

Semi-rotary actuator

DAPS-0120-090-RS2-F0710-MW

Part number: 8005035

FESTO

single-acting, air connection according to VDI/VDE 3845 Namur valves,
direct flange mounting, version with handwheel.



Data sheet

| Feature | Value |
|--|---|
| Size of actuator | 0120 |
| Flange hole pattern | F07 F10 |
| Swivel angle | 92 deg |
| Shaft connection depth | 24.8 mm |
| Note regarding end position setting range | One selectable end position is adjustable |
| Fitting connection conforms to standard | ISO 5211 |
| Cushioning | No cushioning |
| Assembly position | Any |
| Mode of operation | single-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 (high demand) Product can be used in SRP/CS up to SIL 2 low demand |
| Connection pressure for spring force | 0.35 MPa |
| Supply pressure for spring strength | 3.5 bar |
| Operating pressure MPa | 0.35 ... 0.84 MPa |
| Working pressure | 3.5 ... 8.4 bar |
| Nominal operating pressure | 0.56 MPa |
| Nominal working pressure | 5.6 bar |
| 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 | -50°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 | 2 - Moderate corrosion stress |
| PWIS conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 ... 80 °C |
| Torque at rated working pressure and 0° rotation angle | 150 Nm |
| Torque at nominal operating pressure with 50° swivel angle | 82.5 Nm |
| Torque at nominal operating pressure with 90° swivel angle | 125 Nm |
| Spring return torque with 0° swivel angle | 50 Nm |
| Spring return torque with 50° swivel angle | 37.5 Nm |
| Spring return torque at 90° | 75 Nm |
| Spring strength | 2 |

| Feature | Value |
|---|------------------------|
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 5.6 l |
| Product weight | 9,000 g |
| Shaft connection | T22 |
| Pneumatic connection | G1/8 |
| 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 |