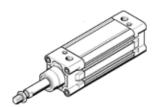
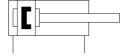
Profile cylinder DNC-2 1/2"-10"-P-A Part number: 177953

FESTO

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





Data sheet

| Feature | Value |
|--|---|
| Stroke | 10 " |
| 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 | 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 |
| 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 |
| 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 |