

# Swivel actuator unit DSL-20-100-270-P-A-S2-B

Part number: 556450

FESTO



## Data sheet

| Feature                                  | Value  |
|--|--|
| Adjustment range of swivel angle         | 0 deg...270 deg  |
| Stroke                                   | 100 mm   |
| Piston diameter                          | 20 mm  |
| Swivel angle                             | 0 deg...272 deg  |
| Cushioning                               | Elastic cushioning rings/pads at both ends                         |
| Mounting position                        | Any  |
| Precision adjustment                     | -6 deg   |
| Mode of operation                        | Double-acting  |
| Structural design                        | Rotary vane  |
| Position sensing                         | For proximity sensor   |
| Variants                                 | Through piston rod   |
| Protection against torsion/guide         | With plain-bearing guide   |
| Operating pressure                       | 2.5 bar...8 bar  |
| Max. impact velocity                     | 500 mm/s   |
| Max. swivel frequency at 6 bar           | 2 Hz   |
| Swivel angle backlash                    | 2 deg  |
| 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)         | 1 - Low corrosion stress   |
| LABS (PWIS) conformity                   | VDMA24364-B2-L   |
| Ambient temperature                      | -10 °C...60 °C   |
| Dynamic load torque                      | 0.2 Nm   |
| Theoretical force at 6 bar, retracting   | 120.5 N  |
| Theoretical force at 6 bar, advancing    | 159 N  |
| Theoretical torque at 6 bar              | 2.5 Nm   |
| Permissible mass moment of inertia       | 0.00007 kgm <sup>2</sup>   |
| Product weight                           | 1050 g   |
| Basic weight with 0 mm stroke            | 1050 g   |
| Additional weight per 10 mm stroke       | 52 g   |

| Feature              | Value  |
|----------------------|--|
| Type of mounting     | Optionally:<br>Clamped in T slot<br>With external thread |
| Pneumatic connection | M5   |
| Cover material       | Wrought aluminum alloy<br>Anodized                       |
| Seals material       | TPE-U(PU)  |
| Housing material     | Wrought aluminum alloy<br>Smooth anodized                |
| Piston rod material  | Tempered steel   |