

profile cylinder DNC-5"-16"-PPV-A

Part number: 178137

FESTO

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



Data sheet

| Feature | Value |
|--|---|
| Stroke | 16 " |
| Piston diameter | 5" |
| Piston rod thread | 1-12 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 MPa |
| Operating pressure | 0.6 ... 10 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 | 5 J |
| Cushioning length | 42 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 6,881 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 7,363 N |
| Moving mass with 0 mm stroke | 2,809 g |
| Additional mass factor per 10 mm of stroke | 63 g |
| Basic weight for 0 mm stroke | 6,771 g |
| Additional weight per 10 mm stroke | 168 g |
| Mounting type | with internal (female) thread with accessories |
| Pneumatic connection | NPT1/2-14 |
| Materials note | Conforms to RoHS |
| Material cover | Aluminium die cast coated |
| Material seals | TPE-U(PU) |
| Material piston rod | High alloy steel |
| Material cylinder barrel | Wrought Aluminium alloy Smooth anodised |