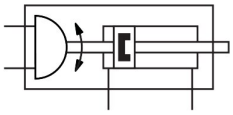
Swivel/linear unit
DSL-32-50-270-P-A-S2-KF-B

Part number: 556702



General operating condition

Data sheet

Feature	Value
Rotation angle adjustment range	0 deg ... 270 deg
Stroke	50 mm
Piston diameter	32 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	00991268
Variants	Through 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	1 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	294 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	403.5 N
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	10 Nm
Permissible mass moment of inertia	1.7E-4 kgm²
Product weight	3810 g
Basic weight for 0 mm stroke	3265 g
Additional weight per 10 mm stroke	109 g
Type of mounting	Clamped in T-slot With male thread
Pneumatic connection	G1/8

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