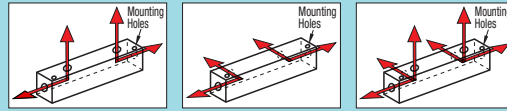


Manifold Blocks - Hydraulic / Pneumatic

Two-Circuit



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).

Usage	Type	Block Square	Material	Surface Treatment	Max. Operating Pressure
Hydraulic	WBMFBF WBMBFR	30x35	SS400 SUS304	Trivalent Chromate	20.6MPa=210kgf/cm ² or less
Pneumatic	WBMSF	30 Sq.	A5052	-	1MPa=10kgf/cm ² or less

Thread: JIS B0203 Rc (PT)
JIS B0202 G (PF): ISO G228-1 Compatible
ANSI/ASME B.1.20.1-1983(NPT)

*Drawing for 4 Circuit Type is selected.
The total number of Q, G and K threads is 6.

Hydraulic: L=NxP+100
Pneumatic: L=NxP+80

Ⓜ Only 6 Circuit Type has an additional tapped hole at the midpoint of the overall length (M6 for Hydraulic Type, M5 for Pneumatic Type).

Part Number	Type	Number of Circuits	Hydraulic		Pneumatic		Unit Price			
			Rc (PT), NPT Selection	Q, K	Rc (PT), M (Coarse), NPT Selection	Q, G, K	WBMFBF	WBMBFR	WBMSF	
WBMFBF WBMBFR WBMSF	2	1	1 (1/8)	2 (1/4)	1 (1/8)	0	4			
		2	2 (1/4)	3 (3/8)	2 (1/4)	2	6			
		3	3 (3/8)	4 (1/2)	2 (1/4)	4	8			
		4	1N (NPT1/8)	2N (NPT1/4)	1N (NPT1/8)					
		5	2N (NPT1/4)	3N (NPT3/8)	2N (NPT1/4)					
		6	3N (NPT3/8)	4N (NPT1/2)						

Ⓜ For Q, G and K, specify 1, 2, 3, 4, 5, 1N, 2N, 3N or 4N indicated before (). Ⓜ By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-WBMFBF) For ordering, see the Ordering Example.

Usage	Type	Block Square	Material	Surface Treatment	Max. Operating Pressure
Hydraulic	WBMRF	40 Sq.	SS400	Trivalent Chromate	20.6MPa=210kgf/cm ² or less
Pneumatic	WBMAF	30x40	A5052	-	1MPa=10kgf/cm ² or less

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

*Drawing for 4 Circuit Type is selected.
The total number of R, G and K threads is 6.

Hydraulic: L=NxP+120
Pneumatic: L=NxP+80

Ⓜ Only 6 Circuit Type has an additional tapped hole at the midpoint of the overall length (M6 for Hydraulic Type, M5 for Pneumatic Type).

Part Number	Type	Number of Circuits	Hydraulic		Pneumatic		Unit Price			
			Rc (PT), NPT Selection	R, G, K	Rc (PT), M (Coarse), NPT Selection	R, G, K	WBMRF	WBMAF		
WBMRF WBMAF	2	1	1 (1/8)	2 (1/4)	1 (1/8)	0	4			
		2	2 (1/4)	3 (3/8)	2 (1/4)	2	6			
		3	3 (3/8)	4 (1/2)	2 (1/4)	4	8			
		4	1N (NPT1/8)	2N (NPT1/4)	1N (NPT1/8)					
		5	2N (NPT1/4)	3N (NPT3/8)	2N (NPT1/4)					
		6	3N (NPT3/8)	4N (NPT1/2)						

Ⓜ For Q, R, G and K, specify 1, 2, 3, 4, 5, 1N, 2N, 3N or 4N indicated before (). Ⓜ By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-WBMRF) For ordering, see the Ordering Example.

Usage	Type	Block Square	Material	Surface Treatment	Max. Operating Pressure
Hydraulic	WBMUF	40 Sq.	SS400	Trivalent Chromate	20.6MPa=210kgf/cm ² or less
Pneumatic	WBMAUF	30x40	A5052	-	1MPa=10kgf/cm ² or less

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

*Drawing for 4 Circuit Type is selected.
The total number of Q, R, G and K threads is 10.

Hydraulic: L=NxP+120
Pneumatic: L=NxP+80

Ⓜ Only 6 Circuit Type has an additional tapped hole at the midpoint of the overall length (M6 for Hydraulic Type, M5 for Pneumatic Type).

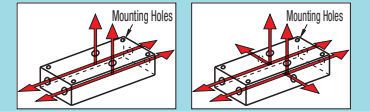
Part Number	Type	Number of Circuits	Hydraulic		Pneumatic		Unit Price			
			Rc (PT), NPT Selection	Q, R, G, K	Rc (PT), M (Coarse), NPT Selection	Q, R, G, K	WBMUF	WBMAUF		
WBMUF WBMAUF	2	1	1 (1/8)	2 (1/4)	1 (1/8)	0	6			
		2	2 (1/4)	3 (3/8)	2 (1/4)	2	10			
		3	3 (3/8)	4 (1/2)	2 (1/4)	4	14			
		4	1N (NPT1/8)	2N (NPT1/4)	1N (NPT1/8)					
		5	2N (NPT1/4)	3N (NPT3/8)	2N (NPT1/4)					
		6	3N (NPT3/8)	4N (NPT1/2)						

Ⓜ For Q, R, G and K, specify 1, 2, 3, 4, 5, 1N, 2N, 3N or 4N indicated before (). Ⓜ By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-WBMUF) For ordering, see the Ordering Example.

Ordering Example: Part Number - Q - R - G - K
 WBMFBF4 - Q3 - G3 - K3
 WBMBFR4 - R2 - G2 - K3
 WBMSF4 - Q1 - R3 - G3 - K3
 G-WBMFBF4 - Q1 - R3 - G3 - K3 (G Thread)

Manifold Blocks - Pneumatic

Double



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).

Usage	Type	Material	Surface Treatment	Max. Operating Pressure
Water Hydraulic	BMBWR	SUS304	-	20.6MPa=210kgf/cm ² or less
Pneumatic	BMSW BMSWA	A5052	Clear Anodize	1MPa=10kgf/cm ² or less

Thread: JIS B0203 Rc (PT)

*Drawing for 4 Circuit Type is selected. Number of port threads is 12.
("Number of port thread" indicates the total number of Q, G and K threads.)

Ⓜ Mounting hole shape can be selected freely. Ⓜ (4.3) is only applicable to SUS304.

Ⓜ Mounting Hole Change
 Counterbore Hole (ZA) Through Hole (NA)
 Counterbore Tapped Hole (ZT)
 Tapped Hole (T)

Part Number	Type	Mounting Hole Selection	Number of Circuits	RC (PT), M (Coarse) Selection		Pitch P	Number of Pitches N	Total Number of Q, R, G and K Threads	Unit Price		
				Q, G, K					BMBWR	BMSW	BMSWA
Pitch Standard BMBWR BMSW BMSWA	2	ZA (Counterbore)	1	1 (1/8)		20	0	6			
		NA (Through Hole)	2	M3 (M3)	1		8				
		T (Tapped)	3	M4 (M4)	2		10				
		ZT (Counterbore Tapped)	4	5 (M5)	3		12				
			5	2 (1/4)	4		14				
			6		5		16				

Ⓜ For Q, G and K, specify 1, 2, M3, M4 or 5 indicated before (). Ⓜ By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-BMSW) For ordering, see the Ordering Example.

Usage	Type	Material	Surface Treatment	Max. Operating Pressure
Pneumatic	BMUAW	A5052	-	1MPa=10kgf/cm ² or less

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

*Drawing for 4 Circuit Type is selected.
The total number of Q, R, G and K threads is 20.

Ⓜ Mounting hole shape can be selected freely.

Ⓜ Mounting Hole Change
 Counterbore Hole (ZA) Through Hole (NA)
 Counterbore Tapped Hole (ZT)
 Tapped Hole (T)

Part Number	Type	Mounting Hole Selection	Number of Circuits	RC (PT), M (Coarse) Selection		Pitch P	Number of Pitches N	Total Number of Q, R, G, K Threads	Unit Price		
				Q, R, G, K							
BMUAW	2	ZA (Counterbore)	1	1 (1/8)		20	0	8			
		NA (Through Hole)	2	M3 (M3)	1		12				
		T (Tapped)	3	M4 (M4)	2		16				
		ZT (Counterbore Tapped)	4	5 (M5)	3		20				
			5	2 (1/4)	4		24				
			6		5		28				

Ⓜ For Q, R, G and K, specify 1, 2, M3, M4 or 5 indicated before (). Ⓜ By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-BMUAW) For ordering, see the Ordering Example.

Ordering Example: Part Number - Q - R - G - K
 BMSW ZA 4 - Q1 - G2 - K2
 BMUAW T 3 - Q1 - R1 - G2 - K2
 G-BMUAW T 3 - Q1 - R1 - G2 - K2 (G Thread)