

# Swivel actuator unit DSL-20-50-270-P-A-S20-B

Part number: 556441

**FESTO**



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Adjustment range of swivel angle         | 0 deg...270 deg                                                    |
| Stroke                                   | 50 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                         | Via proximity switch                                               |
| Variants                                 | Through, hollow 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       | 7E-05 kgm <sup>2</sup>                                             |
| Product weight                           | 1350 g                                                             |
| Basic weight with 0 mm stroke            | 1090 g                                                             |
| Additional weight per 10 mm stroke       | 52 g                                                               |
| Type of mounting                         | Alternatively:<br>Clamped in T slot                                |

| Feature              | Value                                     |
|----------------------|-------------------------------------------|
|                      | 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  | Quenched and tempered steel               |