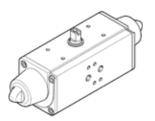
semi-rotary drive DAPS-0053-090-RS3-F0507 Part number: 533437

FESTO

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





Data sheet

| Feature | Value |
|--|--|
| Size of actuator | 0053 |
| Flange hole pattern | F05 |
| - , | F07 |
| Swivel angle | 90 deg |
| End-position adjustment range at 0° | -1 9 deg |
| End-position adjusting range at nominal swivel angle | 81 91 deg |
| Shaft connection depth | 19.3 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 low demand |
| Connection pressure for spring force | 0.42 MPa |
| Supply pressure for spring strength | 4.2 bar |
| Operating pressure MPa | 0.42 0.84 MPa |
| Operating pressure | 4.2 8.4 bar |
| Nominal operating pressure | 0.56 MPa |
| | 5.6 bar |
| Max. swivel frequency at 0.6 MPa (6 bar, 87 psi) | 1 Hz |
| CE mark (see declaration of conformity) | to EU directive explosion protection (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 T6T3 Gb X |
| Explosion ignition protection type Dust | Ex h IIIC T85°CT200°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 |
| There on operating and processes and | operation) |
| Corrosion resistance classification CRC | 3 - High corrosion stress |
| PWIS conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 80 °C |
| Torque at rated operating pressure and 0° rotation angle | 62 Nm |
| Torque at nominal operating pressure with 50° swivel angle | 32.5 Nm |
| Torque at nominal operating pressure with 90° swivel angle | 48 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. |



| Feature | Value |
|---|-------------------------|
| Spring return torque with 0° swivel angle | 26 Nm |
| Spring return torque with 50° swivel angle | 19.5 Nm |
| Spring return torque at 90° | 40 Nm |
| Spring strength | 3 |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 2.1 l |
| Product weight | 3,000 g |
| Shaft connection | T17 |
| Pneumatic connection | G1/8 |
| Materials note | Conforms to RoHS |
| Material cover | Wrought Aluminium alloy |
| Material seals | FPM |
| | NBR |
| | PUR |
| Material housing | Wrought Aluminium alloy |
| Material screws | High alloy steel |
| Material shaft | High alloy steel |
| Material number for shaft | 1.4305 |