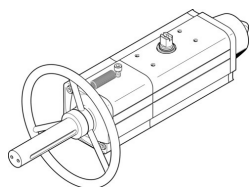


# Quarter turn actuator DAPS-0053-090-RS3-F0507-MW

Part number: 8005028

**FESTO**



## Data sheet

| Feature   | Value  |
|---|--|
| Size of valve actuator                          | 0053   |
| Flange hole pattern                             | F05<br>F07   |
| Swivel angle                                    | 92 deg   |
| Depth shaft connection                          | 19.3 mm  |
| Information on the end-position adjusting range | One end position optionally adjustable                             |
| Standard connection for valve                   | ISO 5211   |
| Cushioning                                      | No cushioning  |
| Mounting position                               | Any  |
| Mode of operation                               | Single-acting  |
| Structural design                               | Scotch yoke system   |
| Position sensing                                | None   |
| Closing direction                               | Clockwise closing  |
| 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        |
| Connection pressure for spring force            | 0.42 MPa<br>4.2 bar  |
| Operating pressure                              | 0.42 MPa...0.84 MPa<br>4.2 bar...8.4 bar                           |
| Nominal operating pressure                      | 0.56 MPa<br>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) |
| Certificate issuing authority                   | German Technical Control Board North (TÜV Nord) 212170801          |
| 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                   | -50°C ≤ Ta ≤ +60°C   |

| Feature   | Value  |
|---|--|
| 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                                      |
| LABS (PWIS) conformity  | VDMA24364-B1/B2-L  |
| Ambient temperature   | -20 °C...80 °C   |
| Torque at nominal operating pressure and 0° swivel angle      | 62 Nm  |
| Torque at nominal operating pressure and 50° swivel angle     | 32.5 Nm  |
| Torque at nominal operating pressure and 90° swivel angle     | 48 Nm  |
| Spring return torque at 0° swivel angle                       | 26 Nm  |
| Spring return torque with 50° swivel angle                    | 19.5 Nm  |
| Spring return torque with 90° swivel angle                    | 40 Nm  |
| Spring force  | 3  |
| Air consumption at 6 bar per cycle 0°-nominal swivel angle-0° | 2.1 l  |
| Product weight  | 4500 g   |
| Shaft connection  | T17  |
| Pneumatic connection  | G1/8   |
| 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   |