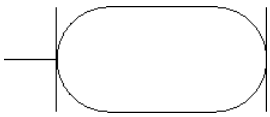
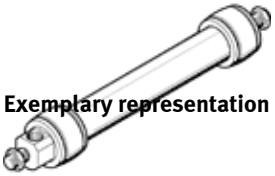
fluidic muscle
DMSP-10- -

Part number: 541403

FESTO





Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

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	40 ... 9,000 mm
Repetition accuracy	<= 1% of nominal length, cyclical
Permissible tolerance for parallelism	<= 2 mm as of a nominal length of 400 mm ±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
Operating pressure	0 ... 8 bar
Mode of operation	single-acting pulling action
Authorisation	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 operating pressure	630 N
Theoretical force at 0.6 MPa (6 bar, 87 psi)	480 N
Additional weight per 1 m length	94 g
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material flange	Wrought Aluminium alloy neutral anodisation
Material sleeve	Wrought Aluminium alloy neutral anodisation
Material membrane	AR CR
Material nut	Steel Galvanised