

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

Part number: 8114532

FESTO



## Data sheet

Feature	Value
Size	5
Diameter expansion at max. contraction	12 mm
Stroke	0 mm...200 mm
Max. contraction	20 % of nominal length
Max. pre-tensioning	1 % of nominal length
Nominal length	50 mm
Muscle repetition accuracy	$\leq 1$ % of nominal length, cyclic
Permissible parallelism tolerance	$\pm 0.5$ % up to a nominal length of 400 mm
Permissible angle tolerance	1 deg
Mounting position	Any
Structural design	Contracting diaphragm
Operating pressure	0 MPa...0.6 MPa 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	Wrought aluminum alloy Plain anodized
Diaphragm material	AR Chloroprene rubber

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Nut material	Steel Galvanized