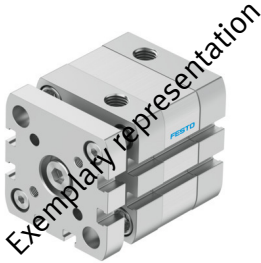


Compact cylinder ADNGF-40

Part number: 537128

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|--|
| Stroke | 5 mm ... 300 mm |
| Piston diameter | 40 mm |
| Based on standard | ISO 21287 |
| Cushioning | Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning |
| Mounting position | Any |
| Design | Piston Piston rod Profile barrel |
| Position detection | Via proximity switch |
| Variants | EX protection approval (ATEX) Advancing stroke adjustment Low friction Through, hollow piston rod Temperature range 0 to 150°C |
| Protection against torque/guide | Guide rod with yoke |
| Operating pressure | 0.1 MPa ... 1 MPa |
| Operating pressure | 1 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 |
| 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 | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |

| Feature | Value |
|--|---|
| Ambient temperature | -20 °C ... 120 °C |
| Impact energy in end positions | 0.7 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 686 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 754 N |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS compliant |
| Material collar screws | Steel |
| Material cover | Anodised wrought aluminium alloy |
| 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 |