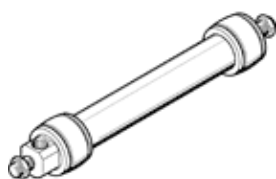


# Fluidic muscle

## DMSP-10-80N-RM-CM

Part number: 8114536

FESTO



### Data sheet

Feature	Value
Size	10
Diameter expansion at max. contraction	24 mm
Stroke	0 ... 2,250 mm
Max. contraction	25% of nominal length
Max. initial tension	3% of nominal length
Nominal length	80 mm
Repetition accuracy	≤ 1% of nominal length, cyclical
Permissible tolerance for parallelism	±0.5% for nominal lengths of up to 400 mm
Permissible angular tolerance	≤ 1 deg
Assembly position	Any
Design structure	Contractible membrane
Operating pressure MPa	0 ... 0.8 MPa
Working pressure	0 ... 8 bar
Mode of operation	single-acting pulling action
Authorization	TÜV
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:-:-]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364 zone III
Ambient temperature	-5 ... 60 °C
Maximum freely suspended additional load	30 kg
Theoretical muscular energy at maximum working pressure	630 N
Theoretical force at 0.6 MPa (6 bar, 87 psi)	480 N
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material flange	Wrought Aluminum alloy neutral anodization
Material sleeve	Wrought Aluminum alloy neutral anodization
Material membrane	AR CR
Material nut	Steel Galvanized