

# semi-rotary drive

## DAPS-1440-090-R-F12-MW-T6

Part number: 8005022

FESTO

double-acting, air connection to VDI/VDE 3845 Namur valves, direct flange mounting, version with handwheel and low temperature.



### Data sheet

| Feature   | Value   |
|---|---|
| Size of actuator  | 1440  |
| Flange hole pattern   | F12   |
| Swivel angle  | 92 deg  |
| Shaft connection depth  | 38.5 mm   |
| Fitting connection conforms to standard   | ISO 5211  |
| Cushioning  | No cushioning   |
| Assembly position   | Any   |
| Mode of operation   | double-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 |
| Operating pressure MPa  | 0.3 ... 0.84 MPa  |
| Operating pressure  | 3 ... 8.4 bar   |
| Nominal operating pressure  | 0.56 MPa<br>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 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 zone III  |
| Ambient temperature   | -50 ... 60 °C   |
| Torque at rated operating pressure and 0° rotation angle                        | 1,440 Nm  |
| Torque at nominal operating pressure with 50° swivel angle                      | 720 Nm  |
| Torque at nominal operating pressure with 90° swivel angle                      | 1,080 Nm  |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 67.9 l  |
| Product weight  | 33,600 g  |
| Shaft connection  | T36   |
| Pneumatic connection  | G1/4  |
| Materials note  | Conforms to RoHS  |
| Material cover  | Wrought Aluminium alloy   |
| Material seals  | FVMQ  |

| Feature                   | Value                   |
|---------------------------|-------------------------|
|                           | PTFE reinforced         |
| Material housing          | Wrought Aluminium alloy |
| Material screws           | High alloy steel        |
| Material shaft            | High alloy steel        |
| Material number for shaft | 1.4305                  |