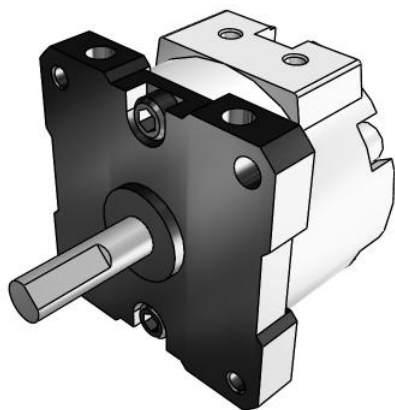


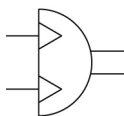


## C(D)RBU2\*10~40-Z, Rotary Actuator, Free Mount, Vane Type CRBU2S15-90DZ

Datasheet

### General Series Information

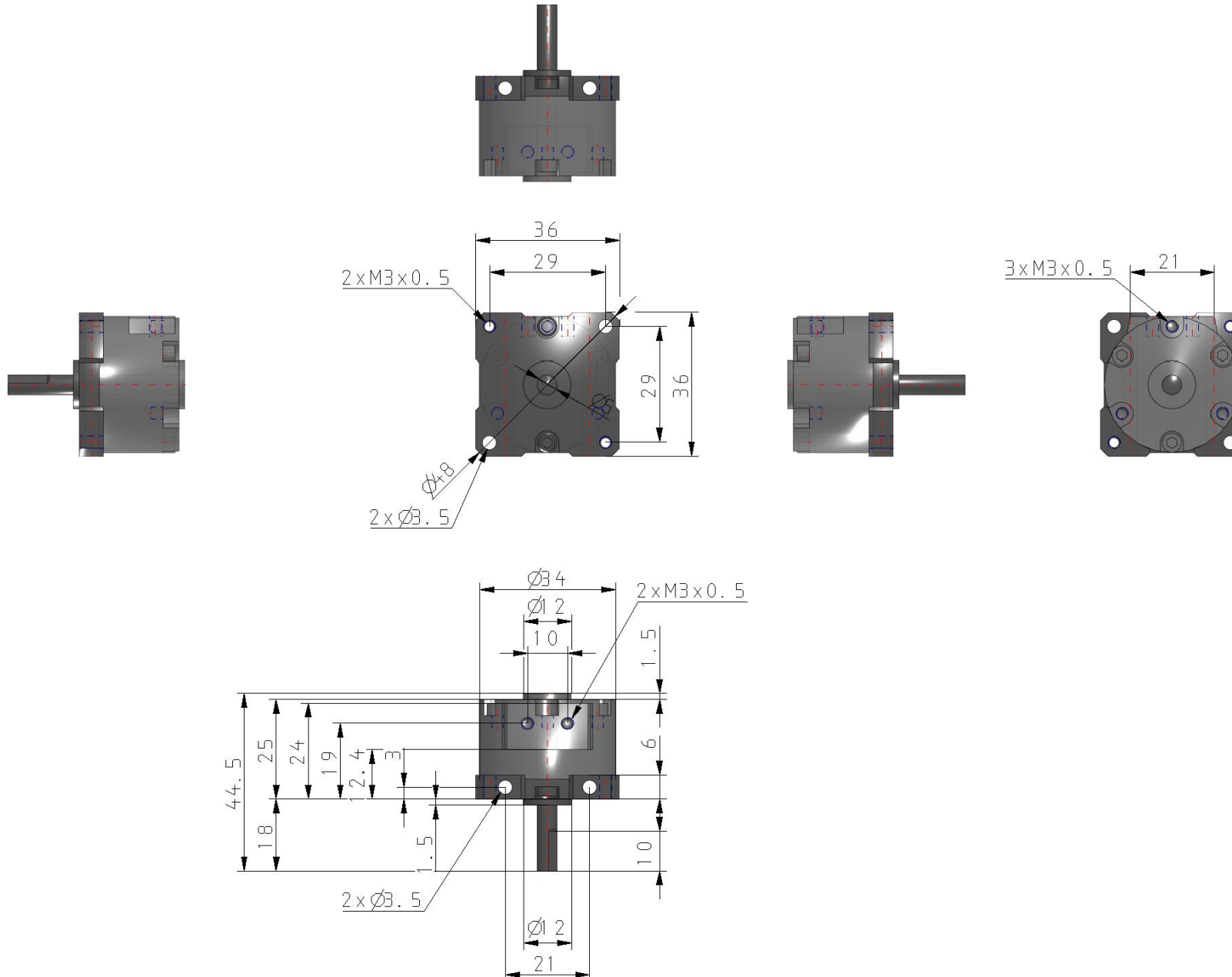
- Free mount type.
- 12% weight reduction.
- Possible to move the plate mounting position as desired.
- Many mounting variations.



*Semi-rotary actuator, double acting*

### Standard specifications

|                                                         |                                   |
|---------------------------------------------------------|-----------------------------------|
| Magnet                                                  | None                              |
| Shaft Type                                              | S (Single Shaft with Single Flat) |
| Size                                                    | 15 mm                             |
| Rotating Angle                                          | 90 (90°)                          |
| Vane Type                                               | D (Double Vane)                   |
| Connecting Port Location                                | Side Ported                       |
| Auto Switch                                             | No Switch                         |
| Electrical Entry/Lead Wire Length                       | 0.5m                              |
| Number                                                  | 2 pcs.                            |
| -                                                       | Air (Non-lube)                    |
| Maximum operating pressure                              | 0.7 MPa                           |
| Minimum operating pressure                              | 0.15 MPa                          |
| 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                            |
| Rotation time adjustment range s/90°                    | 0.03 to 0.3                       |
| Shaft load: Allowable radial load                       | 15 N                              |
| Shaft load: Allowable thrust load                       | 10 N                              |
| Weight                                                  | 0.055 Kg                          |



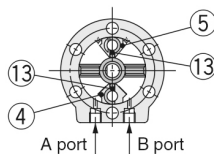
## Constructions

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

**Size: 10**

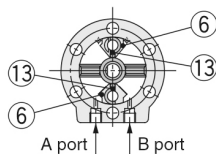
**For 90°**

(Viewed from the output shaft side)



**For 100°**

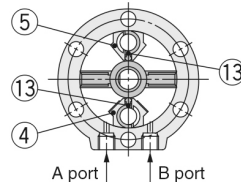
(Viewed from the output shaft side)



**Size: 15, 20, 30, 40**

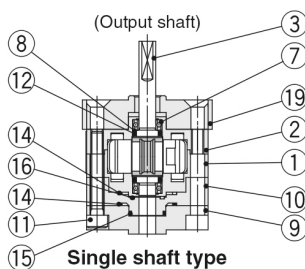
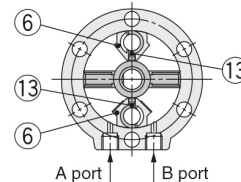
**For 90°**

(Viewed from the output shaft side)

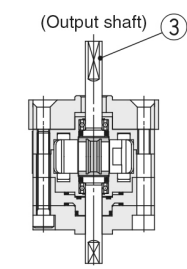


**For 100°**

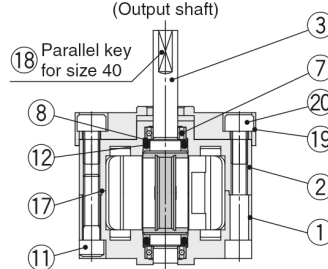
(Viewed from the output shaft side)



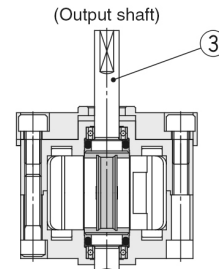
Single shaft type



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 <sup>*1</sup> |         |
| 5   | Stopper      | Resin                         |         |
| 6   | Stopper      | Stainless steel <sup>*1</sup> |         |
| 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 <sup>*2</sup> | Chrome molybdenum | Special screw for size |

## Additional information

Catalogue

[CRB2-C\\_EU.pdf](#)