

# Rotary actuator DSM-8-180-P-FF

Part number: 175828

**FESTO**



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Size                                     | 8                                                                  |
| Cushioning angle                         | 0 deg                                                              |
| Adjustment range of swivel angle         | 0 deg...180 deg                                                    |
| Swivel angle                             | 0 deg...180 deg                                                    |
| Permissible stop radius                  | 10 mm                                                              |
| Mounting position                        | Any                                                                |
| Precision adjustment                     | -5 deg                                                             |
| Mode of operation                        | Double-acting                                                      |
| Structural design                        | Rotary vane                                                        |
| Position sensing                         | None                                                               |
| Operating pressure                       | 0.35 MPa...0.8 MPa<br>3.5 bar...8 bar                              |
| Max. swivel frequency at 6 bar           | 3 Hz                                                               |
| Repetition accuracy                      | 1 deg                                                              |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)         | 0 - No corrosion stress                                            |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L                                                  |
| Ambient temperature                      | 0 °C...60 °C                                                       |
| Max. stop force                          | 30 N                                                               |
| Max. axial force                         | 10 N                                                               |
| Max. radial force                        | 20 N                                                               |
| Theoretical torque at 6 bar              | 0.35 Nm                                                            |
| Permissible mass moment of inertia       | 0.0013 kgm <sup>2</sup>                                            |
| Product weight                           | 140 g                                                              |
| Type of mounting                         | With internal thread                                               |
| Pneumatic connection                     | M3                                                                 |
| Covering material                        | PA-reinforced                                                      |
| Note on materials                        | RoHS compliant                                                     |
| Drive shaft material                     | high-alloy stainless steel                                         |
| Seals material                           | TPE-U(PU)                                                          |

| Feature          | Value                |
|------------------|----------------------|
| Housing material | Aluminum<br>Anodized |