

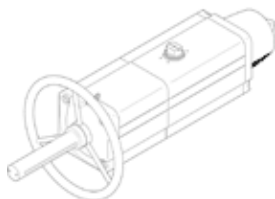
# Semi-rotary actuator

## DAPS-0960-090-RS3-F1216-MW

Part number: 8005071

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   | 0960  |
| Flange hole pattern  | F12<br>F16  |
| Swivel angle   | 92 deg  |
| Shaft connection depth                                     | 48.5 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)<br>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   |
| Working pressure   | 4.2 ... 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     | 1,120 Nm  |
| Torque at nominal operating pressure with 50° swivel angle | 600 Nm  |
| Torque at nominal operating pressure with 90° swivel angle | 880 Nm  |
| Spring return torque with 0° swivel angle                  | 480 Nm  |
| Spring return torque with 50° swivel angle                 | 360 Nm  |
| Spring return torque at 90°                                | 720 Nm  |
| Spring strength  | 3   |

| Feature   | Value                  |
|---|------------------------|
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 41.3 l                 |
| Product weight  | 50,600 g               |
| Shaft connection  | T46                    |
| Pneumatic connection  | G1/4                   |
| Materials note  | Conforms to RoHS       |
| Material cover  | Wrought Aluminum alloy |
| Material seals  | FPM<br>NBR<br>PUR      |
| Material housing  | Wrought Aluminum alloy |
| Material screws   | High alloy steel       |
| Material shaft  | High alloy steel       |
| Material number for shaft   | 1.4305                 |