

Profile cylinder DNC-2 1/2"-8"-PPV-A

Part number: 177978

FESTO

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



Data sheet

| Feature | Value |
|----------------------------------------------------------|-----------------------------------------------------------------------------|
| Stroke | 8 " |
| 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 |