

# Compact cylinder ADN-32- -

Part number: 536267

FESTO



 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature   | Value   |
|---|---|
| Stroke  | 1 mm ... 400 mm   |
| Piston diameter                                   | 32 mm   |
| Cushioning  | Elastic cushioning rings/plates at both ends<br>Self-adjusting pneumatic end-position cushioning  |
| Mounting position                                 | Any   |
| Conforms to standard                              | ISO 21287   |
| Design  | Piston<br>Piston rod<br>Profile barrel  |
| Position detection                                | Via proximity switch  |
| Variants  | Advancing stroke adjustment<br>Stroke adjustment advancing/at front<br>Weld spatter protection<br>Piston rod with female thread<br>Piston rod with external hexagon<br>Module for reaching a specific end position in case of a pressure failure<br>Transverse force increased<br>High corrosion protection<br>Reinforced piston rod<br>Uniform, slow movement<br>Low friction<br>Through piston rod<br>Through, hollow piston rod<br>Temperature range 0 to 150°C<br>Temperature range -40 to 80°C<br>Additional PTFE piston guide |
| 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)<br>EPL Gb (GB)  |
| Explosion protection                              | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX)   |
| ATEX category gas                                 | II 2G   |
| ATEX category dust                                | II 2D   |

| Feature  | Value  |
|--|--|
| 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                               | 0 - No corrosion stress<br>2 - Moderate corrosion stress<br>3 - high corrosion stress      |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L<br>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  | 415 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 415 N ... 483 N  |
| Additional weight per piston rod extension of 10 mm          | 9 g  |
| Additional weight per piston rod thread extension of 10 mm   | 6 g  |
| Type of mounting   | With through-hole<br>With female thread<br>With accessories                                |
| Pneumatic connection   | G1/8   |
| Note on materials  | RoHS compliant   |
| Material collar screws                                       | Steel  |
| Material cover   | Anodised wrought aluminium alloy   |
| Material piston rod  | High-alloy steel   |
| Material cylinder barrel                                     | Smooth-anodised wrought aluminium alloy  |