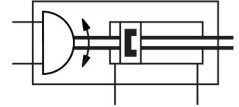


# Swivel actuator unit DSL-20-100-270-CC-A-S20-KF-B

Part number: 556646

**FESTO**



 [General operating condition](#)

## 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                                                                   |
| 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                                   | 00991269                                                                            |
| Variants                                 | Through, hollow 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                                                            |
| LABS (PWIS) conformity                   | VDMA24364-B2-L                                                                      |
| 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>                                                             |
| Product weight                           | 1220 g                                                                              |
| Basic weight with 0 mm stroke            | 1220 g                                                                              |
| Additional weight per 10 mm stroke       | 52 g                                                                                |
| Type of mounting                         | Optionally:<br>Clamped in T slot<br>With external thread                            |

| Feature              | Value                              |
|----------------------|------------------------------------|
| Pneumatic connection | M5                                 |
| Cover material       | Wrought aluminum alloy<br>Anodized |
| Seals material       | TPE-U(PU)                          |
| Housing material     | Smooth anodized                    |
| Piston rod material  | Tempered steel                     |