

# Quarter turn actuator DAPS-1920-090-R-F14-MW

Part number: 8005012

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Size of valve actuator                                    | 1920   |
| Flange hole pattern                                       | F14  |
| Swivel angle  | 92 deg   |
| Depth shaft connection                                    | 48.5 mm  |
| Type code   | DAPS   |
| 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 high demand mode<br>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  |
| 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) |
| 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) |
| Corrosion resistance class (CRC)                          | 2 - Moderate corrosion stress                                      |
| Ambient temperature                                       | -20 °C ... 80 °C   |
| Torque at nominal operating pressure and 0° swivel angle  | 1920 Nm  |
| Torque at nominal operating pressure and 50° swivel angle | 960 Nm   |

| <b>Feature</b>  | <b>Value</b>           |
|---|------------------------|
| Torque at nominal operating pressure and 90° swivel angle     | 1440 Nm                |
| Air consumption at 6 bar per cycle 0°-nominal swivel angle-0° | 90.3 l                 |
| Product weight  | 43000 g                |
| Shaft connection  | T46                    |
| 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                 |