

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

Part number: 8005012

FESTO



 General operating condition

Data sheet

| Feature | Value |
|--|--|
| Size of valve actuator | 1920 |
| Flange hole pattern | F14 |
| Swivel angle | 92 deg |
| Shaft connection depth | 48.5 mm |
| Fitting connection conforms to standard | ISO 5211 |
| Cushioning | No cushioning |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Design | Scotch yoke system |
| Position detection | None |
| 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 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 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) 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 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 | -20°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 |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |

| Feature | Value |
|---|-----------------------------|
| 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 |
| Torque at nominal operating pressure and 90° swivel angle | 1440 Nm |
| Air consumption at 0.6 MPa (6 bar, 87 psi) 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 |
| Material cover | Wrought aluminium alloy |
| Material seals | Fluoro rubber NBR PUR |
| Material housing | Wrought aluminium alloy |
| Material screws | High-alloy steel |
| Material shaft | High-alloy steel |
| Material number shaft | 1,4305 |