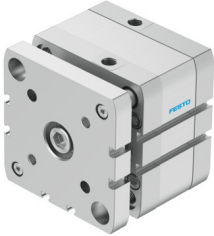


Compact air cylinder ADNGF-80- -

Part number: 537131

FESTO



Data sheet

| Feature | Value |
|---|---|
| Stroke | 5 mm...300 mm |
| Piston diameter | 80 mm |
| Based on norm | ISO 21287 |
| Cushioning | Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning |
| Mounting position | Any |
| Structural design | Piston Piston rod Profile barrel |
| Position sensing | For proximity sensor |
| Variants | EX protection approval (ATEX) Through piston rod Heat-resistant seals max. 120°C Laser etched rating plate |
| Protection against torsion/guide | Guide rod with yoke |
| Operating pressure | 0.1 MPa...1 MPa 1 bar...10 bar |
| Mode of operation | Double-acting |
| CE marking (see declaration of conformity) | as per EU explosion protection directive (ATEX) |
| UKCA marking (see declaration of conformity) | acc. to UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion prevention and 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 for dust | II 2D |
| Type of ignition protection for gas | Ex h IIC T4 Gb |
| Type of (ignition) protection for dust | Ex h IIIC T120°C Db |
| Explosive ambient temperature | -20°C ≤ Ta ≤ +60°C |
| 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) |

| Feature | Value |
|--|---|
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 °C...120 °C |
| Impact energy in the end positions | 1.8 J |
| Theoretical force at 6 bar, retracting | 2827 N |
| Theoretical force at 6 bar, advancing | 3016 N |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS-compliant |
| Flange screws material | Steel |
| Cover material | Die-cast aluminum, coated |
| Seals material | TPE-U(PUR) |
| End plate material | Wrought aluminum alloy, anodized |
| Piston rod material | High-alloy steel |
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized |