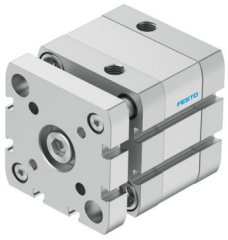
# Compact cylinder
# ADNGF-50-10-P-A

Part number: 554259



## Data sheet

| Feature | Value |
|---|---|
| Stroke | 10 mm |
| Piston diameter | 50 mm |
| Based on standard | ISO 21287 |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | Any |
| Design | Piston<br>Piston rod<br>Profile barrel |
| Position detection | Via proximity switch |
| Protection against torque/guide | Guide rod with yoke |
| 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 | 1 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 | 319 g |
| Product weight | 719 g |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS compliant |
| Material collar screws | Steel |
| Material cover | Anodised wrought aluminium alloy |
| Material seals | TPE-U(PUR) |
| Material end plate | Anodised wrought aluminium alloy |
| Material piston rod | High-alloy steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |