# Compact cylinder
# ADN-100-50-I-PPS-A

Part number: 577196

## Data sheet

| Feature | Value |
|---|---|
| Stroke | 50 mm |
| Piston diameter | 100 mm |
| Piston rod thread | M12 |
| Cushioning | Self-adjusting pneumatic end-position cushioning |
| Mounting position | Any |
| Conforms to standard | ISO 21287 |
| Piston-rod end | Female thread |
| Position detection | Via proximity switch |
| Variants | Piston rod at one end |
| Operating pressure | 0.1 MPa...1 MPa<br>1 bar...10 bar |
| Mode of operation | Double-acting |
| 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 | 2.5 J |
| Cushioning length | 10 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 4524 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 4712 N |
| Moving mass | 608 g |
| Product weight | 2122 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 collar screws | Steel |
| Material cover | Coated die-cast aluminium |
| Material seals | TPE-U(PUR) |

| Feature | Value |
|---|---|
| Material piston rod | High-alloy steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |