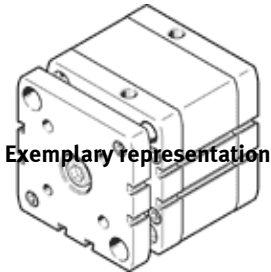


compact cylinder ADNGF-80- -

Part number: 537131

FESTO

In accordance with ISO 21287, with plain-bearing guide, piston rod secured against rotation by means of guide rods and yoke plate.



Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|--|--|
| Stroke | 5 ... 300 mm |
| Piston diameter | 80 mm |
| Based on the standard | ISO 21287 |
| Cushioning | P: Flexible cushioning rings/plates at both ends PPS: Self-adjusting pneumatic end-position cushioning |
| Assembly position | Any |
| Design structure | Piston Piston rod Profile barrel |
| Position detection | For proximity sensor |
| Variants | EX protection approval (ATEX) Through piston rod Heat resistant seals, max. 120°C laser etched rating plate |
| Protection against torque/guide | Guide rod with yoke |
| Operating pressure MPa | 0.1 ... 1 MPa |
| Operating pressure | 1 ... 10 bar |
| Mode of operation | double-acting |
| CE mark (see declaration of conformity) | to EU directive explosion protection (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| ATEX category Gas | II 2G |
| ATEX category Dust | II 2D |
| Explosion ignition protection type Gas | Ex h IIC T4 Gb |
| Explosion ignition protection type Dust | Ex h IIIC T120°C Db |
| Explosion-proof ambient temperature | -20°C ≤ Ta ≤ +60°C |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| PWIS conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 ... 120 °C |
| Impact energy in end positions | 1.8 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 2,827 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 3,016 N |
| Moving mass with 0 mm stroke | 778 g |
| Additional mass factor per 10 mm of stroke | 43 g |
| Basic weight for 0 mm stroke | 1,468 g |
| Additional weight per 10 mm stroke | 97 g |
| Pneumatic connection | G1/8 |
| Materials note | Conforms to RoHS |
| Material of flange screw | Steel |

| Feature | Value |
|--------------------------|---|
| Material cover | Die-cast aluminium, coated |
| 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 |