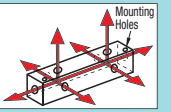


Manifold Blocks - Hydraulic, Pneumatic

High Pressure / Space Saving Type / Double-Row

Manifold Blocks - Hydraulic, Pneumatic

Selectable Thread Size



For details of recommended tapered male thread tightening torque and through pilot hole, see P1224.

For details of recommended tapered male thread tightening torque and through pilot hole, see P1224.

For this type of manifold, when the basic thread diameter is selected, all the hole diameters are unified to this selected value. After a certain hole position is individually specified in the range of J ~ Z, the diameter of the mating thread becomes selectable. By inserting "G-" before part number, "PT Threads (Tapered Female Threads)" can be changed to "PF Threads (Parallel Female Threads)" in compliance with "JIS B 0202" (Unit Price remains the same).

Hydraulic Manifold Blocks High Pressure

Type	Material	Surface Treatment	Max. Operating Pressure
BMAH	SS400	Trivalent Chromate	34.5MPa ≈350kgf/cm ² or less

Thread: JIS B0203 Rc(PT)
JIS B0202 G(PF): ISO 228-1 Compatible

• Mounting Hole Change
Counterbore Hole(ZA) Through Hole(NA)
Tapped Hole(T)
Counterbore Tapped Hole(ZT)

RoHS 10

Type	Mounting Hole Selection	Number of Circuits	Rc (PT) Selection		P	Number of Pitches N	Total Number of Q, R and S Threads	Unit Price
			Q, R, S	P				
BMAH	1	1	1 (1/8)	5	0	3		
	2	2	2 (1/4)	5	1	6		
	3	3	3 (3/8)	5	2	9		
	4	4	4 (1/2)	5	3	12		
	5	5	5	5	4	15		
	6	6	6	6	5	18		

Type	Mounting Hole	Number of Circuits	Q	R	S
BMAH	ZT	4	- Q2 - R2 - S2		
G-BMAH	ZT	4	- Q2 - R2 - S2(G Thread)		

By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-BMAH) For ordering, see the Ordering Example.
For Q, R and S, specify 1, 2, 3, or 4 indicated before ().
Only 6 Circuit Type has an additional mounting hole at the midpoint of the overall length.

Manifold Blocks - Pneumatic Space Saving Type

Type	Material	Surface Treatment	Max. Operating Pressure
SBMA	A6063	Clear Anodize	1MPa≈10kgf/cm ² or less
SBMAA	A6063	Clear Anodize	1MPa≈10kgf/cm ² or less

• Mounting Hole Change
Through Hole(NA) Tapped Hole(T)

RoHS 10

Type	Mounting Hole Selection	Number of Circuits	M (Coarse) Selection		P	Number of Pitches N	Total Number of S, G and K Threads	Unit Price	
			S, G, K	P				SBMA	SBMAA
SBMA	NA (Through Hole)	1	3 (M3)	15	0	3			
		2	3 (M3)	15	1	4			
		3	3 (M3)	15	2	5			
		4	3 (M3)	15	3	6			
		5	3 (M3)	15	4	7			
		6	3 (M3)	15	5	8			

For S, G and K, specify 3 or 5 indicated before ().
N indicates number of pitches.

For the purposes of improved standardization, the BMFRS block square A60 type will be discontinued after September 2022. After the standards are revised, the part number will be changed to BMFRS□-60N-□. (a and b dimensions will change from 10 mm to 8 mm.)

Manifold Blocks - Pneumatic Double-Row

Type	Material	Surface Treatment	Max. Operating Pressure
BTAW	A5052	Clear Anodize	1MPa≈10kgf/cm ² or less
BTAWA	A5052	Clear Anodize	1MPa≈10kgf/cm ² or less

2-Ø5.5 Through
Ø9.5 Counterbore, Depth 5.5

Thread: JIS B0203 Rc(PT) * Drawing for 3 Circuit Type is selected.

RoHS 10

Type	Number of Circuits	Rc (PT), M (Coarse) Selection		L	NxP	F	Number of Ports	Unit Price	
		Q	B					BTAW	BTAWA
BTAW	1	5 (M5)	5 (M5)	35	0	22	4		
	2	5 (M5)	5 (M5)	60	1x25	47	8		
	3	5 (M5)	5 (M5)	85	2x25	72	12		
	4	5 (M5)	5 (M5)	110	3x25	97	16		
	5	5 (M5)	5 (M5)	135	4x25	122	20		
	6	5 (M5)	5 (M5)	160	5x25	147	24		

Features:
Two-stage piping arrangement saves space in the horizontal direction.
For Q and B, specify 1, 2 or 5 indicated before ().
Only No. 6 has an additional M5 screw hole at the midpoint of the overall length.

Type	Material	Surface Treatment	Max. Operating Pressure
BMFRS	SS400	Trivalent Chromate	20.6MPa≈210kgf/cm ² or less
BMFRA	Aluminum Alloy	-	-
BMFRAA	Aluminum Alloy	Clear Anodize	1MPa≈10kgf/cm ² or less

Thread: JIS B0203 Rc (PT)
JIS B0202 G (PF): ISO 228-1 Compatible

RoHS 10

Part Number	Block Square	Basic Thread Diameter	Alternative Thread Size Selection Rc (PT), M (Coarse)							P	f	a	b	d	d1	h
			JK (0 only), CDEFGHUVWXYZ													
25	5 (M5)	1 (1/8)	0 (No Hole)	5 (M5)	1 (1/8)					20	16	8	5	4.5	8	4.5
30	1 (1/8)	2 (1/4)	0 (No Hole)	5 (M5)	1 (1/8)	2 (1/4)				25	15	5	5	4.5	8	4.5
35	1 (1/8)	2 (1/4)	0 (No Hole)	5 (M5)	1 (1/8)	2 (1/4)	3 (3/8)			30	20	6	5.5	9.5	5.5	
40	2 (1/4)	3 (3/8)	0 (No Hole)	5 (M5)	1 (1/8)	2 (1/4)	3 (3/8)	4 (1/2)		40	22	6.5	6.6	11	6.5	
50	2 (1/4)	3 (3/8)	4 (1/2)	0 (No Hole)	5 (M5)	1 (1/8)	2 (1/4)	3 (3/8)	4 (1/2)	50	30	8	8.5	14	8.5	
60	3 (3/8)	4 (1/2)	6 (3/4)	0 (No Hole)	5 (M5)	1 (1/8)	2 (1/4)	3 (3/8)	4 (1/2)	60	30	10	8.5	14	8.5	

By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-BMFRS) For ordering, see the Ordering Example.
A=25 is applicable to BMFRA and BMFRAA only, and A=60 to BMFRS only.
For thread diameter selection, specify 0, 5, 1, 2, 3, 4 or 6 indicated before ().

Ordering Example
Part Number - A - Basic Thread Diameter - J - K - C - D - E - F - G - H - U - V - W - X - Y - Z
BMFRS4 - 60 - 4 - - D2 - E2 - G2 - U0 - V3 - W3
G-BMFRS4 - 30 - 2 - - E1 - F1 - H1 - - X1 - Y1 - Z1 (G Thread)

How to Select Thread Size

[Step I] Select the most frequently used thread diameter as basic thread diameter.
[Ordering Example] Select 4 (1/2).

[Step II] Select the ports needed to change from the basic thread diameter and the desired thread size.
[Ordering Example] D2-E2-G2-U0-V3-W3

Diameter of J and K is not changeable. Specify J0-K0 when J and K are not necessary. (No through hole for them. Value selection of "0 (zero)" for either J or K is not acceptable.)

(Ex.)
○ BMFRS4-60-4-J0-K0-D2
○ BMFRS4-60-4 -D2
○ BMFRS4-60-4-J0 -D2
× BMFRS4-60-4 -K0-D2

Alterations

Alterations	Code	Spec.
P Dimension Change	PC	Changes the P dimension in 1mm increment. (Ex.) PC38-PCW30
PC PCW	PCW	For BMFRS, the operating pressure falls below the standard pressure value: 1MPa≈10kgf/cm ² when the pitch is made shorter than default value.
PC PCW PCT	PCT	L dimension changes as much as the changes in P dimension.

Type	Number of Circuits	Block Square A				Unit Price
		25	30	35	40	
BMFRS	2	-	-	-	-	-
	3	-	-	-	-	-
	4	-	-	-	-	-
BMFRA	2	-	-	-	-	-
	3	-	-	-	-	-
BMFRAA	2	-	-	-	-	-
	3	-	-	-	-	-