

# Compact cylinder ADN-50- -KP-

Part number: 548210

**FESTO**



## Data sheet

| Feature                                  | Value                                                                                                                   |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Stroke                                   | 10 mm...400 mm                                                                                                          |
| Piston diameter                          | 50 mm                                                                                                                   |
| Piston rod thread                        | M12x1.25                                                                                                                |
| Based on norm                            | ISO 21287                                                                                                               |
| Cushioning                               | Elastic cushioning rings/pads at both ends                                                                              |
| Mounting position                        | Any                                                                                                                     |
| Clamping type with active direction      | Both sides                                                                                                              |
| Piston rod end                           | Internal thread                                                                                                         |
| Structural design                        | Piston<br>Piston rod<br>Cylinder barrel                                                                                 |
| Position sensing                         | Via proximity switch                                                                                                    |
| Variants                                 | Extended external thread piston rod<br>Special thread on piston rod<br>Extended piston rod<br>Laser etched rating plate |
| Operating pressure                       | 0.15 MPa...1 MPa<br>1.5 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                      | -10 °C...80 °C                                                                                                          |
| Impact energy in the end positions       | 1 J                                                                                                                     |
| Theoretical force at 6 bar, retracting   | 990 N                                                                                                                   |
| Theoretical force at 6 bar, advancing    | 1178 N                                                                                                                  |
| Moving mass at 0 mm stroke               | 296 g                                                                                                                   |
| Additional moving mass per 10 mm stroke  | 25 g                                                                                                                    |
| Basic weight with 0 mm stroke            | 1268 g                                                                                                                  |
| Additional weight per 10 mm stroke       | 60 g                                                                                                                    |
| Type of mounting                         | With internal thread<br>With accessories                                                                                |

| Feature                     | Value                                     |
|-----------------------------|-------------------------------------------|
| Pneumatic connection        | G1/8                                      |
| Note on materials           | RoHS compliant                            |
| Cover material              | Wrought aluminum alloy<br>Anodized        |
| Piston rod material         | High-alloy steel                          |
| Material of cylinder barrel | Wrought aluminum alloy<br>Smooth-anodized |