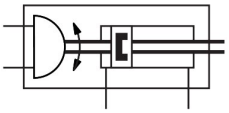
Swivel/linear unit
DSL-40-160-270-CC-A-S20-KF-B

Part number: 556766



General operating condition

Data sheet

Feature	Value
Cushioning angle	16 deg
Rotation angle adjustment range	0 deg ... 240 deg
Stroke	160 mm
Piston diameter	40 mm
Swivel angle	0 deg ... 240 deg
Cushioning	Shock absorber at both ends Elastic cushioning rings/plates at both ends
Mounting position	Any
Fine adjustment	-3 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)	0.7 Hz
Rotary angle backlash	0.05 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	5.4 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	603 N
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	20 Nm
Permissible mass moment of inertia	0.004 kgm²
Product weight	8155 g
Basic weight for 0 mm stroke	5355 g
Additional weight per 10 mm stroke	175 g
Type of mounting	Clamped in T-slot With 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