

# Fluidic muscle DMSP-10- -

Part number: 541403

FESTO



 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size	10
Diameter increase with max. contraction	24 mm
Stroke	0 mm ... 2250 mm
Max. contraction	25% of nominal length
Max. initial tension	3% of nominal length
Nominal length	40 mm ... 9000 mm
Repetition accuracy muscle	≤ 1% of nominal length, cyclical
Permissible parallelism tolerance	≤ 2 mm above nominal length of 400 mm ± 0.5% up to nominal length of 400 mm
Permissible angle tolerance	≤ 1 deg
Mounting position	Any
Design	Contracting diaphragm
Symbol	00991121
Operating pressure	0 MPa ... 0.8 MPa
Operating pressure	0 bar ... 8 bar
Mode of operation	Single-acting Pulling
Approval	German Technical Control Board (TÜV)
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Ambient temperature	-5 °C ... 60 °C
Max. working load freely suspended	30 kg
Theoretical Fluidic Muscle force at max. operating pressure	630 N
Theoretical force at 0.6 MPa (6 bar, 87 psi)	480 N
Additional weight per 1 m length	94 g
Pneumatic connection	G1/8
Note on materials	RoHS compliant
Material flange	Wrought aluminium alloy Colourless anodised
Material sleeve	Colourless anodised
Material membrane	AR Chloroprene rubber

Feature	Value
Material nut	Steel Galvanised