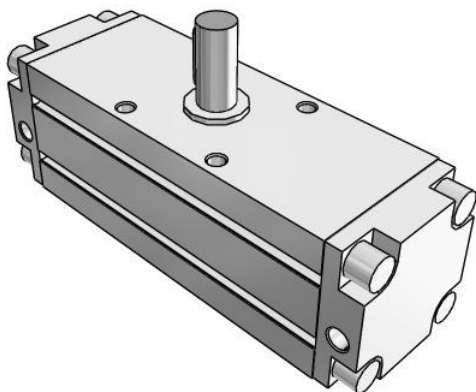


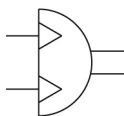


## C(D)RA1-Z\*30-100, Rotary Actuator, Rack & Pinion, Standard CDRA1BW50TF-180Z

Datasheet

### General series information

- Rotary actuator
- Sizes: 30, 50, 63, 80, 100
- Rotating angle: 90°, 100°, 180°, 190°
- Adjustable rotation time range: from 0.2 to 5 s/90°.

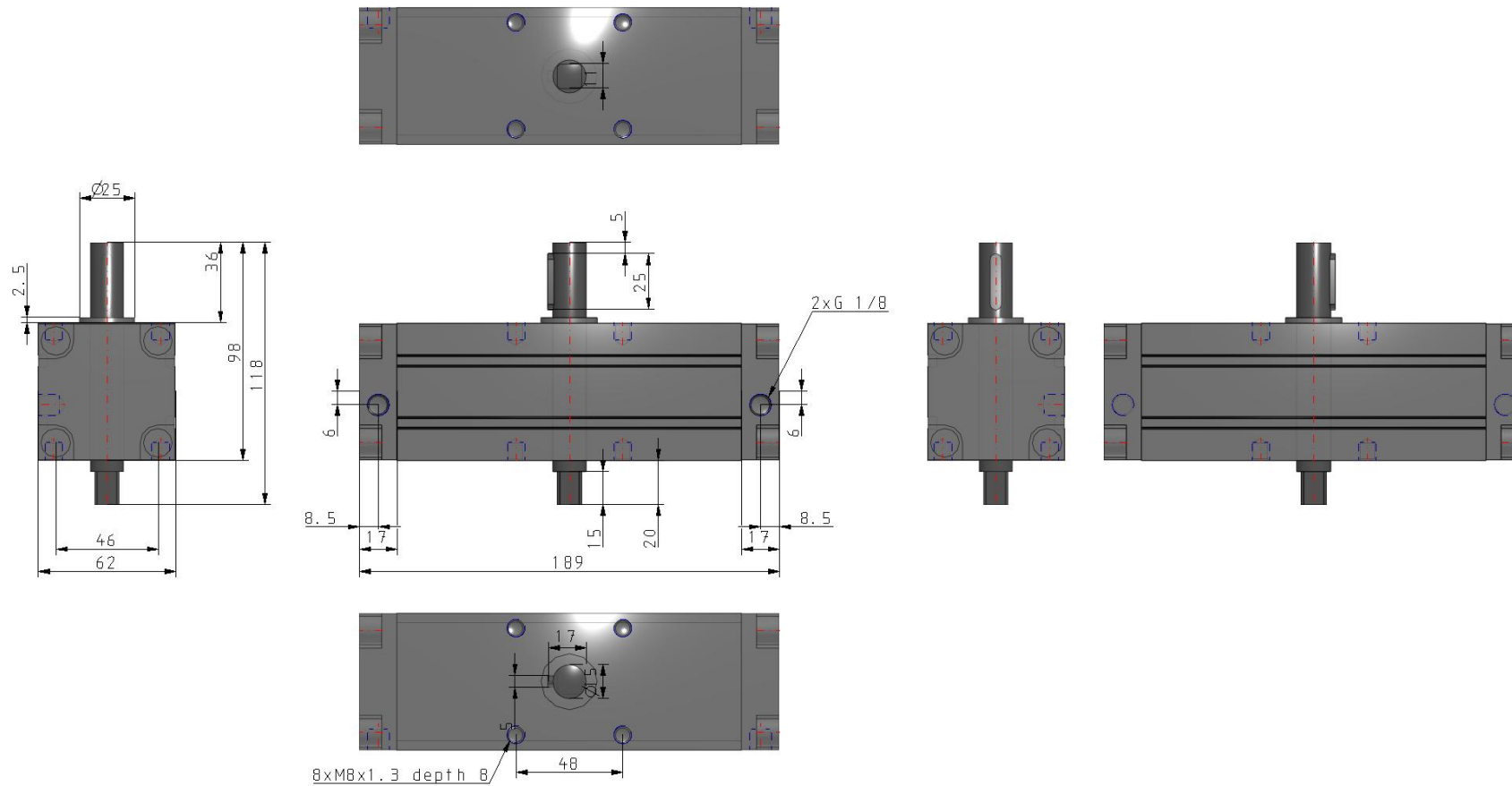


*Semi-rotary actuator, double acting*

### Standard specifications

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Magnet                                 | D (Built-in)                            |
| Mounting                               | B (Basic)                               |
| Shaft Type                             | W (Double Shaft)                        |
| Angle Adjusting Unit                   | None                                    |
| Type                                   | Pneumatic                               |
| Size                                   | 50 mm                                   |
| Port Thread                            | TF (G)                                  |
| Rotation Angle                         | 180°                                    |
| Type of Cushioning                     | None                                    |
| Auto Switch                            | No Switch                               |
| Lead Wire or Prewired Connector        | 0.5m (Or None in the Case of No Switch) |
| Number                                 | 2 pcs.                                  |
| Pressure medium                        | Compressed air (non-lube)               |
| Maximum temperature of pressure medium | 60 °C                                   |
| Minimum temperature of pressure medium | 0 °C                                    |
| Maximum operating pressure             | 1.0 MPa                                 |
| Minimum operating pressure             | 0.1 MPa                                 |
| Maximum ambient temperature            | 60 °C                                   |
| Minimum ambient temperature            | 0 °C                                    |

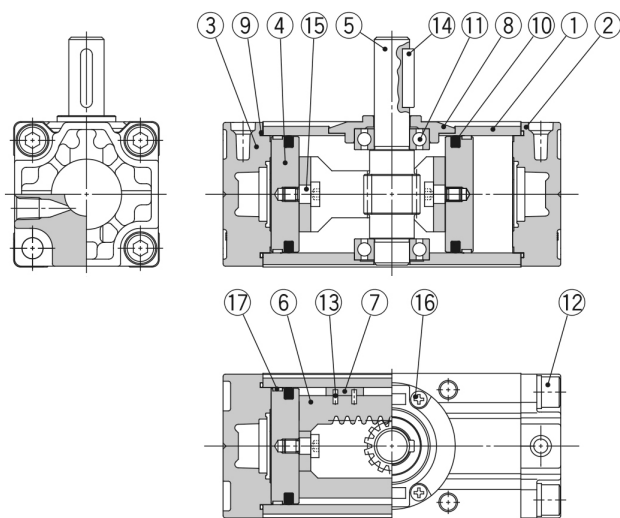
|                                 |               |
|---------------------------------|---------------|
| Number of pneumatic connections | 2 pcs.        |
| Pneumatic pilot connections     | G 1/8         |
| Mode of operation of drive      | Double acting |
| Weight                          | 1.500 Kg      |



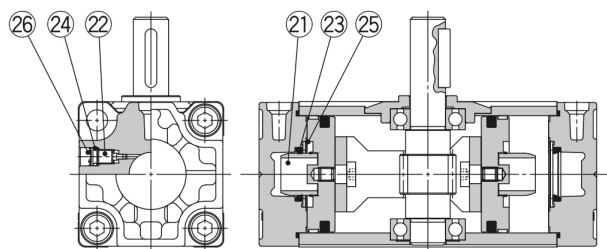
## Constructions

### Construction: Size 50 to 100

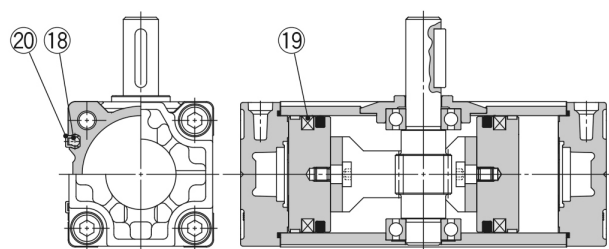
#### Without air cushion



#### With air cushion



#### Without air cushion With auto switch



### Component Parts

| No. | Description                               | Material                         | Note             |
|-----|-------------------------------------------|----------------------------------|------------------|
| 1   | Body                                      | Aluminium alloy                  | Anodised         |
| 2   | Right cover                               | Aluminium alloy                  | Metallic coating |
| 3   | Left cover                                | Aluminium alloy                  | Metallic coating |
| 4   | Piston                                    | Aluminium alloy                  |                  |
| 5   | Shaft                                     | Alloy steel                      |                  |
| 6   | Rack                                      | Carbon steel                     | Nitrided         |
| 7   | Slider                                    | Resin                            |                  |
| 8   | Bearing retainer                          | Aluminium alloy                  | Chromated        |
| 9   | Tube gasket                               | NBR                              |                  |
| 10  | Piston seal                               | NBR                              |                  |
| 11  | Bearing                                   | High carbon chrome bearing steel |                  |
| 12  | Hexagon socket head cap screw with washer | Alloy steel                      | Zinc chromated   |
| 13  | Spring pin                                | Steel                            | Zinc chromated   |
| 14  | Parallel key                              | Carbon steel                     |                  |
| 15  | Connecting screw                          | Carbon steel                     | Zinc chromated   |
| 16  | Cross-recessed pan head tapping screw     | Steel                            | Zinc chromated   |
| 17  | Wear ring                                 | Resin                            |                  |
| 18  | Auto switch                               | —                                |                  |
| 19  | Magnet                                    | —                                |                  |
| 20  | Switch spacer                             | Resin                            |                  |
| 21  | Cushion ring                              | Aluminium alloy                  | Anodised         |
| 22  | Cushion valve                             | Steel                            | Zinc chromated   |
| 23  | Cushion seal                              | Urethane                         |                  |
| 24  | O-ring                                    | NBR                              |                  |
| 25  | Seal retainer                             | Steel                            |                  |
| 26  | Retaining ring                            | Steel                            |                  |

## Additional information

Catalogue

[CRA1-C-Z\\_EU.pdf](#)

Operation manuals

[OM\\_CRA1-Z\\_OM00006EN-E.pdf](#)