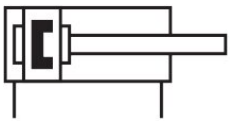
# Compact cylinder
# ADN-S-50-10-A-P

Part number: 8092082





## Data sheet

| Feature | Value |
|---|---|
| Stroke | 10 mm |
| Piston diameter | 50 mm |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Piston-rod end | Male thread |
| Design | Piston<br>Piston rod |
| Variants | Additional PTFE piston guide |
| Operating pressure | 0.04 MPa...1 MPa<br>0.4 bar...10 bar<br>5.8 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 | 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 | 0 °C...80 °C |
| Impact energy in end positions | 0.6 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 1057 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1178 N |
| Moving mass for 0 mm stroke | 105 g |
| Additional moving mass per 10 mm stroke | 16 g |
| Basic weight for 0 mm stroke | 310 g |
| Additional weight per 10 mm stroke | 63 g |
| Type of mounting | Either:<br>With through-hole<br>With female thread<br>With accessories |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS compliant |
| Material cover | Anodised wrought aluminium alloy |

| Feature | Value |
|---|---|
| Material dynamic seals | NBR |
| Material housing | Anodised wrought aluminium alloy |
| Material piston rod | High-alloy stainless steel |