

# Compact cylinder ADN-12-50-A-P-A

Part number: 8178548

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Stroke                                   | 50 mm                                                              |
| Piston diameter                          | 12 mm                                                              |
| Piston rod thread                        | M5                                                                 |
| Based on norm                            | ISO 21287                                                          |
| Cushioning                               | Elastic cushioning rings/pads at both ends                         |
| Mounting position                        | Any                                                                |
| Mode of operation                        | Double-acting                                                      |
| Piston rod end                           | External thread                                                    |
| Position sensing                         | For proximity sensor                                               |
| Symbol                                   | 00991217                                                           |
| Variants                                 | Piston rod at one end                                              |
| Operating pressure                       | 0.1 MPa ... 1 MPa                                                  |
| Operating pressure                       | 1 bar ... 10 bar                                                   |
| Operating pressure                       | 14.5 psi ... 145 psi                                               |
| 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                                                  |
| Cleanroom class                          | Class 5 according to ISO 14644-1                                   |
| Ambient temperature                      | -20 °C ... 80 °C                                                   |
| Impact energy in the end positions       | 0.07 J                                                             |
| Theoretical force at 6 bar, retracting   | 51 N                                                               |
| Theoretical force at 6 bar, advancing    | 68 N                                                               |
| Moving mass                              | 22 g                                                               |
| Product weight                           | 126 g                                                              |
| Type of mounting                         | With through-hole<br>With internal thread<br>With accessories      |
| Pneumatic connection                     | M5                                                                 |
| Note on materials                        | RoHS-compliant                                                     |
| Flange screws material                   | Steel                                                              |
| Cover material                           | Wrought aluminum alloy, anodized                                   |
| Seals material                           | TPE-U(PUR)                                                         |
| Piston rod material                      | High-alloy steel                                                   |
| Material of cylinder barrel              | Wrought aluminum alloy, smooth-anodized                            |