

Swivel actuator unit DSL-16-100-270-CC-A-S20-B

Part number: 556418

FESTO



Data sheet

Feature	Value
Cushioning angle	15 deg
Adjustment range of swivel angle	0 deg...246 deg
Stroke	100 mm
Piston diameter	16 mm
Swivel angle	0 deg...246 deg
Cushioning	Pneumatic shock absorber at both ends Elastic cushioning rings/pads at both ends
Mounting position	Any
Precision adjustment	-3 deg
Mode of operation	Double-acting
Structural design	Rotary vane
Position sensing	Via proximity switch
Variants	Through, hollow piston rod
Protection against torsion/guide	With plain bearing-guide
Operating pressure	2.5 bar...8 bar
Max. impact velocity	500 mm/s
Max. swivel frequency at 6 bar	1.5 Hz
Swivel angle backlash	2 deg
Repetition accuracy	0.1 deg
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Ambient temperature	-10 °C...60 °C
Dynamic load torque	0.1 Nm
Theoretical force at 6 bar, retracting	73.5 N
Theoretical force at 6 bar, advancing	102.5 N
Theoretical torque at 6 bar	1.25 Nm
Permissible mass moment of inertia	0.0007 kgm ²
Product weight	1027 g
Basic weight with 0 mm stroke	697 g
Additional weight per 10 mm stroke	33 g

Feature	Value
Type of mounting	Alternatively: Clamped in T slot With external thread
Pneumatic connection	M5
Cover material	Wrought aluminum alloy Anodized
Seals material	TPE-U(PU)
Housing material	Wrought aluminum alloy Smooth-anodized
Piston rod material	Quenched and tempered steel