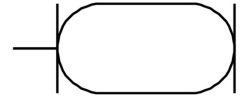


Fluidic muscle DMSP-10-80N-RM-CM

Part number: 8114536

FESTO



Data sheet

Feature	Value
Size	10 10
Diameter expansion at max. contraction	24 mm
Stroke	0 mm ... 2250 mm
Max. contraction	25 % of nominal length
Max. pre-tensioning	3 % of nominal length
Nominal length	80 mm
Muscle repetition accuracy	≤ 1 % of nominal length, cyclic
Permissible parallelism tolerance	±0.5 % up to a nominal length of 400 mm ±0.5 % up to a nominal length of 400 mm
Permissible angle tolerance	≤ 1 deg
Type code	DMSP DMSP
Mounting position	Any Any
Design	Contracting diaphragm Contracting diaphragm
Symbol	00991121 00991121
Operating pressure	0 bar ... 8 bar
Mode of operation	Pulling Single-acting Single-acting Pulling
Operating medium	Compressed air as per ISO 8573-1:2010 [7:-:-] Compressed air as per ISO 8573-1:2010 [7:-:-]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use) Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress 2 - Moderate corrosion stress
Ambient temperature	-5 °C ... 60 °C
Certification	German Technical Control Board (TÜV) German Technical Control Board (TÜV)
Maximum additional load freely suspended	30 kg
Theoretical force Fluidic Muscle at maximum operating pressure	630 N
Theoretical force at 6 bar	480 N
Pneumatic connection	G1/8 G1/8

Feature	Value
Note on materials	Contains paint-wetting impairment substances Free of copper and PTFE RoHS-compliant Free of copper and PTFE Contains paint-wetting impairment substances RoHS-compliant
Material of flange	Wrought aluminum alloy Plain anodized Plain anodized
Sleeve material	Wrought aluminum alloy Plain anodized Plain anodized
Diaphragm material	CR AR CR
Nut material	Galvanized Steel Steel Galvanized