

# Rotary actuator DSM-40-270-P1-A-B

Part number: 566211

**FESTO**



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Size                                     | 40                                                                 |
| Cushioning angle                         | 6.5 deg                                                            |
| Adjustment range of swivel angle         | 0 deg...240 deg                                                    |
| Swivel angle                             | 0 deg...240 deg                                                    |
| Permissible stop radius                  | 40 mm                                                              |
| Cushioning                               | Elastic cushioning rings/pads at both ends with fixed stop         |
| Mounting position                        | Any                                                                |
| Precision adjustment                     | -6 deg                                                             |
| Mode of operation                        | Double-acting                                                      |
| Structural design                        | Rotary vane                                                        |
| Position sensing                         | Via proximity switch                                               |
| Operating pressure                       | 0.15 MPa...1 MPa<br>1.5 bar...10 bar                               |
| Max. swivel frequency at 6 bar           | 2 Hz                                                               |
| Repetition accuracy                      | 0.1 deg                                                            |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:-:-]                      |
| 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                      | -10 °C...60 °C                                                     |
| Max. stop force                          | 650 N                                                              |
| Max. axial force                         | 120 N                                                              |
| Max. radial force                        | 350 N                                                              |
| Theoretical torque at 6 bar              | 20 Nm                                                              |
| Permissible mass moment of inertia       | 0.105 kgm <sup>2</sup>                                             |
| Product weight                           | 2870 g                                                             |
| Type of mounting                         | With internal thread                                               |
| Pneumatic connection                     | G1/8                                                               |
| Note on materials                        | RoHS compliant                                                     |
| Drive shaft material                     | Steel<br>Nickel-plated                                             |
| Seals material                           | TPE-U(PU)                                                          |

| Feature          | Value             |
|------------------|-------------------|
| Housing material | Anodized aluminum |