

Compact cylinder ADN-80- -

Part number: 536351

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|---|
| Stroke | 1 mm ... 500 mm |
| Piston diameter | 80 mm |
| Cushioning | Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning |
| Mounting position | optional |
| Conforms to standard | ISO 21287 |
| Design | Piston Piston rod Profile barrel |
| Position detection | Via proximity switch |
| Variants | Improved running performance Extended male piston rod thread Custom thread on the piston rod Extended piston rod With protection against rotation High corrosion protection Dust protection Uniform, slow movement Low friction Through piston rod Through, hollow piston rod Heat-resistant seals max. 120°C Laser etched rating plate Temperature range -40 to 80°C Piston rod at one end |
| Operating pressure | 0.06 MPa ... 1 MPa |
| Operating pressure | 0.6 bar ... 10 bar |
| Mode of operation | Double-acting |
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| ATEX category dust | II 2D |
| Explosion ignition protection type for gas | Ex h IIC T4 Gb |

| Feature | Value |
|--|--|
| Explosion ignition protection type for dust | Ex h IIIC T120°C Db |
| Explosion ambient temperature | -20°C ≤ Ta ≤ +60°C |
| 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 | 0 - No corrosion stress 2 - Moderate corrosion stress 3 - high corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L VDMA24364 zone III |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Ambient temperature | -40 °C ... 120 °C |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 2827 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 2827 N ... 3016 N |
| Additional weight per piston rod extension of 10 mm | 25 g |
| Additional weight per piston rod thread extension of 10 mm | 16 g |
| Type of mounting | With through-hole Via female thread With accessories |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS-compliant |
| Material collar screws | Steel |
| Material cover | Coated die-cast aluminium Anodised wrought aluminium alloy |
| Material piston rod | High-alloy steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |