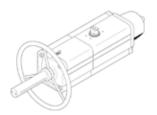
## semi-rotary drive DAPS-0480-090-RS3-F1012-MW Part number: 8005054

**FESTO** 

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





## **Data sheet**

| Feature  | Value  |
|--|--|
| Size of actuator   | 0480   |
| Flange hole pattern  | F10  |
|  | F12  |
| Swivel angle   | 92 deg   |
| Shaft connection depth                                     | 38.5 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                       | 0.42 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  |
| 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                        | -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 operating pressure and 0° rotation angle   | 560 Nm   |
| Torque at nominal operating pressure with 50° swivel angle | 300 Nm   |
| Torque at nominal operating pressure with 90° swivel angle | 440 Nm   |
| Spring return torque with 0° swivel angle                  | 240 Nm   |
| Spring return torque with 50° swivel angle                 | 180 Nm   |
| Spring return torque at 90°                                | 360 Nm   |
| Spring strength  | 3  |



| Feature   | Value                   |
|---|-------------------------|
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 19.61                   |
| Product weight  | 28,100 g                |
| Shaft connection  | T36                     |
| Pneumatic connection  | G1/4                    |
| 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                  |