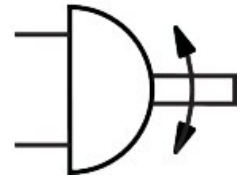


# Rotary actuator DSM-6-90-P-FW

Part number: 185928

**FESTO**



 General operating condition

## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Size                                     | 6                                                                  |
| Cushioning angle                         | 0.5 deg                                                            |
| Swivel angle                             | 0 deg ... 90 deg                                                   |
| Permissible stop radius                  | ≥10 mm                                                             |
| Cushioning                               | Elastic cushioning rings/pads at both ends                         |
| Mounting position                        | Any                                                                |
| Mode of operation                        | Double-acting                                                      |
| Structural design                        | Rotary vane                                                        |
| Position sensing                         | None                                                               |
| Symbol                                   | 00991265                                                           |
| Operating pressure                       | 0.35 MPa ... 0.8 MPa                                               |
| Operating pressure                       | 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                                                  |
| Cleanroom class                          | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                      | 0 °C ... 60 °C                                                     |
| Max. stop force                          | 15 N                                                               |
| Max. axial force                         | 10 N                                                               |
| Max. radial force                        | 15 N                                                               |
| Theoretical torque at 6 bar              | 0.15 Nm                                                            |
| Permissible mass moment of inertia       | 6.5E-4 kgm <sup>2</sup>                                            |
| Product weight                           | 51 g                                                               |
| Type of mounting                         | With internal thread                                               |
| Pneumatic connection                     | M3                                                                 |
| Note on materials                        | RoHS-compliant                                                     |
| Drive shaft material                     | High-alloy stainless steel                                         |
| Seals material                           | TPE-U(PU)                                                          |
| Housing material                         | Anodized                                                           |