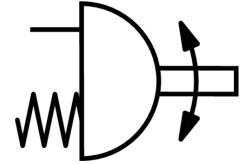
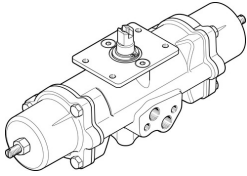


# Semi-rotary drive DAPS-0015-090-RS3-F03-CR

Part number: 552877

FESTO



 General operating condition

## Data sheet

| Feature                                     | Value                                                                                      |
|---------------------------------------------|--------------------------------------------------------------------------------------------|
| Size of valve actuator                      | 0015                                                                                       |
| Flange hole pattern                         | F03                                                                                        |
| Swivel angle                                | 90 deg                                                                                     |
| Shaft connection depth                      | 10.2 mm                                                                                    |
| Cushioning                                  | No cushioning                                                                              |
| Mounting position                           | optional                                                                                   |
| Mode of operation                           | Single-acting                                                                              |
| Design                                      | Scotch yoke system                                                                         |
| Position detection                          | Without                                                                                    |
| Closing direction                           | Closes to the right                                                                        |
| Symbol                                      | 00991266                                                                                   |
| Safety Integrity Level (SIL)                | Up to SIL 2 High Demand mode<br>To SIL 2 Low Demand mode                                   |
| Supply pressure for spring strength         | 0.42 MPa                                                                                   |
| Supply pressure for spring strength         | 4.2 bar                                                                                    |
| Operating pressure                          | 0.42 MPa ... 0.84 MPa                                                                      |
| Operating pressure                          | 4.2 bar ... 8.4 bar                                                                        |
| Nominal operating pressure                  | 0.56 MPa                                                                                   |
| Nominal operating pressure                  | 5.6 bar                                                                                    |
| CE mark (see declaration of conformity)     | To EU Explosion Protection Directive (ATEX)                                                |
| CE 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]                                                  |
| 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                                                                          |

| Feature                                                                         | Value                      |
|---------------------------------------------------------------------------------|----------------------------|
| Ambient temperature                                                             | -20 °C ... 80 °C           |
| Torque at nominal operating pressure and 0° swivel angle                        | 17.6 Nm                    |
| Torque at nominal operating pressure and 50° swivel angle                       | 9.3 Nm                     |
| Torque at nominal operating pressure and 90° swivel angle                       | 13.8 Nm                    |
| Spring return torque at 0° swivel angle                                         | 7.5 Nm                     |
| Spring return torque at 50° swivel angle                                        | 5.6 Nm                     |
| Spring return torque at 90° swivel angle                                        | 11.3 Nm                    |
| Spring strength                                                                 | 3                          |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 0.6 l                      |
| Product weight                                                                  | 1600 g                     |
| Shaft connection                                                                | T9                         |
| 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                     |