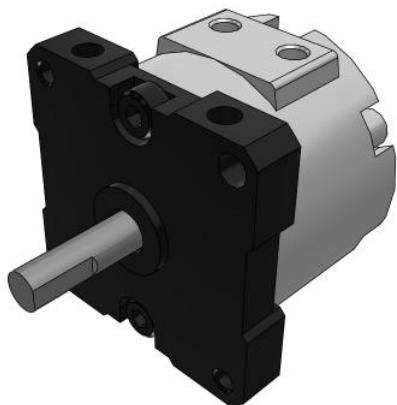


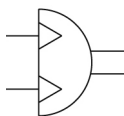


C(D)RBU2*10~40-Z, Rotary Actuator, Free Mount, Vane Type CRBU2S20-90SZ

Datasheet

General series information

- Free mount type.
- 12% weight reduction.
- Possible to move the plate mounting position as desired.
- Many mounting variations.



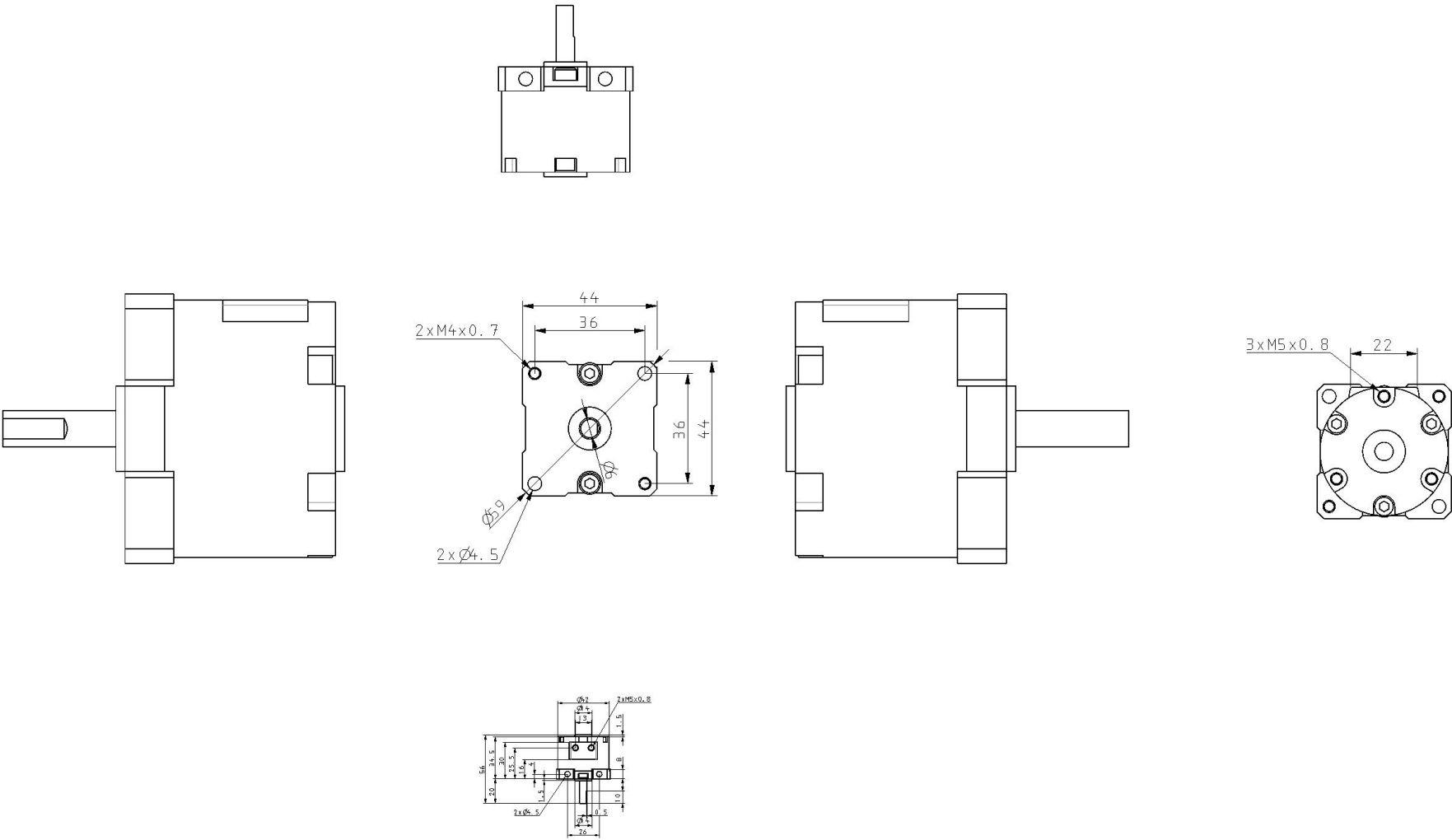
Semi-rotary actuator, double acting

Standard specifications

Magnet	None
Shaft Type	S (Single Shaft with Single Flat)
Size	20 mm
Rotating Angle	90 (90°)
Vane Type	S (Single Vane)
Connecting Port Location	Side Ported
Auto Switch	No Switch
Electrical Entry/Lead Wire Length	0.5m
Number	2 pcs.
Pressure medium	Air (Non-lube)
Maximum temperature of pressure medium	60 °C
Minimum temperature of pressure medium	5 °C
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.15 MPa
Maximum ambient temperature	60 °C
Minimum ambient temperature	5 °C
Number of pneumatic connections	2 pcs.
Pneumatic input connection	M5 x 0.8
Pneumatic exhaust connection	M5 x 0.8

Theoretical cylinder force, advance stroke (at 0.5 MPa)	1.05 N
Geometric form of the piston rod	Single rod
Rotation time adjustment range s/90°	0.03 to 0.3
Shaft load: Allowable radial load	25 N
F118- Shaft-load-thrust	20 N
Weight	0.130 Kg

Dimensions

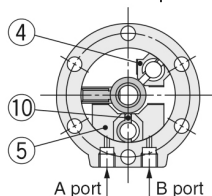


Constructions

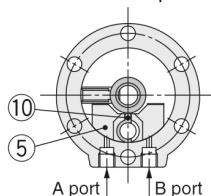
Single vane • Figures for 90° and 180° show the condition of the actuators when B port is pressurised, and the figure for 270° shows the position of the ports during rotation.

Size: 10, 15, 20, 30, 40

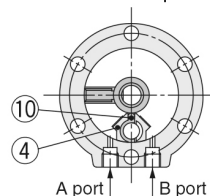
For 90°
(Viewed from the output shaft side)



For 180°
(Viewed from the output shaft side)

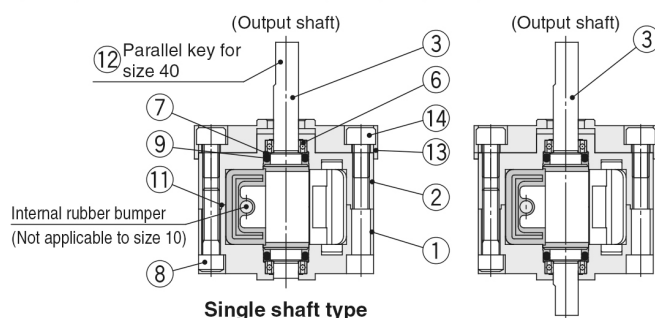


For 270°
(Viewed from the output shaft side)



Component Parts

No.	Description	Material	Note
1	Body (A)	Aluminium alloy	Painted
2	Body (B)	Aluminium alloy	Painted
3	Vane shaft	Stainless steel*1	
4	Stopper	Resin	For 270°
5	Stopper	Resin	For 180°
6	Bearing	Bearing steel	
7	Back-up ring	Stainless steel	
8	Hexagon socket head cap screw	Chrome molybdenum	Special screw
9	O-ring	NBR	
10	Stopper seal	NBR	Special seal
11	O-ring	NBR	Size 40 only
12	Parallel key	Carbon steel	Size 40 only
13	Plate	Aluminium alloy	Anodised



Single shaft type

Double shaft type

*1. The material is chrome molybdenum steel for size 30 and 40.

*2. Hexagon socket flat countersunk head cap screw is used for size 10.

⑬ and ⑭ are shipped with the product for all sizes, and special mounting screws (M3 x 12) are attached for size 10.

Additional information

Catalogue

[CRB2-C_EU.pdf](#)