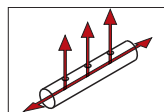


# Pipe Manifolds

Tapped / Threaded / Tapped and Threaded Sockets



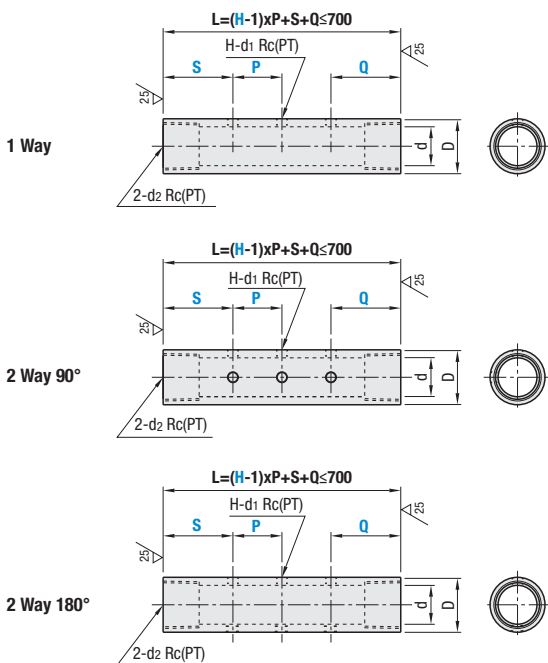
## Pipe Manifolds



Hole Direction	Type			Material	Surface Treatment
	Both Ends Tapped	One End Threaded One End Tapped	Both Ends Threaded		
1 Way	PMF	PMMF	—	A Pipe Steel	Trivalent Chromate
	PMFS	PMMFS	—	304 Stainless Steel	—
2 Way 90°	PMFL	—	PMML	A Pipe Steel	Trivalent Chromate
	PMFSL	PMMFSL	PMMSL	304 Stainless Steel	—
2 Way 180°	PMFT	—	—	A Pipe Steel	Trivalent Chromate
	PMFST	—	—	304 Stainless Steel	—

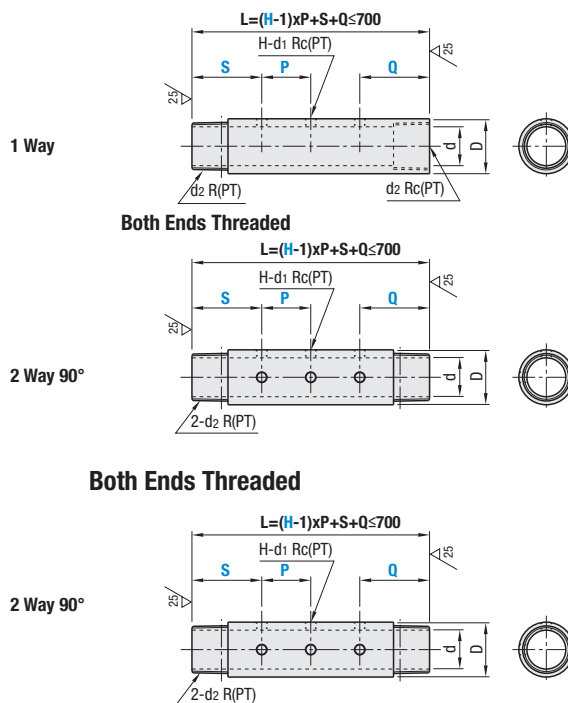
Threads JIS B0203 (PT)  
 Max. Operating Pressure (No. 1, 1S, 2) 20.6 MPa = 210 kgf/cm<sup>2</sup> or Less  
 (No. 5) 0.7 MPa = 7 kgf/cm<sup>2</sup> or Less

### Both Ends Tapped



d, Rc (PT) end face of thread is chamfered.

### One End Threaded, One End Tapped

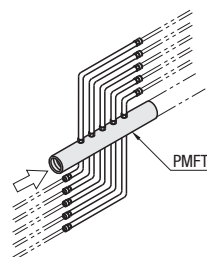


Part Number		No. of Side Tapped Holes H	Pitch P 1 mm Increment	S / Q 1 mm Increment	d <sub>1</sub> Rc (PT)	d <sub>2</sub> R / Rc (PT)	D	d
Type	No.							
Both Ends Tapped	One End Threaded – One End Tapped	1	30-50	35-80	1/8	1 1/4	48.6	34.4
						1S	1/2	27.2
2 Way 90° Type	2 Way 90° Type	2	30-50	35-80	1/4	1 1/4	48.6	34.4
2 Way 180°	2 Way 180°	5			M5	1/2	27.2	16.2

\*When H (the number of side tapped holes) is 1, Pitch P specification is not required. 2 Way Type (90° & 180°), number of side tapped holes is H x 2.

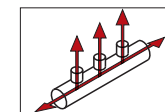
Part Number Example	Part Number	H (Number of Holes)	P	S	Q
PMFS1	—	1	—	S40	Q50
PMML1	—	12	P30	S35	Q35
PMMF2	—	5	P40	S35	Q40

### Application Example



# Pipe Manifolds

Tapped / Threaded Sockets



## Pipe Manifolds – Selectable Socket



RoHS 10

Type	Material		Surface Treatment
	Tapped Socket	Threaded Socket	
Both Ends Threaded	SGFF	—	Trivalent Chromate
	SGFM	—	Electroless Nickel Plating
	SUFF	SUFFA	—
Both Ends Tapped	SGFMF	SGFMFA	Trivalent Chromate
	SUFMF	—	—

Welding may cause small deformations that accumulate when the products are used in connected stacks.  
 \*Drawing is for when 5-Circuit type is selected. Thread JISB0203R R(PT) (Max. Operating Pressure: 0.7 MPa = 7 kgf/cm<sup>2</sup> or Less)

Select A - E according to the number of holes (H). Specify from A to B when H=2, up to C when H=3, up to D when H=4 and up to E when H=5.

V <sub>1</sub> / T <sub>1</sub> Dimensions			
d <sub>1</sub> Rc (PT)	V <sub>1</sub>	W <sub>1</sub>	T <sub>1</sub>
5 (M5)	10	13.4	D/2+W <sub>1</sub> -(L-H)
1 (1/8)	15	17	
2 (1/4)	20	22	
3 (3/8)	25	24	
4 (1/2)	30	28	
6 (3/8)	35	31	

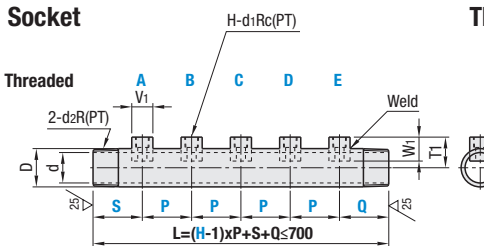
  

V <sub>2</sub> / T <sub>2</sub> Dimensions			
d <sub>2</sub> R (PT)	V <sub>2</sub>	W <sub>2</sub>	T <sub>2</sub>
5 (M5)	6	7.5	D/2+W <sub>2</sub> -A
1 (1/8)	10.5	10	
2 (1/4)	13.8	15	
3 (3/8)	17.3	17	
4 (1/2)	21.7	20	
6 (3/8)	27.2	23	

\*For socket themselves and socket L, H and A dimensions, see P.3314.

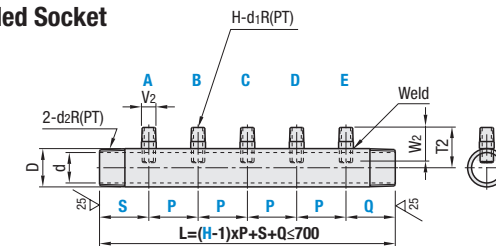
### Tapped Socket

#### Both Ends Threaded

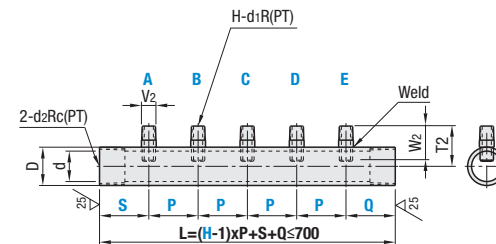
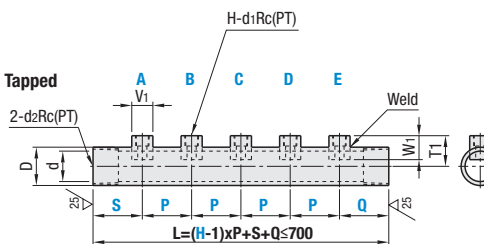


### Threaded Socket

#### Both Ends Threaded



#### Both Ends Tapped



Part Number	Type	No.	H (No. of Holes)	P / S / Q 1 mm Increment	Rc (PT) R (PT) M (Coarse Thread) Selection						d <sub>2</sub> R (PT)	D	d	
					A, B, C, D & E								Material: SGP	Material: Stainless Steel
Both Ends Threaded Type	Tapped Socket	15A	2	35-150	0 (No Hole)	5 (M5)	1 (1/8)				1/2	21.7	16.1	16.1
	Threaded Socket	20A		35-150	0 (No Hole)	5 (M5)	1 (1/8)	2 (1/4)			3/4	27.2	21.6	21.4
	SGFF	25A		40-150	0 (No Hole)	1 (1/8)	2 (1/4)	3 (3/8)			1	34	27.6	27.2
	SGFM	32A		50-150	0 (No Hole)	2 (1/4)	3 (3/8)	4 (1/2)			1-1/4	42.7	35.7	35.5
	SUFF	40A		60-150	0 (No Hole)	3 (3/8)	4 (1/2)	6 (3/4)			1-1/2	48.6	41.6	41.2
Both Ends Tapped Type	Tapped Socket	15A	2	35 (45)-150	0 (No Hole)	5 (M5)	1 (1/8)				1/2	21.7	16.1	16.1
	Threaded Socket	20A		35 (45)-150	0 (No Hole)	5 (M5)	1 (1/8)	2 (1/4)			3/4	27.2	21.6	21.4
	SGFMF	25A		40 (50)-150	0 (No Hole)	1 (1/8)	2 (1/4)	3 (3/8)			1	34	27.6	27.2
	SUFMF	32A		50 (60)-150	0 (No Hole)	2 (1/4)	3 (3/8)	4 (1/2)			1-1/4	42.7	35.7	35.5
		40A		60 (70)-150	0 (No Hole)	3 (3/8)	4 (1/2)	6 (3/4)			1-1/2	48.6	41.6	41.2

- Specify P, S and Q within the range of L = (H-1) x P + S + Q ≤ 700.
- For Both Ends Tapped Type, minimum configurable values for S and Q are in ( ).
- For A to E, specify 0, 1, 2, 3, 4, 5 or 6 indicated before ( ). When selecting 0, pitch remains unchanged and the distance between sockets is 2 x P.
- All sockets of Tapped Socket Type are female threaded, and all sockets of Threaded Socket Type are male threaded.

Part Number Example	Part Number	H (Number of Holes)	P	S	Q	A	B	C	D	E
SUFFA25A	—	3	P50	S50	Q50	A3	B2	C2		
SGFMF25A	—	5	P50	S50	Q50	A3	B2	C3	D2	E3
SGFMF25A	—	4	P50	S50	Q50	A3	B2	C0	D2	

Select A - E according to the number of holes (H). Specify up to section B for H=2, to C for H=3, to D for H=4, and to E for H=5.

### Socket Pitch (P) Minimum Pitch Chart

Size	M5	1/8	1/4	3/8	1/2	3/4
M5	35	35	35	38	40	43
1/8	35	35	38	40	43	45
1/4	35	38	40	43	45	48
3/8	38	40	43	45	48	50
1/2	40	43	45	48	50	53
3/4	43	45	48	50	53	55

Specify a pitch larger than above values.