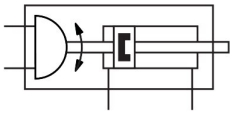
Swivel/linear unit
DSL-16-50-270-P-A-S2-KF-B

Part number: 556594





Data sheet

Feature	Value
Rotation angle adjustment range	0 deg...270 deg
Stroke	50 mm
Piston diameter	16 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 piston rod
Protection against torque/guide	Via ball bearings
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	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	0.17 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	73.5 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	103.5 N
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	1.25 Nm
Permissible mass moment of inertia	3.5E-05 kgm²
Product weight	700 g
Basic weight for 0 mm stroke	700 g
Additional weight per 10 mm stroke	33 g

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