

# Quarter turn actuator DAPS-0720-090-RS3-F14-MW

Part number: 8005063

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Size of valve actuator                          | 0720   |
| Flange hole pattern                             | F14  |
| Swivel angle                                    | 92 deg   |
| Depth shaft connection                          | 38.5 mm  |
| Information on the end-position adjusting range | One end position optionally adjustable                             |
| Standard connection for valve                   | ISO 5211   |
| Cushioning                                      | No cushioning  |
| Mounting position                               | Any  |
| Mode of operation                               | Single-acting  |
| Structural design                               | Kinematic yoke system  |
| Position sensing                                | None   |
| Closing direction                               | Closes to the right  |
| Symbol  | 00991266   |
| Valve connection conforms to standard           | VDI/VDE 3845 (NAMUR)   |
| Safety integrity level (SIL)                    | Up to SIL 2 high demand mode<br>Up to SIL 2 low demand mode        |
| Connection pressure for spring force            | 0.42 MPa   |
| Connection pressure for spring force            | 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 marking (see declaration of conformity)      | as per EU explosion protection directive (ATEX)                    |
| UKCA marking (see declaration of conformity)    | acc. to UK EX instructions   |
| Explosion prevention and 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 for dust                          | II 2D  |
| Type of ignition protection for gas             | Ex h IIC T6...T3 Gb X  |
| Type of (ignition) protection for dust          | Ex h IIIC T85°C...T200°C Db X                                      |
| Explosive ambient temperature                   | -20°C ≤ Ta ≤ +60°C   |
| Operating medium                                | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media        | Operation with oil lubrication possible (required for further use) |

| Feature   | Value                         |
|---|-------------------------------|
| 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      | 840 Nm                        |
| Torque at nominal operating pressure and 50° swivel angle     | 450 Nm                        |
| Torque at nominal operating pressure and 90° swivel angle     | 660 Nm                        |
| Spring return torque at 0° swivel angle                       | 360 Nm                        |
| Spring return torque with 50° swivel angle                    | 270 Nm                        |
| Spring return torque with 90° swivel angle                    | 540 Nm                        |
| Spring force  | 3                             |
| Air consumption at 6 bar 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                |
| Cover material  | Wrought aluminum alloy        |
| Seals material  | FPM<br>NBR<br>PUR             |
| Housing material  | Wrought aluminum alloy        |
| Material of screws  | High-alloy steel              |
| Shaft material  | High-alloy steel              |
| Material number for shaft                                     | 1,4305                        |