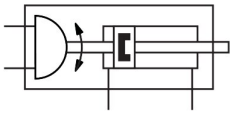
Swivel/linear unit
DSL-32-100-270-CC-A-S2-B

Part number: 556523



General operating condition

Data sheet

Feature	Value
Cushioning angle	12 deg
Rotation angle adjustment range	0 deg ... 246 deg
Stroke	100 mm
Piston diameter	32 mm
Swivel angle	0 deg ... 246 deg
Cushioning	Shock absorber at both ends Elastic cushioning rings/plates at both ends
Mounting position	optional
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)	0.7 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	0.8 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	422.5 N
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	10 Nm
Permissible mass moment of inertia	0.0021 kgm²
Product weight	4110 g
Basic weight for 0 mm stroke	3020 g
Additional weight per 10 mm stroke	109 g
Type of mounting	Clamped in T-slot Via male thread

Feature	Value
Pneumatic connection	G1/8
Material cover	Wrought aluminium alloy Anodised
Material seals	TPE-U(PU)
Material housing	Smooth anodised
Material piston rod	Tempered steel