

Swivel/linear unit DSL-20-100-270-CC-A-S2-B

Part number: 556451

FESTO



General operating condition

Data sheet

| Feature | Value |
|--|--|
| Cushioning angle | 12 deg |
| Rotation angle adjustment range | 0 deg ... 246 deg |
| Stroke | 100 mm |
| Piston diameter | 20 mm |
| Swivel angle | 0 deg ... 246 deg |
| Cushioning | Shock absorber at both ends 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 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 | 0.2 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 | 0.0012 kgm ² |
| Product weight | 1650 g |
| Basic weight for 0 mm stroke | 1130 g |
| Additional weight per 10 mm stroke | 52 g |
| Type of mounting | Clamped in T-slot With male thread |

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