

Profile cylinder DNC-5"-1"-P-A

Part number: 178101

FESTO



Data sheet

Feature	Value
Type code	DNC
Stroke	25.4 mm
Piston diameter	5"
Piston rod thread	1-12 UNF-2A
Based on norm	ISO 15552 (previously also VDMA 24562, ISO 6431, NF E49 003.1, UNI 10290)
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Piston rod end	External thread
Structural design	Piston Piston rod Profile barrel
Position sensing	For proximity sensor
Symbol	00991217
Variants	Piston rod at one end
Operating pressure	0.06 MPa ... 1 MPa
Operating pressure	0.6 bar ... 10 bar
Mode of operation	Double-acting
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Ambient temperature	-20 °C ... 80 °C
Impact energy in the end positions	5 J
Theoretical force at 6 bar, retracting	6881 N
Theoretical force at 6 bar, advancing	7363 N
Moving mass at 0 mm stroke	2809 g
Additional weight per 10 mm stroke	168 g
Basic weight with 0 mm stroke	6771 g
Additional moving mass per 10 mm stroke	63 g
Type of mounting	With internal thread With accessories
Pneumatic connection	NPT1/2-14
Note on materials	RoHS-compliant
Cover material	Die-cast aluminum Coated
Seals material	TPE-U(PU)
Piston rod material	High-alloy steel

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Material of cylinder barrel	Wrought aluminum alloy Smooth anodized