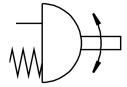
## Quarter turn actuator DAPS-0120-090-RS2-F0710-T6

**FESTO** 

Part number: 553197





## **Data sheet**

| Feature  | Value   |
|--|---|
| Size of valve actuator                               | 0120  |
| Flange hole pattern                                  | F07<br>F10  |
| Swivel angle   | 90 deg  |
| End-position adjusting range at 0°                   | -1 deg 9 deg  |
| End-position adjusting range at nominal swivel angle | 81 deg 91 deg   |
| Depth shaft connection                               | 24.8 mm   |
| Type code  | DAPS  |
| Information on the end-position adjusting range      | One end position optionally adjustable                      |
| Standard connection for valve                        | ISO 5211  |
| Cushioning   | No cushioning   |
| Mounting position                                    | Any   |
| Mode of operation                                    | Single-acting   |
| Design   | Scotch yoke system  |
| Position sensing                                     | None  |
| Closing direction                                    | Clockwise closing   |
| Symbol   | 00991266  |
| Valve connection conforms to standard                | VDI/VDE 3845 (NAMUR)  |
| Safety integrity level (SIL)                         | Up to SIL 2 high demand mode<br>Up to SIL 2 low demand mode |
| Connection pressure for spring force                 | 0.35 MPa  |
| Connection pressure for spring force                 | 3.5 bar   |
| Operating pressure                                   | 0.35 MPa 0.84 MPa   |
| Operating pressure                                   | 3.5 bar 8.4 bar   |
| Nominal operating pressure                           | 0.56 MPa  |
| Nominal operating pressure                           | 5.6 bar   |
| CE marking (see declaration of conformity)           | as per EU explosion protection directive (ATEX)             |
| Explosion prevention and protection                  | Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)   |
| ATEX category gas                                    | II 2G   |
| ATEX category for dust                               | II 2D   |
| Type of ignition protection for gas                  | Ex h IIC T6T3 Gb X  |
| Type of (ignition) protection for dust               | Ex h IIIC T85°CT200°C Db X                                  |
| Explosive ambient temperature                        | -50°C <= Ta <= +60°C  |
| Operating medium                                     | Compressed air as per ISO 8573-1:2010 [7:4:4]               |

| Feature   | Value   |
|---|---|
| Information on operating and pilot media                      | Operation with oil lubrication possible (required for further use)  |
| Corrosion resistance class (CRC)                              | 3 - High corrosion stress   |
| Ambient temperature   | -50 ℃ 60 ℃  |
| Torque at nominal operating pressure and 0° swivel angle      | 150 Nm  |
| Torque at nominal operating pressure and 50° swivel angle     | 82.5 Nm   |
| Torque at nominal operating pressure and 90° swivel angle     | 125 Nm  |
| Note about the torque   | The actuator's operating torque must not be higher than the maximum permissible torque listed in ISO 5211, based on the size of the mounting flange and the coupling. |
| Spring return torque at 0° swivel angle                       | 50 Nm   |
| Spring return torque with 50° swivel angle                    | 37.5 Nm   |
| Spring return torque with 90° swivel angle                    | 75 Nm   |
| Spring force  | 2   |
| Air consumption at 6 bar per cycle 0°-nominal swivel angle-0° | 5.6 l   |
| Product weight  | 6800 g  |
| Shaft connection  | T22   |
| Pneumatic connection  | G1/8  |
| Note on materials   | Contains paint-wetting impairment substances RoHS-compliant   |
| Cover material  | Wrought aluminum alloy  |
| Seals material  | FVMQ<br>PTFE-reinforced   |
| Housing material  | Wrought aluminum alloy  |
| Material of screws  | High-alloy steel  |
| Shaft material  | High-alloy steel  |
| Material number for shaft                                     | 1.4305  |