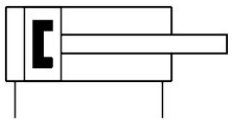
# Compact cylinder
# ADN-S-10-5-I-A

Part number: 5177082





## Data sheet

| Feature | Value |
|---|---|
| Stroke | 5 mm |
| Piston diameter | 10 mm |
| Cushioning | No cushioning |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Piston-rod end | Female thread |
| Design | Piston<br>Piston rod |
| Position detection | Via proximity switch |
| Variants | Piston rod at one end |
| Operating pressure | 0.1 MPa...0.8 MPa<br>1 bar...8 bar |
| 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 | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1 |
| Ambient temperature | -10 °C...60 °C |
| Impact energy in end positions | 0.012 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 30.2 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 47 N |
| Moving mass | 4.5 g |
| Product weight | 17 g |
| Type of mounting | With through-hole |
| Pneumatic connection | M3 |
| Note on materials | RoHS compliant |
| Material cover | Wrought aluminium alloy |
| Material dynamic seals | NBR<br>TPE-U(PU) |
| Material housing | Wrought aluminium alloy<br>anodised |
| Material piston rod | High-alloy stainless steel |