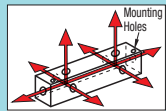


Manifold Blocks - Hydraulic, Pneumatic

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.

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)

4-Hole Selection

RoHS 10

Mounting hole shape can be selected freely.

Part Number	Rc (PT) Selection	P	Number of Pitches	Total Number of Q, R and S Threads	Unit Price
Type	Mounting Hole Selection	Number of Circuits	Q, R, S		
BMAH	ZA (Counterbore)	1	50	0	3
	NA (Through Hole)	2		1	6
	T (Tapped)	3		2	9
	ZT (Counterbore Tapped)	4		3	12
		5		4	15
		6		5	18

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.

Part Number	Q	R	S
BMAH	ZT	4	- Q2 - R2 - S2
G-BMAH	ZT	4	- Q2 - R2 - S2(G Thread)

Manifold Blocks - Pneumatic
Space Saving Type

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

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

2-Hole Selection

RoHS 10

Mounting hole shape can be selected freely.
* Drawing for 6 Circuit Type is selected.

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

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

Part Number	S	G	K
SBMAA	T	4	- S3 - G3 - K3

Manifold Blocks - Pneumatic
Double-Row

Type	Material	Surface Treatment	Max. Operating Pressure
BTAW 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

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

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).

Manifold Blocks - Hydraulic, Pneumatic
Selectable Thread Size

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

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

RoHS 10

2-d Through
d1 Counterbore Depth h

2-d Through
d1 Counterbore Depth h

2-d Through
d1 Counterbore Depth h

Part Number	Block Square A	Basic Thread Diameter Rc (PT), M (Coarse)	Alternative Thread Size Selection Rc (PT), M (Coarse)	P	f	a	b	d	d1	h	
Type	Number of Circuits		JK (0 only), CDEFGHUVWXYZ								
BMFRS BMFRA BMFRAA	2	25	5 (M5) 1 (1/8)	0 (No Hole) 5 (M5) 1 (1/8)	20	16	8	5	4.5	8	4.5
	3	30	1 (1/8) 2 (1/4)	0 (No Hole) 5 (M5) 1 (1/8) 2 (1/4)	25	15	5	4.5	8	4.5	
	4	35	1 (1/8) 2 (1/4)	0 (No Hole) 5 (M5) 1 (1/8) 2 (1/4) 3 (3/8) *Combination of 3 and 3 is not available at right angles.	30	20	6	5.5	9.5	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) *Combination of 4 and 4 is not available at right angles.	40	22	6.5	6.6	11	6.5	
	6	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) 6 (3/4) *Combination of 6 and 6 is not available at right angles.	50	30	8	8.5	14	8.5	
	7	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) 6 (3/4)	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 - X1 - Y1 - Z1 (G Thread)

G-BMFRA4 - 30 - 2 - E1 - F1 - H1

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

Part Number	A	...	Z	(PC, PCW, PCT)
BMFRS4	60	...		PC40

Alterations	Code	Spec.
P Dimension Change	PC	Changes the P dimension in 1mm increment. (Ex.) PC38-PCW30
PC PCW PCT	PC	20≤PC, PCW, PCT≤50
	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.
	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	50	60
BMFRS	2	-					
	3	-					
	4	-					
BMFRA	2						
	3						
BMFRAA	2						
	3						
	4						