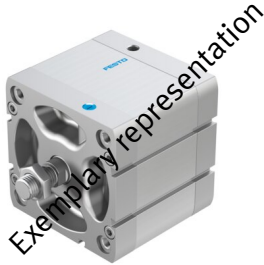


# Compact cylinder AEN-100- -

Part number: 536423

FESTO



General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                                      | Value                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stroke                                                       | 1 mm ... 25 mm                                                                                                                                                                                                                                                    |
| Piston diameter                                              | 100 mm                                                                                                                                                                                                                                                            |
| Cushioning                                                   | Elastic cushioning rings/plates at both ends                                                                                                                                                                                                                      |
| Mounting position                                            | optional                                                                                                                                                                                                                                                          |
| Conforms to standard                                         | ISO 21287                                                                                                                                                                                                                                                         |
| Design                                                       | Piston<br>Piston rod<br>Profile barrel                                                                                                                                                                                                                            |
| Position detection                                           | Via proximity switch                                                                                                                                                                                                                                              |
| Variants                                                     | Improved running performance<br>Extended male piston rod thread<br>Custom thread on the piston rod<br>Extended piston rod<br>With protection against rotation<br>Heat-resistant seals max. 120°C<br>Laser etched rating plate<br>Pulling<br>Piston rod at one end |
| Operating pressure                                           | 0.1 MPa ... 1 MPa                                                                                                                                                                                                                                                 |
| Operating pressure                                           | 1 bar ... 10 bar                                                                                                                                                                                                                                                  |
| Mode of operation                                            | Pushing<br>Single-acting<br>Pulling                                                                                                                                                                                                                               |
| 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                                                                                                                                                                                                                                                 |
| Ambient temperature                                          | -20 °C ... 120 °C                                                                                                                                                                                                                                                 |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 4230 N                                                                                                                                                                                                                                                            |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 4416 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                                             | Either:<br>With through-hole<br>Via female thread<br>With accessories                                                                                                                                                                                             |
| Pneumatic connection                                         | G1/8                                                                                                                                                                                                                                                              |
| Note on materials                                            | RoHS-compliant                                                                                                                                                                                                                                                    |

| Feature                  | Value                                   |
|--------------------------|-----------------------------------------|
| Material collar screws   | Steel                                   |
| Material cover           | Coated die-cast aluminium               |
| Material piston rod      | High-alloy steel                        |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |