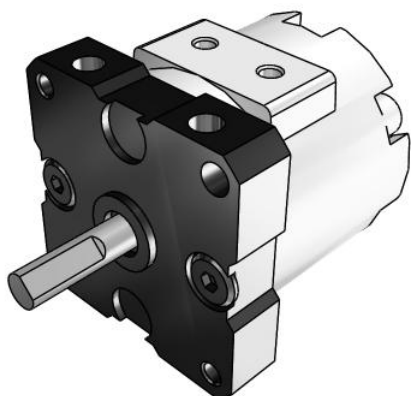


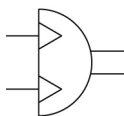


C(D)RBU2*10~40-Z, Rotary Actuator, Free Mount, Vane Type CRBU2S10-90DZ

Datasheet

General series information

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



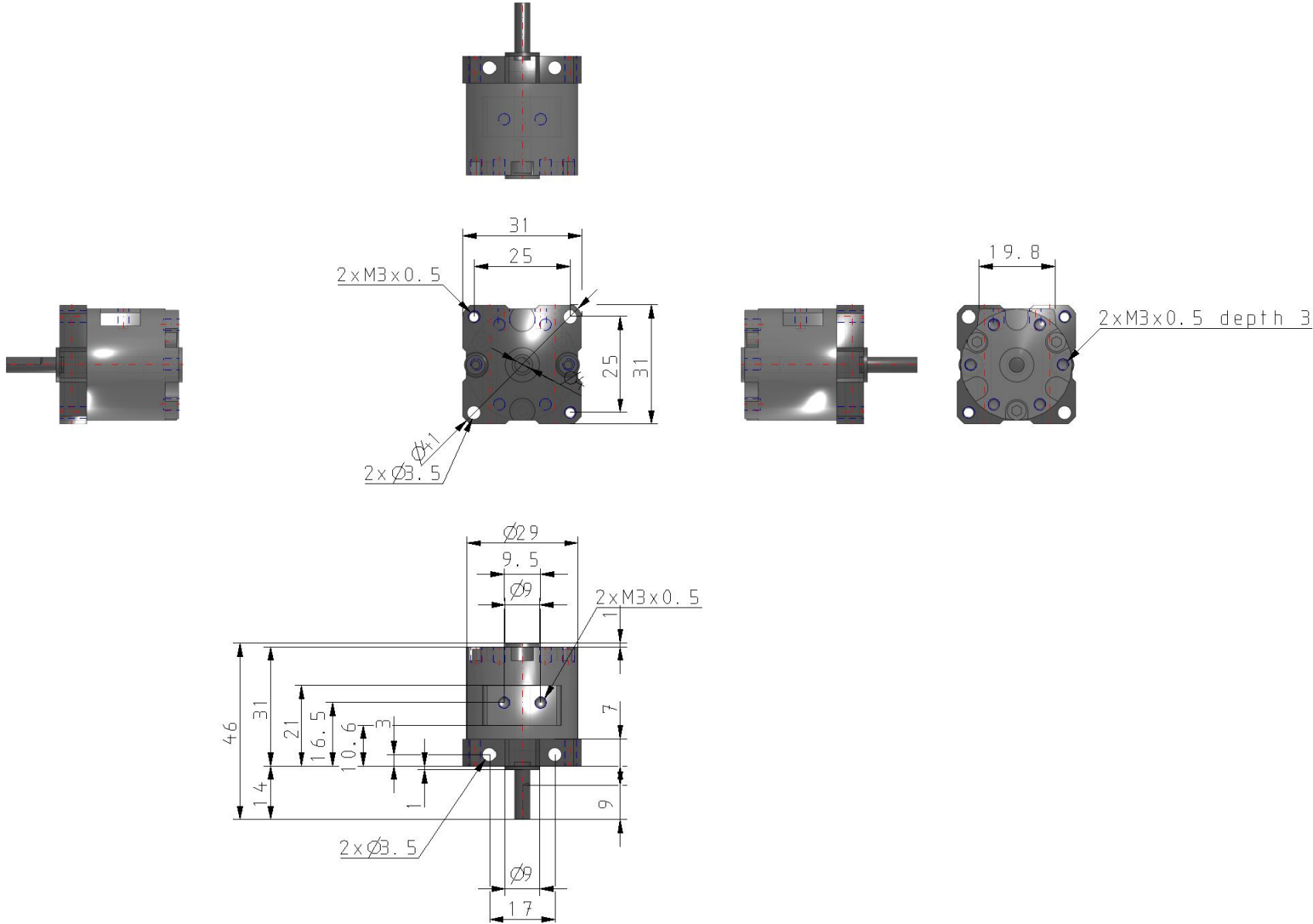
Semi-rotary actuator, double acting

Standard specifications

Magnet	None
Shaft Type	S (Single Shaft with Single Flat)
Size	10 mm
Rotating Angle	90 (90°)
Vane Type	D (Double Vane)
Connecting Port Location	Side Ported
Auto Switch	No Switch
Electrical Entry/Lead Wire Length	0.5 m (Or None in the Case of No Switch)
Number	2 pcs. (Or None in Case of No Switch)
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	0.2 MPa
Maximum ambient temperature	60 °C
Minimum ambient temperature	5 °C
Number of pneumatic connections	2 pcs.
Pneumatic input connection	M3 x 0.5
Pneumatic exhaust connection	M3 x 0.5

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	15 N
F118- Shaft-load-thrust	10 N
Weight	0.042 Kg

Dimensions



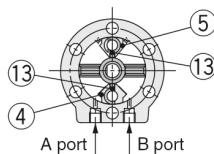
Constructions

Double vane • Figures below show the intermediate rotation position when A or B port is pressurised.

Size: 10

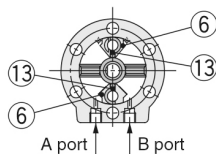
For 90°

(Viewed from the output shaft side)



For 100°

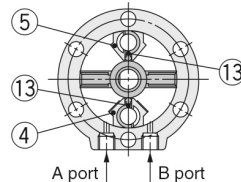
(Viewed from the output shaft side)



Size: 15, 20, 30, 40

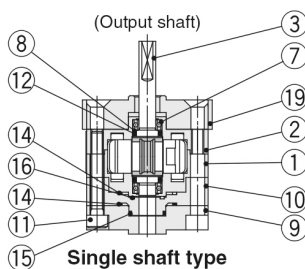
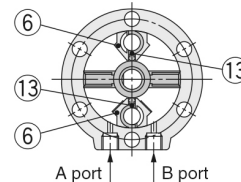
For 90°

(Viewed from the output shaft side)

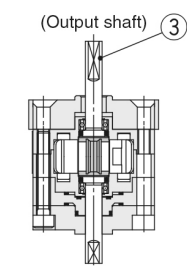


For 100°

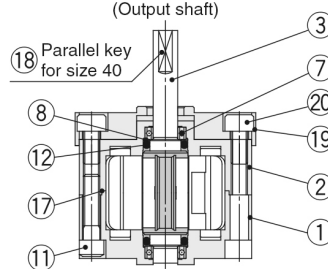
(Viewed from the output shaft side)



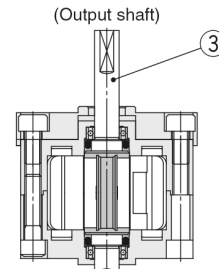
Single shaft type



Double shaft type



Single shaft type



Double shaft type

Component Parts

No.	Description	Material	Note
1	Body (A)	Aluminium alloy	Painted
2	Body (B)	Aluminium alloy	Painted
3	Vane shaft	Chrome molybdenum	
4	Stopper	Stainless steel*1	
5	Stopper	Resin	
6	Stopper	Stainless steel*1	
7	Bearing	Bearing steel	
8	Back-up ring	Stainless steel	
9	Cover	Aluminium alloy	
10	Plate	Resin	

*1. For size 40, material for (4), (6) is aluminum alloy.

*2. Hexagon socket flat countersunk head cap screw is used for size 10. (19) and (20) are shipped with the product for all sizes, and special mounting screws (M3 x 12) are attached for size 10.

No.	Description	Material	Note
11	Hexagon socket head cap screw	Chrome molybdenum	Special screw
12	O-ring	NBR	
13	Stopper seal	NBR	Special seal
14	Gasket	NBR	Special seal
15	O-ring	NBR	
16	O-ring	NBR	
17	O-ring	NBR	Size 40 only
18	Parallel key	Carbon steel	Size 40 only
19	Plate	Aluminium alloy	Anodised
20	Hexagon socket head cap screw*2	Chrome molybdenum	Special screw for size

Additional information

Catalogue

[CRB2-C_EU.pdf](#)