

Compact cylinder

ADNGF-1 5/8"-2 1/2"-P-A

Part number: 557249

FESTO



Data sheet

| Feature | Value |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke | 2.5 in |
| Piston diameter | 1 5/8" |
| Based on standard | ISO 21287 |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | optional |
| Design | Piston Piston rod Profile barrel |
| Position detection | Via proximity switch |
| Protection against torque/guide | Guide rod with yoke |
| Operating pressure | 0.1 MPa...1 MPa 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 | -4 °F...176 °F |
| Impact energy in end positions | 0.516 ft-lbf |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 154 lbf |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 170 lbf |
| Moving mass for 0 mm stroke | 5.81 oz |
| Additional moving mass per 10 mm stroke | 1.59 oz |
| Basic weight for 0 mm stroke | 15.2 oz |
| Additional weight per 10 mm stroke | 0.602 oz |
| Type of mounting | Either: With through-hole Via female thread With accessories |
| Pneumatic connection | 1/8 NPT |
| Material collar screws | Steel |
| Material cover | Anodised wrought aluminium alloy |

| Feature | Value |
|--------------------------|-----------------------------------------|
| Material seals | NBR |
| Material dynamic seals | TPE-U(PU) |
| Material end plate | Anodised wrought aluminium alloy |
| Material piston rod | High-alloy steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |