

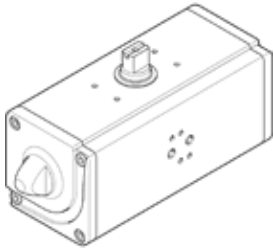
Semi-rotary actuator

DAPS-1920-090-R-F1216

Part number: 533479

FESTO

Double-acting, air connection as per VDI/VDE 3845, Namur valves can be directly flange-mounted



Data sheet

| Feature | Value |
|---|--|
| Size of actuator | 1920 |
| Flange hole pattern | F12 F16 |
| Swivel angle | 90 deg |
| End-position adjustment range at 0° | -1 ... 9 deg |
| Shaft connection depth | 48.5 mm |
| Fitting connection conforms to standard | ISO 5211 |
| Cushioning | No cushioning |
| Assembly position | Any |
| Mode of operation | double-acting |
| Design structure | Yoke kinematics |
| Position detection | No |
| Closing direction | right-closing |
| Valve connection conforms to standard | VDI/VDE 3845 (NAMUR) |
| Safety Integrity Level (SIL) | Product can be used in SRP/CS up to SIL 2 low demand |
| Operating pressure MPa | 0.1 ... 0.84 MPa |
| Working pressure | 1 ... 8.4 bar |
| Nominal operating pressure | 0.56 MPa |
| Nominal working pressure | 5.6 bar |
| Max. swivel frequency at 0.6 MPa (6 bar, 87 psi) | 1 Hz |
| CE symbol (see declaration of conformity) | according to EU-Ex protection guideline (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Certificate issuing department | TÜV Nord 212170801 |
| ATEX category Gas | II 2G |
| ATEX category Dust | II 2D |
| Explosion ignition protection type Gas | Ex h IIC T6...T3 Gb X |
| Explosion ignition protection type Dust | Ex h IIIC T85°C...T200°C Db X |
| Explosion-proof ambient temperature | -20°C ≤ Ta ≤ +60°C |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC | 3 - High corrosion stress |
| PWIS conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 ... 80 °C |
| Torque at rated working pressure and 0° rotation angle | 1,920 Nm |
| Torque at nominal operating pressure with 50° swivel angle | 960 Nm |
| Torque at nominal operating pressure with 90° swivel angle | 1,440 Nm |
| Note about the torque | The operating torque of the actuator must not be higher than the maximum permissible torque listed in ISO 5211, with reference to the size of the mounting flange and of the coupling. |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 71.4 l |
| Product weight | 32,000 g |
| Shaft connection | T46 |

| Feature | Value |
|---------------------------|------------------------|
| Pneumatic connection | G1/4 |
| Materials note | Conforms to RoHS |
| Material cover | Wrought Aluminum alloy |
| Material seals | FPM NBR PUR |
| Material housing | Wrought Aluminum alloy |
| Material screws | High alloy steel |
| Material shaft | High alloy steel |
| Material number for shaft | 1.4305 |