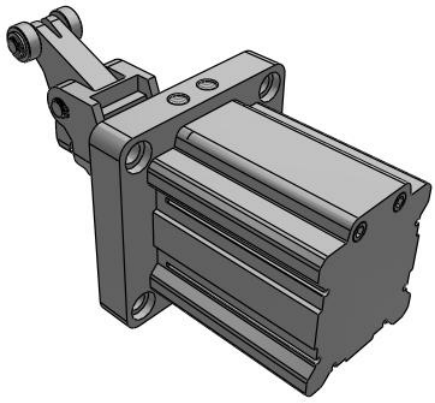
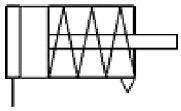


# RS2H, Heavy Duty Stopper Cylinder
## RS2H80TF-40BL-D

Datasheet

## General series information

- Heavy duty stopper cylinder
- Bore sizes (mm): 50, 63, 80
- Piping available from 2 directions
- Mounting type: flange
- Variety of options available



*Single acting cylinder / Retracted / Return by spring*

## Standard specifications

| | |
|---|---|
| Bore Size | 80 mm |
| Port Thread | TF (G Thread) |
| Piping | Flange Side |
| Stroke | 40mm (RS2H80) |
| Action | B (Double Acting with Spring) |
| Roller Material | L (Resin) |
| Option | D (Locking Mechanism) |
| Port and Lever Position | 0° |
| Shock Absorber | Standard |
| Auto Switch | No Switch |
| Lead Wire or Pre-wired Connector | 0.5 m (Or None in the Case of No Switch) |
| Number | 2 pcs. (Or None in the Case of No Switch) |
| Made to Order | Standard |
| Maximum operating pressure | 1 MPa |
| Proof pressure | 1.5 MPa |
| Maximum ambient temperature | 60 ºC |
| Minimum ambient temperature | -10 ºC (No freezing) |
| Conform to the European RoHS Directive | Conform |

*Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.*



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| | |
|---|---|
| Type of cushioning | Rubber bumper |
| Port size | 1/4 |
| Lubrication | Non Lube |
| Stroke length tolerance | ± 0 ~ 1.4 mm |
| F450 - Mounting | Flange |
| Action | Double acting with spring loaded |
| Weight | 6.000 Kg |

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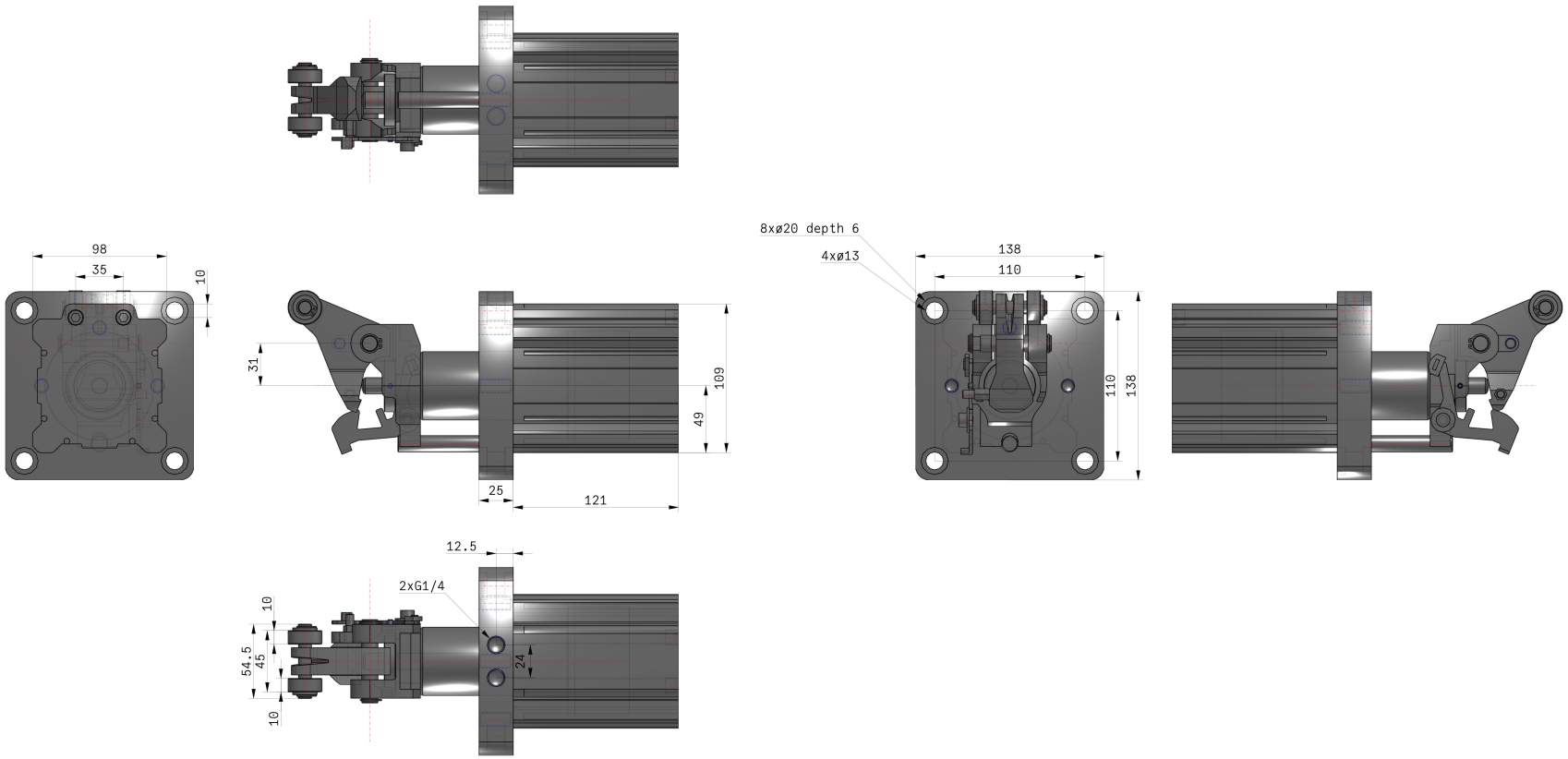
# Dimensions

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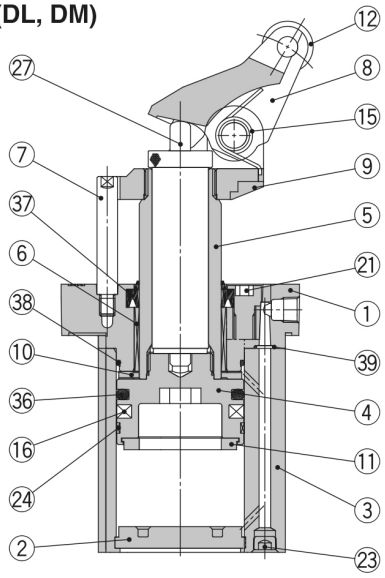
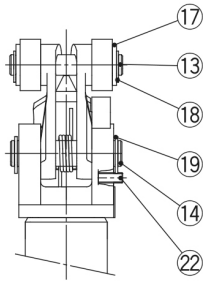
# Constructions

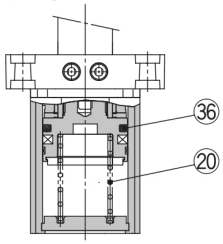
## Construction

### Double acting (DL, DM)

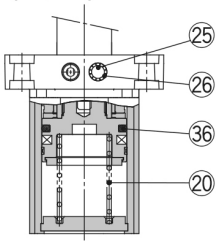



### Double acting spring type (BL, BM)

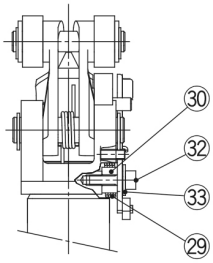


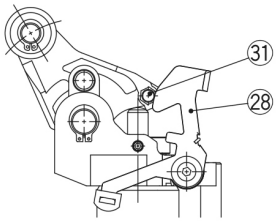

### Single acting (TL, TM)



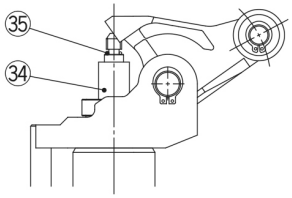

### Options (With lock mechanism and cancel cap)

With lock mechanism (-D)




When cancel cap is used (-C)




### Component Parts

| No. | Description | Material | Note |
|---|---|---|---|
| 1 | **Rod cover** | Aluminum alloy | Metallic painted |
| 2 | **Bottom plate** | Aluminum alloy | Hard anodized |
| 3 | **Cylinder tube** | Aluminum alloy | Hard anodized |
| 4 | **Piston** | Aluminum alloy | Chromated |
| 5 | **Piston rod** | Carbon steel | Hard chrome plated |
| 6 | **Bushing** | Bearing alloy | |
| 7 | **Guide rod** | Carbon Steel | Hard chrome plated |
| 8 | **Lever** | Cast iron | Zinc chromated |
| 9 | **Lever holder** | Cast iron | Zinc chromated |
| 10 | **Bumper A** | Urethane | |
| 11 | **Bumper B** | Urethane | |
| 12 | **Roller** | Resin | -□□L |
| | | Carbon steel | -□□M |
| 13 | **Roller pin** | Carbon steel | |
| 14 | **Lever pin** | Carbon steel | |
| 15 | **Lever spring** | Steel wire | |
| 16 | **Magnet** | — | |
| 17 | **Flat washer** | Steel wire | Zinc chromated |
| 18 | Type C retaining ring for shaft | Carbon tool steel | |
| 19 | Type C retaining ring for shaft | Carbon tool steel | |
| 20 | **Return spring** | Steel wire | -T□/-B□ |
| 21 | Hexagon socket head cap screw | Chrome molybdenum steel | Zinc chromated |
| 22 | Hexagon socket head set screw | Chrome molybdenum steel | Zinc chromated |
| 23 | Hexagon socket head plug | Carbon steel | Zinc chromated |
| 24 | **Wear ring** | Resin | |
| 25 | **Element** | Bronze | -□TL/-□TM |
| 26 | **Retaining ring** | Carbon tool steel | -□TL/-□TM |
| 27 | **Shock absorber** | — | |
| 28 | **Bracket assembly** | Carbon steel | Used for -D (Lock type) |

### Component Parts

| No. | Description | Material | Note |
|---|---|---|---|
| 29 | **Bracket spring** | Steel wire | Used for -D (Lock type) |
| 30 | **Bracket spacer** | Carbon steel | Used for -D (Lock type) |
| 31 | **Lock pin** | Carbon steel | Used for -D (Lock type) |
| 32 | Hexagon socket head cap screw | Chrome molybdenum steel | Used for -D (Lock type) |
| 33 | **Flat washer** | Carbon steel | Used for -D (Lock type) |
| 34 | **Cancel cap** | Aluminum alloy | Used for -C (Cancel cap type) |
| 35 | **O-ring** | NBR | Used for -C (Cancel cap type) |
| 36 | **Piston seal** | NBR | |
| 37 | **Rod seal** | NBR | |
| 38 | **Tube gasket** | NBR | |
| 39 | **O-ring** | NBR | |

### Replacement Parts/Seal Kit

| Bore size (mm) | Kit no. | | | Contents |
|---|---|---|---|---|
| | Double acting | Double acting spring type | Single acting | |
| **50** | RS2H50D-PS | RS2H50T-PS | | Set of nos. above ㊱ to ㊴ (excluding ㊲) |
| **63** | RS2H63D-PS | RS2H63T-PS | | |
| **80** | RS2H80D-PS | RS2H80T-PS | | |

∗Seal kit includes ㊱ to ㊴ (excluding ㊲).
Order the seal kit based on each bore size.
∗Since the seal kit does not include a grease pack, order it separately.
**Grease pack part no.: GR-S-010** (10 g)

### Replacement Parts/Shock Absorber

| Bore size (mm) | Order no. |
|---|---|
| **50** | RS2H-R50 |
| **63** | RS2H-R63 |
| **80** | RS2H-R80 |

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## Additional information

| | |
|---|---|
| Catalogue | RS2H-A_EU.pdf |
| Operation manuals | OM_RS2H_OM0012PEN-B.pdf |

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