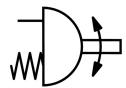
## Quarter turn actuator DAPS-2880-090-RS3-F16

Part number: 549695







General operating condition

## **Data sheet**

| Feature  | Value   |
|--|---|
| Size of valve actuator                               | 2880  |
| Flange hole pattern                                  | F16   |
| Swivel angle   | 90 deg  |
| End-position adjusting range at 0°                   | -5 deg 5 deg  |
| End-position adjusting range at nominal swivel angle | 85 deg 95 deg   |
| Depth shaft connection                               | 49.5 mm   |
| Standard connection for valve                        | ISO 5211  |
| Cushioning   | No cushioning   |
| Mounting position                                    | Any   |
| Mode of operation                                    | Single-acting   |
| Structural 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 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   |
| 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) Zone 2 (ATEX) Zone 21 (ATEX) 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 T6T3 Gb X  |
| Type of (ignition) protection for dust               | Ex h IIIC T85°CT200°C Db X                                |
| Explosive ambient temperature                        | -20°C <= Ta <= +60°C                                      |

| Feature   | Value   |
|---|---|
| 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)  |
| Corrosion resistance class (CRC)                              | 3 - High corrosion stress   |
| LABS (PWIS) conformity  | VDMA24364-B1/B2-L   |
| Ambient temperature   | -20 ℃ 80 ℃  |
| Torque at nominal operating pressure and 0° swivel angle      | 3360 Nm   |
| Torque at nominal operating pressure and 50° swivel angle     | 1800 Nm   |
| Torque at nominal operating pressure and 90° swivel angle     | 2640 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                       | 1440 Nm   |
| Spring return torque with 50° swivel angle                    | 1080 Nm   |
| Spring return torque with 90° swivel angle                    | 2160 Nm   |
| Spring force  | 3   |
| Air consumption at 6 bar per cycle 0°-nominal swivel angle-0° | 147 l   |
| Product weight  | 117000 g  |
| Shaft connection  | T46   |
| Pneumatic connection  | G3/8  |
| 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  |