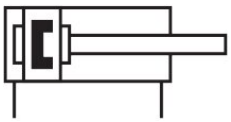
# Compact cylinder
# ADVU-100-50-A-P-A

Part number: 156669





## Data sheet

| Feature | Value |
|---|---|
| Stroke | 50 mm |
| Piston diameter | 100 mm |
| Piston rod thread | M20x1.5 |
| 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 |
| Position detection | Via proximity switch |
| Variants | Piston rod at one end |
| Operating pressure | 0.06 MPa...1 MPa<br>0.6 bar...10 bar<br>8.7 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 |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in end positions | 1 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 4418 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 4712 N |
| Moving mass for 0 mm stroke | 614 g |
| Additional moving mass per 10 mm stroke | 38 g |
| Basic weight for 0 mm stroke | 2797 g |
| Additional weight per 10 mm stroke | 177 g |
| Type of mounting | Either:<br>With through-hole<br>With accessories |
| Pneumatic connection | G1/4 |
| Material collar screws | Galvanised steel |
| Material cover | Wrought aluminium alloy |

| Feature | Value |
| --- | --- |
| Material dynamic seals | NBR<br>TPE-U(PU) |
| Material piston rod | High-alloy steel |
| Material cylinder barrel | Wrought aluminium alloy |