

Compact cylinder ADN-12-50-A-P-A

Part number: 8178548

FESTO



Data sheet

| Feature | Value |
|--|--|
| Stroke | 50 mm |
| Piston diameter | 12 mm |
| Piston rod thread | M5 |
| Based on standard | ISO 21287 |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Piston-rod end | Male thread |
| Position detection | Via proximity switch |
| Variants | Piston rod at one end |
| Operating pressure | 0.1 MPa...1 MPa 1 bar...10 bar 14.5 psi...145 psi |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Cleanroom class | Class 6 according to ISO 14644-1 |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in end positions | 0.07 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 51 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 68 N |
| Moving mass | 22 g |
| Product weight | 126 g |
| Type of mounting | With through-hole Via female thread With accessories Either: |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Material collar screws | Steel |
| Material cover | Anodised wrought aluminium alloy |

| Feature | Value |
|--------------------------|---|
| Material seals | TPE-U(PUR) |
| Material piston rod | High-alloy steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |