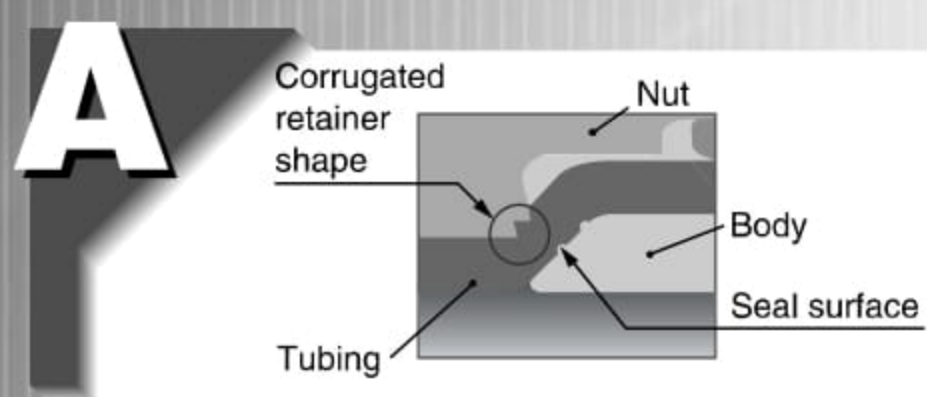
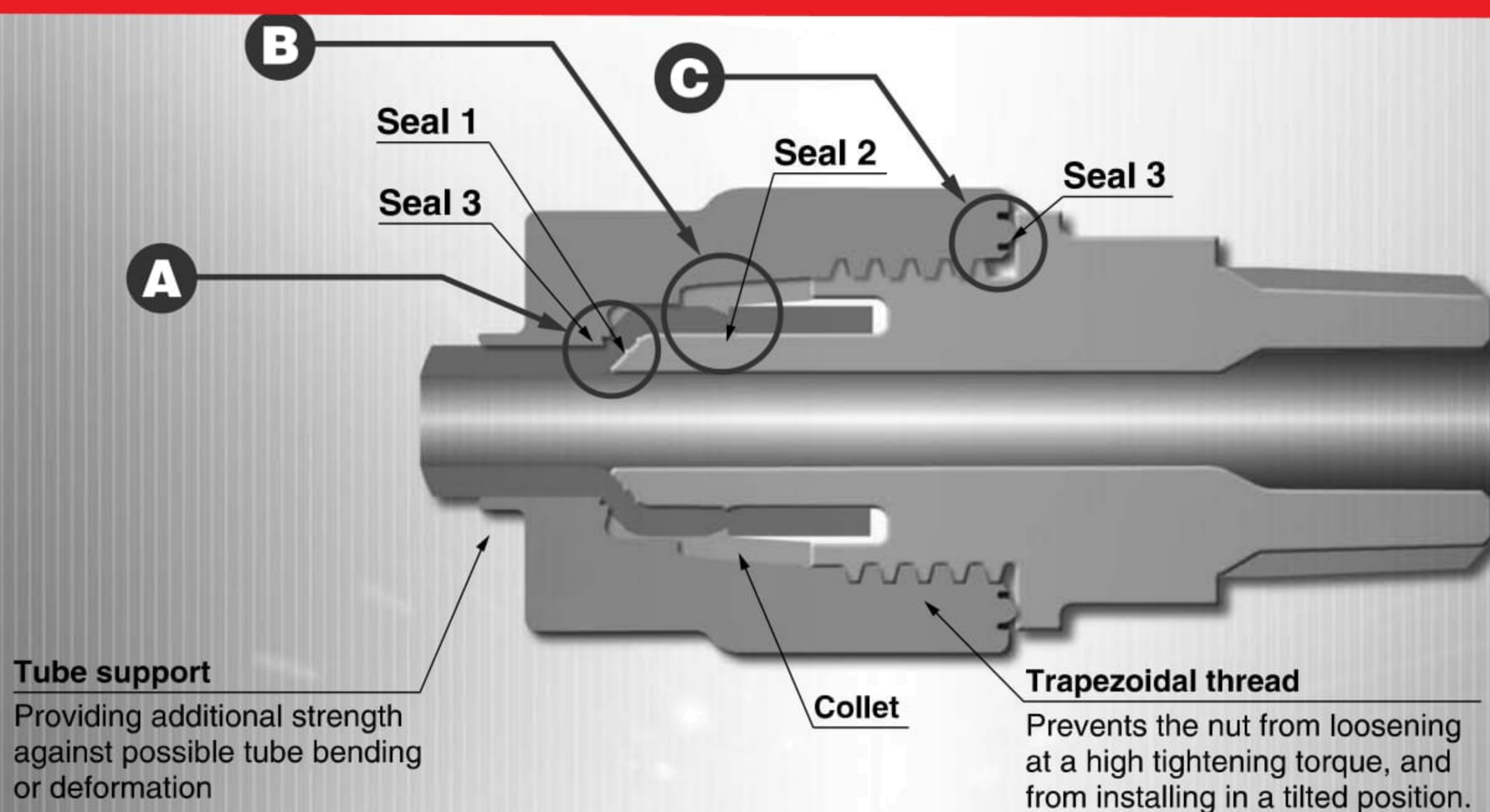
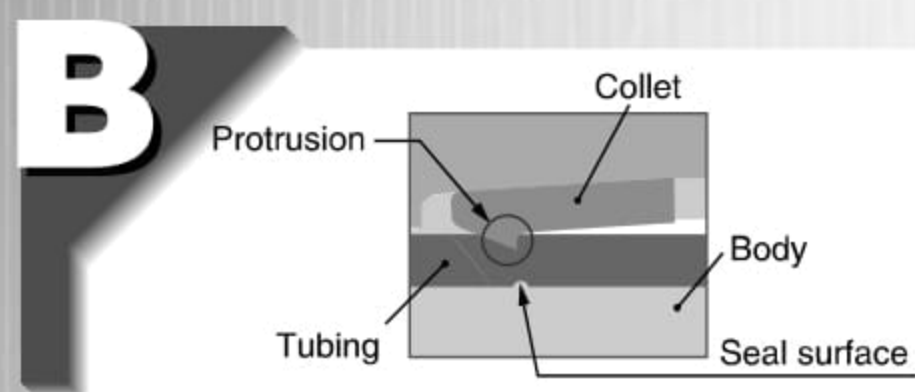


HypoTech

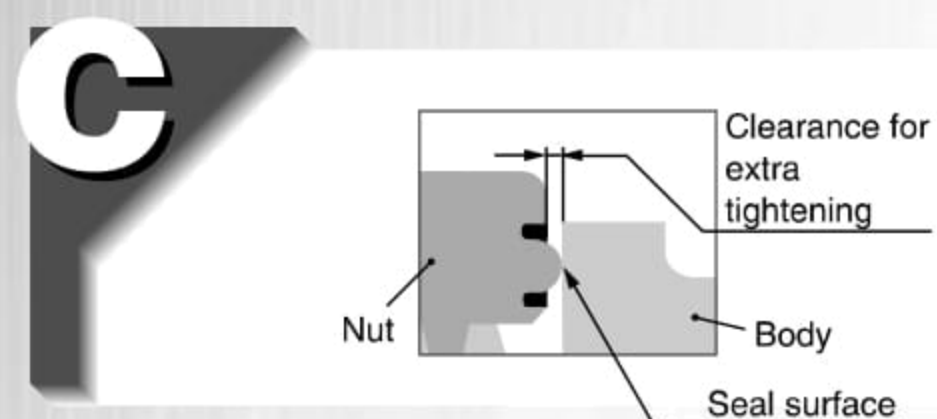
The Superior Triple-Action Flare Fitting System



- Tube retainer of the nut is made from a two-stage structure, enabling it to hold the tubing firmly.
- Fitting's seal surface to the tubing adopts a unique design to the area's pressure, resulting in improved sealing performance.



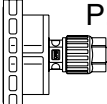
- Strengthening the prevention of the tube release by means of the collet structure.
- Sealing performance is highly maintained in a circumferential seal surface having a unique shape even under thermal stress conditions.



- To establish the tightening position, a gauge control is not required as the nut is designed to be tightened until the end surface of the fitting's main body.

[illegible]

Note) ●: A side tubing O.D. ○: B side tubing O.D. ⊙: C side tubing O.D.

Series	Appearance	Size	Tubing O.D.														
			Metric size								Inch size						
			ø3	ø4	ø6	ø8	ø10	ø12	ø19	ø25	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"
Straight adapter		P.346	2	—	—	●	—	—	—	—	—	—	●	—	—	—	—
		3	—	—	—	●	●	—	—	—	—	—	●	—	—	—	—
		4	—	—	—	—	—	●	—	—	—	—	—	●	—	—	—
		5	—	—	—	—	—	—	●	—	—	—	—	—	●	—	—
		6	—	—	—	—	—	—	—	●	—	—	—	—	—	●	—
		7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●
		Union flange		P.348	2	—	—	●	—	—	—	—	—	—	●	—	—
3	—			—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—			—	—	—	—	●	—	—	—	—	—	●	—	—	—
5	—			—	—	—	—	—	●	—	—	—	—	—	●	—	—
6	—			—	—	—	—	—	—	●	—	—	—	—	—	●	—

[illegible]



Specifications

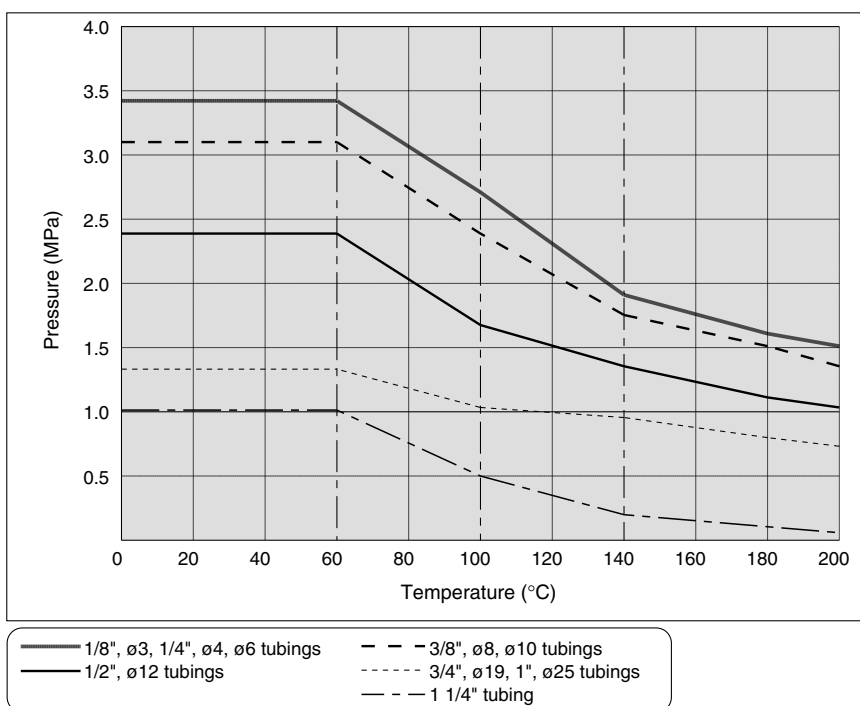
Feature	Model	
Material		New PFA
Maximum operating pressure (at 20°C)		1.0 MPa
Proof pressure		Refer to the withstand pressure and heat resistance performance data.
Operating temperature	Nut material PVDF	0 to 150°C
	Nut material PFA	0 to 200°C

⚠ Precautions

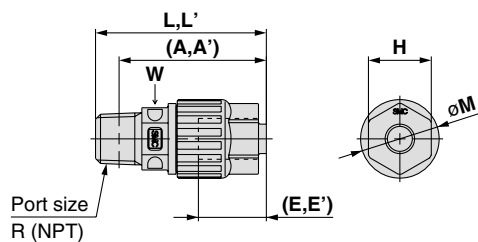
Be sure to read before handling.
Refer to front matters 58 and 59 for
Safety Instructions.

Piping

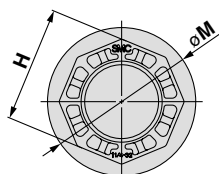
Withstand Pressure and Heat Resistance Performance



Male connector:



(A,A'): Reference dimension after installation
(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(A'),L',E': Nut material PVDF dimensions
W: Width across flats dimension



Class 7

Metric Size

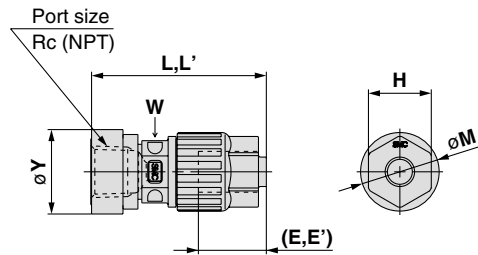
Applicable tubing O.D.	Connection threads R/NPT	A	A'	E	E'	H	L	L'	M	W
ø4	1/8"	29.5	28.5	10	9	11	33.5	32.5	14	10
ø3										
ø6	1/8"	39.5	38.5	17	16	16	43.5	42.5	20	14
	1/4"	37.5	36.5							
ø10	1/8"	51	48	22.5	19.5	21	55	52	25	18
ø8										
ø10	1/4"	49	46							
ø8										
ø10	3/8"	48.5	45.5				62	59		
ø8										
ø12	1/4"	58	56	24	22	24	64	62	29	22
	3/8"	57.5	55.5							
	1/2"	56	54							
	3/4"	59.8	57.6				69.3	67.1		
ø19	3/8"	69.5	67	26.5	24	32	76	73.5	37	30
	1/2"	68	65.5							
	3/4"	66.5	64							
ø25	1/2"	80	76	30	26	41	88	84	49	36
	3/4"	78.5	74.5							
	1"	77.5	73.5							

Inch Size

[illegible]

Dimensions

Female connector:

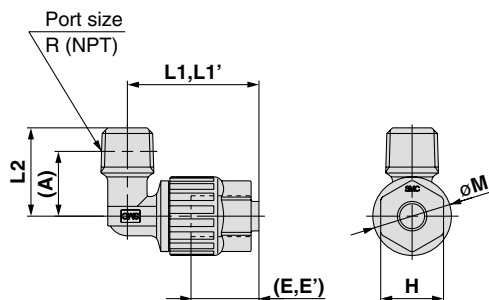


(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'),L': Nut material PVDF dimensions
 W: Width across flats dimension

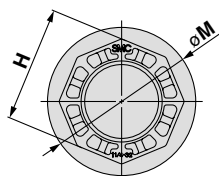
Applicable tubing O.D.	Connection threads Rc/NPT	E	E'	H	L	L'	M	W	Y
$\phi 4$	1/8"	10	9	11	35	34	14	10	18.5
$\phi 3$									
$\phi 6$	1/8"	17	16	16	40	39	20	14	18.5
	1/4"				45	44			21.5
$\phi 10$	1/8"	22.5	19.5	21	50.5	47.5	25	18	18.5
$\phi 8$					55	52			21.5
$\phi 10$	1/4"				55.5	52.5			25
$\phi 8$	3/8"				55.5	52.5			25
$\phi 12$	1/4"	24	22	24	55.5	53	29	22	21.5
	3/8"				58	56			25
	1/2"				66	64			29.5
$\phi 19$	3/8"	26.5	24	32	67	64.5	37	30	25
	1/2"				72	69.5			29.5
	3/4"				73.5	71			36
$\phi 25$	1/2"	30	26	41	81.5	77.5	49	36	29.5
	3/4"				83	79			36
	1"				90.5	86.5			44.5

Applicable tubing O.D.	Connection threads Rc/NPT	E	E'	H	L	L'	M	W	Y
1/8"	1/8"	10	9	11	35	34	14	10	18.5
1/4"	1/8"	17	16	16	40	39	20	14	18.5
	1/4"				45	44			21.5
3/8"	1/8"	22.5	19.5	21	50.5	47.5	25	18	18.5
	1/4"				55	52			21.5
	3/8"				55.5	52.5			25
1/2"	1/4"	24.5	22.5	24	55.5	53	29	22	21.5
	3/8"				58	56			25
	1/2"				66	64			29.5
3/4"	3/8"	26.5	24	32	67	64.5	37	30	25
	1/2"				72	69.5			29.5
	3/4"				73.5	71			36
1"	1/2"	30	26	41	81.5	77.5	49	36	29.5
	3/4"				83	79			36
	1"				90.5	86.5			44.5

Male elbow:



(A): Reference dimension after installation
(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L1': Nut material PVDF dimensions



Class 7

Metric Size

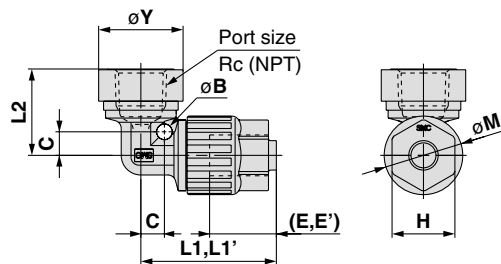
Applicable tubing O.D.	Connection threads R/NPT	A	E	E'	H	L1	L1'	L2	M			
ø4	1/8"	12.5	10	9	11	26	25	16.5	14			
ø3		18.5										
ø6	1/8"	18.5	17	16	16	33.5	32.5	22.5	20			
	1/4"	16.5										
ø10	1/8"	24	22.5	19.5	21	46	43	28	25			
ø8		22										
ø10	1/4"	21.5										
ø8		24.5										
ø12	1/2"	27				24	22	24		47.5	44.5	32.5
	1/4"	26.5								54.5	52.5	33
	1/2"	25										
ø19	3/8"	33.5	26.5	24	32	64	61.5	40	37			
	1/2"	32										
	3/4"	30.5										
ø25	1/2"	38	30	26	41	77	73	46	49			
	3/4"	36.5										
	1"	35.5										

Inch Size

[illegible]

Dimensions

Female elbow:



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L1': Nut material PVDF dimensions

Metric Size

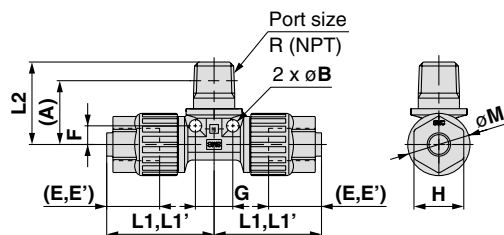
Applicable tubing O.D.	Connection threads Rc/NPT	B	C	E	E'	H	L1	L1'	L2	M	Y
ø4	1/8"	3.5	4.8	10	9	11	28.5	27.5	19.5	14	18.5
ø3											
ø6	1/8"	4	6	17	16	16	34.5	33.5	20	20	18.5
	1/4"								22		21.5
ø10	1/8"	5	9	22.5	19.5	21	47.5	44.5	23	25	18.5
ø8									24		21.5
ø10											
ø8											
ø10	3/8"	5	9	22.5	19.5	21	47.5	44.5	25.5	25	25
ø8											
ø12	1/4"	6	10	24	22	24	52.5	50.5	23.5	29	21.5
	3/8"								26		25
	1/2"								30		29.5
ø19	3/8"	7	14	26.5	24	32	64	61.5	30.5	37	25
	1/2"								35.5		29.5
	3/4"								37		36
ø25	1/2"	8	18	30	26	41	78	74	41	49	29.5
	3/4"								42.5		36
	1"								46		44.5

Inch Size

Applicable tubing O.D.	Connection threads Rc/NPT	B	C	E	E'	H	L1	L1'	L2	M	Y
1/8"	1/8"	3.5	4.8	10	9	11	28.5	27.5	19.5	14	18.5
1/4"	1/8"	4	6	17	16	16	34.5	33.5	20	20	18.5
	1/4"								22		21.5
3/8"	1/8"	5	9	22.5	19.5	21	47.5	44.5	23	25	18.5
	1/4"								24		21.5
	3/8"								25.5		25
1/2"	1/4"	6	10	24.5	22.5	24	52.5	50.5	23.5	29	21.5
	3/8"								26		25
	1/2"								30		29.5
3/4"	3/8"	7	14	26.5	24	32	64	61.5	30.5	37	25
	1/2"								35.5		29.5
	3/4"								37		36
1"	1/2"	8	18	30	26	41	78	74	41	49	29.5
	3/4"								42.5		36
	1"								46		44.5

Dimensions

Male branch tee:



(A): Reference dimension after installation
 (E,E'): Reference dimension for the inserted tubing from the end surface of the nut
 E', L1': Nut material PVDF dimensions

Metric Size

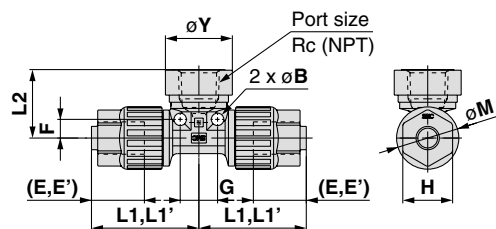
Applicable tubing O.D.	Connection threads R/NPT	A	B	E	E'	F	G	H	L1	L1'	L2	M
ø4	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14
ø3	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14
ø6	1/8"	19.5	4	17	16	6	12	16	34.5	33.5	23.5	20
ø6	1/4"	20.5	4	17	16	6	12	16	34.5	33.5	26.5	20
ø10	1/8"	22.5									26.5	
ø8	1/8"	22.5									26.5	
ø10	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	25
ø8	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	25
ø10	3/8"	24									30.5	
ø8	3/8"	24									30.5	
ø12	1/4"	27									33	
ø12	3/8"	27.5	6	24	22	10	20	24	52.5	50.5	34	29
ø12	1/2"	29	6	24	22	10	20	24	52.5	50.5	37	29
ø19	3/8"	32.5									39	
ø19	1/2"	34	7	26.5	24	14	28	32	64	61.5	42	37
ø19	3/4"	34.5	7	26.5	24	14	28	32	64	61.5	44	37
ø25	1/2"	42									50	
ø25	3/4"	42.5	8	30	26	18	36	41	78	74	52	49
ø25	1"	42.5	8	30	26	18	36	41	78	74	53	49

Inch Size

Applicable tubing O.D.	Connection threads R/NPT	A	B	E	E'	F	G	H	L1	L1'	L2	M
1/8"	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14
1/4"	1/8"	19.5	4	17	16	6	12	16	34.5	33.5	23.5	20
1/4"	1/4"	20.5	4	17	16	6	12	16	34.5	33.5	26.5	20
3/8"	1/8"	22.5									26.5	
3/8"	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	25
3/8"	3/8"	24									30.5	
1/2"	1/4"	27									33	
1/2"	3/8"	27.5	6	24.5	22.5	10	20	24	52.5	50.5	34	29
1/2"	1/2"	29	6	24.5	22.5	10	20	24	52.5	50.5	37	29
3/4"	3/8"	32.5									39	
3/4"	1/2"	34	7	26.5	24	14	28	32	64	61.5	42	37
3/4"	3/4"	34.5	7	26.5	24	14	28	32	64	61.5	44	37
1"	1/2"	42									50	
1"	3/4"	42.5	8	30	26	18	36	41	78	74	52	49
1"	1"	42.5	8	30	26	18	36	41	78	74	53	49

Dimensions

Female branch tee:



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L1': Nut material PVDF dimensions

Metric Size

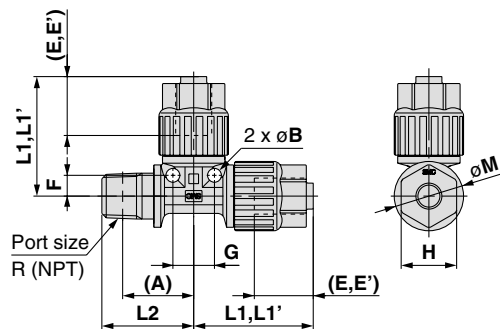
Applicable tubing O.D.	Connection threads Rc/NPT	B	E	E'	F	G	H	L1	L1'	L2	M	Y
ø4	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	18.5
ø3												
ø6	1/8"	4	17	16	6	12	16	34.5	33.5	20	20	18.5
	1/4"									22		21.5
ø10	1/8"	5	22.5	19.5	9	18	21	47.5	44.5	23	25	18.5
ø8										24		25
ø10												
ø8												
ø10												
ø8	3/8"									25.5		25
ø12	1/4"	6	24	22	10	20	24	52.5	50.5	23.5	29	21.5
	3/8"									26		25
	1/2"									30		29.5
ø19	3/8"	7	26.5	24	14	28	32	64	61.5	30.5	37	25
	1/2"									35.5		29.5
	3/4"									37		36
ø25	1/2"	8	30	26	18	36	41	78	74	41	49	29.5
	3/4"									42.5		36
	1"									46		44.5

Inch Size

Applicable tubing O.D.	Connection threads Rc/NPT	B	E	E'	F	G	H	L1	L1'	L2	M	Y
1/8"	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	18.5
1/4"	1/8"	4	17	16	6	12	16	34.5	33.5	20	20	18.5
	1/4"									22		21.5
3/8"	1/8"	5	22.5	19.5	9	18	21	47.5	44.5	23	25	18.5
	1/4"									24		21.5
	3/8"									25.5		25
1/2"	1/4"	6	24.5	22.5	10	20	24	52.5	50.5	23.5	29	21.5
	3/8"									26		25
	1/2"									30		29.5
3/4"	3/8"	7	26.5	24	14	28	32	64	61.5	30.5	37	25
	1/2"									35.5		29.5
	3/4"									37		36
1"	1/2"	8	30	26	18	36	41	78	74	41	49	29.5
	3/4"									42.5		36
	1"									46		44.5

Dimensions

Male run tee:



(A): Reference dimension after installation
 (E, E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'), L': Nut material PVDF dimensions

Metric Size

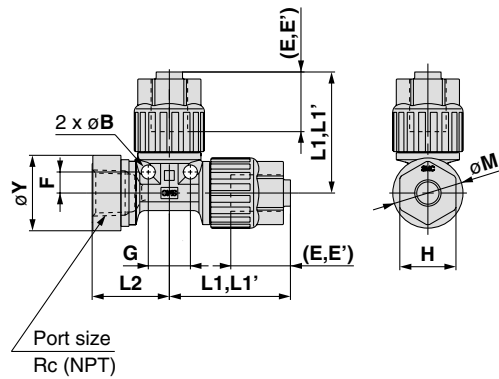
Applicable tubing O.D.	Connection threads R/NPT	A	B	E	E'	F	G	H	L1	L1'	L2	M
ø4	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14
ø3	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14
ø6	1/8"	19.5	4	17	16	6	12	16	34.5	33.5	23.5	20
	1/4"	20.5									26.5	
ø10	1/8"	22.5									26.5	
ø8	1/8"	22.5									26.5	
ø10	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	25
ø8	3/8"	24									30.5	
ø12	1/4"	27	6	24	22	10	20	24	52.5	50.5	33	29
	3/8"	27.5									34	
	1/2"	29									37	
ø19	3/8"	32.5	7	26.5	24	14	28	32	64	61.5	39	37
	1/2"	34									42	
	3/4"	34.5									44	
ø25	1/2"	42	8	30	26	18	36	41	78	74	50	49
	3/4"	42.5									52	
	1"										53	

Inch Size

Applicable tubing O.D.	Connection threads R/NPT	A	B	E	E'	F	G	H	L1	L1'	L2	M
1/8"	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14
1/4"	1/8"	19.5	4	17	16	6	12	16	34.5	33.5	23.5	20
	1/4"	20.5									26.5	
3/8"	1/8"	22.5									26.5	25
	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	
	3/8"	24									30.5	
1/2"	1/4"	27	6	24.5	22.5	10	20	24	52.5	50.5	33	29
	3/8"	27.5									34	
	1/2"	29									37	
3/4"	3/8"	32.5	7	26.5	24	14	28	32	64	61.5	39	37
	1/2"	34									42	
	3/4"	34.5									44	
1"	1/2"	42	8	30	26	18	36	41	78	74	50	49
	3/4"	42.5									52	
	1"										53	

Dimensions

Female run tee:



(E, E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'), L1': Nut material PVDF dimensions

Metric Size

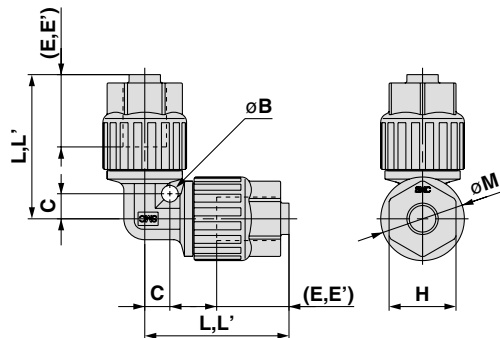
Applicable tubing O.D.	Connection threads Rc/NPT	B	E	E'	F	G	H	L1	L1'	L2	M	Y
ø4	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	18.5
ø3	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	18.5
ø6	1/8"	4	17	16	6	12	16	34.5	33.5	20	20	18.5
	1/4"	4	17	16	6	12	16	34.5	33.5	22	20	21.5
ø10	1/8"	5	22.5	19.5	9	18	21	47.5	44.5	23	25	18.5
ø8	1/8"									23		18.5
ø10	1/4"									24		21.5
ø8	1/4"									24		21.5
ø10	3/8"	5	22.5	19.5	9	18	21	47.5	44.5	25.5	25	25
	3/8"									25.5		25
	3/8"									25.5		25
ø12	1/4"	6	24	22	10	20	24	52.5	50.5	23.5	29	21.5
	3/8"									26		25
	1/2"									30		29.5
ø19	3/8"	7	26.5	24	14	28	32	64	61.5	30.5	37	25
	1/2"									35.5		29.5
	3/4"									37		36
ø25	1/2"	8	30	26	18	36	41	78	74	41	49	29.5
	3/4"									42.5		36
	1"									46		44.5

Inch Size

Applicable tubing O.D.	Connection threads Rc/NPT	B	E	E'	F	G	H	L1	L1'	L2	M	Y
1/8"	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	18.5
1/4"	1/8"	4	17	16	6	12	16	34.5	33.5	20	20	18.5
	1/4"									22		21.5
3/8"	1/8"	5	22.5	19.5	9	18	21	47.5	44.5	23	25	18.5
	1/4"									24		21.5
	3/8"									25.5		25
1/2"	1/4"	6	24.5	22.5	10	20	24	52.5	50.5	23.5	29	21.5
	3/8"									26		25
	1/2"									30		29.5
3/4"	3/8"	7	26.5	24	14	28	32	64	61.5	30.5	37	25
	1/2"									35.5		29.5
	3/4"									37		36
1"	1/2"	8	30	26	18	36	41	78	74	41	49	29.5
	3/4"									42.5		36
	1"									46		44.5

Dimensions

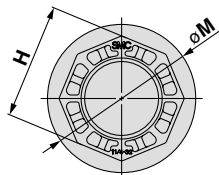
Union elbow:



Metric Size

Applicable tubing O.D.	B	C	E	E'	H	L	L'	M
ø4	3.5	4.8	10	9	11	28.5	27.5	14
ø3								
ø6	4	6	17	16	16	34.5	33.5	20
ø10	5	9	22.5	19.5	21	47.5	44.5	25
ø8								
ø12	6	10	24	22	24	52.5	50.5	29
ø19	7	14	26.5	24	32	64	61.5	37
ø25	8	18	30	26	41	78	74	49

(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L': Nut material PVDF dimensions

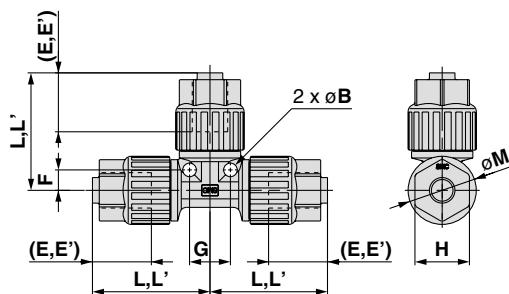


Class 7

Inch Size

Applicable tubing O.D.	B	C	E	E'	H	L	L'	M
1/8"	3.5	4.8	10	9	11	28.5	27.5	14
1/4"	4	6	17	16	16	34.5	33.5	20
3/8"	5	9	22.5	19.5	21	47.5	44.5	25
1/2"	6	10	24.5	22.5	24	52.5	50.5	29
3/4"	7	14	26.5	24	32	64	61.5	37
1"	8	18	30	26	41	78	74	49
1 1/4"	9	22	35	35	50	92.5	92.5	64

Union tee:



Metric Size

Applicable tubing O.D.	B	E	E'	F	G	H	L	L'	M
ø4	3.5	10	9	4.8	9.5	11	28.5	27.5	14
ø3									
ø6	4	17	16	6	12	16	34.5	33.5	20
ø10	5	22.5	19.5	9	18	21	47.5	44.5	25
ø8									
ø12	6	24	22	10	20	24	52.5	50.5	29
ø19	7	26.5	24	14	28	32	64	61.5	37
ø25	8	30	26	18	36	41	78	74	49

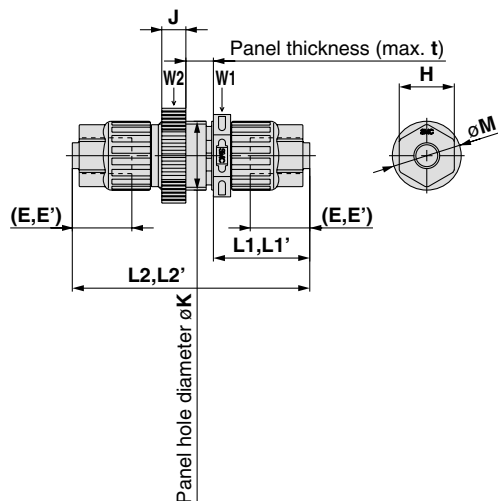
(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L': Nut material PVDF dimensions

Inch Size

Applicable tubing O.D.	B	E	E'	F	G	H	L	L'	M
1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	14
1/4"	4	17	16	6	12	16	34.5	33.5	20
3/8"	5	22.5	19.5	9	18	21	47.5	44.5	25
1/2"	6	24.5	22.5	10	20	24	52.5	50.5	29
3/4"	7	26.5	24	14	28	32	64	61.5	37
1"	8	30	26	18	36	41	78	74	49

Dimensions

Panel mount union:



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'), L1', L2': Nut material PVDF dimensions
 W: Width across flats dimension

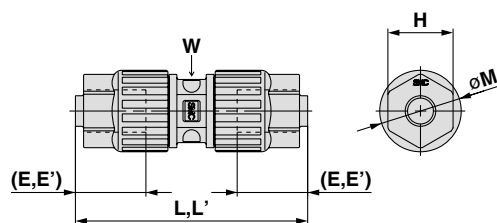
Metric Size

Applicable tubing O.D.	E	E'	H	J	K	L1	L1'	L2	L2'	M	t	W1	W2
ø4	10	9	11	6	14.5	23.5	22.5	58	56	14	8	16	17
ø3	10	9	11	6	14.5	23.5	22.5	58	56	14	8	16	17
ø6	17	16	16	7	20.5	28	27	69	67	20	8	21	24
ø10	22.5	19.5	21	7	24.5	39	36	89	83	25	8	26	28
ø8	22.5	19.5	21	7	24.5	39	36	89	83	25	8	26	28
ø12	24	22	24	9	30.5	44.5	42.5	100	96	29	8	32	36
ø19	26.5	24	32	9	36.5	50.5	48	117	112	37	13	41	43
ø25	30	26	41	10	48.5	60	56	136	127.5	49	13	50	55

Inch Size

Applicable tubing O.D.	E	E'	H	J	K	L1	L1'	L2	L2'	M	t	W1	W2
1/8"	10	9	11	6	14.5	23.5	22.5	58	56	14	8	16	17
1/4"	17	16	16	7	20.5	28	27	69	67	20	8	21	24
3/8"	22.5	19.5	21	7	24.5	39	36	89	83	25	8	26	28
1/2"	24.5	22.5	24	9	30.5	44.5	42.5	100	96	29	8	32	36
3/4"	26.5	24	32	9	36.5	50.5	48	117	112	37	13	41	43
1"	30	26	41	10	48.5	60	56	136	127.5	49	13	50	55

Union:



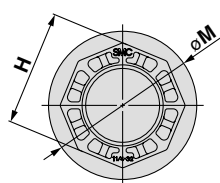
(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'), L': Nut material PVDF dimensions
 W: Width across flats dimension

Metric Size

Applicable tubing O.D.	E	E'	H	L	L'	M	W
ø4	10	9	11	46.5	44.5	14	10
ø3	10	9	11	46.5	44.5	14	10
ø6	17	16	16	57	55	20	14
ø10	22.5	19.5	21	79	73	25	18
ø8	22.5	19.5	21	79	73	25	18
ø12	24	22	24	88	84	29	22
ø19	26.5	24	32	103	98	37	30
ø25	30	26	41	122	113.5	49	36

Inch Size

Applicable tubing O.D.	E	E'	H	L	L'	M	W
1/8"	10	9	11	46.5	44.5	14	10
1/4"	17	16	16	57	55	20	14
3/8"	22.5	19.5	21	79	73	25	18
1/2"	24.5	22.5	24	88	84	29	22
3/4"	26.5	24	32	103	98	37	30
1"	30	26	41	122	113.5	49	36
1 1/4"	35	35	50	142	142	64	46



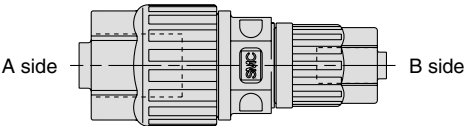
Class 7

Size combination (Metric)

Size		A side	B side
		Applicable tubing size (mm)	Applicable tubing size (mm)
1		4 x 3	3 x 2
2		6 x 4	4 x 3
			3 x 2
3		10 x 8	8 x 6
			6 x 4
		8 x 6	6 x 4
			4 x 3
4		12 x 10	10 x 8
			8 x 6
5		19 x 16	12 x 10
			10 x 8
6		25 x 22	19 x 16
			12 x 10

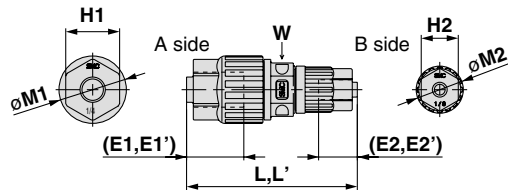
Size combination (Inch)

Size		A side	B side
		Applicable tubing size (inch)	Applicable tubing size (inch)
2		1/4" x 5/32"	1/8" x 0.086"
3		3/8" x 1/4"	1/4" x 5/32"
			1/8" x 0.086"
4		1/2" x 3/8"	3/8" x 1/4"
			1/4" x 5/32"
5		3/4" x 5/8"	1/2" x 3/8"
			3/8" x 1/4"
			1/4" x 5/32"
6		1" x 7/8"	3/4" x 5/8"
			1/2" x 3/8"
7		1 1/4" x 1.1"	1" x 7/8"

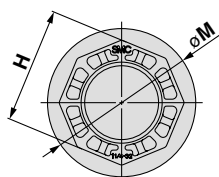


Dimensions

Union reducing:



(E1, E1', E2, E2'): Reference dimension for the inserted tubing from the end surface of the nut
 (E1', E2'), L': Nut material PVDF dimensions



Class 7

Metric Size

A side Applicable tubing O.D.	B side Applicable tubing O.D.	E1	E1'	E2	E2'	H1	H2	L	L'	M1	M2	W
ø4	ø3	10	9	10	9	11	11	46.5	44.5	14	14	10
ø6	ø4	17	16	10	9	16	11	51	48.5	20	14	14
ø10	ø8	22.5	19.5	22.5	19.5	21	21	79	73	25	25	18
ø8	ø6	22.5	19.5	17	16	21	16	66.5	62	25	20	18
ø12	ø10	24	22	22.5	19.5	24	21	82.5	77	29	25	22
ø19	ø12	26.5	24	24	22	32	24	95.5	91	37	29	30
ø25	ø19	30	26	26.5	24	41	32	112.5	105.5	49	37	36
	ø12			24	22		24	106.5	100		29	

Inch Size

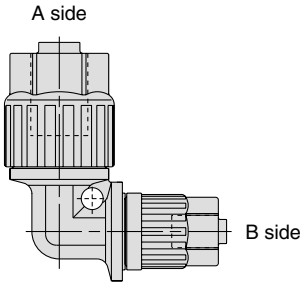
A side Applicable tubing O.D.	B side Applicable tubing O.D.	E1	E1'	E2	E2'	H1	H2	L	L'	M1	M2	W
1/4"	1/8"	17	16	10	9	16	11	51	48.5	20	14	14
3/8"	1/4"	22.5	19.5	17	16	21	16	66.5	62	25	20	18
	1/8"			10	9		11	62	58		14	
1/2"	3/8"	24.5	22.5	22.5	19.5	24	21	82.5	77	29	25	22
	1/4"			17	16		16	72.5	69		20	
3/4"	1/2"	26.5	24	24.5	22.5	32	24	95.5	91	37	29	30
	3/8"			22.5	19.5		21	91	85.5		25	
	1/4"			17	16		16	81	77		20	
1"	3/4"	30	26	26.5	24	41	32	112.5	105.5	49	37	36
	1/2"			24.5	22.5		24	106.5	100		29	
1 1/4"	1"	35	35	30	26	50	41	132.5	128.2	64	49	46

Size combination (Metric)

Size		A side	B side
		Applicable tubing size (mm)	Applicable tubing size (mm)
1		4 x 3	3 x 2
2		6 x 4	4 x 3
			3 x 2
3		10 x 8	8 x 6
			6 x 4
		8 x 6	6 x 4
			4 x 3
4		12 x 10	10 x 8
			8 x 6
5		19 x 16	12 x 10
			10 x 8
6		25 x 22	19 x 16
			12 x 10

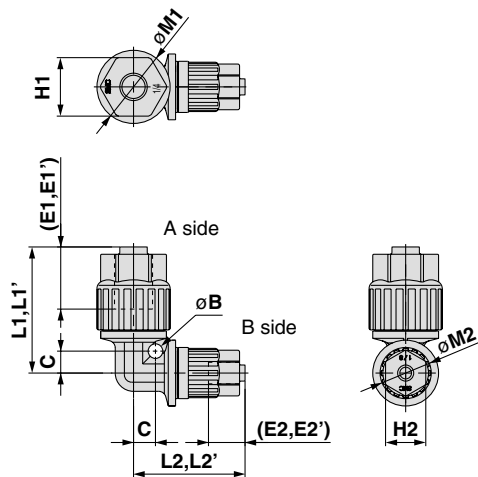
Size combination (Inch)

Size		A side	B side
		Applicable tubing size (inch)	Applicable tubing size (inch)
2		1/4" x 5/32"	1/8" x 0.086"
3		3/8" x 1/4"	1/4" x 5/32"
			1/8" x 0.086"
4		1/2" x 3/8"	3/8" x 1/4"
			1/4" x 5/32"
5		3/4" x 5/8"	1/2" x 3/8"
			3/8" x 1/4"
	1/4" x 5/32"		
6	1" x 7/8"	3/4" x 5/8"	
		1/2" x 3/8"	



Dimensions

Union elbow reducing:



(E1, E1', E2, E2'): Reference dimension for the inserted tubing from the end surface of the nut
 (E1', E2'), L1', L2': Nut material PVDF dimensions

Metric Size

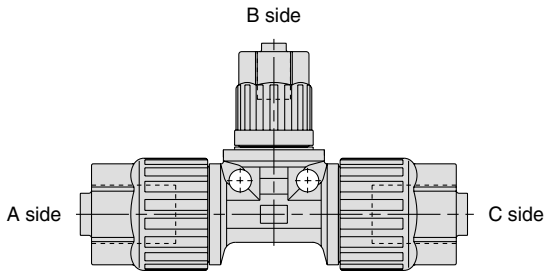
A side Applicable tubing O.D.	B side Applicable tubing O.D.	B	C	E1	E1'	E2	E2'	H1	H2	L1	L1'	L2	L2'	M1	M2
ø4	ø3	3.5	4.8	10	9	10	9	11	11	28.5	27.5	28.5	27.5	14	14
ø6	ø4	4	6	17	16	10	9	16	11	34.5	33.5	30.5	29.5	20	14
	ø3														
ø10	ø8	5	9	22.5	19.5	22.5	19.5	21	21	47.5	44.5	47.5	44.5	25	25
	ø6					17	16		16			38	37		20
ø8	ø6	5	9	22.5	19.5	17	16	21	16	47.5	44.5	38	37	25	20
	ø4					10	9		11			33.5	32.5		14
ø12	ø10	6	10	24	22	22.5	19.5	24	21	52.5	50.5	48.5	45.5	29	25
	ø8														
ø19	ø12	7	14	26.5	24	24	22	32	24	64	61.5	58.5	56.5	37	29
	ø10					22.5	19.5		21			61.5	53.5	50.5	25
ø25	ø19	8	18	30	26	26.5	24	41	32	78	74	70	67.5	49	37
	ø12					24	22		24			74	64.5	62.5	29

Inch Size

A side Applicable tubing O.D.	B side Applicable tubing O.D.	B	C	E1	E1'	E2	E2'	H1	H2	L1	L1'	L2	L2'	M1	M2
1/4"	1/8"	4	6	17	16	10	9	16	11	34.5	33.5	30.5	29.5	20	14
3/8"	1/4"	5	9	22.5	19.5	17	16	21	16	47.5	44.5	38	37	25	20
	1/8"					10	9		11			33.5	32.5		14
1/2"	3/8"	6	10	24.5	22.5	22.5	19.5	24	21	52.5	50.5	48.5	45.5	29	25
	1/4"					17	16		16			39	38		20
3/4"	1/2"	7	14	26.5	24	24.5	22.5	32	24	64	61.5	58.5	56.5	37	29
	3/8"					22.5	19.5		21			53.5	50.5		25
	1/4"					17	16		16			43.5	42.5		20
1"	3/4"	8	18	30	26	26.5	24	41	32	78	74	70	67.5	49	37
	1/2"					24.5	22.5		24			64.5	62.5		29

Size combination (Metric)

Size	Model	A side (Left)	B side (Center)	C side (Right)
		Applicable tubing size (mm)	Applicable tubing size (mm)	Applicable tubing size (mm)
1		4 x 3	3 x 2	4 x 3
2			6 x 4	4 x 3
		4 x 3		6 x 4
		3 x 2		6 x 4
		6 x 4		4 x 3
		6 x 4		3 x 2
3		10 x 8	8 x 6	10 x 8
			6 x 4	10 x 8
			10 x 8	8 x 6
			10 x 8	6 x 4
		8 x 6	6 x 4	8 x 6
			8 x 6	6 x 4
4		12 x 10	10 x 8	12 x 10
			12 x 10	10 x 8
5		19 x 16	12 x 10	19 x 16
			19 x 16	12 x 10
6		25 x 22	19 x 16	25 x 22
	25 x 22		19 x 16	

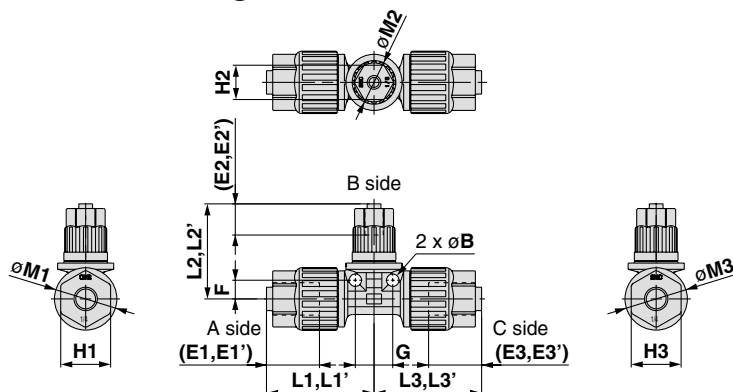


Size combination (Inch)

Size	Model	A side (Left)	B side (Center)	C side (Right)
		Applicable tubing size (inch)	Applicable tubing size (inch)	Applicable tubing size (inch)
2		1/4" x 5/32"	1/8" x 0.086"	1/4" x 5/32"
3			3/8" x 1/4"	1/4" x 5/32"
		1/4" x 5/32"		3/8" x 1/4"
		1/8" x 0.086"		3/8" x 1/4"
		3/8" x 1/4"		1/4" x 5/32"
4	1/2" x 3/8"	1/4" x 5/32"	1/4" x 5/32"	
		3/8" x 1/4"	1/2" x 3/8"	
		1/2" x 3/8"	3/8" x 1/4"	
		1/2" x 3/8"	1/4" x 5/32"	
		3/8" x 1/4"	3/8" x 1/4"	
	5	3/4" x 5/8"	1/4" x 5/32"	1/4" x 5/32"
			1/2" x 3/8"	3/8" x 1/4"
			1/2" x 3/8"	3/8" x 1/4"
			3/8" x 1/4"	3/4" x 5/8"
			3/8" x 1/4"	3/4" x 5/8"
6	1" x 7/8"	3/4" x 5/8"	1/2" x 3/8"	
		3/4" x 5/8"	3/8" x 1/4"	
		1/2" x 3/8"	3/8" x 1/4"	
		1/2" x 3/8"	1" x 7/8"	
		1/4" x 5/32"	1" x 7/8"	
	3/4" x 5/8"	1" x 7/8"	3/4" x 5/8"	
		1" x 7/8"	1/2" x 3/8"	
		3/4" x 5/8"	3/4" x 5/8"	
		1" x 7/8"	3/4" x 5/8"	
		1/2" x 3/8"	1" x 7/8"	

Dimensions

Union tee reducing:



(E1,E1',E2,E2',E3,E3'): Reference dimension for the inserted tubing from the end surface of the nut

(E1',E2',E3'),L1',L2',L3': Nut material PVDF dimensions

Metric Size

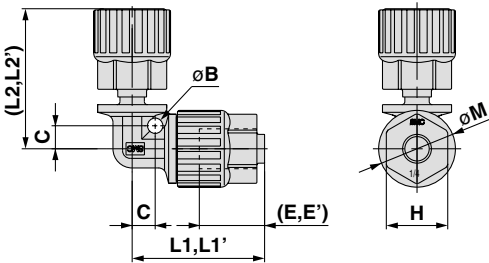
A side (Left) Applicable tubing O.D.	B side (Center) Applicable tubing O.D.	C side (Right) Applicable tubing O.D.	B	E1	E1'	E2	E2'	E3	E3'	F	G	H1	H2	H3	L1	L1'	L2	L2'	L3	L3'	M1	M2	M3
ø4	ø3 ø4	ø4 ø3	3.5	10	9	10	9	10	9	4.8	9.5	11	11	11	28.5	27.5	28.5	27.5	28.5	27.5	14	14	14
ø6	ø4	ø6	4	17	16	10	9	17	16	6	12	16	11	16	34.5	33.5	30.5	29.5	34.5	33.5	20	14	20
	ø3	ø6				17	16	10	9				16	11			34.5	33.5	30.5	29.5		20	14
	ø6	ø3				17	16	10	9				16	11			34.5	33.5	30.5	29.5		20	14
ø10	ø8	ø10	5	22.5	19.5	22.5	19.5	22.5	19.5	9	18	21	21	21	47.5	44.5	47.5	44.5	47.5	44.5	25	25	25
	ø6	ø10				17	16	22.5	19.5				16	21			38	37	47.5	44.5		20	25
	ø10	ø6				22.5	19.5	17	16				21	16			47.5	44.5	38	37		25	20
ø8	ø6	ø8	5	22.5	19.5	17	16	22.5	19.5	9	18	21	16	21	47.5	44.5	38	37	47.5	44.5	25	20	25
	ø8	ø6				22.5	19.5	17	16				21	16			47.5	44.5	38	37		25	20
	ø6	ø8				17	16	22.5	19.5				16	21			47.5	44.5	38	37		25	20
ø12	ø10	ø12	6	24	22	22.5	19.5	24	22	10	20	24	21	24	52.5	50.5	48.5	45.5	52.5	50.5	29	25	29
	ø12	ø10				24	22	22.5	19.5				24	21			52.5	50.5	48.5	45.5		29	25
	ø10	ø12				22.5	19.5	24	22				21	24			48.5	45.5	52.5	50.5		25	29
ø19	ø12	ø19	7	26.5	24	24	22	26.5	24	14	28	32	24	32	64	61.5	58.5	56.5	64	61.5	37	29	37
	ø19	ø12				26.5	24	24	22				32	24			64	61.5	58.5	56.5		37	29
	ø12	ø19				24	22	26.5	24				24	32			58.5	56.5	64	61.5		29	37
ø25	ø19	ø25	8	30	26	26.5	24	30	26	18	36	41	32	41	78	74	70	67.5	78	74	49	37	49
	ø25	ø19				30	26	26.5	24				41	32			78	74	70	67.5		49	37
	ø19	ø25				26.5	24	30	26				32	41			70	67.5	78	74		37	49

Inch Size

A side (Left) Applicable tubing O.D.	B side (Center) Applicable tubing O.D.	C side (Right) Applicable tubing O.D.	B	E1	E1'	E2	E2'	E3	E3'	F	G	H1	H2	H3	L1	L1'	L2	L2'	L3	L3'	M1	M2	M3
1/4"	1/8" 1/4"	1/4" 1/8"	4	17	16	10	9	17	16	6	12	16	11	16	34.5	33.5	30.5	29.5	34.5	33.5	20	14	20
3/8"	1/4"	3/8"	5	22.5	19.5	17	16	22.5	19.5	9	18	21	16	21	47.5	44.5	38	37	47.5	44.5	25	20	25
	1/8"	3/8"				10	9	22.5	19.5				11	21			33.5	32.5	47.5	44.5		14	25
	3/8"	1/4"				22.5	19.5	17	16				21	16			47.5	44.5	38	37		25	20
1/4"	3/8" 1/2"	1/4" 1/2"	6	24.5	22.5	17	16	24.5	22.5	10	20	24	16	24	52.5	50.5	48.5	45.5	52.5	50.5	29	25	29
1/2"	1/2"	3/8"				24.5	22.5	22.5	19.5				21	21			48.5	45.5	52.5	50.5		20	25
	1/2"	1/4"				22.5	19.5	17	16				16	24			48.5	45.5	48.5	45.5		25	25
3/8"	1/2" 3/4"	3/8" 3/4"	7	26.5	24	24.5	22.5	26.5	24	14	28	32	24	32	64	61.5	58.5	56.5	64	61.5	37	29	37
3/4"	3/8"	3/4"				22.5	19.5	26.5	24				21	32			54.5	51.5	64	61.5		25	37
	1/4"	3/4"				17	16	24.5	22.5				16	32			44.5	43.5	58.5	56.5		20	37
1/2"	3/4" 1"	1/2" 1"	8	30	26	24.5	22.5	30	26	18	36	41	24	41	78	74	58.5	56.5	78	74	49	37	49
3/8"	3/4"	3/8"				22.5	19.5	26.5	24				21	41			64	61.5	78	74		25	49
3/4"	1/2" 1"	1/4" 1"				26.5	24	30	26				32	41			70	67.5	84	81.5		37	49
1"	3/4" 1"	1" 1"	8	30	26	26.5	24	30	26	18	36	41	32	41	78	74	70	67.5	84	81.5	49	37	49
3/4"	1"	3/4"				26.5	24	30	26				32	41			70	67.5	84	81.5		37	49
1/2"	1"	1/2"				24.5	22.5	30	26				24	41			64	61.5	84	81.5		29	49
1"	1" 1 1/4"	3/8" 1/4"	8	30	26	26.5	24	30	26	18	36	41	32	41	78	74	70	67.5	84	81.5	49	37	49
3/4"	1"	1/4"				26.5	24	30	26				32	41			70	67.5	84	81.5		37	49
1"	1"	1/4"				26.5	24	30	26				32	41			70	67.5	84	81.5		37	49

Dimensions

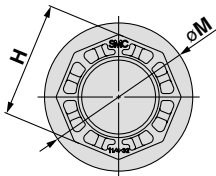
Space saving union elbow:



Metric Size

Applicable tubing O.D.	B	C	E	E'	H	L1	L1'	L2	L2'	M
ø6	4	6	17	16	16	34.5	33.5	39.5	38.5	20
ø10	5	9	22.5	19.5	21	47.5	44.5	52.5	49.5	25
ø8								49.5	46.5	
ø12	6	10	24	22	24	52.5	50.5	54.5	52.5	29
ø19	7	14	26.5	24	32	64	61.5	66	63.5	37
ø25	8	18	30	26	41	78	74	80	76	49

(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L1',L2': Nut material PVDF dimensions



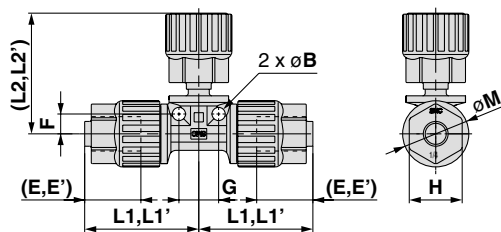
Class 7

Inch Size

Applicable tubing O.D.	B	C	E	E'	H	L1	L1'	L2	L2'	M
1/4"	4	6	17	16	16	34.5	33.5	39.5	38.5	20
3/8"	5	9	22.5	19.5	21	47.5	44.5	49.5	46.5	25
1/2"	6	10	24.5	22.5	24	52.5	50.5	54.5	52.5	29
3/4"	7	14	26.5	24	32	64	61.5	66	63.5	37
1"	8	18	30	26	41	78	74	80	76	49
1 1/4"	9	22	35	35	50	92.5	92.5	97.5	97.5	64

Dimensions

Space saving branch tee:



(E, E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'), L1', L2': Nut material PVDF dimensions

Metric Size

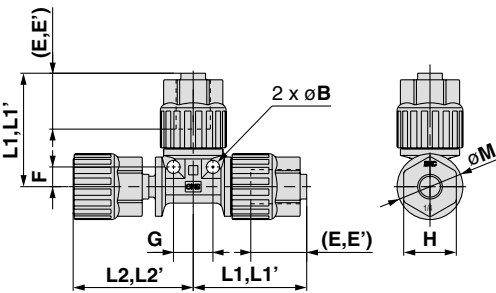
Applicable tubing O.D.	B	E	E'	F	G	H	L1	L1'	L2	L2'	M
ø6	4	17	16	6	12	16	34.5	33.5	39.5	38.5	20
ø10	5	22.5	19.5	9	18	21	47.5	44.5	52.5	49.5	25
ø8									49.5	46.5	
ø12	6	24	22	10	20	24	52.5	50.5	54.5	52.5	29
ø19	7	26.5	24	14	28	32	64	61.5	66	63.5	37
ø25	8	30	26	18	36	41	78	74	80	76	49

Inch Size

Applicable tubing O.D.	B	E	E'	F	G	H	L1	L1'	L2	L2'	M
1/4"	4	17	16	6	12	16	34.5	33.5	39.5	38.5	20
3/8"	5	22.5	19.5	9	18	21	47.5	44.5	49.5	46.5	25
1/2"	6	24.5	22.5	10	20	24	52.5	50.5	54.5	52.5	29
3/4"	7	26.5	24	14	28	32	64	61.5	66	63.5	37
1"	8	30	26	18	36	41	78	74	80	76	49

Dimensions

Space saving run tee:



Metric Size

Applicable tubing O.D.	B	E	E'	F	G	H	L1	L1'	L2	L2'	M
ø6	4	17	16	6	12	16	34.5	33.5	39.5	38.5	20
ø10	5	22.5	19.5	9	18	21	47.5	44.5	52.5	49.5	25
ø8									49.5	46.5	
ø12	6	24	22	10	20	24	52.5	50.5	54.5	52.5	29
ø19	7	26.5	24	14	28	32	64	61.5	66	63.5	37
ø25	8	30	26	18	36	41	78	74	80	76	49

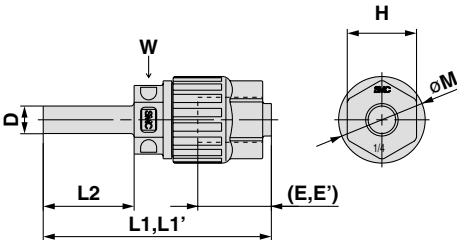
(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L1',L2': Nut material PVDF dimensions

Inch Size

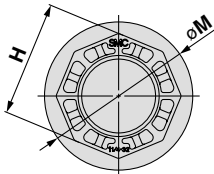
Applicable tubing O.D.	B	E	E'	F	G	H	L1	L1'	L2	L2'	M
1/4"	4	17	16	6	12	16	34.5	33.5	39.5	38.5	20
3/8"	5	22.5	19.5	9	18	21	47.5	44.5	49.5	46.5	25
1/2"	6	24.5	22.5	10	20	24	52.5	50.5	54.5	52.5	29
3/4"	7	26.5	24	14	28	32	64	61.5	66	63.5	37
1"	8	30	26	18	36	41	78	74	80	76	49

Dimensions

Tube extension straight connector:



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L': Nut material PVDF dimensions
W: Width across flats dimension



Class 7

Metric Size

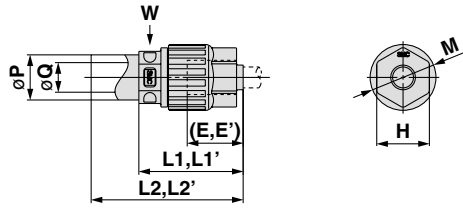
Applicable tubing O.D.	D	E	E'	H	L1	L1'	L2	M	W
ø6	ø6	17	16	16	53	51.5	18	20	14
ø10	ø10	22.5	19.5	21	67.5	64.5	22.5	25	18
ø8	ø8								
ø12	ø12	24	22	24	74	72	24	29	22
ø19	ø19	26.5	24	32	83.5	81	26.5	37	30
ø25	ø25	30	26	41	97.5	93.5	31	49	36

Inch Size

Applicable tubing O.D.	D	E	E'	H	L1	L1'	L2	M	W
1/4"	1/4"	17	16	16	53	51.5	18	20	14
3/8"	3/8"	22.5	19.5	21	65.5	62.5	23.5	25	18
1/2"	1/2"	24.5	22.5	24	72	70	25	29	22
3/4"	3/4"	26.5	24	32	83.5	81	26.5	37	30
1"	1"	30	26	41	97.5	93.5	31	49	36
1 1/4"	1 1/4"	35	35	50	120.5	120.5	41.5	64	46

Dimensions

Straight Adapter:



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L1',L2': Nut material PVDF dimensions
W: Width across flats dimension

Metric Size

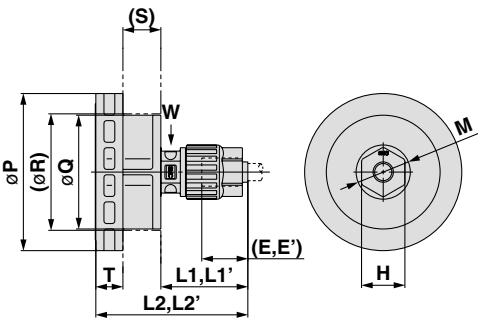
E	E'	H	L1	L1'	L2	L2'	M	P	Q	W
17	16	16	32	30.5	46	44.5	20	13.7	9	14
					58	56.5		21.3	15.4	
			32.5	31	70.5	69		26.7	20.5	
					74.5	73		33.4	26.3	
								60.3	52.5	
22.5	19.5	21	42	39	56	53	25	13.7	9	18
			40		54	65		21.3	15.4	
			42		68			26.7	20.5	
			40		66			79	33.4	
			42		68					
			44	82						
			42	41	80					
			24	22	24	47		45	80	
							26.7	20.5		
							33.4	26.3		
49	47	88				86	60.3	52.5		
26.5	24	32	57	54.5	95	92.5	37	21.3	15.4	30
								26.7	20.5	
								33.4	26.3	
30	26	41	66.5	62.5	104.5	100.5	49	26.7	20.5	36
								33.4	26.3	
			68.5	64.5	107.5	103.5		60.3	52.5	

Inch Size

E	E'	H	L1	L1'	L2	L2'	M	P	Q	W
17	16	16	32	30.5	46	44.5	20	13.7	9	14
					58	56.5		21.3	15.4	
			32.5	31	70.5	69		26.7	20.5	
					74.5	73		33.4	26.3	
								60.3	52.5	
22.5	19.5	21	40	39	56	53	25	13.7	9	18
					66	65		21.3	15.4	
								26.7	20.5	
24.5	22.5	24	47	45	80	78	29	21.3	15.4	22
								26.7	20.5	
								33.4	26.3	
			49	47	88	86		60.3	52.5	
26.5	24	32	57	54.5	95	92.5	37	21.3	15.4	30
								26.7	20.5	
								33.4	26.3	
30	26	41	66.5	62.5	104.5	100.5	49	26.7	20.5	36
								33.4	26.3	
			68.5	64.5	107.5	103.5		60.3	52.5	
35	35	50	79	79	117	117	64	33.4	26.3	46

Dimensions

Union Flange:



Metric Size

E	E'	H	L1	L1'	L2	L2'	M	P	Q	R	S	T	W
17	16	16	32.1	30.9	56.1	54.9	20	58	42	43	14	10	14
24	22	24	49	46.8	73	70.8	29	58 69	42	43	14	10	22
26.5	24	32	58	55.3	80 82	77.3 79.3	37	53 58 69	42	43	12 14	10	30
30	26	41	68.5	64.2	92.5 94.5	88.2 90.2	49	58 69 84	47 55	48 56	16	10	36

(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'),L1',L2': Nut material PVDF dimensions
W: Width across flats dimension
(R): I.D. of JIS flange necessary to mount this product. (Additional modification is needed.)
JIS flange is not included in the product.

Inch Size

E	E'	H	L1	L1'	L2	L2'	M	P	Q	R	S	T	W
17	16	16	32.1	30.9	56.1	54.9	20	58	42	43	14	10	14
24.5	22.5	24	49	46.8	73	70.8	29	58 69	42	43	14	10	22
26.5	24	32	58	55.3	80 82	77.3 79.3	37	53 58 69	42	43	12 14	10	30
30	26	41	68.5	64.2	92.5 94.5	88.2 90.2	49	58 69 84	47 55	48 56	16	10	36

Options

Blanking plug

1 **P** **03** - **1** - 

Size

Symbol	Size
1	1
2	2
3	3
4	4
5	5
6	6
7	7

Fitting type

Symbol	Type
P	Plug

Thread type

Symbol	Type
1	Male

Packaging

Symbol	Packaging
Nil	Clean packaging equivalent to Class M3.5
1	Standard packaging equivalent to Class M5.5

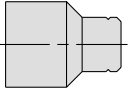
Applicable tubing size

Metric Size

Symbol	Applicable tubing size	Size
03	ø3 x ø2	1
04	ø4 x ø3	
06	ø6 x ø4	2
08	ø8 x ø6	
10	ø10 x ø8	3
12	ø12 x ø10	
19	ø19 x ø16	5
25	ø25 x ø22	6

Inch Size

Symbol	Applicable tubing size	Size
03	1/8" x 0.086"	1
07	1/4" x 5/32"	2
11	3/8" x 1/4"	3
13	1/2" x 3/8"	4
19	3/4" x 5/8"	5
25	1" x 7/8"	6
32	1 1/4" x 1.1"	7



Used to block fittings which are not being used.

Tubing plug

1 **P** **03** - **2** - 

Size

Symbol	Size
1	1
2	2
3	3
4	4
5	5
6	6

Fitting type

Symbol	Type
P	Plug

Type of piping

Symbol	Type
2	Tubing

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to Class M3.5
1	PFA	Standard packaging equivalent to Class M5.5
2	PVDF	Clean packaging equivalent to Class M3.5
3	PVDF	Standard packaging equivalent to Class M5.5

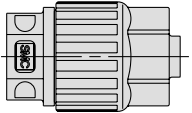
Applicable tubing size

Metric Size

Symbol	Applicable tubing size	Size
03	ø3 x ø2	1
04	ø4 x ø3	
06	ø6 x ø4	2
08	ø8 x ø6	
10	ø10 x ø8	3
12	ø12 x ø10	
19	ø19 x ø16	5
25	ø25 x ø22	6

Inch Size

Symbol	Applicable tubing size	Size
03	1/8" x 0.086"	1
07	1/4" x 5/32"	2
11	3/8" x 1/4"	3
13	1/2" x 3/8"	4
19	3/4" x 5/8"	5
25	1" x 7/8"	6



Used to block fittings which are not being used.

Nut

1 **N** **03** - 

Size

Symbol	Size
1	1
2	2
3	3
4	4
5	5
6	6
7	7

Fitting type

Symbol	Type
N	Nut

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to Class M3.5
1	PFA	Standard packaging equivalent to Class M5.5
2	PVDF	Clean packaging equivalent to Class M3.5
3	PVDF	Standard packaging equivalent to Class M5.5

Applicable tubing size

Metric Size

Symbol	Applicable tubing size	Size
03	ø3 x ø2	1
04	ø4 x ø3	
06	ø6 x ø4	2
08	ø8 x ø6	
10	ø10 x ø8	3
12	ø12 x ø10	
19	ø19 x ø16	5
25	ø25 x ø22	6

Inch Size

Symbol	Applicable tubing size	Size
03	1/8" x 0.086"	1
07	1/4" x 5/32"	2
11	3/8" x 1/4"	3
13	1/2" x 3/8"	4
19	3/4" x 5/8"	5
25	1" x 7/8"	6
32	1 1/4" x 1.1"	7

