

Compact cylinder

ADN-50-10-A-PPS-A-C

Part number: 8076144

FESTO

Type to be discontinued. Available until 2022. See Support Portal for alternative products.



Data sheet

| Feature | Value |
|--|--|
| Stroke | 10 mm |
| Piston diameter | 50 mm |
| Piston rod thread | M12x1,25 |
| Cushioning | PPS: Self-adjusting pneumatic end-position cushioning |
| Assembly position | Any |
| Conforms to standard | ISO 21287 |
| Piston-rod end | Male thread |
| Design structure | Piston Piston rod |
| Position detection | For proximity sensor |
| Variants | Single-ended piston rod |
| Operating pressure MPa | 0.1 ... 1 MPa |
| Working pressure | 1 ... 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 | 1 - Low corrosion stress |
| PWIS conformity | VDMA24364-B2-L |
| Ambient temperature | -20 ... 80 °C |
| Impact energy in end positions | 2.8 J |
| Cushioning length | 6 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 1,057 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 1,178 N |
| Moving mass with 0 mm stroke | 118 g |
| Additional weight per 10 mm stroke | 63 g |
| Basic weight for 0 mm stroke | 495.5 g |
| Additional mass factor per 10 mm of stroke | 16 g |
| Mounting type | with through hole with internal (female) thread with accessories Optional |
| Pneumatic connection | G1/8 |
| Materials note | Conforms to RoHS |
| Material cover | Wrought Aluminum alloy |
| Material seals | TPE-U(PUR) |
| Material piston rod | High alloy steel |
| Material cylinder barrel | Wrought Aluminum alloy Smooth anodized |