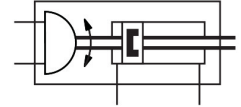


**Swivel/linear unit**  
**DSL-20-80-270-P-A-S20-B**  
 Part number: 556447

**FESTO**



## Data sheet

| Feature  | Value  |
|--|--|
| Rotation angle adjustment range                              | 0 deg...270 deg  |
| Stroke   | 80 mm  |
| Piston diameter  | 20 mm  |
| Swivel angle   | 0 deg...272 deg  |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | optional   |
| Fine adjustment  | -6 deg   |
| Mode of operation  | Double-acting  |
| Design   | Vane   |
| Position detection   | Via proximity switch   |
| Variants   | Through, hollow piston rod   |
| Protection against torque/guide                              | With plain-bearing guide   |
| Operating pressure   | 2.5 bar...8 bar  |
| Max. impact speed  | 500 mm/s   |
| Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)             | 2 Hz   |
| Rotary angle backlash  | 2 deg  |
| Repetition accuracy  | 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  | 0.2 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 120.5 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 159 N  |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi)                | 2.5 Nm   |
| Permissible mass moment of inertia                           | 7E-05 kgm <sup>2</sup>   |
| Product weight   | 1050 g   |
| Basic weight for 0 mm stroke                                 | 1050 g   |
| Additional weight per 10 mm stroke                           | 52 g   |

| Feature              | Value   |
|----------------------|---|
| Type of mounting     | Clamped in T-slot<br>Via male thread<br>Either: |
| Pneumatic connection | M5  |
| Material cover       | Wrought aluminium alloy<br>Anodised             |
| Material seals       | TPE-U(PU)                                       |
| Material housing     | Wrought aluminium alloy<br>Smooth anodised      |
| Material piston rod  | Tempered steel                                  |