

profile cylinder DNC-3"-5"-P-A

Part number: 178002

FESTO

per ISO 15552, with profile cylinder barrel, with sensing option, non-adjustable cushioning.



Data sheet

| Feature | Value |
|--|---|
| Stroke | 5 " |
| Piston diameter | 3" |
| Piston rod thread | 3/4-16 UNF-2A |
| Based on the standard | ISO 15552 (previously also VDMA 24652, ISO 6431, NF E49 003.1, UNI 10290) |
| Cushioning | P: Flexible cushioning rings/plates 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 |
| Operating 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 | 0.9 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 2,721 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 3,016 N |
| Moving mass with 0 mm stroke | 1,131 g |
| Additional mass factor per 10 mm of stroke | 38 g |
| Basic weight for 0 mm stroke | 2,790 g |
| Additional weight per 10 mm stroke | 106 g |
| Mounting type | with internal (female) thread with accessories |
| Pneumatic connection | NPT3/8-18 |
| 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 |