


Manifold Blocks (Pneumatic) / Aluminum Extrusion Manifolds

Double-Row

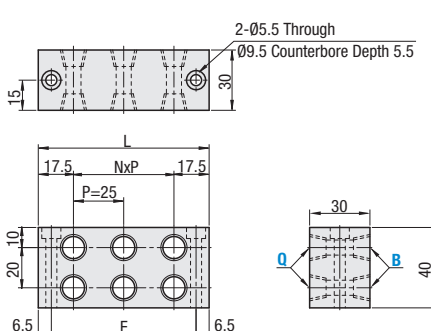


Pneumatic Manifold Block - Double-Row

RoHS 10

Type	Material	Surface Treatment	Normal Pressure
BTAW	5052 Aluminum Alloy	Clear Anodize	1 MPa = 10 kgf/cm ² or Less
BTAWA			

Thread JIS B0203 Rc (PT)
*Drawing is for when 3-Circuit type is selected.



2-Ø5.5 Through
Ø9.5 Counterbore Depth 5.5

6.3/√


Features: Two-stage piping arrangement saves space in the horizontal direction.

Type	Part Number	Rc (PT), M (Coarse)		L	N x P	F	Number of Ports
		Q	B				
BTAW BTAWA	1	5 (M5) 1 (1/8) 2 (1/4)	5 (M5) 1 (1/8) 2 (1/4)	35	0	22	4
	2			60	1 x 25	47	8
	3			85	2 x 25	72	12
	4			110	3 x 25	97	16
	5			135	4 x 25	122	20
	6			160	5 x 25	147	24

⊖ For Q and B, specify 1, 2 or 5 indicated before (). ⊖ Only No. 6 has an additional M5 screw hole at the midpoint of the overall length.

Part Number Example

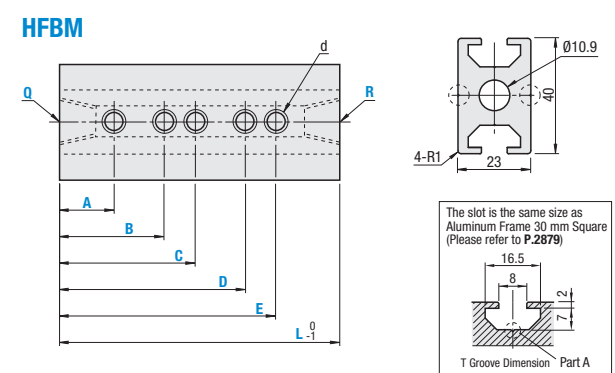
Part Number - Q - B
BTAW2 - Q2 - B2



Aluminum Extrusion Manifolds

RoHS 10

HFBM



⊖ Holes A to E lead to the Ø10.9 hole in the center. However, they do not penetrate to the opposite side.
*When B is appended after A-E, tap is from the opposite direction.

(Ex.) A15
AB15

Material: 6063-T5 Aluminum Alloy
Surface Treatment: Clear Anodize

The slot is the same size as Aluminum Frame 30 mm Square (Please refer to P.2879)


Type	Part Number	No.	H	L	A, B, C, D & E	Q / R	d
			(No. of Holes)	1 mm Increment	1 mm Increment	Rc (PT)	Rc (PT)
HFBM		1	0H-5H	50-1000	5-995*	0 (No Tap)	1/8
		2				2 (1/4)	1/4

*Sum up the number of the machined holes for 1H-5H and A-E, AB-EB. (0H indicates no hole.)

Part Number Example

Part Number - H (No. of Holes) - L - A - B - C - D - E - Q - R
HFBM2 - 5H - 180 - A30 - B60 - C90 - D120 - E150 - Q2 - R2

Rotary Manifolds



Rotary Manifolds

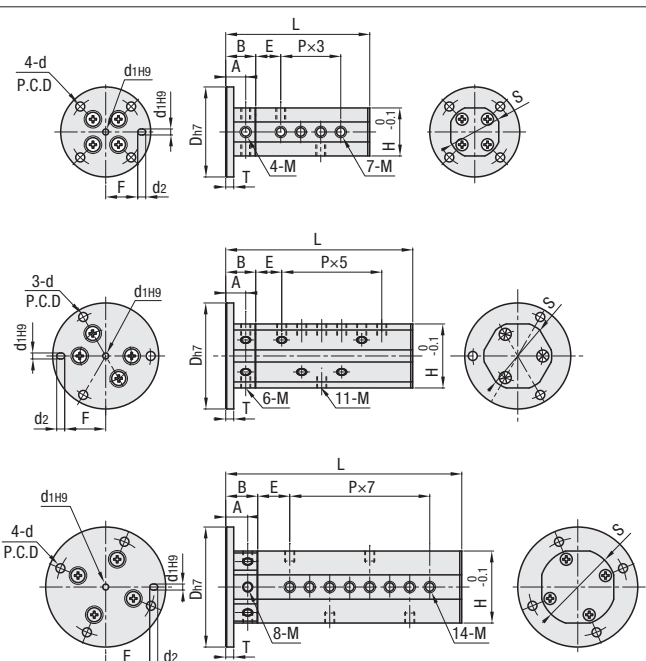
RoHS 10

BMRTN

Number of Outlets: 4

Number of Outlets: 6

Number of Outlets: 8



Part Number	Type	Circuits	Nominal	Thread Size M	L	D _{h7}	T	A	B	E	P	d	P.C.D	d _{1H9}	d ₂	F	H	S	Allowable Rotational Speed (min ⁻¹)	Rotational Torque (N-m)	Minimum Sectional Area (mm ²)	Accessories Plug (Size x Quantity)	Allowable Leak Amount* (cm ³ / min)	Mass (g)
BMRTN	4	1	M5	M5 x 0.8 Depth 5	72	45		10	15	12.5	10		36	3 Depth 3	4	16	24	26	350	0.05	4.9	M5 x 3 pcs.	11	110
			Rc1/8	94	60		12.5	20.5	15.5	13.5	49	22.5	35			38	240	0.07	12.5	R1/8 x 3 pcs.	13	280		
			M5	M5 x 0.8 Depth 5	93.5	53	4	10	15	13	10	4.5	45				20.5	32	34	240	0.12	4.9	M5 x 5 pcs.	13
	6	1	Rc1/8	122.5	70		12.5	20.5	17.5	13.5	58		58	4 Depth 4	5	27	41	44	170	0.17	12.5	R1/8 x 5 pcs.	15	500
			M5	M5 x 0.8 Depth 5	118	60		11	16	16	10	49				22.5	36	38	200	0.2	4.9	M5 x 6 pcs.	15	380
			Rc1/8	156	80	7	16	24	17.5	13.5	5.5	67				31	46	48	140	0.4	12.5	R1/8 x 6 pcs.	16	900

*Allowable leak amount is the value at factory shipment.

Part Number Example

Part Number - Nominal
BMRTN4 - M5

Features

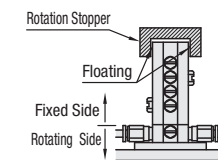
- Can be used for plumbing on rotary parts such as index tables.
- Bearing is embedded to achieve high rigidity and rotation with low friction.
- Seal portion has a low friction seal structure that ensures low leakage.

Precautions for Use

- Use clean air preconditioned with dryer or filter. (Do not use synthetic oil containing chemical and organic solvent, air containing salt and corrosive gas. They cause damage and malfunction.)

Installation Method

- The upper portion of the fixed side should have a rotation stopping measure designed to fit the equipment, and the floating condition should be ensured. Excessive load to the rotating side shaft may cause damages and air leakage.

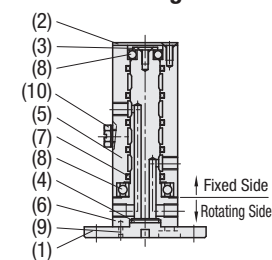


Specification

Applicable Fluid	Oil Free Air
Operating Ambient Temperature	5-60°C
Rotating Angle	Endless
Operating Pressure Range	-100 kPa-0.7 MPa *

*Cannot retain vacuum.

Structure Diagram



No.	Name of Parts	Material
(1)	Mounting Flange	Aluminum Alloy
(2)	Fixed Side Body Cover	Stainless Steel
(3)	Bearing Holder	Stainless Steel
(4)	Gasket	NBR Rubber
(5)	Fixed Side	Aluminum Alloy
(6)	Rotating Side	Aluminum Alloy
(7)	Seal	Nitrile Rubber
(8)	Bearings	Bearing Steel
(9)	Dowel Pin	Bearing Steel
(10)	Plug	M5: Brass R1/8: Stainless Steel

Application Example

