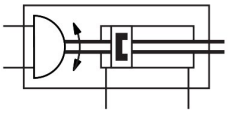
Swivel/linear unit
DSL-25-50-270-P-A-S20-KF-B

Part number: 556669



General operating condition

Data sheet

Feature	Value
Rotation angle adjustment range	0 deg ... 270 deg
Stroke	50 mm
Piston diameter	25 mm
Swivel angle	0 deg ... 272 deg
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	Any
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	Ball 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	0.05 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	0.7 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	173.5 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	248 N
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	5 Nm
Permissible mass moment of inertia	1.1E-4 kgm²
Product weight	1995 g
Basic weight for 0 mm stroke	1660 g
Additional weight per 10 mm stroke	67 g
Type of mounting	Clamped in T-slot With male thread
Pneumatic connection	M5

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