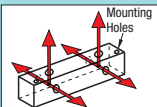


Manifold Blocks - Hydraulic

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).

RoHS 10

| 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 | BMAF | BMAFL | BMAFLK | BMAL | BMAFP | BMAFLP | BMAFLKP | EN 1.0038 Equiv. | Trivalent Chromate | 20.6MPa≈210kgf/cm ² or less | | |
| - | BMAFM | BMAFLM | - | BMALM | - | BMAFLMP | - | EN 1.4301 Equiv. | Electroless Nickel Plating | | | |
| BMASR | BMAFR | BMAFLR | - | - | - | - | - | EN 1.4401 Equiv. | - | | 1MPa≈10kgf/cm ² or less | |
| - | BMAFS | - | - | - | - | - | - | 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 B1.20.1-1983(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 | | Rc (PT), NPT Selection | | Pitch P | | Number of Pitches N | Total Number of Q, R and S Threads | A | B | E | F | X | Y | Mounting Hole | | |
|--|----------------------|------------------------|---|----------|---------------------------|---------------------|------------------------------------|----|----|----|----|-----|----|---------------|----|----|
| Type | Mounting Hole Change | Number of Threads | Q, R, S | Standard | Configurable Item Incomet | | | | | | | | | M | | |
| (25x32 Sq.) | | 1 | 1 (1/8) | 25 | - | 0 | 3 | 25 | 32 | 20 | 16 | 7.5 | 7 | M5 | | |
| Pitch Standard BMAS BMAFR | | 2 | | | | | | | | | | | | | 1 | 6 |
| | | 3 | | | | | | | | | | | | | 2 | 9 |
| | | 4 | | | | | | | | | | | | | 3 | 12 |
| | | 5 | | | | | | | | | | | | | 4 | 15 |
| | | 6 | | | | | | | | | | | | | 5 | 18 |
| | | 7 | | | | | | | | | | | | | 6 | 21 |
| | | 8 | | | | | | | | | | | | | 7 | 24 |
| (40 Sq.) | NA (Through) | 1 | 1 (1/8) 2 (1/4) 3 (3/8) 4 1N (NPT1/8) 6 2N (NPT1/4) 7 3N (NPT3/8) 8 | 40 | 25~50 | 0 | 3 | 40 | 40 | 20 | 20 | 7.5 | 7 | M6 | | |
| Pitch Standard Pitch Configurable BMAF BMAFM BMAFR BMAFS BMAFC | T (Tapped) | 2 | | | | | | | | | | | | | 1 | 6 |
| | | 3 | | | | | | | | | | | | | 2 | 9 |
| | | 4 | | | | | | | | | | | | | 3 | 12 |
| | | 5 | | | | | 4 | | | | | | | | 15 | |
| | | 6 | | | | | 5 | | | | | | | | 18 | |
| | | 7 | | | | | 6 | | | | | | | | 21 | |
| | | 8 | | | | | 7 | | | | | | | | 24 | |
| (50 Sq.) | | 1 | 2 (1/4) 3 (3/8) 4 4 (1/2) 5 6 (3/4) 6 | 60 | 35~60 | 0 | 3 | 50 | 50 | 30 | 25 | 7.5 | 8 | M8 | | |
| Pitch Standard Pitch Configurable BMAFL BMAFLM BMAFLR | | 2 | | | | | | | | | | | | | 1 | 6 |
| | | 3 | | | | | | | | | | | | | 2 | 9 |
| | | 4 | | | | | | | | | | | | | 3 | 12 |
| | | 5 | | | | | 4 | | | | | | | | 15 | |
| | | 6 | | | | | 5 | | | | | | | | 18 | |
| | | | | | | | 40~60 | | | | | | | | 5 | 18 |
| | | | | | | | | | | | | | | | | |
| (60 Sq.) | YN (Side Through) | 1 | 2 (1/4) 3 3 (3/8) 4 4 (1/2) 5 6 (3/4) 6 | 60 | 35~60 | 0 | 3 | 60 | 60 | 30 | 30 | 7.5 | 8 | M8 | | |
| Pitch Standard Pitch Configurable BMAFLK BMAFLKP | | 2 | | | | | | | | | | | | | 1 | 6 |
| | | 3 | | | | | | | | | | | | | 2 | 9 |
| | | 4 | | | | | | | | | | | | | 3 | 12 |
| | | 5 | | | | | 4 | | | | | | | | 15 | |
| | | 6 | | | | | 5 | | | | | | | | 18 | |
| | | | | | | | 40~60 | | | | | | | | 5 | 18 |
| | | | | | | | | | | | | | | | | |
| (70 Sq.) | | 1 | 6 (3/4) 3 8 (1) 4 | 60 | - | 0 | 3 | 70 | 70 | 40 | 35 | 10 | 10 | M8 | | |
| Pitch Standard BMAL BMALM | | 2 | | | | | | | | | | | | | 1 | 6 |
| | | 3 | | | | | | | | | | | | | 2 | 9 |
| | | 4 | | | | | | | | | | | | | 3 | 12 |

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 (.). 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 of the 2 - 3 port pitch, and 5 - 6 port pitch from the left to the right.
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.

Ordering Example

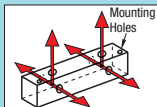
| Part Number | | Q | | R | | S | | P | |
|-------------|----------------------|--------------------|---|--------------------|---|--------------------|---|--------------------|---|
| Type | Mounting Hole Change | Number of Circuits | | Number of Circuits | | Number of Circuits | | Number of Circuits | |
| BMAF | NA | 4 | - | Q3 | - | R2 | - | S3 | - |
| BMAFLP | NA | 3 | - | Q3 | - | R4 | - | S4 | - |
| G-BMAFLP | NA | 3 | - | Q3 | - | R4 | - | S4 | - |

(G Thread)

| 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. | 40 Sq. | 50 Sq. | 60 Sq. |
| 1 | BMAS | BMAFR | BMAFL | BMAFLM | BMAFLR | BMAFLK | BMAFLP | BMAFLKP | BMAFL | BMAFLM | BMAFLR |
| 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).

RoHS 10

| 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 ² 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 B1.20.1-1983(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, M (Coarse) Selection Q, R, S | Pitch P | | Number of Pitches N | Total Number of Q, R and S Threads | A | B | E | F | X | Y | Mounting Hole |
|-------------|---|--|--|----------|-------------------------------|------------------------|---------------------------------------|----|----|----|------|-----|-----|---------------|
| Type | Mounting Hole Change | Number of Grooves | | Standard | Configurable Item (Increment) | | | | | | | | | M |
| (20 Sq.) | Pitch Configurable BMGFC BMGFCP BMGFCA BMGFCA P | T (Tapped) YN (Side Through) | 1 (1/8) M3 (M3) M4 (M4) 5 (M5) | 15 | 15~50 | 0 | 3 | 20 | 20 | 20 | 10 | 5 | 4 | M5 |
| | | | | | | 1 | 6 | | | | | | | |
| | | | | | | 2 | 9 | | | | | | | |
| | | | | | | 3 | 12 | | | | | | | |
| | | | | | 4 | 15 | | | | | | | | |
| | | | | | 5 | 18 | | | | | | | | |
| | | | | | 6 | 21 | | | | | | | | |
| | | | | | 7 | 24 | | | | | | | | |
| | | | | | | | | | | | | | | |
| (25 Sq.) | Pitch Configurable BMGF BMGF P BMGFA BMGFAP | NA (Through) T (Tapped) | 1 (1/8) 2 (1/4) 5 (M5) 1N (NPT1/8) 2N (NPT1/4) | 30 | 20~50 | 0 | 3 | 25 | 25 | 20 | 12.5 | 7.5 | 7 | M5 |
| | | | | | | 1 | 6 | | | | | | | |
| | | | | | | 2 | 9 | | | | | | | |
| | | | | | | 3 | 12 | | | | | | | |
| | | | | | 4 | 15 | | | | | | | | |
| | | | | | 5 | 18 | | | | | | | | |
| | | | | | 6 | 21 | | | | | | | | |
| | | | | | 7 | 24 | | | | | | | | |
| | | | | | | | | | | | | | | |
| (35 Sq.) | Pitch Configurable BMGFK BMGFK P | ZT (Counterbore Tapped) YZ (Side Counterbore) | 1 (1/8) 2 (1/4) 5 (M5) 1N (NPT1/8) 2N (NPT1/4) | 30 | 20~50 | 0 | 3 | 35 | 35 | 20 | 17.5 | 7.5 | 7 | M5 |
| | | | | | | 1 | 6 | | | | | | | |
| | | | | | | 2 | 9 | | | | | | | |
| | | | | | | 3 | 12 | | | | | | | |
| | | | | | 4 | 15 | | | | | | | | |
| | | | | | 5 | 18 | | | | | | | | |
| | | | | | 6 | 21 | | | | | | | | |
| | | | | | 7 | 24 | | | | | | | | |
| | | | | | | | | | | | | | | |
| (50 Sq.) | Pitch Standard BMGFL BMGFLA | YN (Side Through) | 2 (1/4) 3 (3/8) 4 (1/2) | 40 | - | 0 | 3 | 50 | 50 | 25 | 25 | 8.5 | 8.5 | M8 |
| | | | | | | 1 | 6 | | | | | | | |
| | | | | | | 2 | 9 | | | | | | | |
| | | | | | | 3 | 12 | | | | | | | |
| | | | | | | 4 | 15 | | | | | | | |
| | | | | | | 5 | 18 | | | | | | | |