

Fluidic muscle DMSP-5-50N-RM-CM

Part number: 8114532

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Size	5
Diameter increase with max. contraction	12 mm
Stroke	0 mm ... 12.5 mm
Max. contraction	20% of nominal length
Max. initial tension	1% of nominal length
Nominal length	50 mm
Repetition accuracy muscle	≤ 1% of nominal length, cyclical
Permissible parallelism tolerance	± 0.5% up to nominal length of 400 mm
Permissible angle tolerance	≤ 1 deg
Mounting position	optional
Design	Contracting diaphragm
Symbol	00991121
Operating pressure	0 MPa ... 0.6 MPa
Operating pressure	0 bar ... 6 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	5 kg
Theoretical Fluidic Muscle force at max. operating pressure	140 N
Theoretical force at 0.6 MPa (6 bar, 87 psi)	140 N
Pneumatic connection	M3
Note on materials	RoHS-compliant
Material flange	Wrought aluminium alloy Colourless anodised
Material sleeve	Colourless anodised
Material membrane	AR Chloroprene rubber
Material nut	Steel Galvanised