

# Profile cylinder DNC-2 1/2"-6"-PPV-A

Part number: 177977

FESTO

As per ISO 15552, with profile cylinder barrel, for proximity sensing,  
with adjustable cushioning at both end positions.



## Data sheet

Feature	Value
Stroke	6 "
Piston diameter	2 1/2"
Piston rod thread	5/8-18 UNF-2A
Based on the standard	ISO 15552 (previously also VDMA 24652, ISO 6431, NF E49 003.1, UNI 10290)
Cushioning	PPV: Pneumatic cushioning adjustable at both ends
Assembly position	Any
Piston-rod end	Male thread
Design structure	Piston Piston rod Profile barrel
Position detection	For proximity sensor
Variants	Single-ended piston rod
Operating pressure MPa	0.06 ... 1.2 MPa
Working pressure	0.6 ... 12 bar
Mode of operation	double-acting
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
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-B1/B2-L
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	0.5 J
Cushioning length	22 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	1,682 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,870 N
Moving mass with 0 mm stroke	663 g
Additional mass factor per 10 mm of stroke	25 g
Basic weight for 0 mm stroke	1,709 g
Additional weight per 10 mm stroke	73 g
Mounting type	with internal (female) thread with accessories
Pneumatic connection	NPT3/8-18
Materials note	Conforms to RoHS
Material cover	Aluminum die cast coated
Material seals	TPE-U(PU)
Material piston rod	High alloy steel
Material cylinder barrel	Wrought Aluminum alloy Smooth anodized