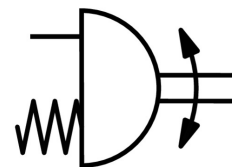
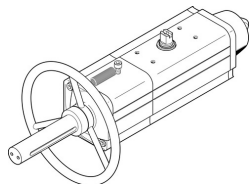


# Semi-rotary drive DAPS-0090-090-RS1-F0710-MW

Part number: 8005030

FESTO



 General operating condition

## Data sheet

| Feature                                     | Value                                                              |
|---------------------------------------------|--------------------------------------------------------------------|
| Size of valve actuator                      | 0090                                                               |
| Flange hole pattern                         | F07<br>F10                                                         |
| Swivel angle                                | 92 deg                                                             |
| Shaft connection depth                      | 24.8 mm                                                            |
| Note on end-position adjusting range        | One end position optionally adjustable                             |
| Fitting connection conforms to standard     | ISO 5211                                                           |
| Cushioning                                  | No cushioning                                                      |
| Mounting position                           | optional                                                           |
| Mode of operation                           | Single-acting                                                      |
| Design                                      | Scotch yoke system                                                 |
| Position detection                          | Without                                                            |
| Closing direction                           | Closes to the right                                                |
| Symbol                                      | 00991266                                                           |
| Valve connection conforms to standard       | VDI/VDE 3845 (NAMUR)                                               |
| Safety Integrity Level (SIL)                | Up to SIL 2 High Demand mode<br>To SIL 2 Low Demand mode           |
| Supply pressure for spring strength         | 0.28 MPa                                                           |
| Supply pressure for spring strength         | 2.8 bar                                                            |
| Operating pressure                          | 0.28 MPa ... 0.84 MPa                                              |
| Operating pressure                          | 2.8 bar ... 8.4 bar                                                |
| Nominal operating pressure                  | 0.56 MPa                                                           |
| Nominal operating pressure                  | 5.6 bar                                                            |
| CE mark (see declaration of conformity)     | To EU Explosion Protection Directive (ATEX)                        |
| CE marking (see declaration of conformity)  | To UK EX instructions                                              |
| Explosion 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 dust                          | II 2D                                                              |
| Explosion ignition protection type for gas  | Ex h IIC T6...T3 Gb X                                              |
| Explosion ignition protection type for dust | Ex h IIIC T85°C...T200°C Db X                                      |
| Explosion ambient temperature               | -50°C ≤ Ta ≤ +60°C                                                 |
| Operating medium                            | Compressed air to ISO 8573-1:2010 [7:4:4]                          |

| Feature                                                                         | Value                                                                                      |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Note on operating and pilot medium                                              | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                                                  | 2 - Moderate corrosion stress                                                              |
| LABS (PWIS) conformity                                                          | VDMA24364-B1/B2-L                                                                          |
| Ambient temperature                                                             | -20 °C ... 80 °C                                                                           |
| Spring return torque at 0° swivel angle                                         | 30 Nm                                                                                      |
| Spring return torque at 50° swivel angle                                        | 22.5 Nm                                                                                    |
| Spring return torque at 90° swivel angle                                        | 45 Nm                                                                                      |
| Spring strength                                                                 | 1                                                                                          |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 3.85 l                                                                                     |
| Product weight                                                                  | 6800 g                                                                                     |
| Shaft connection                                                                | T22                                                                                        |
| Pneumatic connection                                                            | G1/8                                                                                       |
| Note on materials                                                               | RoHS-compliant                                                                             |
| Material cover                                                                  | Wrought aluminium alloy                                                                    |
| Material seals                                                                  | FPM<br>NBR<br>PUR                                                                          |
| Material housing                                                                | Wrought aluminium alloy                                                                    |
| Material screws                                                                 | High-alloy steel                                                                           |
| Material shaft                                                                  | High-alloy steel                                                                           |
| Material number shaft                                                           | 1.4305                                                                                     |