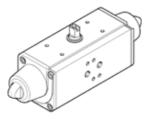
## semi-rotary drive DAPS-0090-090-RS2-F0710-T6 Part number: 553196

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



## **Data sheet**

| Feature  | Value  |
|--|--|
| Size of actuator   | 0090   |
| 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                                     | 24.8 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  |  |
| ATEX category Dust   | 20<br>   2D  |
| Explosion ignition protection type Gas                     | Ex h IIC T6T3 Gb X   |
| Explosion ignition protection type Gus                     | 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                    | 3 - High corrosion stress  |
| Ambient temperature  | -50 60 °C  |
| Torque at rated operating pressure and 0° rotation angle   | 112.6 Nm   |
| Torque at nominal operating pressure with 50° swivel angle | 61.9 Nm  |
| Torque at nominal operating pressure with 90° switch angle | 93.8 Nm  |
| Note about the torque                                      | The operating torque of the actuator must not be higher than the     |
| Note about the torque                                      | 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                  | 37.5 Nm  |
| Spring return torque with 50° swivel angle                 | 28.1 Nm  |
| Spring return torque at 90°                                | 56.3 Nm  |
| Spring return torque at 90                                 | 2  |
| Air consumption at 6 bar per cycle 0°-90°-0°               | 3.851  |
| Product weight   | 5.900 g  |
| Flouuci weigili  | 10,000 8   |





## **FESTO**

| Feature                   | Value                    |
|---------------------------|--------------------------|
| Shaft connection          | T22                      |
| Pneumatic connection      | G1/8                     |
| Materials note            | Contains PWIS substances |
|                           | Conforms to RoHS         |
| Material cover            | Wrought Aluminium alloy  |
| Material seals            | FVMQ                     |
|                           | PTFE reinforced          |
| Material housing          | Wrought Aluminium alloy  |
| Material screws           | High alloy steel         |
| Material shaft            | High alloy steel         |
| Material number for shaft | 1.4305                   |