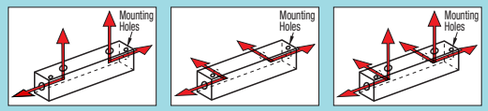
Manifold Blocks - Hydraulic / Pneumatic

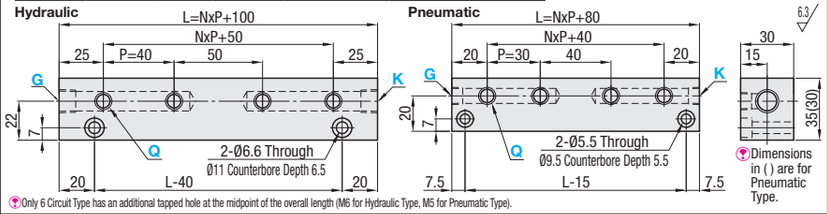
Two-Circuit



For details of recommended tapered male thread tightening torque and through pilot hole, see **P.1224**.
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	WBMBF	30x35	EN 1.0038 Equiv.	Trivalent Chromate	20.6MPa≈210kgf/cm² or less
	WBMBFR		EN 1.4301 Equiv.	-	
Pneumatic	WBMSF	30 Sq.	EN AW-5052 Equiv.	-	1MPa≈10kgf/cm² 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.



Dimensions in ( ) are for Pneumatic Type.

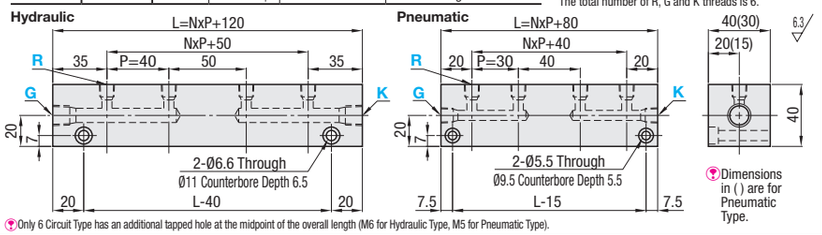
Only 6 Circuit Type has an additional tapped hole at the midpoint of the overall length (M6 for Hydraulic Type, M5 for Pneumatic Type).

Part Number Type	Number of Circuits	Hydraulic Rc (PT), NPT Selection Q	Hydraulic Rc (PT), NPT Selection G, K	Pneumatic Rc (PT), M (Coarse), NPT Selection Q, G, K	Number of Pitches N	Total Number of Q, G and K Threads	Unit Price WBMBF	Unit Price WBMBFR	Unit Price WBMSF
WBMBF WBMBFR WBMSF	2	1 (1/8) 2 (1/4) 3 (3/8) 1N (NPT1/8) 2N (NPT1/4) 3N (NPT3/8)	2 (1/4) 3 (3/8) 4 (1/2) 2N (NPT1/4) 3N (NPT3/8) 4N (NPT1/2)	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT1/8) 2N (NPT1/4)	0	4			
	4				2	6			
	6				4	8			

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-WBMBF) For ordering, see the Ordering Example.

Usage	Type	Block Square	Material	Surface Treatment	Max. Operating Pressure
Hydraulic	WBMRF	40 Sq.	EN 1.0038 Equiv.	Trivalent Chromate	20.6MPa≈210kgf/cm² or less
Pneumatic	WBMRAF	30x40	EN AW-5052 Equiv.	-	1MPa≈10kgf/cm² 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.



Dimensions in ( ) are for Pneumatic Type.

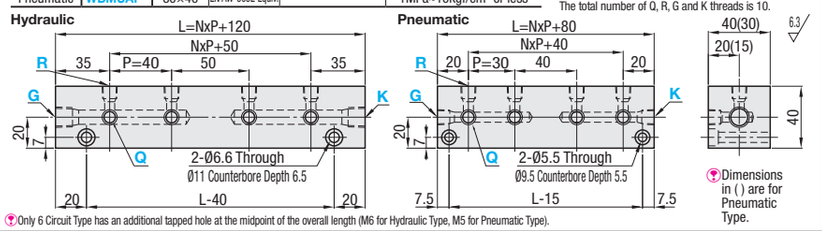
Only 6 Circuit Type has an additional tapped hole at the midpoint of the overall length (M6 for Hydraulic Type, M5 for Pneumatic Type).

Part Number Type	Number of Circuits	Hydraulic Rc (PT), NPT Selection R	Hydraulic Rc (PT), NPT Selection G, K	Pneumatic Rc (PT), M (Coarse), NPT Selection R, G, K	Number of Pitches N	Total Number of R, G and K Threads	Unit Price WBMRF	Unit Price WBMRAF
WBMRF WBMRAF	2	1 (1/8) 2 (1/4) 3 (3/8) 1N (NPT1/8) 2N (NPT1/4) 3N (NPT3/8)	2 (1/4) 3 (3/8) 4 (1/2) 2N (NPT1/4) 3N (NPT3/8) 4N (NPT1/2)	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT1/8) 2N (NPT1/4)	0	4		
	4				2	6		
	6				4	8		

For 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.	EN 1.0038 Equiv.	Trivalent Chromate	20.6MPa≈210kgf/cm² or less
Pneumatic	WBMUAF	30×40	EN AW-5052 Equiv.	-	1MPa≈10kgf/cm² 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.



Dimensions in ( ) are for Pneumatic Type.

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 Rc (PT), NPT Selection Q, R	Hydraulic Rc (PT), NPT Selection G, K	Pneumatic Rc (PT), M (Coarse), NPT Selection Q, R, G, K	Number of Pitches N	Total Number of Q, R, G and K Threads	Unit Price WBMUF	Unit Price WBMUAF
WBMUF WBMUAF	2	1 (1/8) 2 (1/4) 3 (3/8) 1N (NPT1/8) 2N (NPT1/4) 3N (NPT3/8)	2 (1/4) 3 (3/8) 4 (1/2) 2N (NPT1/4) 3N (NPT3/8) 4N (NPT1/2)	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT1/8) 2N (NPT1/4)	0	6		
	4				2	10		
	6				4	14		

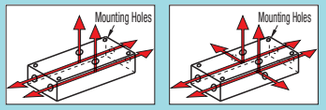
For Q, R, G and K, specify 1, 2, 3, 4, 5, 1N, 2N, 3N or 4N indicated before ( ). By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-WBMUF) For ordering, see the Ordering Example.

Ordering Example

Part Number	-	Q	-	R	-	G	-	K
WBMBF4	-	Q3			-	G3	-	K3
WBMRF4			-	R2	-	G2	-	K3
WBMUF4	-	Q1	-	R3	-	G3	-	K3
G-WBMUF4	-	Q1	-	R3	-	G3	-	K3 (G Thread)

Manifold Blocks - Pneumatic

Double



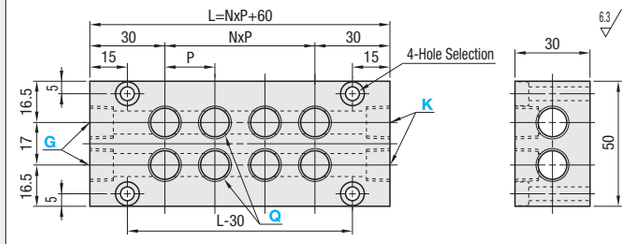
For details of recommended tapered male thread tightening torque and through pilot hole, see **P.1224**.
By inserting "G-" before part number, "PT Threads (Tapered Female Threads)" can be changed to "PF Threads (Parallel Female Threads)" in compliance with "JIS B 0202" (Unit Price remains the same).

■Block Square 30x50

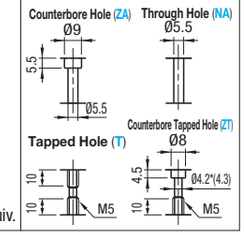
Usage	Type	Material	Surface Treatment	Max. Operating Pressure
Water Hydraulic	BMBWR	EN 1.4301 Equiv.	-	20.6MPa≈210kgf/cm² or less
Pneumatic	BMSW	EN AW-5052 Equiv.	-	1MPa≈10kgf/cm² or less
	BMSWA		Clear Anodize	

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 Change



Mounting hole shape can be selected freely.

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

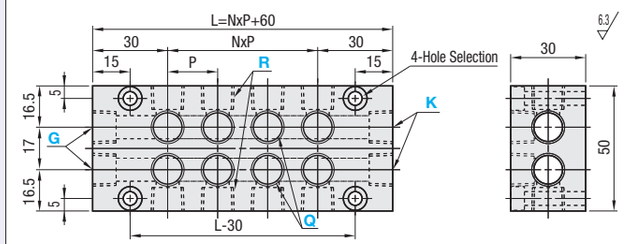
For Q, G and K, specify 1, 2, M3, M4 or 5 indicated before ( ). By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex.: G-BMSW) For ordering, see the Ordering Example.

■Block Square 30x50

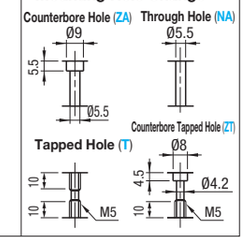
Usage	Type	Material	Surface Treatment	Max. Operating Pressure
Pneumatic	BMUAW	EN AW-5052 Equiv.	-	1MPa≈10kgf/cm² or less

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 Change



Mounting hole shape can be selected freely.

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