



Multi-Independent port Rotating Manifold (Swivel Joint)

Multi-Circuit Rotary Block

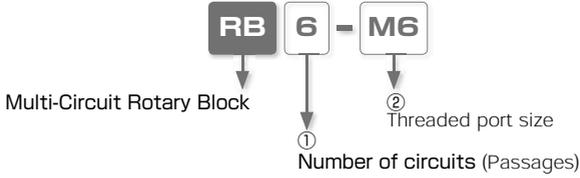
Make to Order

- *Suitable for Low-Speed Rotating Applications like Index Table*
- *Consists of Stationary Input (air-supply) Block and Upper Rotating Output Block with 4, 6 or 8 Independent Air Lines*



Multi-Circuit Rotary Block

Model Designation (Example)



① Number of circuits (Passages)

Code	4	6	8
Circuits	4 circuits	6 circuits	8 circuits

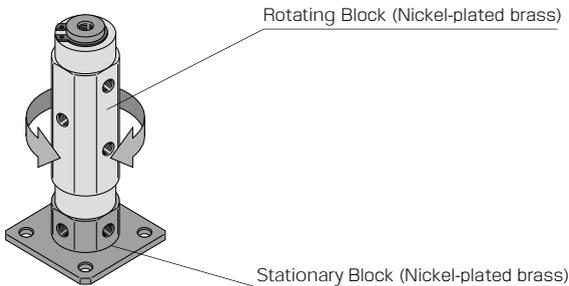
② Threaded port size

Thread size	Metric thread (mm)		Taper pipe thread
Code	M5	M6	O1
Size	M5 × 0.8	M6 × 1	Rc1/8

Specifications

Fluid medium	Air
Max. operating pressure	130psi (0.9MPa)
Max. vacuum	-29.5 inHg (-100kPa)
Operating temp. range	32 ~ 140°F (0 ~ 60°C) (No freezing)

Construction of Multi-Circuit Rotary Block



△ Detailed Safety Instructions

Before using PISCO products, be sure to read "Safety Instructions" and "Safety Instruction Manual" and "Common Safety Instructions for Fittings".

Caution

- When installing Rotary Block on index table, make sure to adjust each axis (concentric of tolerance: max. 0.1mm).
This product does not have any groove to fix the center positioning. Use a dial gauge to fix it. Refer to figure 1.
- This product permits some air leakage. Do not use it for the applications which require no leakage. (tolerance of leakage: positive pressure: under 5cc/min, negative pressure: under -1.33kPa/10min)
- Be careful not to apply excessive radial load to the rotation part by piping forcibly. It may reduce the lifetime or increase the rotary torque force.
- Ambient temperature and fluid temperature including the heat generated by adiabatic compression must be controlled within the range of the specification.
- Rotary torque force in the specification is the value from stable rotation when applying 0.8MPa of air pressure. Pressure change or starting time of the operation may change the rotary torque force. Note that the rotary torque force can be temporarily higher, especially when restarting after a long rest.
- Depending on conditions, this product may not be suitable for use. Consult us.

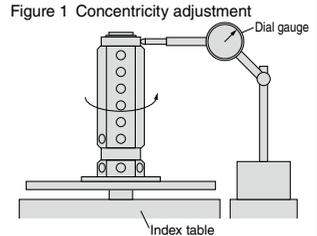


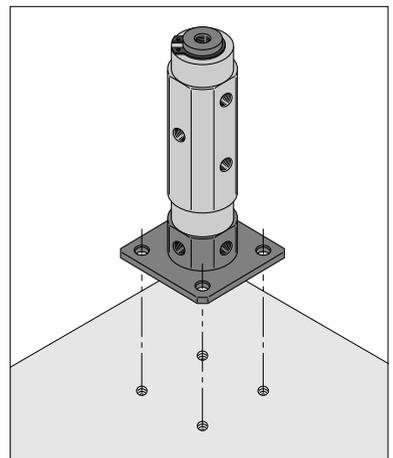
Figure 1 Concentricity adjustment
Before piping, adjust the centering gap between Rotary Block and index table by rotating them together.

■ How to Install Multi-Circuit Rotary Block

To set up Multi-Circuit Rotary Block, make the screw holes on the base side. Refer to the dimension of the screw locations on the catalog. See the following table for screw size.

● Chart

Model code	Installing Screw size
RB 4-M5	M4 or #8
RB 4-01	M5 or #10
RB 6-M5	M5 or #10
RB 6-M6	M5 or #10
RB 8-M5	M4 or #8
RB 8-M6	M4 or #8





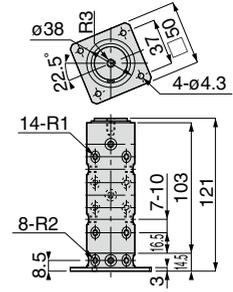
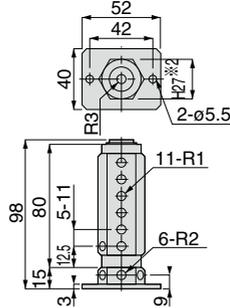
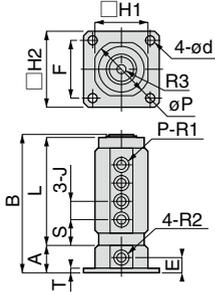
Multi-Circuit Rotary Block

RoHS compliant

RB4-□□

RB6-□□

RB8-□□



Unit : mm

Model code	R1	R2	R3	A	B	L	øP	J	S	E	□H1	□H2	ød	F	P	T
RB 4-M5	M5 × 0.8	M5 × 0.8	M5 × 0.8 depth 6	13	71	55	23	10	12.5	8	21	32	4.5	24	8	2
RB 4-01	Rc1/8	Rc1/8	M6 × 1 depth 10	18.5	91	70	38	12.5	16	10.5	35	50	5.5	38	7	3
RB 6-M5	M5 × 0.8	M5 × 0.8	M5 × 0.8 depth 8	-	-	-	-	-	-	-	-	-	-	-	-	-
RB 6-M6	M6 × 1	M6 × 1	M6 × 1 depth 8	-	-	-	-	-	-	-	-	-	-	-	-	-
RB 8-M5	M5 × 0.8	M5 × 0.8	M6 × 1	-	-	-	-	-	-	-	-	-	-	-	-	-
RB 8-M6	M6 × 1	M6 × 1	depth 10	-	-	-	-	-	-	-	-	-	-	-	-	-

Model code	Weight ^{※1} (g)	Allowable rotation (min ⁻¹)	Rotating torque (N·m)	Effective area (mm ²)		CAD file name
				ø4 Fitting	ø6 Fitting	
RB 4-M5	190	140	0.5	2.6	3.0	TFRB-001
RB 4-01	630	110	0.5	3.1	6.6	
RB 6-M5	460	100	1.0	3.1	3.4	
RB 6-M6	430			3.0	4.7	
RB 8-M5	950	70	1.0	3.3	3.9	
RB 8-M6	940			3.0	5.2	

※ 1. Weight is Multi-Circuit Rotary Block unit only, not including fittings.

※ 2. See ※ 2 on the dimensional drawing. The outside diameter of RB6-M5 is columnar of ø 29mm. Dimension of Stationary Block is the same as RB6-M6.

※ 3. min⁻¹ : rotation per minute