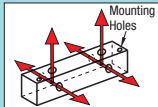




# Manifold Blocks - Hydraulic

## T-Shaped Hole



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

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).

**Type**

Pitch (P) Standard						Pitch (P) Configurable			Material	Surface Treatment	Max. Operating Pressure
25x32 Sq.	40 Sq.	50 Sq.	60 Sq.	70 Sq.	40 Sq.	50 Sq.	60 Sq.				
BMAS	BMAFA	BMAFL	BMAFLK	BMAL	BMAFPA	BMAFLP	BMAFLK	EN 1.0038 Equiv.	Trivalent Chromate	20.6MPa=210kgf/cm <sup>2</sup> or less	
-	BMAFMA	BMAFLM	-	BMALM	-	BMAFLMP	-	EN 1.4301 Equiv.	Electroless Nickel Plating		
BMASR	BMAFRA	BMAFLR	-	-	-	-	-	EN 1.4401 Equiv.	-	1MPa=10kgf/cm <sup>2</sup> or less	
-	BMAFSA	-	-	-	-	-	-	Brass	-		

\* Drawing for **3 Circuit Type** is selected.  
The total number of Q, R and S threads is 9.

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

**Standard hole shape**

**Mounting Hole Change**

Through Hole (NA) Tapped Hole (T) Counterbore Tapped Hole (ZT)

**Side Mounting Hole Change**

Side Counterbore (YZ) Side Through (YN)

Mounting Hole Dimension	d	D	h	D1	d1	h1
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 for EN 1.4301 Equiv., d1 dimension is 4.3.

Part Number		Pitch P		Number of Pitches		Total Number of		A		B		E		F		X		Y		Mounting Hole	
Type	Mounting Hole Change	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet
Pitch Standard BMAS BMASR	NA (Through)	1	-	0	3	25	-	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 Pitch Configurable BMAFA BMAFMA BMAFRA BMAFSA BMAFCA	T (Tapped)	1	-	0	3	40	25~50	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																
(Standard Change: E dimension) (50 Sq.)	ZT (Counterbore Tapped)	1	-	0	3	60	35~60	60	60	30	25	7.5	8	M8							
		2	-	1	6																
		3	-	2	9																
		4	-	3	12																
		5	-	4	15																
		6	-	5	18																
		7	-	6	21																
		8	-	7	24																
Pitch Standard Pitch Configurable BMAFL BMAFLM BMAFLR	YZ (Side Counterbore)	1	-	0	3	60	40~60	60	60	30	30	7.5	8	M8							
		2	-	1	6																
		3	-	2	9																
		4	-	3	12																
		5	-	4	15																
		6	-	5	18																
		7	-	6	21																
		8	-	7	24																
(60 Sq.)	YN (Side Through)	1	-	0	3	60	35~60	60	60	30	30	7.5	8	M8							
		2	-	1	6																
		3	-	2	9																
		4	-	3	12																
		5	-	4	15																
		6	-	5	18																
		7	-	6	21																
		8	-	7	24																
Pitch Standard Pitch Configurable BMAFLK BMAFLKP	YN (Side Through)	1	-	0	3	60	40~60	60	60	30	30	7.5	8	M8							
		2	-	1	6																
		3	-	2	9																
		4	-	3	12																
		5	-	4	15																
		6	-	5	18																
		7	-	6	21																
		8	-	7	24																
(70 Sq.)	YN (Side Through)	1	-	0	3	70	-	70	70	40	35	10	10	M8							
		2	-	1	6																
		3	-	2	9																
		4	-	3	12																
		5	-	4	15																
		6	-	5	18																
		7	-	6	21																
		8	-	7	24																

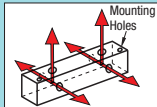
By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-BMAF) For ordering, see the Ordering Example.  
For Q, R and S, specify 1, 2, 3, 4, 6, 8, 1N, 2N or 3N indicated before (.).  
Specify the pitch taking into consideration the necessary dimensions for fitting the couplings.  
For Block Square 50 Type, when 3/4 is selected for both tapered threads at right angles, the tapered male threads may interfere with each other. Select Block Square 60 Type instead.  
Select NA, T or ZT for the mounting hole shape of 7 and 8 Circuit Types.

Part Number		Pitch P		Number of Pitches		Total Number of		A		B		E		F		X		Y		Mounting Hole	
Type	Mounting Hole Change	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet	Standard	Configurable Item Incomet
BMAF	NA	4	-	Q3	-	R2	-	S3	-	P45											
BMAFLP	NA	3	-	Q3	-	R4	-	S4	-	P45											
G-BMAFLP	NA	3	-	Q3	-	R4	-	S4	-	P45											

Number of Circuits	Pitch (P) Standard										Pitch (P) Configurable			
	25x32 Sq.	40 Sq.	50 Sq.	60 Sq.	70 Sq.	40 Sq.	50 Sq.	60 Sq.	70 Sq.	40 Sq.	50 Sq.	60 Sq.	70 Sq.	80 Sq.
1	BMAS	BMAFA	BMAFL	BMAFLK	BMAL	BMAFPA	BMAFLP	BMAFLK						
2														
3														
4														
5														
6														
7														
8														

# Manifold Blocks - Pneumatic

## T-Shaped Hole



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

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).

**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.	35 Sq.			
BMGFC	BMGF	BMGFK	BMGFL	BMGFCP	BMGF	BMGFKP	Aluminum Alloy 5000 series	-	1MPa=10kgf/cm <sup>2</sup> or less
BMGFCA	BMGFA	-	BMGFLA	BMGFCAP	BMGFAP	-	Clear Anodize		

\* Drawing for **3 Circuit Type** is selected.  
The total number of Q, R and S threads is 9.

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

**Standard hole shape**

**Mounting Hole Change**

Through Hole (NA) Tapped Hole (T) Counterbore Tapped Hole (ZT)

**Side Mounting Hole Change**

Side Counterbore (YZ) Side Through (YN)

Mounting Hole Dimension	d	D	h	D1	d1	h1
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		Rc (PT), NPT, NPT M (Coarse) Selection		Pitch P		Number of Pitches N	Total Number of Q, R, and S Threads	A	B	E	F	X	Y	Mounting Hole M
Type	Mounting Hole Change	Number of Grains	Q, R, S	Standard	Configurable from Incomet									
(20 Sq.)		1		-	-	0	3	20	20	20	10	5	4	M5
Pitch Standard	Pitch Configurable	2	1 (1/8) M3 (M3) M4 (M4) 5 (M5)	15	15~50	1	6							
		3				2	9							
BMGFC BMGFCP BMGFCA BMGFCAP	YN (Side Through)	4				3	12							
		5				4	15							
		6				5	18							
		7				6	21							
8	7	24												
(25 Sq.)		1		-	-	0	3	25	25	20	12.5	7.5	7	M5
Pitch Standard	Pitch Configurable	2	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT1/8) 2N (NPT1/4)	30	20~50	1	6							
		3				2	9							
BMGF BMGF BMGFA BMGFAP	NA (Through)	4				3	12							
		5				4	15							
		6				5	18							
		7				6	21							
8	7	24												
(35 Sq.)		1		-	-	0	3	35	35	20	17.5	7.5	7	M5
Pitch Standard	Pitch Configurable	2	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT1/8) 2N (NPT1/4)	30	20~50	1	6							
		3				2	9							
BMGFK BMGFKP	YZ (Side Counterbore)	4				3	12							
		5				4	15							
		6				5	18							
		7				6	21							
8	7	24												
(50 Sq.)		1		-	-	0	3	50	50	25	25	8.5	8.5	M8
Pitch Standard		2	2 (1/4) 3 (3/8) 4 (1/2)	40	-	1	6							
		3				2	9							
BMGFL BMGFLA	YN (Side Through)	4				3	12							
		5				4	15							
		6				5	18							
		7				6	21							