

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

Part number: 8114532

FESTO



 [General operating condition](#)

## Data sheet

Feature	Value
Size	5
Diameter expansion at max. contraction	12 mm
Stroke	0 mm ... 12.5 mm
Max. contraction	20 % of nominal length
Max. pre-tensioning	1 % of nominal length
Nominal length	50 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 ... 0.6 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	5 kg
Theoretical force Fluidic Muscle at maximum operating pressure	140 N
Theoretical force at 6 bar	140 N
Pneumatic connection	M3
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