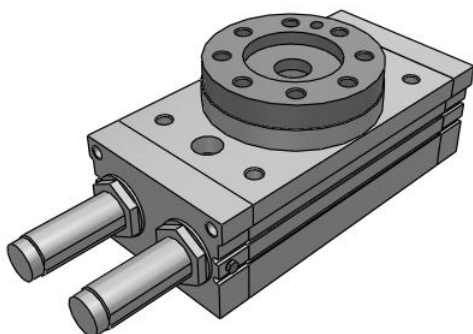


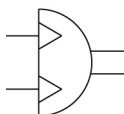


## MSQ\*10~200, Rotary Table, Rack & Pinion, Basic & High Precision MSQB200R

Datasheet

### General series information

- Rack & Pinion style, rotary table-basic type
- Seven bore sizes available
- Direct load mounting possible
- Adjustment from one direction
- Auto switch capable

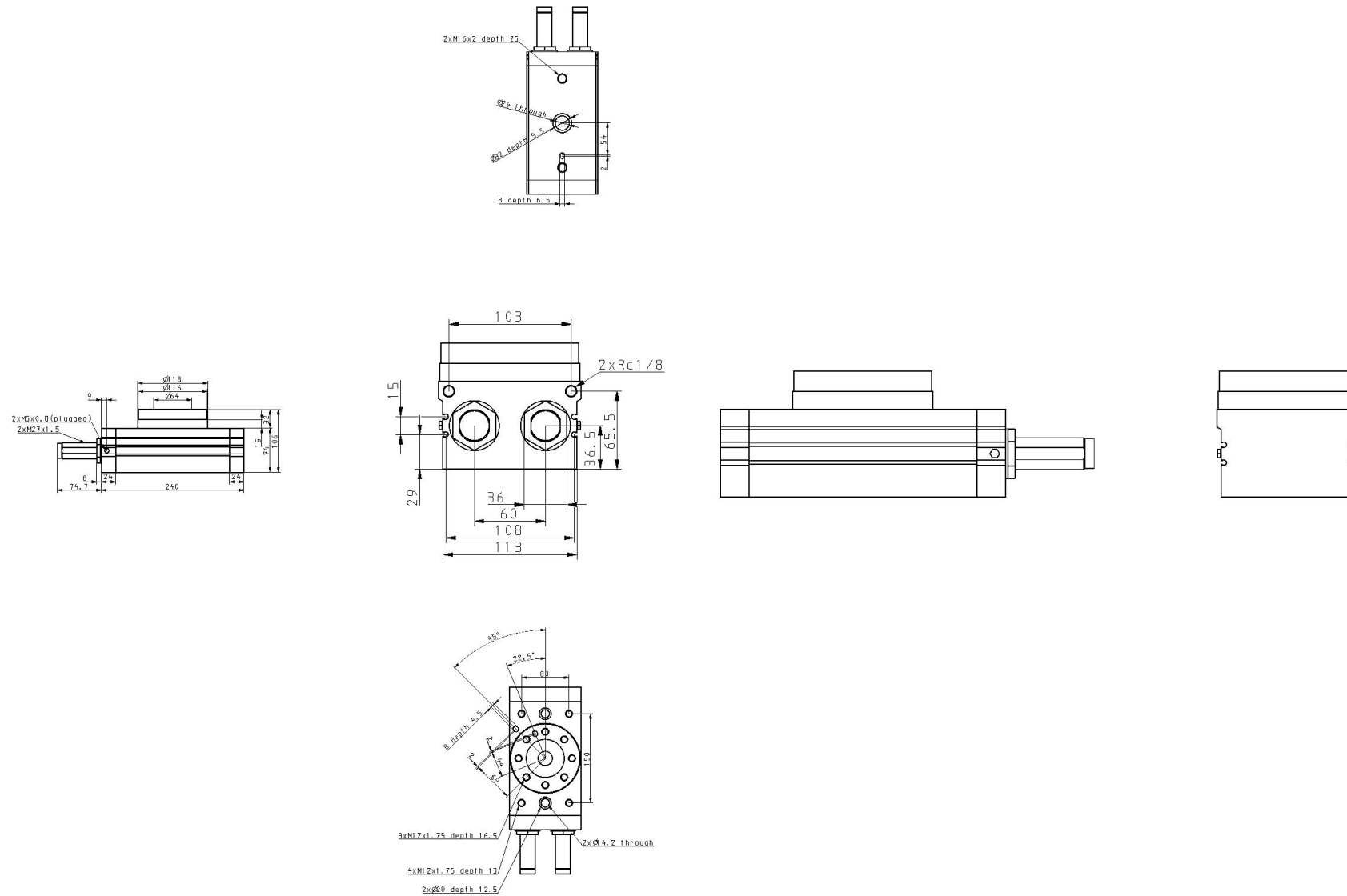


*Semi-rotary actuator, double acting*

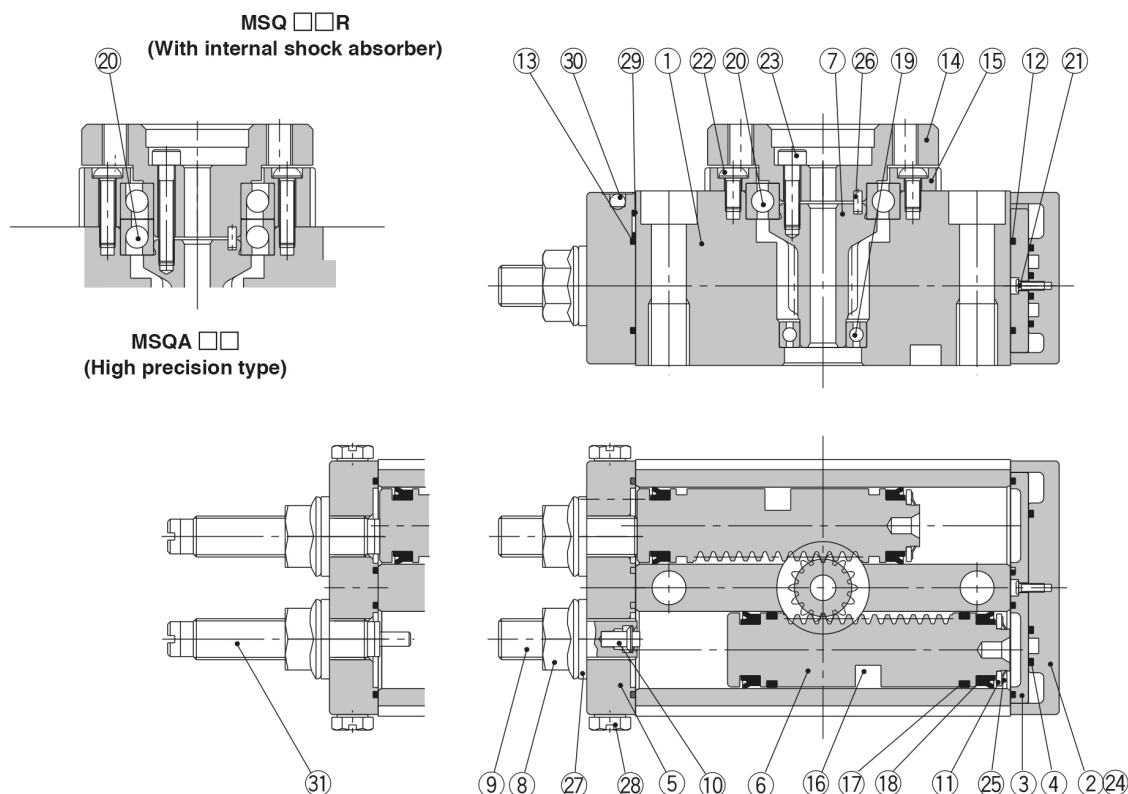
### Standard specifications

|                                        |                                           |
|----------------------------------------|-------------------------------------------|
| Clean Series                           | None                                      |
| Model                                  | MSQ                                       |
| Precision                              | B (Basic)                                 |
| Size                                   | 200                                       |
| Suffix                                 | R (Shock Absorbers)                       |
| Auto Switch                            | No Switch                                 |
| Lead Wire or Prewired Connector        | 0.5m [Or None in the Case of No Switch]   |
| Number                                 | 2 pcs. [Or None in the Case of No Switch] |
| Thread Type                            | M5 [10,20]; Rc 1/8 [30,50,70,100,200]     |
| Pressure medium                        | Compressed air (non-lube)                 |
| Maximum temperature of pressure medium | 60 °C                                     |
| Minimum temperature of pressure medium | 0 °C                                      |
| Maximum operating pressure             | 0.6 MPa                                   |
| Minimum operating pressure             | 0.1 MPa                                   |
| Maximum ambient temperature            | 60 °C                                     |
| Minimum ambient temperature            | 0 °C                                      |
| Number of pneumatic connections        | 4 pcs.                                    |
| Pneumatic input connection             | R 1/8                                     |

|                            |                |
|----------------------------|----------------|
| Mode of operation of drive | Double acting  |
| Type of cushioning         | Shock absorber |
| -                          | 0° to 190°     |
| Weight                     | 7.500 Kg       |



## Constructions



### Parts list

| No. | Description             |                 | Material                |
|-----|-------------------------|-----------------|-------------------------|
| 1   | Body                    |                 | Aluminium alloy         |
| 2   | Cover                   |                 | Aluminium alloy         |
| 3   | Plate                   |                 | Aluminium alloy         |
| 4   | Seal                    |                 | NBR                     |
| 5   | End cover               |                 | Aluminium alloy         |
| 6   | Piston                  |                 | Stainless steel         |
| 7   | Pinion                  |                 | Chrome molybdenum steel |
| 8   | Hexagon nut with flange | Size: 10 to 50  | Steel wire              |
|     | Hexagon nut             | Size: 70 to 200 |                         |
| 9   | Adjustment bolt         |                 | Chrome molybdenum steel |
| 10  | Cushion pad             |                 | Rubber material         |
| 11  | Seal retainer           |                 | Aluminium alloy         |
| 12  | Gasket                  |                 | NBR                     |
| 13  | Gasket                  |                 | NBR                     |
| 14  | Table                   |                 | Aluminium alloy         |
| 15  | Bearing retainer        |                 | Aluminium alloy         |
| 16  | Magnet                  |                 | Magnetic material       |
| 17  | Wear ring               |                 | Resin                   |
| 18  | Piston seal             |                 | NBR                     |

| No. | Description                   |                      | Material                |
|-----|-------------------------------|----------------------|-------------------------|
| 19  | Deep groove ball bearing      | Size: 10 to 50       | Bearing steel           |
|     | Needle bearing                | Size: 70 to 200      |                         |
| 20  | Deep groove ball bearing      | Basic type           | Bearing steel           |
|     | Angular contact ball bearing  | High precision type  |                         |
| 21  | Round head philips screw No.0 |                      | Steel wire              |
| 22  | Round head philips screw      | Size: 10             | Stainless steel         |
|     | Low head cap screw            | Size: 20 to 50       |                         |
| 23  | Hexagon socket head set bolt  | Size: 70 to 200      | Chrome molybdenum steel |
|     | Hexagon socket head set bolt  | Size: 70 to 200      |                         |
| 24  | Hexagon socket head set bolt  | Size: 10 to 50       | Stainless steel         |
| 25  | CS type snap ring             | Size: 70 to 200      | Spring steel            |
|     | Parallel pin                  | Size: 10 to 50       |                         |
| 26  | Parallel pin                  | Size: 70 to 200      | Carbon steel            |
|     | Parallel key                  | Size: 70 to 200      |                         |
| 27  | Seal washer                   |                      | NBR                     |
| 28  | Plug                          |                      | Brass                   |
| 29  | O-ring                        | Size: 70 to 200 only | NBR                     |
| 30  | Steel balls                   | Size: 70 to 200 only | Stainless steel         |
| 31  | Shock absorber                |                      | —                       |

### Replacement parts

| Description | Kit no.  |          |          |          |          |           |           | Note                                                        |
|-------------|----------|----------|----------|----------|----------|-----------|-----------|-------------------------------------------------------------|
|             | 10       | 20       | 30       | 50       | 70       | 100       | 200       |                                                             |
| Seal kit    | KT-MSQ10 | KT-MSQ20 | KT-MSQ30 | KT-MSQ50 | KT-MSQ70 | KT-MSQ100 | KT-MSQ200 | A set of above numbers (4), (12), (13), (17), (18) and (27) |

## Additional information

Catalogue

[MSQ\\_EU.pdf](#)