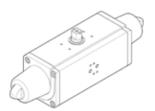
## semi-rotary drive DAPS-0180-090-RS2-F0710 Part number: 533448

**FESTO** 

Single-acting, air connection as per VDI/VDE 3845, Namur valves can be directly flange-mounted  $\,$ 





## **Data sheet**

| Feature  | Value  |
|--|--|
| Size of actuator   | 0180   |
| Flange hole pattern  | F07  |
|  | F10  |
| Swivel angle   | 90 deg   |
| End-position adjustment range at 0°                        | -1 9 deg   |
| End-position adjustment range at 90°                       | 81 91 deg  |
| Shaft connection depth                                     | 24.3 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                 |
| Supply pressure for spring strength                        | 3.5 bar  |
| Operating pressure   | 3.5 8.4 bar  |
| Nominal operating pressure                                 | 5.6 bar  |
| CE mark (see declaration of conformity)                    | to EU directive explosion protection (ATEX)                          |
| 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                        | -20°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                    | 3 - High corrosion stress  |
| Ambient temperature  | -20 80 °C  |
| Torque at rated operating pressure and 0° rotation angle   | 225 Nm   |
| Torque at nominal operating pressure with 50° swivel angle | 123.8 Nm   |
| Torque at nominal operating pressure with 90° swivel angle | 187.5 Nm   |
| Note about the torque                                      | The operating torque of the actuator must not be higher than the     |
|  | maximum permissible torque listed in ISO 5211, with reference to the |
|  | size of the mounting flange and of the coupling.                     |
| Spring return torque with 0° swivel angle                  | 75 Nm  |
| Spring return torque with 50° swivel angle                 | 56.3 Nm  |
| Spring return torque at 90°                                | 112.5 Nm   |
| Spring strength  | 2  |
| Air consumption at 6 bar per cycle 0°-90°-0°               | 71   |
| Product weight   | 8,900 g  |



| Feature                   | Value                   |
|---------------------------|-------------------------|
| Shaft connection          | T22                     |
| Pneumatic connection      | G1/8                    |
| 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                  |