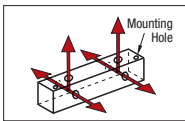


Manifold Blocks (Hydraulic)



Manifold Blocks - Hydraulic



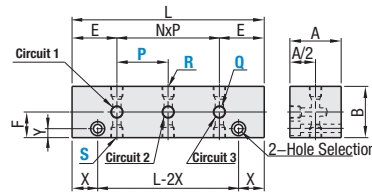
RoHS 10

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

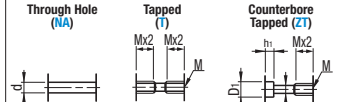
L Dimension Calculation
Ex.: For BMAFP3- - -P35
 $L = N \times P + 2E = (\text{Circuits } 3-1) \times 35 + 2 \times 20 = 110$

Type	Pitch (P) Standard			Pitch (P) Configurable			Material	Surface Treatment	Normal Pressure	
	25 x 32 Sq	40 Sq	50 Sq	60 Sq	70 Sq	40 Sq				50 Sq
BMAS	BMAFA	BMAFL	BMAFLK	BMAL	BMAFPA	BMAFLP	BMAFLKP	General Structural Steel	Trivalent Chromate Electroless Nickel Plating	20.6 MPa = 210 kgf/cm ² or Less
—	BMAFMA	BMAFLM	—	BMALM	—	BMAFLMP	—			
BMASR	BMAFRA	BMAFLR	—	—	—	—	—	304 Stainless Steel	—	1 MPa = 10 kgf/cm ² or Less
—	BMAFSA	—	—	—	—	—	—	316 Stainless Steel	—	
—	BMAFCA	—	—	—	—	—	—	Brass	—	

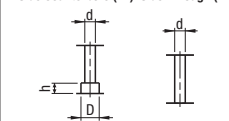
* Drawing is for when 3-Circuit type is selected. The total number of Q, R and S threads is 9.



Mounting Hole Options



Side Mounting Hole Change



Mounting Holes 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.

Part Number	Type	Mounting Hole Change	Circuits	Rc (PT), NPT		Pitch P		No. of Pitches N	Total No. of Q, R & S Threads	A	B	E	F	X	Y	Mounting Hole M		
				Q, R, S	Standard	Configurable 1 mm Inc.												
Pitch Standard BMAS BMASR	25 x 32 SQ.	—	1	1 (1/8)	25	—	0	3	25	32	20	16	7.5	7	—	M5		
			2				1	6										
			3				2	9										
			4				3	12										
			5				4	15										
			6				5	18										
			7				6	21										
			8				7	24										
Pitch Standard BMAFA BMAFMA BMAFRA BMAFSA BMAFCA (Standard Change: E dimension)	40 SQ.	NA (Through)	1	1 (1/8)	40	—	0	3	40	40	25	20	7.5	7	—	M6		
			2				1	6										
			3				2	9										
			4				3	12										
			5				4	15										
			6				5	18										
			7				6	21										
			8				7	24										
Pitch Standard BMAFL BMAFLM BMAFLR	50 SQ.	ZT (Counterbore Tapped)	1	2 (1/4)	60	35-60	0	3	50	50	30	25	7.5	8	—	M8		
			2				1	6										
			3				3	12										
			4				4	15										
			5				6	21										
			6				4	12										
			7				6	21										
			8				5	18										
Pitch Standard BMAFLK BMAFLKP	60 SQ.	YN (Side Through)	1	2 (1/4)	60	35-60	0	3	60	60	30	30	7.5	8	—	M8		
			2				1	6										
			3				3	12										
			4				4	15										
			5				6	21										
			6				4	12										
			7				6	21										
			8				5	18										
Pitch Standard BMAL BMALM	70 SQ.	—	1	6 (3/4)	60	—	0	3	70	70	40	35	10	10	—	M8		
			2				1	6										
			3				8	1									2	9
			4				3	12										

- For G (PF) Thread please place an order specified with G- before part number. (Ex: **G-BMAF**) For ordering, see the Ordering Example. For Q, R and S, specify 1, 2, 3, 4, 6, 8, 1N, 2N or 3N indicated before ().
- Single Circuit is not available for Pitch Configurable Type. 316 Stainless Steel and 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.
- For Block Square 50 Type, when 3 and 4 is selected for both tapered threads at right angles, the male threads may interfere with each other. Select Block Square 60 Type instead.
- Select NA, T or ZT for 7 and 8 circuit types mounting hole shape.

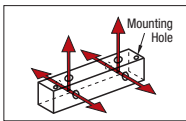
Part Number Example

Part Number: **BMAF** - **NA** - **4** - **Q3** - **R2** - **S3**

Part Number: **G-BMAFLP** - **NA** - **3** - **Q3** - **R4** - **S4** - **P45**

Circuits	Available Types																
	25 x 32 SQ.		40 SQ.			50 SQ.			60 SQ.		70 SQ.		40 SQ.		50 SQ.		60 SQ.
	BMAS	BMASR	BMAFA	BMAFMA	BMAFRA	BMAFSA	BMAFCA	BMAFL	BMAFLM	BMAFLR	BMAFLK	BMAL	BMALM	BMAFPA	BMAFLP	BMAFLMP	BMAFLKP
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Manifold Blocks (Pneumatic)



Manifold Blocks - Pneumatic



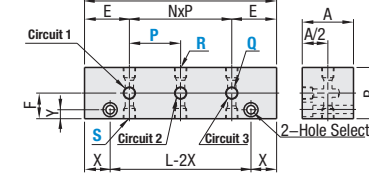
RoHS 10

- Mounting hole can be selected.
- When no shape modification is specified, standard mounting hole shape is selected. Except when 20 Square is not specified, through hole is selected.

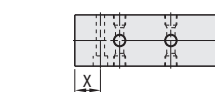
L Dimension Calculation
Ex.: In the Case of BMGFP3-P25
 $L = NXP + 2E = (\text{Number of Circuits } 3-1) \times 25 + 2 \times 20 = 90$

Type	Pitch (P) Standard			Pitch (P) Configurable			Material	Surface Treatment	Max. Operating Pressure
	20 Sq	25 Sq	35 Sq	50 Sq	20 Sq	25 Sq			
BMGFC	BMGF	BMGFK	BMGFL	BMGFCA	BMGF	BMGFCA	Aluminum Alloy	Clear Anodize	1 MPa = 10 kgf/cm ² or Less
BMGFCA	BMGFA	—	BMGFLA	BMGFCA	BMGF	BMGFCA			

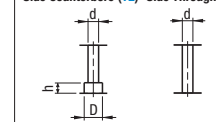
* Drawing is for when 3-Circuit type is selected. The total number of Q, R and S threads is 9.



Side Mounting Hole Change



Side Mounting Hole Change



Mounting Holes Dimension	d	D	h	D ₁	d ₁	h ₁
M5	5.5	9.5	5.5	8	4.2	4.5
M8	8.5	14	8.5	11	6.8	6.5

Part Number	Type	Mounting Hole Change	Circuits	Rc (PT), NPT, M (Coarse)		Pitch P		No. of Pitches N	Total No. of Q, R & S Threads	A	B	E	F	X	Y	Mounting Hole M
				Q, R, S	Standard	Configurable 1 mm Inc.										
Pitch Standard BMGFC BMGFCA	20 SQ.	—	1	1 (1/8)	15	—	0	3	20	20	20	10	5	4	—	M5
			2				1	6								
			3				2	9								
			4				3	12								
			5				4	15								
			6				5	18								
			7				6	21								
			8				7	24								
Pitch Standard BMGF BMGFA	25 SQ.	NA (Through)	1	1 (1/8)	30	20-50	0	3	25	25	20	12.5	7.5	7	—	M5
			2				1	6								
			3				2	9								
			4				3	12								
			5				4	15								
			6				5	18								
			7				6	21								
			8				7	24								
Pitch Standard BMGFK	35 SQ.	ZT (Counterbore Tapped)	1	1 (1/8)	30	20-50	0	3	35	35	20	17.5	7.5	7	—	M5
			2				1	6								
			3				2	9								
			4				3	12								
			5				4	15								
			6				5	18								
			7				6	21								
			8				7	24								
Pitch Standard BMGFL BMGFLA	50 SQ.	YN (Side Through)	1	2 (1/4)	40	—	0	3	50	50	25	25	8.5	8.5	—	M8
			2				1	6								
			3				2	9								
			4				3	12								
			5				4	15								
			6				5	18								
			7				6	21								
			8				7	24								

- BMGFL and BMGFLA are not available with 7 and 8 Circuits.
- BMGFCA, BMGFCA, BMGF, BMGFAP, and BMGFKP are not available with a Single Circuit (1)
- For G (PF) Thread please place an order specified with G- before part number. (Ex: **G-BMGF**) For ordering, see the Ordering Example.
- For Q, R and S, 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 20 Square and 25 Square)
- For Block Square 25 Type, when 1 and 4 is selected for both tapered threads at right angles, the male threads may interfere with each other. Select Block Square 35 Type instead.
- Select NA, T or ZT for 7 and 8 circuit types mounting hole shape.

Part Number Example

Part Number: **BMGF** - **ZT** - **4** - **Q2** - **R5** - **S2**

Part Number: **G-BMGFP** - **ZT** - **4** - **Q2** - **R2** - **S2** - **P50**

Part Number: **G-BMGFP** - **ZT** - **4** - **Q2** - **R2** - **S2** - **P50** (G Thread)