

# Semi-rotary drive DAPS-0030-090-RS2-F0305-CR

Part number: 552880

**FESTO**



## Data sheet

| Feature                                      | Value  |
|--|--|
| Size of valve actuator                       | 0030   |
| Flange hole pattern                          | F03<br>F05   |
| Swivel angle                                 | 90 deg   |
| Shaft connection depth                       | 12.1 mm  |
| Fitting connection conforms to standard      | ISO 5211   |
| Cushioning                                   | No cushioning  |
| Mounting position                            | optional   |
| Mode of operation                            | Single-acting  |
| Design                                       | Scotch yoke system   |
| Position detection                           | Without  |
| Closing direction                            | Closes to the right  |
| Valve connection conforms to standard        | VDI/VDE 3845 (NAMUR)   |
| Safety Integrity Level (SIL)                 | Up to SIL 2 High Demand mode<br>To SIL 2 Low Demand mode           |
| Supply pressure for spring strength          | 0.35 MPa<br>3.5 bar  |
| Operating pressure                           | 0.35 MPa...0.84 MPa<br>3.5 bar...8.4 bar                           |
| Nominal operating pressure                   | 0.56 MPa<br>5.6 bar  |
| CE mark (see declaration of conformity)      | To EU Explosion Protection Directive (ATEX)                        |
| UKCA marking (see declaration of conformity) | To UK EX instructions  |
| Explosion protection                         | Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 22 (ATEX) |
| Certificate issuing authority                | German Technical Control Board North (TÜV Nord) 212170801          |
| ATEX category gas                            | II 2G  |
| ATEX category dust                           | II 2D  |
| Explosion ignition protection type for gas   | Ex h IIC T6...T3 Gb X  |
| Explosion ignition protection type for dust  | Ex h IIIC T85°C...T200°C Db X                                      |
| Explosion ambient temperature                | -20°C ≤ Ta ≤ +60°C   |
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:4:4]                          |

| Feature   | Value  |
|---|--|
| Note on operating and pilot medium  | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC  | 3 - high corrosion stress  |
| LABS (PWIS) conformity  | VDMA24364-B1/B2-L  |
| Ambient temperature   | -20 °C...80 °C   |
| Torque at nominal operating pressure and 0° swivel angle                        | 37.6 Nm  |
| Torque at nominal operating pressure and 50° swivel angle                       | 20.7 Nm  |
| Torque at nominal operating pressure and 90° swivel angle                       | 31.3 Nm  |
| Spring return torque at 0° swivel angle   | 12.5 Nm  |
| Spring return torque at 50° swivel angle  | 9.4 Nm   |
| Spring return torque at 90° swivel angle  | 18.8 Nm  |
| Spring strength   | 2  |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 1.12 l   |
| Product weight  | 2400 g   |
| Shaft connection  | T11  |
| Pneumatic connection  | G1/8   |
| Note on materials   | RoHS-compliant   |
| Material cover  | High-alloy stainless steel   |
| Material number cover   | 1.4408   |
| Material seals  | FPM<br>NBR<br>PUR  |
| Material housing  | High-alloy stainless steel   |
| Material number housing   | 1.4408   |
| Material screws   | High-alloy stainless steel   |
| Material shaft  | High-alloy stainless steel   |
| Material number shaft   | 1.4301   |