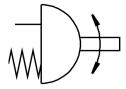
## Quarter turn actuator DAPS-0180-090-RS3-F0710

Part number: 533449





## **Data sheet**

| Feature  | Value  |
|--|--|
| Size of valve actuator                               | 0180   |
| Flange hole pattern                                  | F07<br>F10   |
| 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                               | 24.3 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 T6T3 Gb X   |
| ATEX category for dust                               | II 2D  |
| Type of (ignition) protection for dust               | Ex h IIIC T85°CT200°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  |

**FESTO** 

| Feature   | Value   |
|---|---|
| Torque at nominal operating pressure and 0° swivel angle      | 210 Nm  |
| Torque at nominal operating pressure and 50° swivel angle     | 112.5 Nm  |
| Torque at nominal operating pressure and 90° swivel angle     | 165 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                       | 90 Nm   |
| Spring return torque with 50° swivel angle                    | 67.5 Nm   |
| Spring return torque with 90° swivel angle                    | 135 Nm  |
| Spring force  | 3   |
| Air consumption at 6 bar per cycle 0°-nominal swivel angle-0° | 71  |
| Product weight  | 8900 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  |