

Fluidic muscle DMSP-20- -

Part number: 541404

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size	20
Diameter expansion at max. contraction	40 mm
Stroke	0 mm ... 2250 mm
Max. contraction	25 % of nominal length
Max. pre-tensioning	4 % of nominal length
Nominal length	60 mm ... 9000 mm
Muscle repetition accuracy	≤ 1% of nominal length, cyclic
Permissible parallelism tolerance	≤ 2 mm for a nominal length of at least 400 mm ±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 ... 0.6 MPa
Operating pressure	0 bar ... 6 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	80 kg
Theoretical force Fluidic Muscle at maximum operating pressure	1500 N
Theoretical force at 6 bar	1500 N
Additional weight per 1 m length	178 g
Pneumatic connection	G1/4
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