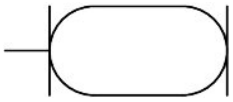
Fluidic muscle
DMSP-10-80N-RM-CM

Part number: 8114536





Data sheet

Feature	Value
Size	10
Diameter expansion at max. contraction	24 mm
Stroke	0 mm...20 mm
Max. contraction	25 % of nominal length
Max. pre-tensioning	3 % of nominal length
Nominal length	80 mm
Muscle repetition accuracy	<= 1% of nominal length, cyclic
Permissible parallelism tolerance	±0.5 % up to a nominal length of 400 mm
Permissible angle tolerance	1 deg
Mounting position	Any
Structural design	Contracting diaphragm
Operating pressure	0 MPa...0.8 MPa 0 bar...8 bar
Mode of operation	Single-acting Pulling
Certification	TÜV
Operating medium	Compressed air as per ISO 8573-1:2010 [7:-:-]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Ambient temperature	-5 °C...60 °C
Maximum additional load freely suspended	30 kg
Theoretical force Fluidic Muscle at maximum operating pressure	630 N
Theoretical force at 6 bar	480 N
Pneumatic connection	G1/8
Note on materials	RoHS compliant
Material of flange	Wrought aluminum alloy Colorless anodized
Sleeve material	Wrought aluminum alloy Colorless anodized
Diaphragm material	AR Chloroprene rubber
Nut material	Steel

Feature	Value
	Galvanized