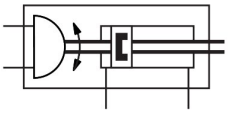
# Swivel/linear unit
# DSL-40-50-270-P-A-S20-B

Part number: 556549





## Data sheet

| Feature | Value |
|---|---|
| Rotation angle adjustment range | 0 deg...270 deg |
| Stroke | 50 mm |
| Piston diameter | 40 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 | 1.1 Nm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 495 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 660 N |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi) | 20 Nm |
| Permissible mass moment of inertia | 0.00024 kgm² |
| Product weight | 5000 g |
| Basic weight for 0 mm stroke | 5000 g |
| Additional weight per 10 mm stroke | 170 g |

| Feature | Value |
|---|---|
| Type of mounting | Either:<br>Clamped in T-slot<br>Via male thread |
| Pneumatic connection | G1/8 |
| 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 |