

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

FESTO

Part number: 556643



## Data sheet

| Feature                                  | Value   |
|--|---|
| Cushioning angle                         | 12 deg  |
| Adjustment range of swivel angle         | 0 deg ... 246 deg   |
| Stroke                                   | 100 mm  |
| Piston diameter                          | 20 mm   |
| Swivel angle                             | 0 deg ... 246 deg   |
| Type code                                | DSL   |
| Cushioning                               | Pneumatic shock absorber at both ends<br>Elastic cushioning rings/pads at both ends |
| Mounting position                        | Any   |
| Precision adjustment                     | -3 deg  |
| Mode of operation                        | Double-acting   |
| Structural design                        | Rotary vane   |
| Position sensing                         | For proximity sensor  |
| Symbol                                   | 00991268  |
| Variants                                 | Through piston rod  |
| Protection against torsion/guide         | Guided on ball bearings   |
| Operating pressure                       | 2.5 bar ... 8 bar   |
| Max. impact velocity                     | 0.5 m/s   |
| Max. swivel frequency at 6 bar           | 1 Hz  |
| Swivel angle backlash                    | 0.05 deg  |
| Repetition accuracy                      | 0.1 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  |
| Ambient temperature                      | -10 °C ... 60 °C  |
| Dynamic load torque                      | 0.35 Nm   |
| Theoretical force at 6 bar, retracting   | 120.5 N   |
| Theoretical force at 6 bar, advancing    | 158 N   |
| Theoretical torque at 6 bar              | 2.5 Nm  |
| Permissible mass moment of inertia       | 0.0012 kgm <sup>2</sup>   |
| Additional weight per 10 mm stroke       | 52 g  |
| Basic weight with 0 mm stroke            | 1220 g  |
| Product weight                           | 1220 g  |
| Type of mounting                         | Optionally:<br>Clamped in T slot<br>With external thread                            |

| <b>Feature</b>       | <b>Value</b>                              |
|----------------------|---|
| 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                            |