

# Quarter turn actuator DAPS-0480-090-RS3-F14

Part number: 533490

**FESTO**



## Data sheet

| Feature  | Value  |
|--|--|
| Size of valve actuator                                   | 0480   |
| Flange hole pattern                                      | F14  |
| Swivel angle   | 90 deg   |
| End-position adjusting range at 0°                       | -1 deg ... 9 deg   |
| End-position adjusting range at nominal swivel angle     | 81 deg ... 91 deg  |
| Depth shaft connection                                   | 38.5 mm  |
| Type code  | DAPS   |
| 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  |
| Design   | Scotch yoke system   |
| Position sensing   | None   |
| Closing direction  | Clockwise closing  |
| 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                     | 4.2 bar  |
| Operating pressure                                       | 4.2 bar ... 8.4 bar  |
| Nominal operating pressure                               | 5.6 bar  |
| ATEX category gas  | II 2G  |
| Type of ignition protection for gas                      | Ex h IIC T6...T3 Gb X  |
| ATEX category for dust                                   | II 2D  |
| Type of (ignition) protection for dust                   | Ex h IIIC T85°C...T200°C Db X                                      |
| Explosive ambient temperature                            | -20°C ≤ Ta ≤ +60°C   |
| Ambient temperature                                      | -20 °C ... 80 °C   |
| Explosion prevention and protection                      | Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 22 (ATEX) |
| 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) |
| CE marking (see declaration of conformity)               | as per EU explosion protection directive (ATEX)                    |
| Corrosion resistance class (CRC)                         | 3 - High corrosion stress  |
| Torque at nominal operating pressure and 0° swivel angle | 560 Nm   |

| Feature   | Value   |
|---|---|
| Torque at nominal operating pressure and 50° swivel angle     | 300 Nm  |
| Torque at nominal operating pressure and 90° swivel angle     | 440 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. |
| Spring return torque at 0° swivel angle                       | 240 Nm  |
| Spring return torque with 50° swivel angle                    | 180 Nm  |
| Spring return torque with 90° swivel angle                    | 360 Nm  |
| Spring force  | 3   |
| Air consumption at 6 bar per cycle 0°-nominal swivel angle-0° | 19.6 l  |
| Product weight  | 22700 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  |