

# Swivel/linear unit DSL-16-50-270-CC-A-S2-B

Part number: 556403

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Cushioning angle   | 15 deg   |
| Rotation angle adjustment range                              | 0 deg ... 246 deg  |
| Stroke   | 50 mm  |
| Piston diameter  | 16 mm  |
| Swivel angle   | 0 deg ... 246 deg  |
| Cushioning   | Shock absorber at both ends<br>Elastic cushioning rings/plates at both ends                |
| Mounting position  | Any  |
| Fine adjustment  | -3 deg   |
| Mode of operation  | Double-acting  |
| Design   | Vane   |
| Position detection   | Via proximity switch   |
| Symbol   | 00991268   |
| Variants   | Through piston rod   |
| Protection against torque/guide                              | With plain-bearing guide   |
| Operating pressure   | 2.5 bar ... 8 bar  |
| Max. impact speed  | 0.5 m/s  |
| Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)             | 1.5 Hz   |
| Rotary angle backlash  | 2 deg  |
| Repetition accuracy  | 0.1 deg  |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 1 - Low corrosion stress   |
| LABS (PWIS) conformity                                       | VDMA24364-B2-L   |
| Ambient temperature  | -10 °C ... 60 °C   |
| Dynamic load torque  | 0.1 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 73.5 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 102.5 N  |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi)                | 1.25 Nm  |
| Permissible mass moment of inertia                           | 7.0E-4 kgm <sup>2</sup>  |
| Product weight   | 862 g  |
| Basic weight for 0 mm stroke                                 | 697 g  |
| Additional weight per 10 mm stroke                           | 33 g   |
| Type of mounting   | Clamped in T-slot<br>With male thread  |

| <b>Feature</b>       | <b>Value</b>                        |
|----------------------|-------------------------------------|
| Pneumatic connection | M5                                  |
| Material cover       | Wrought aluminium alloy<br>anodised |
| Material seals       | TPE-U(PU)                           |
| Material housing     | Smooth-anodised                     |
| Material piston rod  | Tempered steel                      |