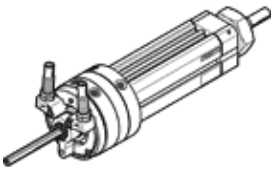
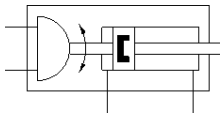
swivel/linear unit
DSL-20-80-270-CC-A-S20-KF-B

Part number: 556640

FESTO

For proximity sensing. Rotary and linear movement can be actuated independently of one another. Rotary movement of 0° - 270° infinitely adjustable.





Data sheet

Feature	Value
Cushioning angle	12 deg
Rotation angle adjustment range	0 ... 246 deg
Stroke	80 mm
Piston diameter	20 mm
Swivel angle	0 ... 246 deg
Cushioning	CC: Shock absorber at both ends P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Fine adjustment	-3 deg
Mode of operation	double-acting
Design structure	Rotary vane
Position detection	For proximity sensor
Variants	Through, hollow piston rod
Protection against torque/guide	with ball-bearing guide
Operating pressure	2.5 ... 8 bar
Max. impact speed	500 mm/s
Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)	1 Hz
Swivel angle backlash	0.05 deg
Repetition accuracy	0.1 deg
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364-B2-L
Ambient temperature	-10 ... 60 °C
Dynamic load torque	0.35 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	120.5 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	158 N
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	2.5 Nm
Permissible mass moment of inertia	0.0012 kgm2
Product weight	1,220 g
Basic weight for 0 mm stroke	1,220 g
Additional weight per 10 mm stroke	52 g
Mounting type	Clamped in T-slot with external (male) thread Optional
Pneumatic connection	M5
Material cover	Wrought Aluminium alloy Anodised
Material seals	TPE-U(PU)
Material housing	Wrought Aluminium alloy Smooth anodised
Material piston rod	Heat-treatment steel