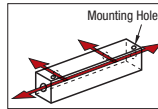


Manifold Blocks (Hydraulic)



Manifolds

Manifold Blocks – Hydraulic

Type		Pitch (P) Standard			Pitch (P) Configurable			Material	Surface Treatment	Normal Pressure
30 x 35 Sq	40 Sq	50 Sq	70 Sq	30 x 35 Sq	40 Sq	50 Sq				
BMRS	BMRF	BMRFL	BMRL	—	BMRFP	BMRFLP	General Structural Steel	Trivalent Chromate Electroless Nickel Plating	20.6 MPa = 210 kgf/cm ² or Less	
—	BMRFM	BMRFLM	BMRLM	—	—	BMRFLMP				
BMRSR	BMRFR	BMRFLR	—	BMRSRP	BMRFRP	BMRFLRP	304 Stainless Steel	—	1 MPa = 10 kgf/cm ² or Less	
—	BMRFC	—	—	—	—	—	Brass			

Standard Mounting Hole

Mounting Hole Dimension	d	D	h	D ₁	d ₁	h ₁
M5	5.5	9.5	5.5	8	*4.2	4.5
M6	6.6	11	6.5	9.5	5.1	5.5
M8	8.5	14	8.5	11	6.8	6.5

* Only 304 Stainless Steel d₁ dimension is 4.3.

Thread: JIS B0203 R (PT), JIS B0202 G (PF); ISO 228-1 Compatible; ANSI / ASME B.1.20.1-1983 (NPT)

Mounting Hole Options

Through Hole (NA)

Tapped Hole (T)

Counterbore Tapped Hole (ZT)

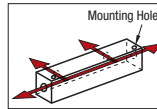
L Dimension Calculation
 Ex.: For BMRFP3-P35
 $L = N \times P + 2E = (\text{No. of Circuits } 3-1) \times 35 + 2 \times 35 = 140$

**Drawing is for when 3-Circuit type is selected. The total no. of R, G and K threads is 5 each.

⊕ Mounting holes can be selected.
 ⊕ Standard hole shape is selected when no hole shape modification is specified.

RoHS 10

Manifold Blocks (Pneumatic)



Manifolds

Manifold Blocks – Pneumatic

Type		Pitch (P) Standard			Pitch (P) Configurable			Material	Surface Treatment	Normal Pressure
15 Sq	25 Sq	30 x 40 Sq	50 Sq	25 Sq	30 x 40 Sq	50 Sq				
—	BMRAF	BMRAF	BMRAF	—	BMRAF	BMRAF	Aluminum Alloy	Clear Anodize	1 MPa = 10 kgf/cm ² or Less	
—	BMRAC	BMRAF	BMRAF	—	BMRAF	BMRAF				
—	BMRAS	BMRAF	BMRAF	—	BMRAF	BMRAF	Aluminum Alloy	Clear Anodize	1 MPa = 10 kgf/cm ² or Less	

⊕ Material of 15 Square is 6063 Aluminum Alloy.

Standard Mounting Hole

Mounting Hole Dimension	d	D	h	D ₁	d ₁	h ₁
M4	4.3	—	—	—	—	—
M5	5.5	9.5	5.5	8	4.2	4.5
M8	8.5	14	8.5	11	6.8	6.5

Thread: JIS B0203 R (PT), JIS B0202 G (PF); ISO 228-1 Compatible; ANSI / ASME B.1.20.1-1983 (NPT)

Mounting Hole Options

Through Hole (NA)

Tapped (T)

Counterbore Tapped (ZT)

L Dimension Calculation
 Ex.: In the Case of BMRAF3-P35
 $L = N \times P + 2E = (\text{No. of Ports } 3-1) \times 35 + 2 \times 20 = 110$

⊕ Mounting holes can be selected.
 ⊕ Standard hole shape is selected when no hole shape modification is specified.
 Note that the default of 15 Square and 25 Square is Through Hole.

⊕ Drawing is for when 3-Circuit type is selected. The total no. of R, G and K threads is 5 each.

RoHS 10

Part Number	Type	Mounting Hole Change	Rc (PT), NPT		Pitch P		No. of Pitches N	Total No. of R, G & K Threads	A	B	E	F	X	Y	Mounting Hole M
			R	G / K	Standard	Configurable 1 mm Inc.									
Pitch Standard BMRS BMRSR	Pitch Configurable BMRSR	NA (Through)	1 (1/8) 2 (1/4)	1 (1/8) 2 (1/4)	30	20-50	0	3	30	35	20	20	15	6	M5
							1	4							
							2	5							
							3	6							
							4	7							
							5	8							
							6	9							
							7	10							
Pitch Standard BMRF BMRFM BMRFR BMRFC	Pitch Configurable BMRFP BMRFLP	T (Tapped)	1 (1/8) 2 (1/4) 3 (3/8) 4 (1/2) 1N (NPT 1/8) 2N (NPT 1/4) 3N (NPT 3/8)	2 (1/4) 3 (3/8) 4 (1/2) 2N (NPT 1/4) 3N (NPT 3/8) 4N (NPT 1/2)	40	25-50	0	3	40	40	35	20	20	7	M6
							1	4							
							2	5							
							3	6							
							4	7							
							5	8							
							6	9							
							7	10							
Pitch Standard BMRFL BMRFLM BMRFLR	Pitch Configurable BMRFLP BMRFLRP	ZT (Counterbore Tapped)	2 (1/4) 3 (3/8) 4 (1/2) 6 (3/4)	2 (1/4) 3 (3/8) 4 (1/2) 6 (3/4)	60	35-60	0	3	50	50	30	28	20	8	M8
							1	4							
							2	5							
							3	6							
							4	7							
							5	8							
							6	9							
							7	10							
Pitch Standard BMRL	Pitch Configurable BMRLP	—	6 (3/4) 8 (1)	8 (1)	60	—	0	3	70	70	40	35	25	9	M8
							1	4							
							2	5							
							3	6							

- ⊕ For G (PF) Thread please place an order specified with G- before part number. (Ex: G-BMRF) For ordering, see the Ordering Example. ⊕ For R, G and K, specify 1, 2, 3, 4, 6, 8, 1N, 2N, 3N or 4N indicated before ().
- ⊕ Single Circuit is not available for Pitch Configurable Type. ⊕ Brass is up to 6 connections. ⊕ Specify the pitch taking into consideration the necessary dimensions for fitting the couplings.
- ⊕ Each 6 and 8 Circuit Type has an additional mounting hole at the midpoint of the overall length. 7 Circuit Type has an additional mounting hole at each midpoint from the left, 2 and 3 port pitch, and 5 and 6 port pitch.

Part Number Example

Part Number	Type	Mounting Hole Options	No. of Circuits	R	G	K	P
BMRF			3	- R3	- G2	- K2	
BMRFLP	NA		4	- R2	- G3	- K4	- P50
G-BMRFLP	NA		4	- R2	- G3	- K4	- P50 (G Thread)

Circuits	Available Types															
	30 x 35 SQ.		40 SQ.			50 SQ.			70 SQ.		30 x 35 SQ.		40 SQ.		50 SQ.	
	BMRS	BMRSR	BMRF	BMRFM	BMRFR	BMRFL	BMRFLM	BMRFLR	BMRL	BMRLM	BMRSRP	BMRFP	BMRFRP	BMRFLP	BMRFLMP	BMRFLRP
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Part Number	Type	Mounting Hole Change	Circuits	Rc(PT), NPT, M (Coarse) R, G & K	Pitch P		No. of Pitches N	Total No. of R, G & K Threads	A	B	E	F	X	Y	Mounting Hole M
					Standard	Configurable 1 mm Inc.									
Pitch Standard BMRAS	Pitch Configurable BMRAF	T (Tapped)	1	M3 (M3) M4 (M4) 5 (M5)	15	—	0	3	15	15	15	10	5	3.5	M4
			2				4								
			3				5								
			4				6								
			5				7								
			6				8								
			7				9								
			8				10								
Pitch Standard BMRAC BMRACA	Pitch Configurable BMRACP	T (Tapped)	1	1 (1/8) M3 (M3)* M4 (M4)* 5 (M5)*	15	15-50	0	3	25	25	20	12.5	10	4	M5
			1				4								
			2				5								
			3				6								
			4				7								
			5				8								
			6				9								
			7				10								
Pitch Standard BMRAF BMRafa	Pitch Configurable BMRAFP	NA (Through)	1	1 (1/8) 2 (1/4) 5 (M5)* 1N (NPT 1/8) 2N (NPT 1/4)	30	20-50	0	3	30	40	20	20	7.5	7	M5
			1				4								
			2				5								
			3				6								
			4				7								
			5				8								
			6				9								
			7				10								
Pitch Standard BMRAL BMRALA	Pitch Configurable BMRALP	ZT (Counterbore Tapped)	1	2 (1/4) 3 (3/8) 4 (1/2)	40	35-60	0	3	50	50	25	25	8.5	8.5	M8
			1				4								
			2				5								
			3				6								
			4				7								
			5				8								
			6				9								
			7				10								

- ⊕ For G (PF) Thread please place an order specified with G- before part number. (Ex: G-BMRAF) For ordering, see the Ordering Example. ⊕ For R, G and K, specify 1, 2, 3, 4, 5, M3, M4, 1N, or 2N indicated before ().
- ⊕ Single Circuit is not available for Pitch Configurable Type. ⊕ Specify the pitch taking into consideration the necessary dimensions for fitting the couplings.
- ⊕ Each 6 and 8 Circuit Type has an additional mounting hole at the midpoint of the overall length.
- ⊕ 7 Circuit Type has an additional mounting hole at each midpoint from the left, 2 and 3 port pitch, and 5 and 6 port pitch. (Except for 15 Square)
- ⊕ *When * marked 25 Square or 30 x 40 Square for 7 or 8 is selected, M3, M4 and 5 (M5) are not available for G and K.
- ⊕ M3, M4 and 5 (M5) are not available for 25 Square, 30x40 Square Pitch Configurable Type G and K.

Part Number Example

Part Number	Type	Mounting Hole Options	No. of Circuits	R	G	K	P
BMRAC	T		2	- R5	- G1	- K1	
BMRAFP	ZT		3	- R1	- G2	- K2	- P40
G-BMRAFP	ZT		3	- R1	- G2	- K2	- P40 (G Thread)

Circuits	Available Types															
	15 SQ.		25 SQ.		30 x 40 SQ.		50 SQ.		25 SQ.		30 x 40 SQ.		50 SQ.			
	BMRAS	BMRAC	BMRACA	BMRAF	BMRafa	BMRAL	BMRALA	BMRACP	BMRAFP	BMRAFP	BMRAFP	BMRALP	BMRALAP			
1	•	•	•	•	•	•	•	•	•	•	•	•	•			
2	•	•	•	•	•	•	•	•	•	•	•	•	•			
3	•	•	•	•	•	•	•	•	•	•	•	•	•			
4	•	•	•	•	•	•	•	•	•	•	•	•	•			
5	•	•	•	•	•	•	•	•	•	•	•	•	•			
6	•	•	•	•	•	•	•	•	•	•	•	•	•			
7	•	•	•	•	•	•	•	•	•	•	•	•	•			
8	•	•	•	•	•	•	•	•	•	•	•	•	•			