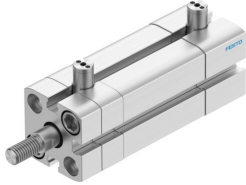


# Compact cylinder ADN-20- -EL-

Part number: 548214

**FESTO**



## Data sheet

| Feature                                  | Value                                                                                                                                                                                                                                  |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stroke                                   | 10 mm...300 mm                                                                                                                                                                                                                         |
| Piston diameter                          | 20 mm                                                                                                                                                                                                                                  |
| Piston rod thread                        | M8                                                                                                                                                                                                                                     |
| Based on norm                            | ISO 21287                                                                                                                                                                                                                              |
| Cushioning                               | Elastic cushioning rings/pads at both ends                                                                                                                                                                                             |
| Mounting position                        | Any                                                                                                                                                                                                                                    |
| Piston rod end                           | Internal thread                                                                                                                                                                                                                        |
| Structural design                        | Piston<br>Piston rod<br>Cylinder barrel                                                                                                                                                                                                |
| Position sensing                         | Via proximity switch                                                                                                                                                                                                                   |
| Variants                                 | With end-position locking at both ends<br>With rear end-position locking<br>With front end-position locking<br>Extended external thread piston rod<br>Special thread on piston rod<br>Extended piston rod<br>Laser etched rating plate |
| Operating pressure                       | 0.25 MPa...1 MPa<br>2.5 bar...10 bar                                                                                                                                                                                                   |
| Mode of operation                        | Double-acting                                                                                                                                                                                                                          |
| 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)                                                                                                                                                                     |
| Corrosion resistance class (CRC)         | 2 - Moderate corrosion stress                                                                                                                                                                                                          |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L                                                                                                                                                                                                                      |
| Ambient temperature                      | -20 °C...80 °C                                                                                                                                                                                                                         |
| Impact energy in the end positions       | 0.2 J                                                                                                                                                                                                                                  |
| Theoretical force at 6 bar, retracting   | 141 N                                                                                                                                                                                                                                  |
| Theoretical force at 6 bar, advancing    | 188 N                                                                                                                                                                                                                                  |
| Additional moving mass per 10 mm stroke  | 6 g                                                                                                                                                                                                                                    |
| Type of mounting                         | With internal thread<br>With accessories                                                                                                                                                                                               |
| Pneumatic connection                     | M5                                                                                                                                                                                                                                     |
| Note on materials                        | RoHS compliant                                                                                                                                                                                                                         |

| Feature                     | Value                                     |
|-----------------------------|-------------------------------------------|
| Cover material              | Wrought aluminum alloy<br>Anodized        |
| Piston rod material         | High-alloy steel                          |
| Material of cylinder barrel | Wrought aluminum alloy<br>Smooth-anodized |