

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

Part number: 8114536

FESTO



 General operating condition

## 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
Symbol	00991121
Operating pressure	0 MPa ... 0.8 MPa
Operating pressure	0 bar ... 8 bar
Mode of operation	Single-acting Pulling
Certification	German Technical Control Board (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 Plain anodized
Sleeve material	Plain anodized
Diaphragm material	AR Chloroprene rubber
Nut material	Steel Galvanized