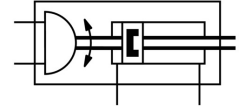


# Swivel/linear unit DSL-20-100-270-P-A-S20-B

Part number: 556453

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Rotation angle adjustment range                              | 0 deg ... 270 deg                                                                          |
| Stroke                                                       | 100 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                                                                       |
| Symbol                                                       | 00991269                                                                                   |
| Variants                                                     | Through, hollow 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)             | 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                           | 7.0E-5 kgm <sup>2</sup>                                                                    |
| Product weight                                               | 1050 g                                                                                     |
| Basic weight for 0 mm stroke                                 | 1050 g                                                                                     |
| Additional weight per 10 mm stroke                           | 52 g                                                                                       |
| Type of mounting                                             | Either:<br>Clamped in T-slot<br>Via male thread                                            |
| Pneumatic connection                                         | M5                                                                                         |

| Feature             | Value                                      |
|---------------------|--------------------------------------------|
| 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                             |