 - 16 - DBW
30	1.1/4"	77.2	23.8	39.6	26.2	45	50	42.2	M - 30 - 20 - DBW
32	1.1/4"	79.6	23.8	42.0	28.6	45	50	42.2	M - 32 - 20 - DBW
38	1.1/2"	91.6	26.2	49.4	33.7	55	60	48.3	M - 38 - 24 - DBW

Inch OD tube x ANSI B 36.19 Pipe

T TUBE OD	PIPE WELD MALE	A	B	C	E	F	G	H	PART No.
1/8"	1/8"	30.5	9.6	12.7	2.4	11	11	10.3	P - 2 - 2 - DBW
1/4"	1/8"	32.8	9.6	15.3	4.8	14	14	10.3	P - 4 - 2 - DBW
1/4"	1/4"	37.8	14.3	15.3	4.8	14	14	13.7	P - 4 - 4 - DBW
5/16"	1/8"	34.0	9.6	16.3	5.1	14	16	10.3	P - 5 - 2 - DBW
5/16"	1/4"	38.6	14.3	16.3	6.3	16	16	13.7	P - 5 - 4 - DBW
3/8"	1/4"	39.9	14.3	16.8	7.1	16	17	13.7	P - 6 - 4 - DBW
3/8"	3/8"	39.9	14.3	16.8	7.1	17	17	17.2	P - 6 - 6 - DBW
3/8"	1/2"	46.3	19.1	16.8	7.1	22	17	21.3	P - 6 - 8 - DBW
1/2"	3/8"	43.4	14.3	22.9	10.4	22	22	17.2	P - 8 - 6 - DBW
1/2"	1/2"	49.0	19.1	22.9	10.4	22	22	21.3	P - 8 - 8 - DBW
1/2"	3/4"	50.5	19.1	22.9	10.4	27	22	26.7	P - 8 - 12 - DBW
5/8"	1/2"	49.0	19.1	24.4	12.7	24	25	21.3	P - 10 - 8 - DBW
3/4"	3/4"	50.5	19.1	24.4	15.8	27	28.5	26.7	P - 12 - 12 - DBW
1"	1"	62.2	23.8	31.2	22.3	35	38	33.4	P - 16 - 16 - DBW
1.1/4"	1.1/4"	77.2	23.8	41.2	27.6	46	50	42.2	P - 20 - 20 - DBW
1.1/2"	1.1/2"	88.9	26.2	50.0	34	55	60	48.3	P - 24 - 24 - DBW



DIRITTO TASCA A SALDARE

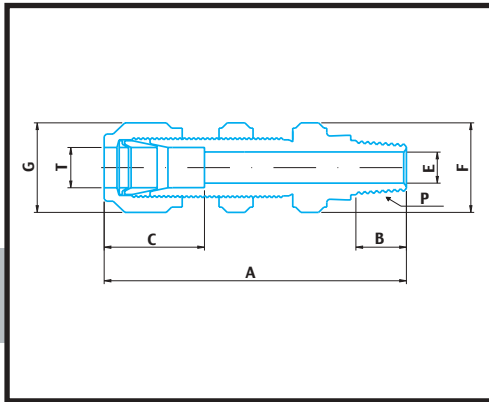
DSW

Metric OD tube

T TUBE OD	A	B	C	E	F	G	H	PART No.
3	29.0	6.4	12.9	2.4	11	11	22.9	M - 3 - 3 - DSW
6	33.5	7.9	15.3	4.8	14	14	26.2	M - 6 - 6 - DSW
10	37.6	9.6	17.2	7.1	16	19	30.3	M - 10 - 10 - DSW
12	41.2	12.7	22.8	10.4	22	22	31.0	M - 12 - 12 - DSW
20	43.4	14.3	26.0	15.8	27	32	33.3	M - 20 - 20 - DSW
25	52.6	19.1	31.3	22.3	35	38	40.4	M - 25 - 25 - DSW
32	72.4	19.1	42.0	27.6	45	50	50.3	M - 32 - 32 - DSW
38	81.8	23.8	49.4	34.0	55	60	54.6	M - 38 - 38 - DSW

Inch OD tube

T TUBE OD	A	B	C	E	F	G	H	PART No.
1/8"	29.0	6.4	12.7	2.4	11	11	22.9	P - 2 - 2 - DSW
1/4"	33.5	7.9	15.3	4.8	14	14	26.2	P - 4 - 4 - DSW
3/8"	37.6	9.6	16.8	7.1	16	17	30.3	P - 6 - 6 - DSW
1/2"	41.2	12.7	22.9	10.4	22	22	31.0	P - 8 - 8 - DSW
3/4"	43.4	14.3	24.4	15.8	27	28.5	33.3	P - 12 - 12 - DSW
1"	52.6	19.1	31.2	22.3	35	38	40.4	P - 16 - 16 - DSW
1.1/4"	72.4	19.1	41.2	27.6	45	50	50.3	P - 20 - 20 - DSW
1.1/2"	81.8	23.8	50.0	34.0	55	60	54.6	P - 24 - 24 - DSW



PASSAPARETE MASCHIO

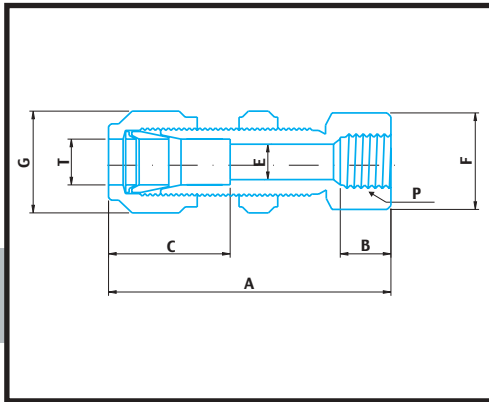
DMP

Metric OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	B	C	E	F	G	Panel Hole Drill Size	Max. Panel Thickness	PART No.
3	1/8"	46.4	9.6	12.9	2.4	11	11	8.3	12.7	M - 3 - 2 - DMP
6	1/8"	49.5	9.6	15.3	4.8	16	14	11.5	10.2	M - 6 - 2 - DMP
10	1/4"	57.4	14.3	17.2	7.1	19	17	14.7	11.2	M - 10 - 4 - DMP
10	3/8"	57.4	14.3	17.2	7.1	19	17	14.7	11.2	M - 10 - 6 - DMP
12	3/8"	63.3	14.3	22.8	9.6	24	22	19.5	12.7	M - 12 - 6 - DMP
12	1/2"	68.8	19.1	22.8	10.4	24	22	19.5	12.7	M - 12 - 8 - DMP
16	1/2"	69.6	19.1	24.4	11.9	27	25	22.8	12.7	M - 16 - 8 - DMP
22	3/4"	83.3	19.1	26.0	15.8	35	25	29.0	19.0	M - 22 - 12 - DMP
25	1"	93.2	23.9	31.2	22.3	41	38	33.7	19.0	M - 25 - 16 - DMP
32	1.1/4"	110.5	23.9	42.0	28.6	50	50	42.5	19.0	M - 32 - 20 - DMP
38	1.1/2"	122.8	26.2	49.4	33.7	60	60	50.5	19.0	M - 38 - 24 - DMP

Inch OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	B	C	E	F	G	Panel Hole Drill Size	Max. Panel Thickness	PART No.
1/8"	1/8"	46.4	9.6	12.7	2.4	14	11	8.3	12.7	P - 2 - 2 - DMP
1/4"	1/8"	49.5	9.6	15.3	4.8	16	14	11.5	10.2	P - 4 - 2 - DMP
1/4"	1/4"	54.1	14.3	15.3	4.8	16	14	11.5	10.2	P - 4 - 4 - DMP
3/8"	1/4"	57.4	14.3	16.8	7.1	19	17	14.7	11.2	P - 6 - 4 - DMP
3/8"	3/8"	57.4	14.3	16.8	7.1	19	17	14.7	11.2	P - 6 - 6 - DMP
3/8"	1/2"	63.7	19.1	16.8	7.1	22	17	14.7	11.2	P - 6 - 8 - DMP
1/2"	3/8"	63.3	14.3	22.9	9.6	24	22	19.5	12.7	P - 8 - 6 - DMP
1/2"	1/2"	68.8	19.1	22.9	10.4	24	22	19.5	12.7	P - 8 - 8 - DMP
3/4"	3/4"	76.2	19.1	24.4	15.8	30	28.5	25.8	16.8	P - 12 - 12 - DMP
1"	1"	93.2	23.9	31.2	22.3	41	38	33.7	19.0	P - 16 - 16 - DMP
1.1/4"	1.1/4"	110.5	23.9	41.2	27.6	50	50	42.5	19.0	P - 20 - 20 - DMP
1.1/2"	1.1/2"	122.8	26.2	50.0	34.0	60	60	50.5	19.0	P - 24 - 24 - DMP



PASSAPARETE FEMMINA

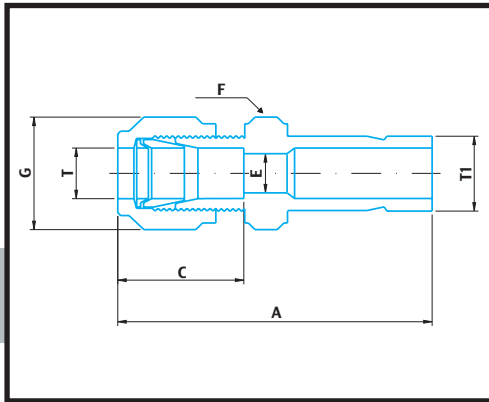
DFP

Metric OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	B	C	E	F	G	Panel Hole Drill Size	Max. Panel Thickness	PART No.
3	1/8"	44.7	10.4	12.9	2.4	14	11	8.3	12.7	M - 3 - 2 - DFP
6	1/4"	51.6	15.0	15.3	4.8	19	14	11.5	10.2	M - 6 - 4 - DFP
10	3/8"	56.8	15.0	17.2	7.9	22	19	16.3	11.2	M - 10 - 6 - DFP
12	3/8"	61.8	15.0	22.8	9.5	24	22	19.5	12.7	M - 12 - 6 - DFP
12	1/2"	66.7	19.8	22.8	9.5	27	22	19.5	12.7	M - 12 - 8 - DFP
16	1/2"	67.5	20.6	24.4	12.7	27	25	22.8	12.7	M - 16 - 8 - DFP
22	3/4"	79.9	20.6	26.0	15.8	35	32	29.0	19.0	M - 22 - 12 - DFP
25	3/4"	84.3	20.6	31.2	15.8	35	38	33.7	19.0	M - 25 - 12 - DFP
25	1"	93.2	25.4	31.2	22.3	35	38	33.7	19.0	M - 25 - 16 - DFP
32	1.1/4"	105.7	25.4	42.0	27.6	50	50	41.6	19.0	M - 32 - 20 - DFP
38	1.1/2"	114.5	27.6	49.4	33.7	60	60	49.6	19.0	M - 38 - 24 - DFP

Inch OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	B	C	E	F	G	Panel Hole Drill Size	Max. Panel Thickness	PART No.
1/8"	1/8"	44.7	10.4	12.7	2.4	14	11	8.3	12.7	P - 2 - 2 - DFP
1/4"	1/8"	47.0	10.4	15.3	4.8	16	14	11.5	10.2	P - 4 - 2 - DFP
1/4"	1/4"	51.5	15.0	15.3	4.8	19	14	11.5	10.2	P - 4 - 4 - DFP
3/8"	1/4"	54.8	15.0	16.8	7.1	19	17	14.7	11.2	P - 6 - 4 - DFP
1/2"	3/8"	61.7	15.0	22.9	10.4	22	22	19.5	12.7	P - 8 - 6 - DFP
1/2"	1/2"	66.7	19.8	22.9	10.4	27	22	19.5	12.7	P - 8 - 8 - DFP
5/8"	1/2"	67.6	19.8	24.4	12.7	27	25	22.6	12.7	P - 10 - 8 - DFP
3/4"	1/2"	72.4	19.8	24.4	16.0	30	28.5	25.8	16.8	P - 12 - 8 - DFP
3/4"	3/4"	74.4	20.6	24.4	16.0	30	28.5	25.8	16.8	P - 12 - 12 - DFP
1"	3/4"	84.3	20.6	31.2	16.0	35	38	33.7	19.0	P - 16 - 12 - DFP
1"	1"	93.2	25.4	31.2	22.3	35	38	33.7	19.0	P - 16 - 16 - DFP
1.1/4"	1.1/4"	105.7	25.4	41.2	27.6	50	50	41.6	19.0	P - 20 - 20 - DFP
1.1/2"	1.1/2"	114.5	27.6	50.0	34.0	60	60	49.6	19.0	P - 24 - 24 - DFP

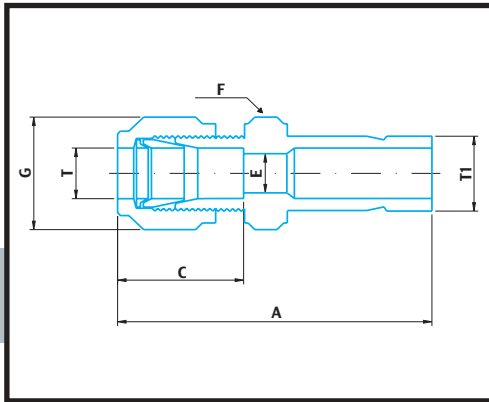


RIDUZIONE

R

Metric OD tube x Metric OD port

T TUBE OD	T1 TUBE OD	A	C	E	F	G	PART No.
3	6	36.1	12.9	2.4	11	11	M - 3 - 6 - R
3	10	38.4	12.9	2.4	14	11	M - 3 - 10 - R
6	3	36.9	15.3	1.8	14	14	M - 6 - 3 - R
6	8	39.9	15.3	4.8	14	14	M - 6 - 8 - R
6	10	40.7	15.3	4.8	14	14	M - 6 - 10 - R
6	12	46.3	15.3	4.8	14	14	M - 6 - 12 - R
8	6	40.3	16.2	4.6	14	16	M - 8 - 6 - R
8	10	42.0	16.2	6.4	14	16	M - 8 - 10 - R
8	12	47.6	16.2	6.4	14	16	M - 8 - 12 - R
10	6	42.4	17.2	4.6	17	17	M - 10 - 6 - R
10	8	43.4	17.2	6.2	17	17	M - 10 - 8 - R
10	12	49.8	17.2	7.9	17	17	M - 10 - 12 - R
12	6	44.9	22.8	4.6	22	22	M - 12 - 6 - R
12	8	45.9	22.8	6.2	22	22	M - 12 - 8 - R
12	10	46.7	22.8	7.7	22	22	M - 12 - 10 - R
12	16	53.8	22.8	9.5	22	22	M - 12 - 16 - R
12	20	56.1	22.8	9.5	22	22	M - 12 - 20 - R
12	22	56.1	22.8	9.5	24	22	M - 12 - 22 - R
12	25	62.4	22.8	9.5	27	22	M - 12 - 25 - R
16	12	53.0	24.4	9.1	24	25	M - 16 - 12 - R
18	12	54.6	24.4	9.1	27	30	M - 18 - 12 - R
18	16	56.1	24.4	12.7	27	30	M - 18 - 16 - R
20	16	57.9	26.0	12.7	30	32	M - 20 - 16 - R
20	25	64.2	26.0	15.8	30	32	M - 20 - 25 - R
22	20	59.4	26.0	15.1	30	32	M - 22 - 20 - R
22	25	64.2	26.0	18.3	30	32	M - 22 - 25 - R
25	18	63.1	31.2	13.9	35	38	M - 25 - 18 - R
25	20	64.6	31.2	15.1	35	38	M - 25 - 20 - R

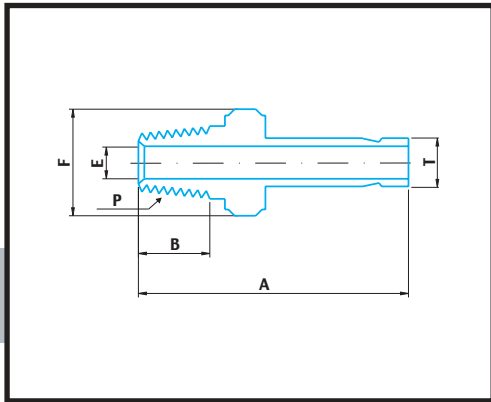


RIDUZIONE

R

Inch OD tube x Inch OD port

T TUBE OD	T1 TUBE OD	A	C	E	F	G	PART No.
1/8"	1/8"	33.5	12.7	2.0	11	11	P - 2 - 2 - R
1/8"	1/4"	36.0	12.7	4.8	11	11	P - 2 - 4 - R
1/4"	1/8"	36.8	15.3	2.0	14	14	P - 4 - 2 - R
1/4"	1/4"	39.1	15.3	4.8	14	14	P - 4 - 4 - R
1/4"	3/8"	40.6	15.3	4.8	14	14	P - 4 - 6 - R
1/4"	1/2"	46.3	15.3	4.8	14	14	P - 4 - 8 - R
5/16"	3/8"	41.9	16.3	6.3	14	16	P - 5 - 6 - R
5/16"	1/2"	46.5	16.3	6.3	14	16	P - 5 - 8 - R
3/8"	1/4"	41.4	16.8	7.1	16	17	P - 6 - 4 - R
3/8"	3/8"	43.2	16.8	7.1	16	17	P - 6 - 6 - R
3/8"	1/2"	48.5	16.8	7.1	16	17	P - 6 - 8 - R
1/2"	1/4"	45.0	22.9	4.8	22	22	P - 8 - 4 - R
1/2"	3/8"	46.7	22.9	7.1	22	22	P - 8 - 6 - R
1/2"	1/2"	52.3	22.9	9.9	22	22	P - 8 - 8 - R
1/2"	3/4"	53.8	22.9	10.4	22	22	P - 8 - 12 - R
1/2"	1"	60.2	22.9	10.4	22	22	P - 8 - 16 - R
5/8"	3/4"	54.6	24.4	12.7	24	25	P - 10 - 12 - R
5/8"	7/8"	56.2	24.4	12.7	24	25	P - 10 - 14 - R
3/4"	1/2"	54.6	24.4	9.9	27	28.5	P - 12 - 8 - R
3/4"	1"	62.5	24.4	15.8	27	28.5	P - 12 - 16 - R
1"	1.1/4"	80.5	31.2	22.3	35	38	P - 16 - 20 - R
1"	1.1/2"	89.2	31.2	22.3	41	38	P - 16 - 24 - R



ADATTATORE MASCHIO

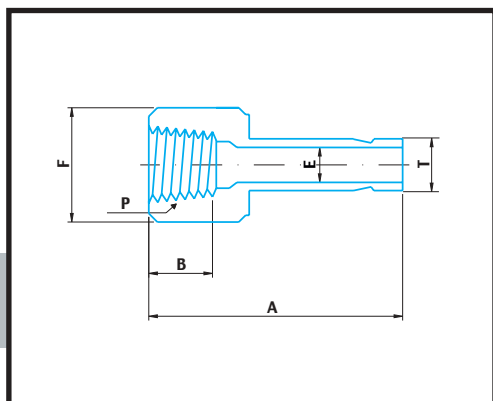
AM

Metric OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	B	E	F	PART No.
3	1/4"	34.8	9.6	7.1	14	M - 3 - 4 - AM
6	1/8"	32.8	14.3	4.6	14	M - 6 - 2 - AM
6	1/4"	38.1	14.3	4.6	14	M - 6 - 4 - AM
8	1/4"	39.1	14.3	6.2	14	M - 8 - 4 - AM
10	1/4"	39.9	14.3	7.7	14	M - 10 - 4 - AM
10	3/8"	40.6	14.3	7.7	19	M - 10 - 6 - AM
12	1/4"	46.5	14.3	7.1	14	M - 12 - 4 - AM
12	3/8"	46.5	14.3	9.1	19	M - 12 - 6 - AM
12	1/2"	52.0	14.3	9.1	22	M - 12 - 8 - AM
25	3/4"	62.0	19.1	15.7	27	M - 25 - 12 - AM
25	1"	66.8	23.8	15.7	35	M - 25 - 16 - AM
30	1"	79.2	23.8	22.2	41	M - 30 - 16 - AM
30	1.1/4"	80.0	23.8	24.6	45	M - 30 - 20 - AM
32	1.1/4"	81.0	23.8	27.4	46	M - 32 - 20 - AM
38	1.1/2"	92.2	26.2	33.3	55	M - 38 - 24 - AM

Inch OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	B	E	F	PART No.
1/8"	1/8"	29.5	9.6	4.8	11	P - 2 - 2 - AM
1/8"	1/4"	34.8	14.4	7.1	14	P - 2 - 4 - AM
1/4"	1/8"	31.8	9.6	4.8	11	P - 4 - 2 - AM
1/4"	1/4"	37.0	14.3	4.8	14	P - 4 - 4 - AM
1/4"	3/8"	37.8	14.3	4.8	19	P - 4 - 6 - AM
1/4"	1/2"	43.4	19.1	4.8	22	P - 4 - 8 - AM
5/16"	1/4"	38.1	14.3	6.3	14	P - 5 - 4 - AM
3/8"	1/4"	38.9	14.3	7.1	14	P - 6 - 4 - AM
3/8"	3/8"	39.6	14.3	7.1	19	P - 6 - 6 - AM
3/8"	1/2"	45.2	19.1	7.1	22	P - 6 - 8 - AM
1/2"	1/4"	44.5	14.3	7.1	14	P - 8 - 4 - AM
1/2"	3/8"	45.2	14.3	9.9	19	P - 8 - 6 - AM
1/2"	1/2"	50.8	19.1	9.9	22	P - 8 - 8 - AM
5/8"	1/2"	52.3	19.1	11.9	22	P - 10 - 8 - AM
3/4"	1/2"	52.3	19.1	11.9	22	P - 12 - 8 - AM
3/4"	3/4"	52.3	19.1	15.0	27	P - 12 - 12 - AM
1"	3/4"	58.7	19.1	15.7	27	P - 16 - 12 - AM
1"	1"	66.0	23.8	20.3	35	P - 16 - 16 - AM
1.1/4"	1.1/4"	80.3	23.8	27.6	45	P - 20 - 20 - AM
1.1/2"	1.1/2"	94.5	26.2	33.2	55	P - 24 - 24 - AM



ADATTATORE FEMMINA

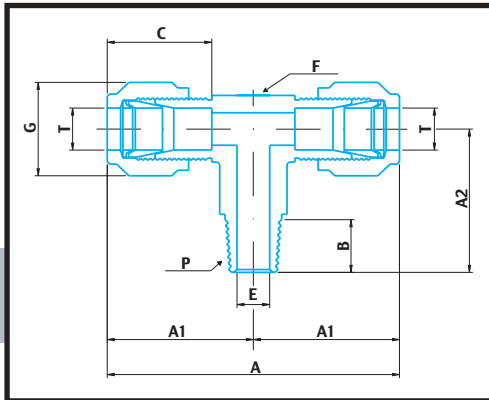
AF

Metric OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	B	E	F	PART No.
3	1/4"	31.7	15.0	2.4	14	M - 3 - 4 - AF
6	1/8"	32.5	9.9	4.6	14	M - 6 - 2 - AF
6	1/4"	37.1	15.0	4.6	19	M - 6 - 4 - AF
8	1/4"	37.6	15.0	6.4	19	M - 8 - 4 - AF
10	1/4"	38.1	15.0	7.7	19	M - 10 - 4 - AF
10	3/8"	40.1	15.0	7.7	22	M - 10 - 6 - AF
10	1/2"	46.5	19.8	7.7	27	M - 10 - 8 - AF
12	1/4"	43.7	15.0	9.1	19	M - 12 - 4 - AF
12	1/2"	52.3	19.8	9.1	27	M - 12 - 8 - AF
16	1/2"	47.7	19.8	9.1	27	M - 16 - 8 - AF
22	3/4"	52.0	20.6	15.0	35	M - 22 - 12 - AF
25	3/4"	51.2	20.6	15.0	35	M - 25 - 12 - AF
25	1"	66.5	25.4	19.8	41	M - 25 - 16 - AF
32	1.1/4"	78.0	25.4	27.4	55	M - 32 - 20 - AF
38	1.1/2"	88.9	27.6	33.3	60	M - 38 - 24 - AF

Inch OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	B	E	F	PART No.
1/8"	1/8"	31.5	10.4	2.4	14	P - 2 - 2 - AF
1/8"	1/4"	35.3	15.0	2.4	19	P - 2 - 4 - AF
1/4"	1/8"	33.0	10.4	4.8	14	P - 4 - 2 - AF
1/4"	1/4"	37.0	15.0	4.8	19	P - 4 - 4 - AF
1/4"	3/8"	39.4	15.0	4.8	22	P - 4 - 6 - AF
1/4"	1/2"	45.5	19.8	4.8	27	P - 4 - 8 - AF
5/16"	1/4"	37.6	15.0	6.3	19	P - 5 - 4 - AF
3/8"	1/4"	38.1	15.0	7.1	19	P - 6 - 4 - AF
3/8"	3/8"	40.4	15.0	7.1	22	P - 6 - 6 - AF
3/8"	1/2"	46.7	19.8	7.1	27	P - 6 - 8 - AF
1/2"	1/4"	43.5	15.0	9.9	19	P - 8 - 4 - AF
1/2"	3/8"	45.5	15.0	9.9	22	P - 8 - 6 - AF
1/2"	1/2"	51.8	19.8	9.9	27	P - 8 - 8 - AF
5/8"	1/2"	53.0	19.8	12.7	27	P - 10 - 8 - AF
3/4"	1/2"	52.8	19.8	15.0	27	P - 12 - 8 - AF
3/4"	3/4"	52.8	20.6	15.0	32	P - 12 - 12 - AF
3/4"	1"	58.4	25.4	15.0	41	P - 12 - 16 - AF
1"	3/4"	60.7	20.6	20.3	32	P - 16 - 12 - AF
1"	1"	64.3	25.4	20.3	41	P - 16 - 16 - AF
1.1/4"	1.1/4"	77.7	25.4	27.6	55	P - 20 - 20 - AF
1.1/2"	1.1/2"	88.9	27.6	33.2	60	P - 24 - 24 - AF

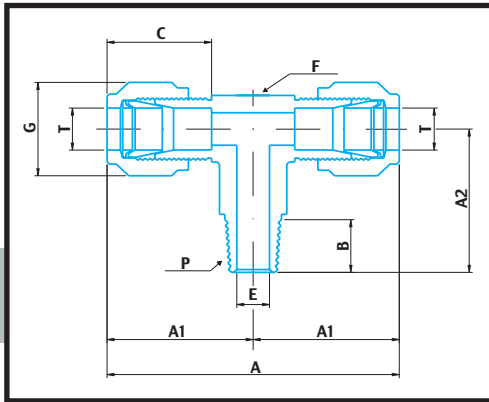


T MASCHIO CENTRALE

TMC

Metric OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	A1	A2	B	C	E	F	G	PART No.
3	1/8"	47.2	23.6	17.8	9.6	12.9	2.4	11	11	M - 3 - 2 - TMC
3	1/4"	49.2	24.6	23.4	14.3	12.9	2.4	14	11	M - 3 - 4 - TMC
6	1/8"	54.0	27.0	18.8	9.6	15.3	4.8	14	14	M - 6 - 2 - TMC
6	1/4"	54.0	27.0	23.4	14.3	15.3	4.8	14	14	M - 6 - 4 - TMC
6	3/8"	59.6	29.8	26.2	14.3	15.3	4.8	17	14	M - 6 - 6 - TMC
8	1/4"	57.6	28.8	24.4	14.3	16.2	6.3	14	16	M - 8 - 4 - TMC
8	3/8"	61.2	30.6	26.2	14.3	16.2	6.3	17	16	M - 8 - 6 - TMC
8	1/2"	65.2	32.6	33.0	19.1	16.2	6.3	22	16	M - 8 - 8 - TMC
10	1/4"	63.0	31.5	36.2	14.3	17.2	7.1	17	19	M - 10 - 4 - TMC
10	3/8"	63.0	31.5	26.2	14.3	17.2	7.9	17	19	M - 10 - 6 - TMC
10	1/2"	67.0	33.5	33.0	19.1	17.2	7.9	22	19	M - 10 - 8 - TMC
12	1/4"	72.0	36.0	26.2	14.3	22.8	7.1	22	22	M - 12 - 4 - TMC
12	3/8"	72.0	36.0	28.2	14.3	22.8	9.5	22	22	M - 12 - 6 - TMC
12	1/2"	72.0	36.0	33.0	19.1	22.8	9.5	22	22	M - 12 - 8 - TMC
16	1/2"	76.0	38.0	35.1	19.1	24.4	11.9	24	25	M - 16 - 8 - TMC
25	3/4"	98.2	49.1	41.7	19.1	31.2	15.8	35	38	M - 25 - 12 - TMC
25	1"	98.2	49.1	46.5	23.8	31.2	21.8	35	38	M - 25 - 16 - TMC
30	1.1/4"	139.8	66.9	53.1	23.8	39.6	26.2	45	50	M - 30 - 20 - TMC
32	1.1/4"	144.6	72.3	53.1	23.8	42.0	27.6	45	50	M - 32 - 20 - TMC
38	1.1/2"	168.0	84.0	60.4	26.2	49.4	33.7	55	60	M - 38 - 24 - TMC

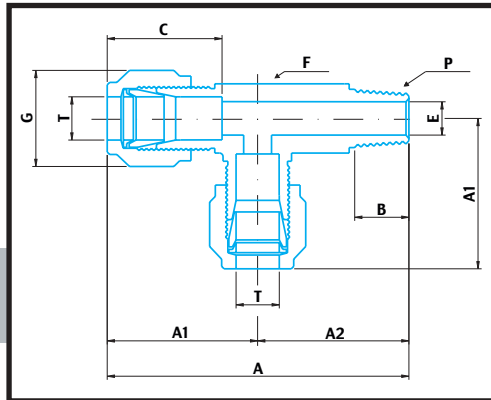


T MASCHIO CENTRALE

TMC

Inch OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	A1	A2	B	C	E	F	G	PART No.
1/8"	1/8"	47.2	23.6	17.8	9.6	12.7	2.4	11	11	P - 2 - 2 - TMC
1/8"	1/4"	49.2	24.6	23.4	14.3	12.7	2.4	14	11	P - 2 - 4 - TMC
1/4"	1/8"	53.8	26.9	18.8	9.6	15.3	4.8	14	14	P - 4 - 2 - TMC
1/4"	1/4"	53.8	26.9	23.4	14.3	15.3	4.8	14	14	P - 4 - 4 - TMC
1/4"	3/8"	59.4	29.7	26.2	14.3	15.3	4.8	17	14	P - 4 - 6 - TMC
1/4"	1/2"	63.6	31.8	33.0	19.1	15.3	4.8	22	14	P - 4 - 8 - TMC
3/8"	1/4"	61.0	30.5	25.4	14.3	16.8	7.1	17	17	P - 6 - 4 - TMC
3/8"	3/8"	62.4	31.2	26.2	14.3	16.8	7.1	17	17	P - 6 - 6 - TMC
3/8"	1/2"	66.0	33.0	33.0	19.1	16.8	7.1	22	17	P - 6 - 8 - TMC
1/2"	1/4"	72.0	36.0	28.2	14.3	22.9	4.8	22	22	P - 8 - 4 - TMC
1/2"	3/8"	72.0	36.0	28.2	14.3	22.9	9.6	22	22	P - 8 - 6 - TMC
1/2"	1/2"	72.0	36.0	33.0	19.1	22.9	10.4	22	22	P - 8 - 8 - TMC
5/8"	1/2"	76.2	38.1	35.0	19.1	24.4	11.9	22	25	P - 10 - 8 - TMC
3/4"	1/2"	79.8	39.9	36.8	19.1	24.4	11.9	27	28.5	P - 12 - 8 - TMC
3/4"	3/4"	79.8	39.9	36.8	19.1	24.4	15.8	27	28.5	P - 12 - 12 - TMC
1"	3/4"	98.0	49.0	41.6	19.1	31.2	15.8	35	38	P - 16 - 12 - TMC
1"	1"	98.0	49.0	46.5	23.8	31.2	22.3	35	38	P - 16 - 16 - TMC
1.1/4"	1.1/4"	133.0	66.5	47.6	23.8	41.2	27.6	46	50	P - 20 - 20 - TMC
1.1/2"	1.1/2"	156.0	78.0	60.4	26.2	50.0	34.0	55	60	P - 24 - 24 - TMC

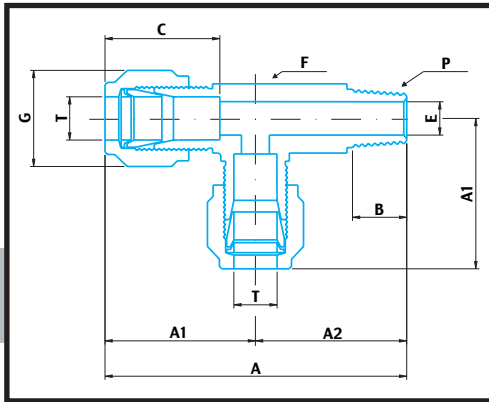


T MASCHIO LATERALE

TML

Metric OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	A1	A2	B	C	E	F	G	PART No.
3	1/8"	41.4	23.6	17.8	9.6	12.9	2.4	11	11	M - 3 - 2 - TML
3	1/4"	48.0	24.6	23.4	14.3	12.9	2.4	14	11	M - 3 - 4 - TML
6	1/8"	45.8	27.0	18.8	9.6	15.3	4.8	14	14	M - 6 - 2 - TML
6	1/4"	50.4	27.0	23.4	14.3	15.3	4.8	14	14	M - 6 - 4 - TML
6	3/8"	56.0	29.8	26.2	14.3	15.3	4.8	17	14	M - 6 - 6 - TML
8	1/4"	53.2	28.8	24.4	14.3	16.2	6.3	14	16	M - 8 - 4 - TML
8	3/8"	56.8	30.6	26.2	14.3	16.2	6.3	17	16	M - 8 - 6 - TML
8	1/2"	65.6	32.6	33.0	19.1	16.2	6.3	22	16	M - 8 - 8 - TML
10	1/4"	57.7	31.5	26.2	14.3	17.2	7.1	17	19	M - 10 - 4 - TML
10	3/8"	57.7	31.5	26.2	14.3	17.2	7.9	17	19	M - 10 - 6 - TML
10	1/2"	66.5	33.5	33.0	19.1	17.2	7.9	22	19	M - 10 - 8 - TML
12	1/4"	62.2	36.0	26.2	14.3	22.8	7.1	22	22	M - 12 - 4 - TML
12	3/8"	62.2	36.0	28.2	14.3	22.8	9.5	22	22	M - 12 - 6 - TML
12	1/2"	69.0	36.0	33.0	19.1	22.8	9.5	22	22	M - 12 - 8 - TML
16	1/2"	73.1	38.0	35.1	19.1	24.4	11.9	24	25	M - 16 - 8 - TML
25	3/4"	90.8	49.1	41.7	19.1	31.3	15.8	35	38	M - 25 - 12 - TML
25	1"	95.6	49.1	46.5	23.8	31.3	21.8	35	38	M - 25 - 16 - TML
30	1.1/4"	120.0	66.9	53.1	23.8	39.6	26.2	45	50	M - 30 - 20 - TML
32	1.1/4"	125.4	72.3	53.1	23.8	42.0	27.6	45	50	M - 32 - 20 - TML
38	1.1/2"	144.4	84.0	60.4	26.2	49.4	33.7	55	60	M - 38 - 24 - TML

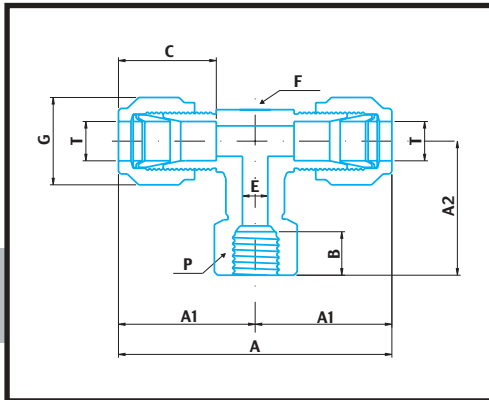


T MASCHIO LATERALE

TML

Inch OD tube x Male NPT thread

T TUBE OD	P NPT MALE	A	A1	A2	B	C	E	F	G	PART No.
1/8"	1/8"	41.4	23.6	17.8	9.6	12.7	2.4	11	11	P - 2 - 2 - TML
1/8"	1/4"	48.0	24.6	23.4	14.3	12.7	2.4	14	11	P - 2 - 4 - TML
1/4"	1/8"	45.7	26.9	18.8	9.6	15.3	4.8	14	14	P - 4 - 2 - TML
1/4"	1/4"	50.3	23.4	26.9	14.3	15.3	4.8	14	14	P - 4 - 4 - TML
1/4"	3/8"	55.9	29.7	26.2	14.3	15.3	4.8	17	14	P - 4 - 6 - TML
1/4"	1/2"	64.8	31.8	33.0	19.1	15.3	4.8	22	14	P - 4 - 8 - TML
3/8"	1/4"	55.9	30.5	25.4	14.3	16.8	7.1	17	17	P - 6 - 4 - TML
3/8"	3/8"	57.4	31.2	26.2	14.3	16.8	7.1	17	17	P - 6 - 6 - TML
3/8"	1/2"	66.0	33.0	33.0	19.1	16.8	7.1	22	17	P - 6 - 8 - TML
1/2"	1/4"	64.2	36.0	28.2	14.3	22.9	4.8	22	22	P - 8 - 4 - TML
1/2"	3/8"	64.2	36.0	28.2	14.3	22.9	9.6	22	22	P - 8 - 6 - TML
1/2"	1/2"	69.0	36.0	33.0	19.1	22.9	10.4	22	22	P - 8 - 8 - TML
5/8"	1/2"	73.1	38.1	35.0	19.1	24.4	11.9	22	25	P - 10 - 8 - TML
3/4"	1/2"	76.7	39.9	36.8	19.1	24.4	11.9	27	28.5	P - 12 - 8 - TML
3/4"	3/4"	76.7	39.9	36.8	19.1	24.4	15.8	27	28.5	P - 12 - 12 - TML
1"	3/4"	90.6	49.0	41.6	19.1	31.2	15.8	35	38	P - 16 - 12 - TML
1"	1"	95.5	49.0	46.5	23.8	31.2	22.3	35	38	P - 16 - 16 - TML
1.1/4"	1.1/4"	114.1	66.5	47.6	23.8	41.2	27.6	46	50	P - 20 - 20 - TML
1.1/2"	1.1/2"	138.4	78.0	60.4	26.2	50.0	34.0	55	60	P - 24 - 24 - TML



T FEMMINA CENTRALE

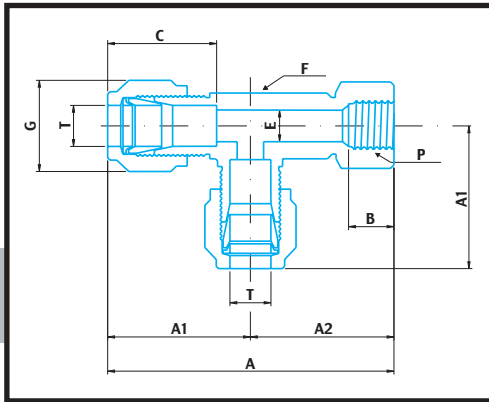
TFC

Metric OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	A1	A2	B	C	E	F	G	PART No.
3	1/8"	49.2	24.6	19.0	10.4	12.9	2.4	14	11	M - 3 - 2 - TFC
6	1/8"	54.0	27.0	19.0	10.4	15.3	4.8	14	14	M - 6 - 2 - TFC
6	1/4"	59.6	29.8	22.4	15.0	15.3	4.8	19	14	M - 6 - 4 - TFC
8	1/8"	59.8	29.9	19.0	10.4	16.2	6.3	16	16	M - 8 - 2 - TFC
8	1/4"	61.2	30.6	22.4	15.0	16.2	6.3	19	16	M - 8 - 4 - TFC
10	1/4"	67.0	33.5	22.4	15.0	17.2	7.9	19	19	M - 10 - 4 - TFC
12	3/8"	72.0	36.0	22.4	15.0	22.8	9.5	22	22	M - 12 - 6 - TFC
12	1/2"	77.6	38.8	28.5	19.8	22.8	9.5	27	22	M - 12 - 8 - TFC
16	1/2"	79.0	39.5	28.5	19.8	24.4	12.7	27	25	M - 16 - 8 - TFC
25	1"	107.2	53.6	38.1	25.4	31.3	22.3	41	38	M - 25 - 16 - TFC

Inch OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	A1	A2	B	C	E	F	G	PART No.
1/8"	1/8"	49.2	24.6	19.0	10.4	12.7	2.4	14	11	P - 2 - 2 - TFC
1/4"	1/8"	53.8	26.9	19.0	10.4	15.3	4.8	14	14	P - 4 - 2 - TFC
1/4"	1/4"	59.4	29.7	22.4	15.0	15.3	4.8	19	14	P - 4 - 4 - TFC
3/8"	1/4"	62.4	31.2	22.4	15.0	16.8	7.1	19	17	P - 6 - 4 - TFC
3/8"	3/8"	66.6	33.3	22.4	15.0	16.8	7.1	22	17	P - 6 - 6 - TFC
1/2"	3/8"	72.0	36.0	22.4	15.0	22.9	10.4	22	22	P - 8 - 6 - TFC
1/2"	1/2"	77.8	38.9	28.5	19.8	22.9	10.4	27	22	P - 8 - 8 - TFC
3/4"	3/4"	89.4	44.7	31.8	20.6	24.4	15.8	35	28.5	P - 12 - 12 - TFC
1"	3/4"	98.0	49.0	31.8	20.6	31.2	22.3	35	38	P - 16 - 12 - TFC
1"	1"	107.2	53.6	38.1	25.4	31.2	22.3	41	38	P - 16 - 16 - TFC



T FEMMINA LATERALE

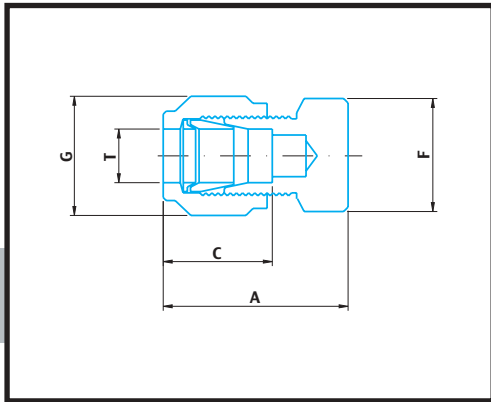
TFL

Metric OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	A1	A2	B	C	E	F	G	PART No.
3	1/8"	43.6	24.6	19.0	10.4	12.9	2.4	14	11	M - 3 - 2 - TFL
6	1/8"	46.0	27.0	19.0	10.4	15.3	4.8	14	14	M - 6 - 2 - TFL
6	1/4"	52.2	29.8	22.4	15.0	15.3	4.8	19	14	M - 6 - 4 - TFL
8	1/8"	48.9	29.9	19.0	10.4	16.2	6.3	16	16	M - 8 - 2 - TFL
8	1/4"	53.0	30.6	22.4	15.0	16.2	6.3	19	16	M - 8 - 4 - TFL
10	1/4"	55.9	33.5	22.4	15.0	17.2	7.9	19	19	M - 10 - 4 - TFL
12	3/8"	58.4	36.0	22.4	15.0	22.8	9.5	22	22	M - 12 - 6 - TFL
12	1/2"	67.3	38.8	28.5	19.8	22.8	9.5	27	22	M - 12 - 8 - TFL
16	1/2"	68.0	39.5	28.5	19.8	24.4	12.7	27	25	M - 16 - 8 - TFL
25	1"	91.7	53.6	38.1	25.4	31.3	22.3	41	38	M - 25 - 16 - TFL

Inch OD tube x Female NPT thread

T TUBE OD	P NPT FEMALE	A	A1	A2	B	C	E	F	G	PART No.
1/8"	1/8"	43.6	24.6	19.0	10.4	12.7	2.4	14	11	P - 2 - 2 - TFL
1/4"	1/8"	45.9	26.9	19.0	10.4	15.3	4.8	14	14	P - 4 - 2 - TFL
1/4"	1/4"	52.1	29.7	22.4	15.0	15.3	4.8	19	14	P - 4 - 4 - TFL
3/8"	1/4"	53.6	31.2	22.4	15.0	16.8	7.1	19	17	P - 6 - 4 - TFL
3/8"	3/8"	55.7	33.3	22.4	15.0	16.8	7.1	22	17	P - 6 - 6 - TFL
1/2"	3/8"	58.4	36.0	22.4	15.0	22.9	10.4	22	22	P - 8 - 6 - TFL
1/2"	1/2"	67.4	38.9	28.5	19.8	22.9	10.4	27	22	P - 8 - 8 - TFL
3/4"	3/4"	76.5	44.7	31.8	20.6	24.4	15.8	35	28.5	P - 12 - 12 - TFL
1"	3/4"	80.8	49.0	31.8	20.6	31.2	22.3	35	38	P - 16 - 12 - TFL
1"	1"	91.7	53.6	38.1	25.4	31.2	22.3	41	38	P - 16 - 16 - TFL



TAPPO PER TUBO

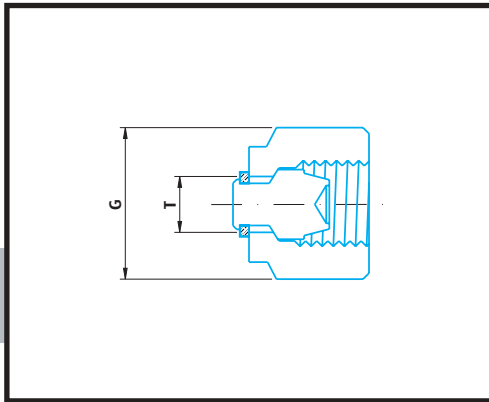
TT

Metric OD tube

T TUBE OD	A	C	F	G	PART No.
3	20.1	12.9	11	11	M - 3 - TT
6	23.1	15.3	14	14	M - 6 - TT
8	24.5	16.2	16	16	M - 8 - TT
10	26.6	17.2	17	19	M - 10 - TT
12	29.1	22.8	22	22	M - 12 - TT
14	29.9	24.4	24	25	M - 14 - TT
15	29.9	24.4	24	25	M - 15 - TT
16	29.9	24.4	24	25	M - 16 - TT
18	31.4	24.4	27	30	M - 18 - TT
20	34.0	26.0	32	32	M - 20 - TT
22	34.0	26.0	32	32	M - 22 - TT
25	38.5	31.3	35	38	M - 25 - TT
28	48.5	36.6	41	46	M - 28 - TT
30	53.4	39.6	46	50	M - 30 - TT
32	55.8	42.0	46	50	M - 32 - TT
38	65.4	49.4	55	60	M - 38 - TT

Inch OD tube

T TUBE OD	A	C	F	G	PART No.
1/16"	13.0	8.6	11	8	P - 1 - TT
1/8"	20.0	12.7	11	11	P - 2 - TT
1/4"	23.4	15.3	14	14	P - 4 - TT
5/16"	24.4	16.3	16	16	P - 5 - TT
3/8"	25.7	16.8	17	17	P - 6 - TT
1/2"	29.2	22.9	22	22	P - 8 - TT
5/8"	30.0	24.4	24	25	P - 10 - TT
3/4"	31.5	24.4	27	28.5	P - 12 - TT
7/8"	34.0	25.9	35	32	P - 14 - TT
1"	38.4	31.2	35	38	P - 16 - TT
1.1/4"	53.3	41.2	46	50	P - 20 - TT
1.1/2"	64.5	50.0	55	60	P - 24 - TT



TAPPO PER RACCORDO

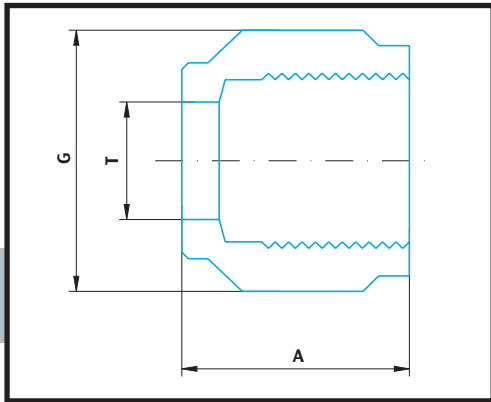
TR

Metric OD tube

T TUBE OD	G	PART No.
3	11	M - 3 - TR
6	14	M - 6 - TR
8	16	M - 8 - TR
10	19	M - 10 - TR
12	22	M - 12 - TR
14	25	M - 14 - TR
15	25	M - 15 - TR
16	25	M - 16 - TR
18	30	M - 18 - TR
20	32	M - 20 - TR
22	32	M - 22 - TR
25	38	M - 25 - TR
28	46	M - 28 - TR
30	50	M - 30 - TR
32	50	M - 32 - TR
38	60	M - 38 - TR

Inch OD tube

T TUBE OD	G	PART No.
1/16"	8	P - 1 - TR
1/8"	11	P - 2 - TR
1/4"	14	P - 4 - TR
5/16"	16	P - 5 - TR
3/8"	17	P - 6 - TR
1/2"	22	P - 8 - TR
5/8"	25	P - 10 - TR
3/4"	28.5	P - 12 - TR
7/8"	32	P - 14 - TR
1"	38	P - 16 - TR
1.1/4"	50	P - 20 - TR
1.1/2"	60	P - 24 - TR



DADO

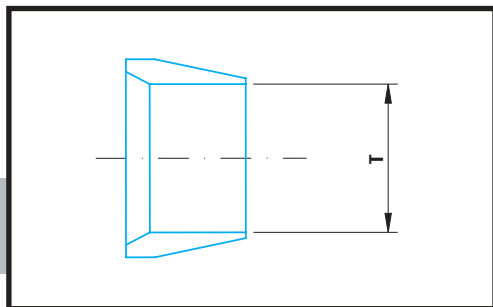
D

Metric OD tube

T TUBE OD	A	G	PART No.
3	12	11	M - 3 - D
6	12.7	14	M - 6 - D
8	13.5	16	M - 8 - D
10	15.1	19	M - 10 - D
12	17.5	22	M - 12 - D
14	17.5	25	M - 14 - D
15	17.5	25	M - 15 - D
16	17.5	25	M - 16 - D
18	17.5	30	M - 18 - D
20	17.5	32	M - 20 - D
22	17.5	32	M - 22 - D
25	20.6	38	M - 25 - D
28	30.6	46	M - 28 - D
30	32.7	50	M - 30 - D
32	31.8	50	M - 32 - D
38	38.1	60	M - 38 - D

Inch OD tube

T TUBE OD	A	G	PART No.
1/16"	17.8	8	P - 1 - D
1/8"	12.0	11	P - 2 - D
1/4"	12.7	14	P - 4 - D
5/16"	14.0	16	P - 5 - D
3/8"	14.5	17	P - 6 - D
1/2"	17.5	22	P - 8 - D
5/8"	17.5	25	P - 10 - D
3/4"	17.5	28.5	P - 12 - D
7/8"	17.5	32	P - 14 - D
1"	20.6	38	P - 16 - D
1.1/4"	31.8	50	P - 20 - D
1.1/2"	38.0	60	P - 24 - D



FERRULA ANTERIORE

FA

Metric OD tube

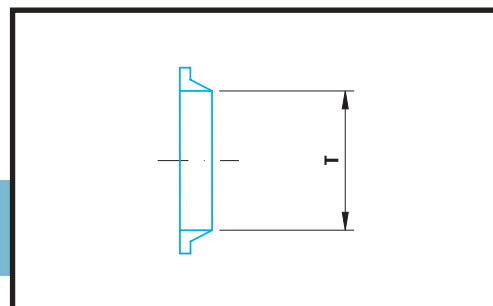
T TUBE OD	PART No.
3	M - 3 - FA
6	M - 6 - FA
8	M - 8 - FA
10	M - 10 - FA
12	M - 12 - FA
14	M - 14 - FA
15	M - 15 - FA
16	M - 16 - FA
18	M - 18 - FA
20	M - 20 - FA
22	M - 22 - FA
25	M - 25 - FA
28	M - 28 - FA
30	M - 30 - FA
32	M - 32 - FA
38	M - 38 - FA

Inch OD tube

T TUBE OD	PART No.
1/16"	P - 1 - FA
1/8"	P - 2 - FA
1/4"	P - 4 - FA
5/16"	P - 5 - FA
3/8"	P - 6 - FA
1/2"	P - 8 - FA
5/8"	P - 10 - FA
3/4"	P - 12 - FA
7/8"	P - 14 - FA
1"	P - 16 - FA
1.1/4"	P - 20 - FA
1.1/2"	P - 24 - FA

FERRULA POSTERIORE

FP



Metric OD tube

T TUBE OD	PART No.
3	M - 3 - FP
6	M - 6 - FP
8	M - 8 - FP
10	M - 10 - FP
12	M - 12 - FP
14	M - 14 - FP
15	M - 15 - FP
16	M - 16 - FP
18	M - 18 - FP
20	M - 20 - FP
22	M - 22 - FP
25	M - 25 - FP
28	M - 28 - FP
30	M - 30 - FP
32	M - 32 - FP
38	M - 38 - FP

Inch OD tube

T TUBE OD	PART No.
1/16"	P - 1 - FP
1/8"	P - 2 - FP
1/4"	P - 4 - FP
5/16"	P - 5 - FP
3/8"	P - 6 - FP
1/2"	P - 8 - FP
5/8"	P - 10 - FP
3/4"	P - 12 - FP
7/8"	P - 14 - FP
1"	P - 16 - FP
1.1/4"	P - 20 - FP
1.1/2"	P - 24 - FP

- Ampia gamma di scelta
- Dimensioni da 1/8" a 1"
- Costruzione da barra o da forgia
- Filettature in accordo a ANSI B1.20.1, DIN 2999, BSP e ISO 7/1
- Estremità protette con tappi in plastica per assicurarne l'integrità

MATERIALI

La raccorderia filettata BULK è disponibile dal pronto in acciaio inossidabile AISI 316. Su richiesta la stessa è fornibile in: Ottone, Monel, Hastelloy, Inconel, Titanio,...

PRESSIONE D'ESERCIZIO

I limiti di pressione x la raccorderia filettata BULK sono calcolati in accordo alla norma ANSI B31.1 e sono evidenziati nella tabella sottostante.

Per lo stesso diametro, il limite dei raccordi filettati femmina è inferiore a confronto di quelli filettati maschio.

NPT DIMENSIONE	316SS MASCHIO	316SS FEMMINA
1/8"	9.300	6.000
1/4"	7.300	6.000
3/8"	7.000	5.000
1/2"	6.900	4.500
3/4"	6.500	4.200
1"	4.800	4.000

ISTRUZIONI D'ASSEMBLAGGIO

Per assicurare una perfetta tenuta dei filetti NPT è consigliabile l'utilizzo di un sigillante sull' estremità maschio; il nastro di PTFE è quello più comunemente utilizzato.

- 1) Pulire sia il filetto femmina che quello maschio
- 2) Avvolgere il nastro sull' estremità maschio in senso orario per tenderlo durante l' avvitamento
- 3) Assicurarsi che il sigillante non ricopra la prima cresta per evitare eventuali intrusioni dello stesso in linea
- 4) Eliminare il nastro in eccesso

L' utilizzo di sigillanti potrebbe ridurre la temperatura massima di funzionamento.

Si raccomanda di attenersi alle istruzioni di utilizzo fornite dal produttore del nastro o pasta sigillante.

COME ORDINARE



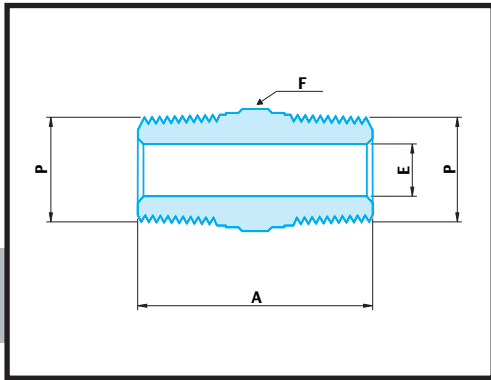
TABELLA 1

NO SUFFIX = 316
 L = 316 L
 O = OTTONE
 M = MONEL
 TI = TITANIO
 H = HASTELLOY
 I = INCONEL

TABELLA 2

NO SUFFIX = NPT ANSI B1.20.1
 K = BSPP ISO 228/1, BS 2779 - ISO 228/1
 J = BSPT ISO 7/1, BS 21, DIN 2999

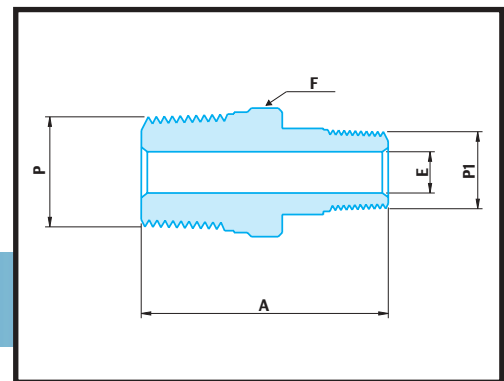
	NIPPLLO N	40		GOMITO MASCHIO/FEMMINA GMF	43
	NIPPLLO RIDUCENTE NR	40		GOMITO FEMMINA GFF	43
	MANICOTTO M	41		T FEMMINA FT	44
	MANICOTTO RIDUCENTE MR	41		T FEMMINA CON MASCHIO LATERALE TS	44
	ADATTATORE A	42		T FEMMINA CON MASCHIO CENTRALE TB	44
	ADATTATORE RIDUCENTE AR	42		T MASCHIO MT	45
	RIDUZIONE MASCHIO/FEMMINA RMF	42		TAPPO MASCHIO TM	45
	GOMITO MASCHIO GMM	43		TAPPO FEMMINA TF	45



NIPPOLO

N

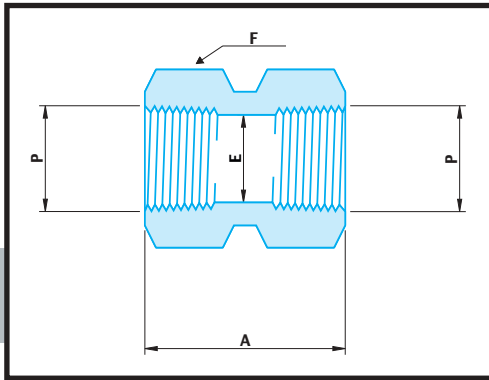
P NPT MALE	A	B	E	F	PART No.
1/16"	25.7	9.6	3.0	8	1 - N
1/8"	25.7	9.6	4.8	11	2 - N
1/4"	35.6	14.3	7.1	14	4 - N
3/8"	36.3	14.3	9.6	19	6 - N
1/2"	46.7	19.1	11.9	22	8 - N
3/4"	46.7	19.1	15.8	27	12 - N
1"	58.9	23.8	22.3	35	16 - N



NIPPOLO RIDUCENTE

NR

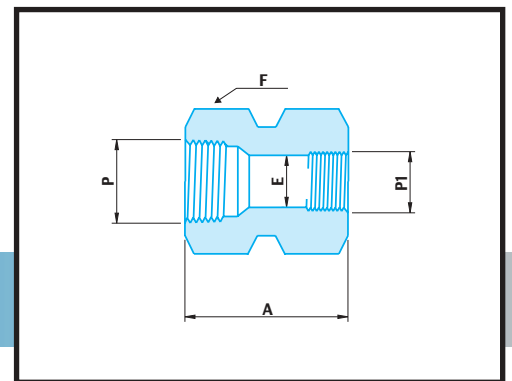
P NPT MALE	P1 NPT MALE	A	E	F	PART No.
1/8"	1/16"	25.7	3.0	11	2 - NR - 1
1/4"	1/8"	31.0	4.8	14	4 - NR - 2
3/8"	1/8"	31.8	4.8	19	6 - NR - 2
3/8"	1/4"	36.3	7.1	19	6 - NR - 4
1/2"	1/8"	37.4	4.8	22	8 - NR - 2
1/2"	1/4"	41.9	7.1	22	8 - NR - 4
1/2"	3/8"	41.9	9.6	22	8 - NR - 6
3/4"	1/4"	41.9	7.1	27	12 - NR - 4
3/4"	1/2"	46.7	11.9	27	12 - NR - 8
1"	1/2"	54.1	11.9	35	16 - NR - 8
1"	3/4"	54.1	15.8	35	16 - NR - 12



MANICOTTO

M

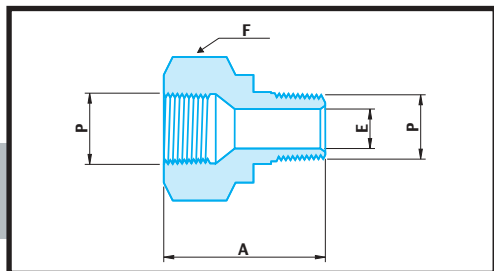
P NPT FEMALE	A	E	F	PART No.
1/8"	20.6	8.6	14	2 - M
1/4"	30.3	11.4	19	4 - M
3/8"	33.3	15.0	22	6 - M
1/2"	39.6	18.5	27	8 - M
3/4"	41.2	23.9	32	12 - M
1"	50.8	29.7	41	16 - M



MANICOTTO RIDUCENTE

MR

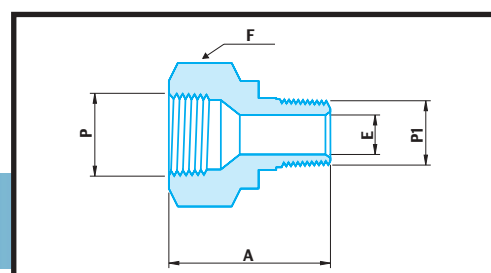
P NPT FEMALE	P1 NPT FEMALE	A	E	F	PART No.
1/4"	1/8"	31.0	8.6	19	4 - MR - 2
3/8"	1/4"	35.0	11.4	22	6 - MR - 4
1/2"	1/8"	39.6	8.6	27	8 - MR - 2
1/2"	1/4"	44.5	11.4	27	8 - MR - 4
1/2"	3/8"	45.2	15.0	27	8 - MR - 6
3/4"	1/4"	46.0	11.4	32	12 - MR - 4
3/4"	1/2"	52.3	18.5	32	12 - MR - 8
1"	1/2"	55.6	18.5	41	16 - MR - 8
1"	3/4"	57.2	23.8	41	16 - MR - 12



ADATTATORE

A

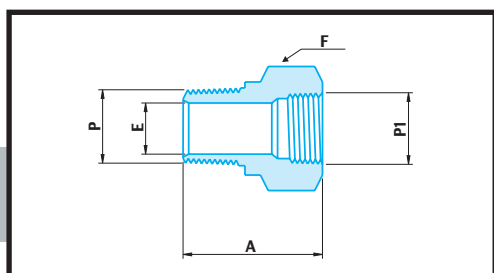
P NPT MALE & FEMALE	A	B	E	F	PART No.
1/8"	28.0	9.6	4.8	14	2 - A
1/4"	35.6	14.3	7.1	19	4 - A
3/8"	37.9	14.3	9.6	22	6 - A
1/2"	49.3	19.1	11.9	27	8 - A
3/4"	50.8	19.1	15.8	32	12 - A
1"	57.9	23.8	22.3	41	16 - A



ADATTATORE RIDUCENTE

AR

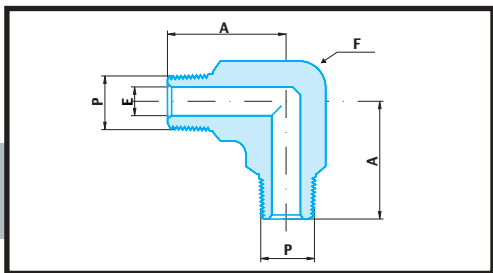
P NPT FEMALE	P1 NPT MALE	A	B	B1	E	F	PART No.
1/8"	1/16"	27.7	9.6	9.6	3.0	14	2 - AR - 1
1/4"	1/8"	32.0	14.3	9.6	4.8	19	4 - AR - 2
3/8"	1/8"	33.8	14.3	9.6	4.8	22	6 - AR - 2
3/8"	1/4"	38.1	14.3	14.3	7.1	22	6 - AR - 4
1/2"	1/8"	40.2	19.1	9.6	4.8	27	8 - AR - 2
1/2"	1/4"	44.7	19.1	14.3	7.1	27	8 - AR - 4
1/2"	3/8"	44.5	19.1	14.3	9.6	27	8 - AR - 6
3/4"	1/4"	46.3	19.1	14.3	7.1	32	12 - AR - 4
3/4"	3/8"	46.3	19.1	14.3	9.6	32	12 - AR - 6
3/4"	1/2"	51.3	19.1	19.1	11.9	32	12 - AR - 8
1"	1/4"	49.8	23.8	14.3	7.1	41	16 - AR - 4
1"	1/2"	54.9	23.8	19.1	11.9	41	16 - AR - 8
1"	3/4"	55.2	23.8	19.1	15.8	41	16 - AR - 12



RIDUZIONE MASCHIO/FEMMINA

RMF

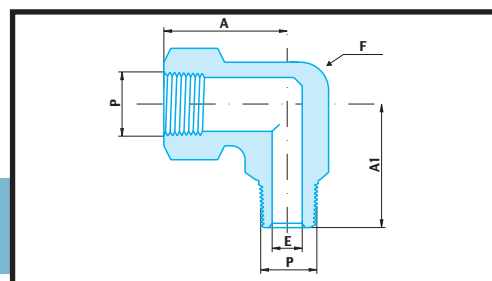
P NPT MALE	P1 NPT FEMALE	A	E	F	PART No.
1/8"	1/16"	26.2	4.8	11	2 - RMF - 1
1/4"	1/8"	26.9	7.1	14	4 - RMF - 2
3/8"	1/8"	21.8	8.6	19	6 - RMF - 2
3/8"	1/4"	30.3	9.6	19	6 - RMF - 4
1/2"	1/8"	27.4	8.6	22	8 - RMF - 2
1/2"	1/4"	27.4	11.4	22	8 - RMF - 4
1/2"	3/8"	35.8	11.9	22	8 - RMF - 6
3/4"	1/4"	27.4	11.4	27	12 - RMF - 4
3/4"	3/8"	27.4	15.0	27	12 - RMF - 6
3/4"	1/2"	41.4	15.8	27	12 - RMF - 8
1"	1/4"	34.8	11.4	35	16 - RMF - 4
1"	3/8"	34.8	15.0	35	16 - RMF - 6
1"	1/2"	34.8	18.5	35	16 - RMF - 8
1"	3/4"	47.0	22.3	35	16 - RMF - 12



GOMITO MASCHIO

GMM

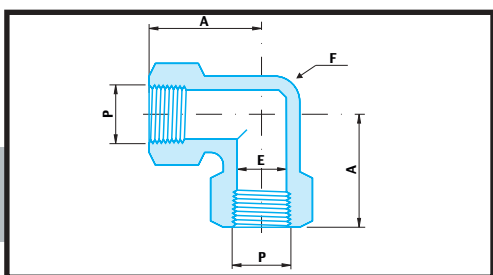
P NPT MALE	E	F	A	PART No.
1/8"	4.8	11	22.3	2 - GMM
1/4"	7.1	14	26.7	4 - GMM
3/8"	9.6	19	29.7	6 - GMM
1/2"	11.9	22	36.8	8 - GMM
3/4"	15.8	27	38.9	12 - GMM
1"	22.3	35	45.2	16 - GMM



GOMITO MASCHIO/FEMMINA

GMF

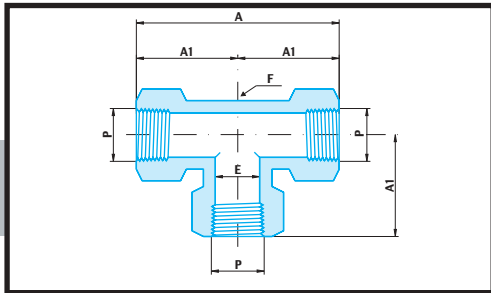
P NPT MALE & FEMALE	E	F	A	A1	PART No.
1/8"	4.8	14	26.4	22.3	2 - GMF
1/4"	7.1	19	29.7	26.7	4 - GMF
3/8"	9.6	22	36.0	29.7	6 - GMF
1/2"	11.9	27	39.6	36.8	8 - GMF
3/4"	15.8	32	48.8	38.9	12 - GMF
1"	22.3	35	48.5	45.2	16 - GMF



GOMITO FEMMINA

GFF

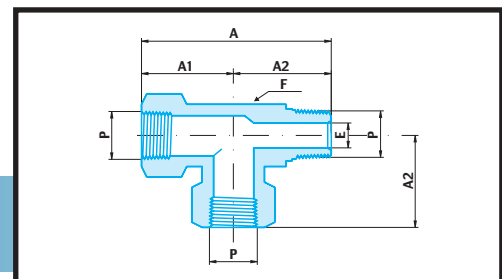
P NPT FEMALE	E	F	A	PART No.
1/8"	8.6	14	26.4	2 - GFF
1/4"	11.4	19	29.7	4 - GFF
3/8"	15.0	22	36.1	6 - GFF
1/2"	18.5	27	39.6	8 - GFF
3/4"	23.9	32	48.8	12 - GFF
1"	29.7	35	48.5	16 - GFF



T FEMMINA

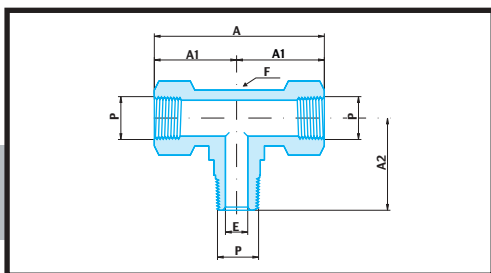
FT

P NPT FEMALE	A	A1	E	F	PART No.
1/8"	52.8	26.4	8.67	14	2 - FT
1/4"	59.4	29.7	11.4	19	4 - FT
3/8"	72.0	36.0	15.0	22	6 - FT
1/2"	79.2	39.6	18.5	27	8 - FT
3/4"	97.6	48.8	23.9	32	12 - FT
1"	97.0	48.5	29.7	41	16 - FT



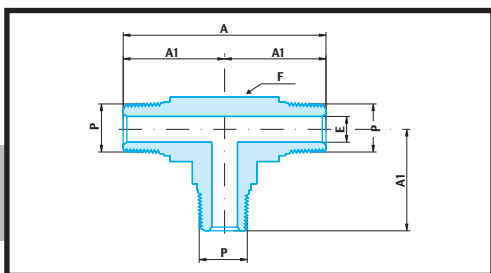
T FEMMINA CON MASCHIO LATERALE TS

P NPT MALE & FEMALE	A	A1	A2	E	F	PART No.
1/8"	48.7	26.4	22.3	8.6	14	2 - TS
1/4"	56.4	29.7	26.7	11.4	19	4 - TS
3/8"	65.7	36.0	29.7	15.0	22	6 - TS
1/2"	76.4	39.6	36.8	18.5	27	8 - TS
3/4"	87.7	48.8	38.9	23.9	32	12 - TS
1"	93.7	48.5	45.2	29.7	41	16 - TS



T FEMMINA CON MASCHIO CENTRALE TB

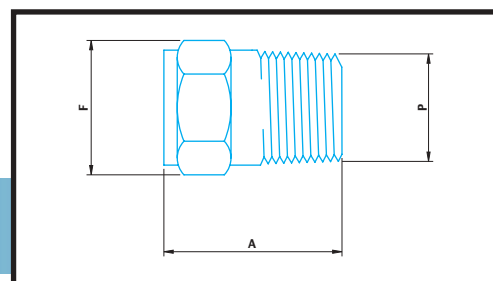
P NPT MALE & FEMALE	A	A1	A2	E	F	PART No.
1/8"	52.8	26.4	22.3	8.6	14	2 - TB
1/4"	59.4	29.7	26.7	11.4	19	4 - TB
3/8"	72.0	36.0	29.7	15.0	22	6 - TB
1/2"	79.2	39.6	36.8	18.5	27	8 - TB
3/4"	97.6	48.8	38.9	23.9	32	12 - TB
1"	97.0	48.5	45.2	29.7	41	16 - TB



T MASCHIO

MT

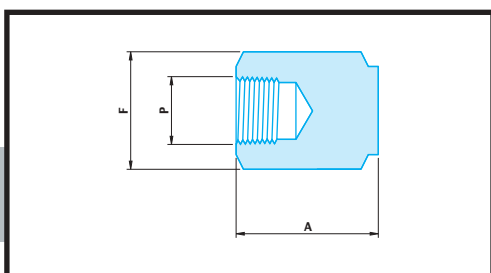
P NPT MALE	A	A1	B	E	F	PART No.
1/8"	44.6	22.3	9.6	4.8	11	2 - MT
1/4"	53.4	26.7	14.3	7.1	14	4 - MT
3/8"	59.4	29.7	14.3	9.6	19	6 - MT
1/2"	73.6	36.8	19.1	11.9	22	8 - MT
3/4"	77.8	38.9	19.1	15.8	27	12 - MT
1"	90.4	45.2	23.8	22.3	35	16 - MT



T MASCHIO

TM

P NPT MALE	A	F	PART No.
1/16"	19.0	8	1 - TM
1/8"	19.0	11	2 - TM
1/4"	24.4	14	4 - TM
3/8"	25.2	19	6 - TM
1/2"	30.7	22	8 - TM
3/4"	30.7	27	12 - TM
1"	38.1	35	16 - TM



TAPPO FEMMINA

TF

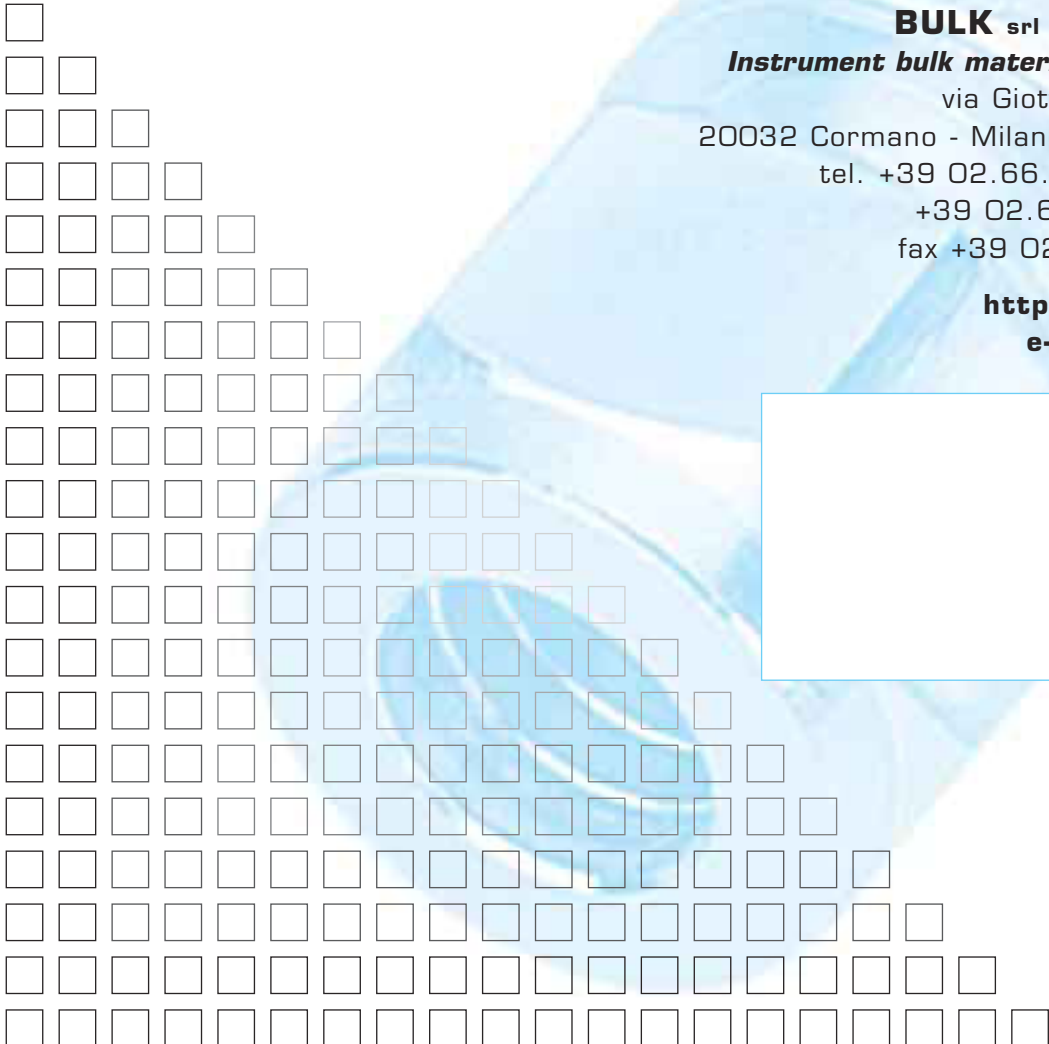
P NPT FEMALE	A	F	PART No.
1/8"	19	14	2 - TF
1/4"	23.2	19	4 - TF
3/8"	26.2	22	6 - TF
1/2"	34.0	27	8 - TF
3/4"	36.6	32	12 - TF
1"	41.2	41	16 - TF

NOTE

A series of horizontal dotted lines for writing notes.

Dimensions are for reference only, and are subject to change without notice.
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CAT. N. 2/04



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