

# Quarter turn actuator DAPS-0240-090-R-F0710

Part number: 533422

FESTO



 General operating condition

## Data sheet

| Feature                                      | Value  |
|--|--|
| Size of valve actuator                       | 0240   |
| Flange hole pattern                          | F07<br>F10   |
| Swivel angle                                 | 90 deg   |
| End-position adjusting range at 0°           | -1 deg ... 9 deg   |
| Depth shaft connection                       | 24.8 mm  |
| Standard connection for valve                | ISO 5211   |
| Cushioning                                   | No cushioning  |
| Mounting position                            | Any  |
| Mode of operation                            | Double-acting  |
| Structural design                            | Scotch yoke system   |
| Position sensing                             | None   |
| Closing direction                            | Clockwise closing  |
| Symbol                                       | 00991265   |
| Valve connection conforms to standard        | VDI/VDE 3845 (NAMUR)   |
| Safety integrity level (SIL)                 | Up to SIL 2 low demand mode  |
| Operating pressure                           | 0.1 MPa ... 0.84 MPa   |
| Operating pressure                           | 1 bar ... 8.4 bar  |
| Nominal operating pressure                   | 0.56 MPa   |
| Nominal operating pressure                   | 5.6 bar  |
| Max. swivel frequency at 6 bar               | 1 Hz   |
| 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)                              | 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      | 240 Nm  |
| Torque at nominal operating pressure and 50° swivel angle     | 120 Nm  |
| Torque at nominal operating pressure and 90° swivel angle     | 180 Nm  |
| Note about the torque   | The actuator's operating torque must not be higher than the maximum permissible torque listed in ISO 5211, based on the size of the mounting flange and the coupling. |
| Air consumption at 6 bar per cycle 0°-nominal swivel angle-0° | 9.1 l   |
| Product weight  | 5400 g  |
| Shaft connection  | T22   |
| Pneumatic connection  | G1/8  |
| 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  |