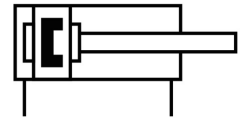


# Compact air cylinder ADN-S-32-50-A-P-A

Part number: 8091458

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                  | Value                                                                        |
|------------------------------------------|------------------------------------------------------------------------------|
| Stroke                                   | 50 mm                                                                        |
| Piston diameter                          | 32 mm                                                                        |
| Cushioning                               | Elastic cushioning rings/pads at both ends                                   |
| Mounting position                        | Any                                                                          |
| Mode of operation                        | Double-acting                                                                |
| Piston rod end                           | External thread                                                              |
| Structural design                        | Piston<br>Piston rod                                                         |
| Position sensing                         | For proximity sensor                                                         |
| Symbol                                   | 00991217                                                                     |
| Variants                                 | Piston rod at one end                                                        |
| Operating pressure                       | 0.06 MPa ... 1 MPa                                                           |
| Operating pressure                       | 0.6 bar ... 10 bar                                                           |
| 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)         | 1 - Low corrosion stress                                                     |
| LABS (PWIS) conformity                   | VDMA24364-B2-L                                                               |
| Cleanroom class                          | Class 6 according to ISO 14644-1                                             |
| Ambient temperature                      | 0 °C ... 60 °C                                                               |
| Impact energy in the end positions       | 0.4 J                                                                        |
| Theoretical force at 6 bar, retracting   | 415 N                                                                        |
| Theoretical force at 6 bar, advancing    | 483 N                                                                        |
| Moving mass at 0 mm stroke               | 37 g                                                                         |
| Additional moving mass per 10 mm stroke  | 9 g                                                                          |
| Basic weight with 0 mm stroke            | 117 g                                                                        |
| Additional weight per 10 mm stroke       | 36 g                                                                         |
| Type of mounting                         | Optionally:<br>With through-hole<br>With internal thread<br>With accessories |
| Pneumatic connection                     | M5                                                                           |
| Note on materials                        | RoHS-compliant                                                               |
| Cover material                           | Wrought aluminum alloy, anodized                                             |
| Material of dynamic seals                | NBR<br>TPE-U(PU)                                                             |
| Housing material                         | Wrought aluminum alloy, anodized                                             |
| Piston rod material                      | High-alloy stainless steel                                                   |