

Compact air cylinder ADN-2 1/2"-2"-A-P-A

Part number: 557143

FESTO



Data sheet

| Feature | Value |
|--|--|
| Stroke | 50.8 mm |
| Piston diameter | 2 1/2" |
| Piston rod thread | 1/2-20 UNF-2A |
| Type code | ADN |
| Based on norm | ISO 21287 |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Piston rod end | External thread |
| Structural design | Piston Piston rod Profile barrel |
| Position sensing | For proximity sensor |
| Variants | Piston rod at one end |
| Operating pressure | 0.1 MPa ... 1 MPa |
| Operating pressure | 1 bar ... 10 bar |
| Operating pressure | 14.5 psi ... 145 psi |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| Ambient temperature | -20 °C ... 80 °C |
| Impact energy in the end positions | 1.30023 J |
| Theoretical force at 6 bar, retracting | 1750.002 N |
| Theoretical force at 6 bar, advancing | 1870.002 N |
| Moving mass at 0 mm stroke | 180.646 g |
| Additional weight per 10 mm stroke | 16.046 g |
| Basic weight with 0 mm stroke | 724.598 g |
| Additional moving mass per 10 mm stroke | 59.223 g |
| Type of mounting | Optionally: With through-hole With internal thread With accessories |
| Pneumatic connection | 1/8 NPT |
| Flange screws material | Steel |
| Cover material | Wrought aluminum alloy Anodized |
| Material of dynamic seals | TPE-U(PU) |

| Feature | Value |
|-----------------------------|---|
| Piston rod material | High-alloy steel |
| Material of cylinder barrel | Wrought aluminum alloy Smooth anodized |