

Compact cylinder

ADN-S-12-25-I-P-A-F1A

Part number: 8142566

FESTO



Data sheet

| Feature | Value |
|--|---|
| Stroke | 25 mm |
| Piston diameter | 12 mm |
| Cushioning | P: Flexible cushioning rings/plates at both ends |
| Assembly position | Any |
| Mode of operation | double-acting |
| Piston-rod end | Female thread |
| Design structure | Piston Piston rod |
| Position detection | For proximity sensor |
| Variants | Single-ended piston rod Recommended for production facilities for the manufacture of lithium-ion batteries |
| 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-B2-L |
| RSBP classification to CD-0033 | F1a |
| Cleanroom class | ISO class 6 |
| Ambient temperature | 0 ... 60 °C |
| Impact energy in end positions | 0.07 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 51 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 68 N |
| Moving mass with 0 mm stroke | 6 g |
| Additional mass factor per 10 mm of stroke | 2 g |
| Basic weight for 0 mm stroke | 33 g |
| Additional weight per 10 mm stroke | 15 g |
| Mounting type | with through hole with internal (female) thread |
| Pneumatic connection | M5 |
| Materials note | Conforms to RoHS |
| Material cover | Anodised wrought aluminium alloy |
| Material of dynamic seals | NBR TPE-U(PU) |
| Material housing | Anodised wrought aluminium alloy |
| Material piston rod | High alloy steel, non-corrosive |