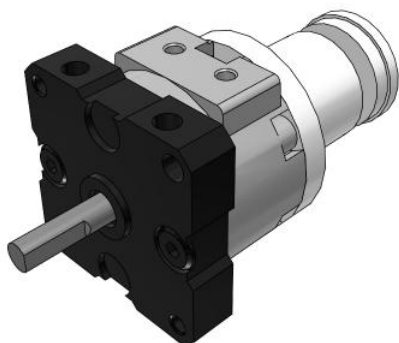
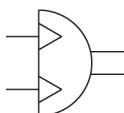




## C(D)RBU2\*10~40-Z, Rotary Actuator, Free Mount, Vane Type CDRBU2W10-180SZ

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



*Semi-rotary actuator, double acting*

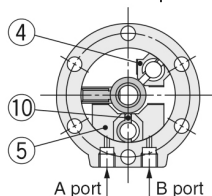
|                                                         |                                   |
|---------------------------------------------------------|-----------------------------------|
| Magnet                                                  | D (Built-in)                      |
| Shaft Type                                              | W (Double Shaft with Single Flat) |
| Size                                                    | 10 mm                             |
| Rotating Angle                                          | 180 (180°)                        |
| Vane Type                                               | S (Single 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                              | 0.2 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                              |



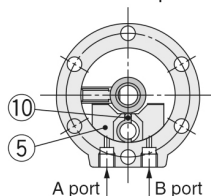
**Single vane** • Figures for 90° and 180° show the condition of the actuators when B port is pressurised, and the figure for 270° shows the position of the ports during rotation.

**Size: 10, 15, 20, 30, 40**

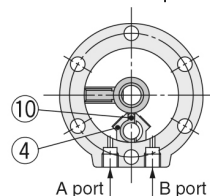
**For 90°**  
(Viewed from the output shaft side)



**For 180°**  
(Viewed from the output shaft side)

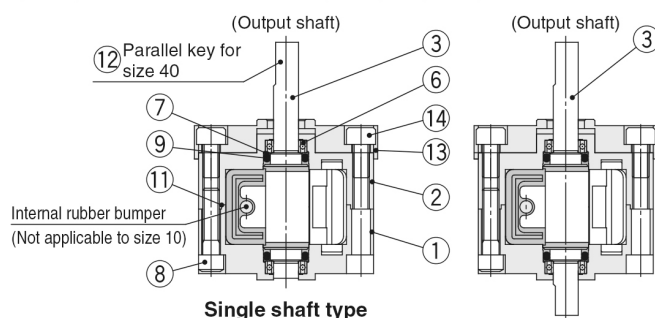


**For 270°**  
(Viewed from the output shaft side)



### 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.

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