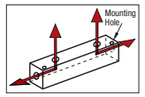
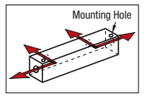
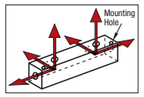
Manifold Blocks (Hydraulic / Pneumatic)

Two-Circuit







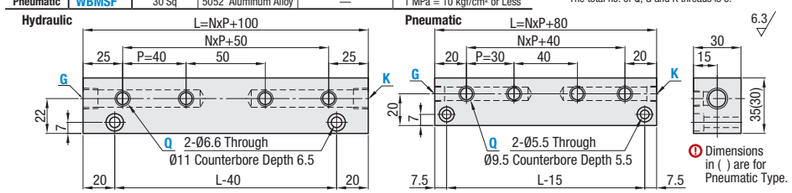
Manifold Blocks – With Two Circuits

RoHS10

Usage	Type	Block Sq	Material	Surface Treatment	Normal Pressure
Hydraulic	WBMBF	30 x 35 Sq	General Structural Steel	Trivalent Chromate	20.6 MPa = 210 kgf/cm² or Less
	WBMBFR		304 Stainless Steel	—	
Pneumatic	WBMSF	30 Sq	5052 Aluminum Alloy	—	1 MPa = 10 kgf/cm² or Less

Thread JIS B0203R (PT)
JIS B0202 G (PF): ISO G228-1 Compatible
ANSI / ASME B.I.20.1-1983 (NPT)

*Drawing when 4 Circuit type is selected.
The total no. of Q, G and K threads is 6.



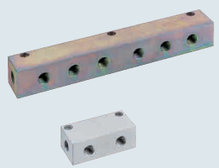
Dimensions in ( ) are for Pneumatic Type.

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	Part Number Circuits	Hydraulic Rc (PT), NPT Q	Hydraulic Rc (PT), NPT G / K	Pneumatic RC (PT), M (Coarse), NPT Q, G & K	No. of Pitches N	Total No. of Q, G & K Threads
WBMBF WBMBFR WBMSF	2	1 (1/8) 2 (1/4) 3 (3/8) 1N (NPT 1/8) 2N (NPT 1/4) 3N (NPT3/8)	2 (1/4) 3 (3/8) 4 (1/2) 2N (NPT 1/4) 3N (NPT3/8) 4N (NPT 1/2)	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT 1/8) 2N (NPT 1/4)	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 ( ). For G (PF) Thread please place an order specified with G- before part number. (Ex: G-WBMBF) For ordering, see the Ordering Example.

Manifold Blocks – With Two Circuits

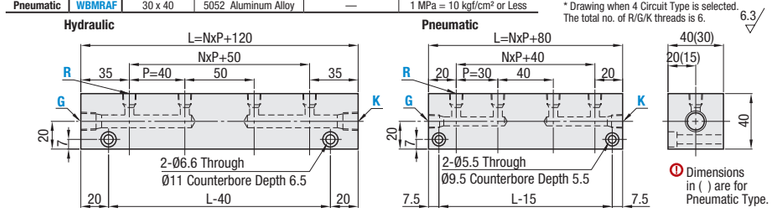


RoHS10

Usage	Type	Block Square	Material	Surface Treatment	Normal Pressure
Hydraulic	WBMRF	40 Square	General Structural Steel	Trivalent Chromate	20.6 MPa = 210 kgf/cm² or Less
Pneumatic	WBMRAF	30 x 40	5052 Aluminum Alloy	—	1 MPa = 10 kgf/cm² or Less

Thread JIS B0203R (PT)
JIS B0202 G(PF):ISO 228-1 Compatible
ANSI/ASME B.I.20.1-1983(NPT)

* Drawing when 4 Circuit Type is selected.
The total no. of R/G/K threads is 6.



Dimensions in ( ) are for Pneumatic Type.

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

Part Number Type	Part Number of Circuits	Hydraulic Rc (PT), NPT R	Hydraulic Rc (PT), NPT G / K	Pneumatic Rc (PT), M (Coarse), NPT R, G & K	No. of Pitches N	Total No. of R, G & K Threads
WBMRF WBMRAF	2	1 (1/8) 2 (1/4) 3 (3/8) 1N (NPT 1/8) 2N (NPT 1/4) 3N (NPT3/8)	2 (1/4) 3 (3/8) 4 (1/2) 2N (NPT 1/4) 3N (NPT3/8) 4N (NPT 1/2)	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT 1/8) 2N (NPT 1/4)	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 ( ). For G (PF) Thread please place an order specified with G- before part number. (Ex: G-WBMRF) For ordering, see the Ordering Example.

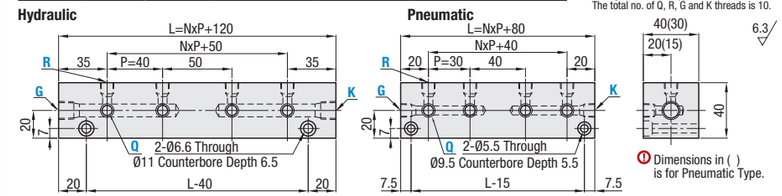
Manifold Blocks – With Two Circuits

RoHS10

Usage	Type	Block Sq	Material	Surface Treatment	Normal Pressure
For Hydraulic	WBMUF	40 Sq	General Structural Steel	Trivalent Chromate	20.6 MPa = 210 kgf/cm² or Less
For Pneumatic	WBMUAF	30 x 40 Sq	5052 Aluminum Alloy	—	1 MPa = 10 kgf/cm² or Less

Thread JIS B0203R (PT)
JIS B0202 G (PF): ISO 228-1 Compatible
ANSI / ASME B.I.20.1-1983 (NPT)

*Drawing for 4 Circuit Type is selected.
The total no. of Q, R, G and K threads is 10.



Dimensions in ( ) is 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	Part Number Circuits	Hydraulic Rc (PT), NPT Q / R	Hydraulic Rc (PT), NPT G / K	Pneumatic RC (PT), M (Coarse), NPT Q, R, G & K	No. of Pitches N	Total No. of Q, R, G & K Threads
WBMUF WBMUAF	2	1 (1/8) 2 (1/4) 3 (3/8) 1N (NPT 1/8) 2N (NPT 1/4) 3N (NPT 3/8)	2 (1/4) 3 (3/8) 4 (1/2) 2N (NPT 1/4) 3N (NPT 3/8) 4N (NPT 1/2)	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT 1/8) 2N (NPT 1/4)	0	6
	4				2	10
	6				4	14

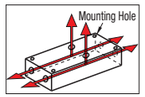
For Q, R, G and K, specify 1, 2, 3, 4, 5, 1N, 2N, 3N or 4N indicated before ( ). For G (PF) Thread please place an order specified with G- before part number. (Ex: G-WBMUF) For ordering, see the Ordering Example.

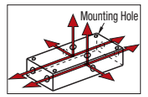
Part Number Example

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)

Two-Row Circuits





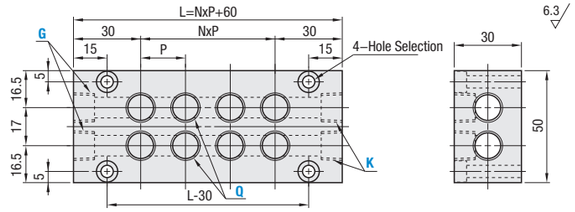
30 x 50 Blocks with Two Circuits

RoHS10

Usage	Type	Material	Surface Treatment	Normal Pressure
Water Hydraulic	BMBWR	304 Stainless Steel	—	20.6 MPa = 210 kgf/cm² or Less
Pneumatic	BMSW	5052 Aluminum Alloy	—	1 MPa = 10 kgf/cm² or Less
	BMSWA		Clear Anodize	

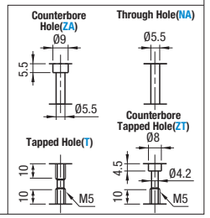
Thread JIS B0203R (PT)
JIS B0202 G (PF): ISO 228-1 Compatible

*Drawing is for when 4-Circuit type is selected.
The total no. of Q, G and K threads is 12.



Mounting hole can be selected.

Mounting Hole Change



Part Number Type	Part Number Mounting Hole Selection	Part Number Circuits	Rc (PT), M (Coarse) Q, G & K	Pitch P	Number of Pitches N	Total No. of Q, G & K Threads
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 ( ). For G (PF) Thread please place an order specified with G- before part number. (Ex: G-BMSW) For ordering, see the Ordering Example.

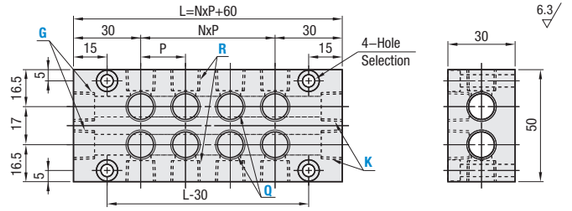
30 x 50 Blocks with Two Circuits

RoHS10

Usage	Type	Material	Surface Treatment	Normal Pressure
Pneumatic	BMUAW	5052 Aluminum Alloy	—	1 MPa ≒ 10 kgf/cm² or Less

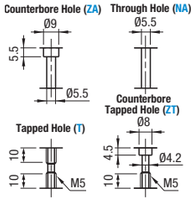
Thread JIS B0203R (PT)
JIS B0202 G (PF): ISO 228-1 Compatible

*Drawing is for when 4-Circuit type selected.
The total no. of Q/R/G/K threads is 20.



Mounting holes can be selected.

Mounting Hole Change



Part Number Type	Part Number Mounting Hole Selection	Part Number Circuits	Rc(PT), M (Coarse) Q, R, G & K	Pitch P	Number of Pitches N	Q, R, G & K Total No. of Threads
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 ( ). For G (PF) Thread please place an order specified with G- before part number. (Ex: G-BMUAW) For ordering, see the Ordering Example.

Part Number Example

Part Number Type	Mounting Hole Options	No. 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)