

# Quarter turn actuator DAPS-0180-090-R-F0710-MW-T6

Part number: 8005015

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                      | Value                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------|
| Size of valve actuator                       | 0180                                                                                       |
| Flange hole pattern                          | F07<br>F10                                                                                 |
| Swivel angle                                 | 92 deg                                                                                     |
| Shaft connection depth                       | 24.8 mm                                                                                    |
| Fitting connection conforms to standard      | ISO 5211                                                                                   |
| Cushioning                                   | No cushioning                                                                              |
| Mounting position                            | optional                                                                                   |
| Mode of operation                            | Double-acting                                                                              |
| Design                                       | Scotch yoke system                                                                         |
| Position detection                           | Without                                                                                    |
| Closing direction                            | Closes to the right                                                                        |
| Symbol                                       | 00991265                                                                                   |
| 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                                   |
| Operating pressure                           | 0.3 MPa ... 0.84 MPa                                                                       |
| Operating pressure                           | 3 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)                                                |
| 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                | -50°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               | 2 - Moderate corrosion stress                                                              |

| Feature                                                                         | Value                   |
|---------------------------------------------------------------------------------|-------------------------|
| LABS (PWIS) conformity                                                          | VDMA24364 zone III      |
| Ambient temperature                                                             | -50 °C ... 60 °C        |
| Torque at nominal operating pressure and 0° swivel angle                        | 180 Nm                  |
| Torque at nominal operating pressure and 50° swivel angle                       | 90 Nm                   |
| Torque at nominal operating pressure and 90° swivel angle                       | 135 Nm                  |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 8.4 l                   |
| Product weight                                                                  | 6000 g                  |
| Shaft connection                                                                | T22                     |
| Pneumatic connection                                                            | G1/8                    |
| Note on materials                                                               | RoHS-compliant          |
| Material cover                                                                  | Wrought aluminium alloy |
| Material seals                                                                  | FVMQ<br>PTFE reinforced |
| Material housing                                                                | Wrought aluminium alloy |
| Material screws                                                                 | High-alloy steel        |
| Material shaft                                                                  | High-alloy steel        |
| Material number shaft                                                           | 1.4305                  |