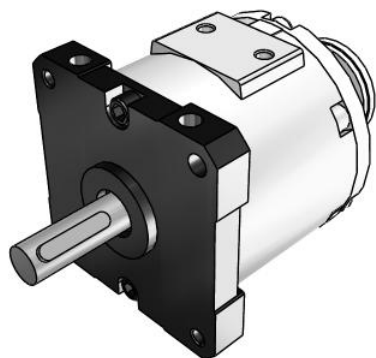
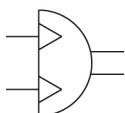




## C(D)RBU2\*10~40-Z, Rotary Actuator, Free Mount, Vane Type CDRBU2W40-90DZ

### Datasheet

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



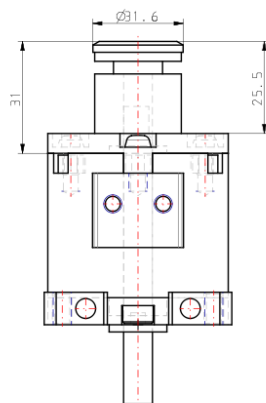
*Semi-rotary actuator, double acting*

### Standard specifications

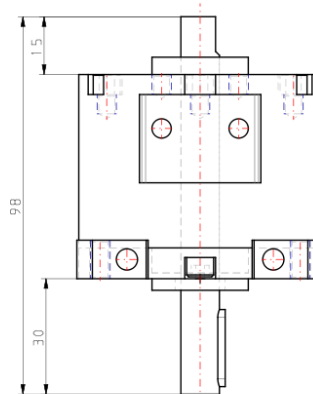
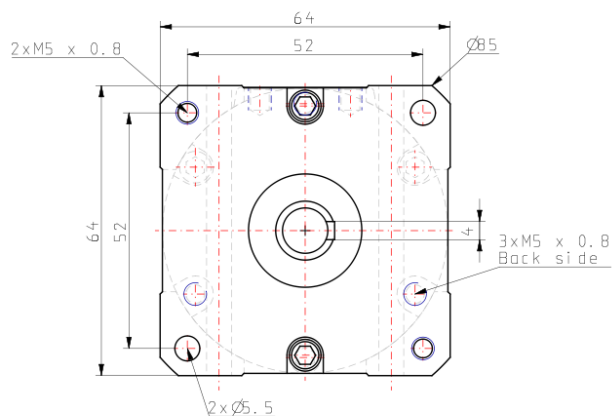
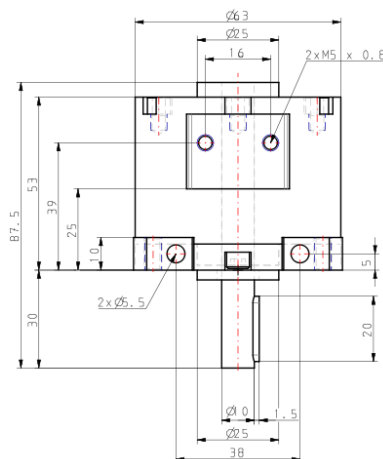
|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Magnet                                 | D (Built-in)                      |
| Shaft Type                             | W (Double Shaft with Single Flat) |
| Size                                   | 40 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.                            |
| Pressure medium                        | Air (Non-lube)                    |
| Maximum temperature of pressure medium | 60 °C                             |
| Minimum temperature of pressure medium | 5 °C                              |
| Maximum operating pressure             | 1.0 MPa                           |
| Minimum operating pressure             | 0.15 MPa                          |
| Maximum ambient temperature            | 60 °C                             |
| Minimum ambient temperature            | 5 °C                              |
| Conform to the European RoHS Directive | Conform                           |
| 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) | 1.5 N       |
| Geometric form of the piston rod                        | Single rod  |
| Rotation time adjustment range s/90°                    | 0.07 to 0.5 |
| Shaft load: Allowable radial load                       | 60 N        |
| Shaft load: Allowable thrust load                       | 40 N        |
| Weight                                                  | 0.521 Kg    |

## Dimensions



Autoswitch detail

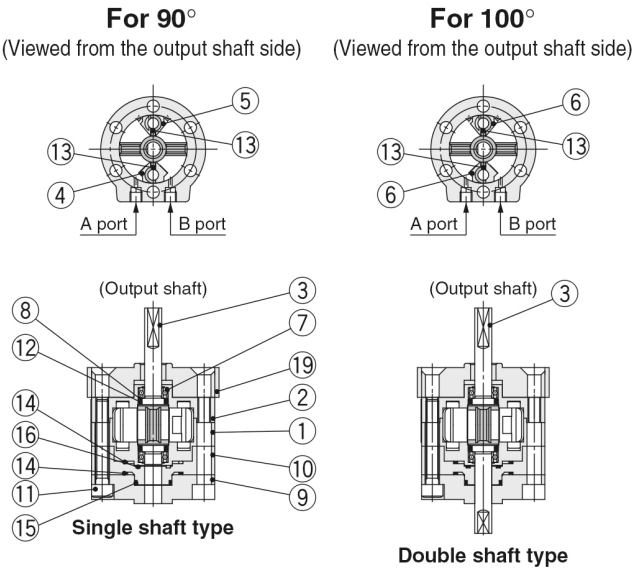


Detail shaft W

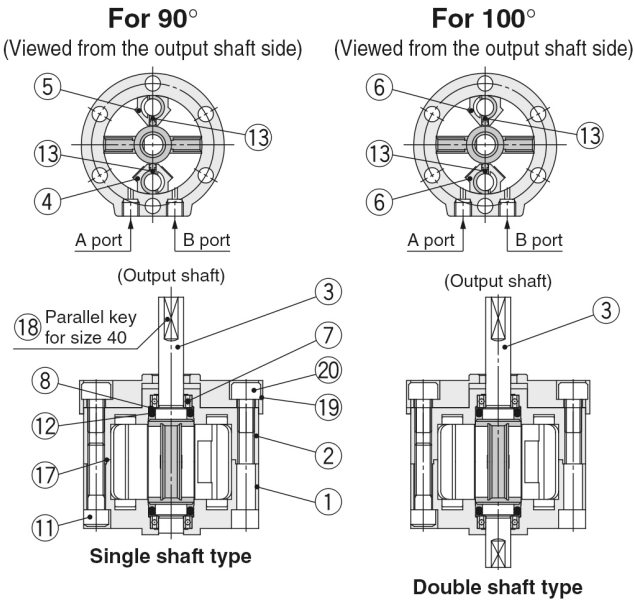
# Constructions

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

**Size: 10**



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



## 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             |         |

| 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 |

\*1. For size 40, material for ④, ⑥ is aluminum alloy.  
 \*2. Hexagon socket flat countersunk head cap screw is used for size 10. ⑱ and ⑳ 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](#)