

Compact cylinder

ADN-1 1 1/4"-3"-A-P-A

Part number: 557089

FESTO

Per ISO 21287, with position sensing and external piston rod thread



Data sheet

| Feature | Value |
|--|--|
| Stroke | 3 " |
| Piston diameter | 1 1/4" |
| Piston rod thread | 3/8-24 UNF-2A |
| Based on the standard | ISO 21287 |
| Cushioning | P: Flexible cushioning rings/plates at both ends |
| Assembly position | Any |
| Mode of operation | double-acting |
| 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 | 0.1 ... 1 MPa |
| Working pressure | 1 ... 10 bar |
| Operating pressure | 14.5 ... 145 psi |
| 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 | -4 ... 176 °F |
| Impact energy in end positions | 0.295 ft-lbf |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 93.296 lbf |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 108.583 lbf |
| Moving mass with 0 mm stroke | 2.124 oz |
| Additional mass factor per 10 mm of stroke | 1.062 oz |
| Basic weight for 0 mm stroke | 9.381 oz |
| Additional weight per 10 mm stroke | 0.319 oz |
| Mounting type | with through hole with internal (female) thread with accessories Optional |
| Pneumatic connection | 1/8 NPT |
| Material of flange screw | Steel |
| Material cover | Anodised wrought aluminium alloy |
| Material of dynamic seals | TPE-U(PU) |
| Material piston rod | High alloy steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |