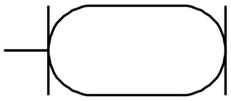
Fluidic muscle
DMSP-40-120N-RM-CM

Part number: 8114530





Data sheet

Feature	Value
Size	40 40
Diameter expansion at max. contraction	80 mm
Stroke	0 mm ... 2250 mm
Max. contraction	25 % of nominal length
Max. pre-tensioning	5 % of nominal length 5 % of nominal length
Nominal length	120 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 ... 6 bar
Mode of operation	Single-acting Pulling 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	250 kg
Theoretical force Fluidic Muscle at maximum operating pressure	6000 N
Theoretical force at 6 bar	6000 N
Pneumatic connection	G3/8 G3/8

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