

# Semi-rotary drive DAPS-0720-090-RS4-F12-MW

Part number: 8005064

FESTO



## Data sheet

| Feature                                     | Value  |
|---|--|
| Size of valve actuator                      | 0720   |
| Flange hole pattern                         | F12  |
| Swivel angle                                | 92 deg   |
| Shaft connection depth                      | 38.5 mm  |
| Note on end-position adjusting range        | One end position optionally adjustable                             |
| 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         | 0.56 MPa<br>5.6 bar  |
| Operating pressure                          | 0.56 MPa...0.84 MPa<br>5.6 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)                        |
| 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               | -50°C ≤ Ta ≤ +60°C   |

| <b>Feature</b>  | <b>Value</b>   |
|---|--|
| 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  | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity  | VDMA24364-B1/B2-L  |
| Ambient temperature   | -20 °C...80 °C   |
| Torque at nominal operating pressure and 0° swivel angle                        | 720 Nm   |
| Torque at nominal operating pressure and 50° swivel angle                       | 360 Nm   |
| Torque at nominal operating pressure and 90° swivel angle                       | 480 Nm   |
| Spring return torque at 0° swivel angle   | 480 Nm   |
| Spring return torque at 50° swivel angle  | 360 Nm   |
| Spring return torque at 90° swivel angle  | 720 Nm   |
| Spring strength   | 4  |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 29.4 l   |
| Product weight  | 38800 g  |
| Shaft connection  | T36  |
| Pneumatic connection  | G1/4   |
| Note on materials   | RoHS-compliant   |
| Material cover  | Wrought aluminium alloy  |
| Material seals  | FPM<br>NBR<br>PUR  |
| Material housing  | Wrought aluminium alloy  |
| Material screws   | High-alloy steel   |
| Material shaft  | High-alloy steel   |
| Material number shaft   | 1.4305   |