

# Compact cylinder ADN-S-32-45-A-P

Part number: 8091451

**FESTO**



## Data sheet

| Feature                                                   | Value                                                                           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------|
| Stroke                                                    | 45 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                                                            |
| Variants                                                  | Piston rod at one end                                                           |
| Operating pressure                                        | 0.06 MPa...1 MPa<br>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 suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1                                                |
| Ambient temperature                                       | 0 °C...80 °C                                                                    |
| Impact energy in the end positions                        | 0.26 J                                                                          |
| Theoretical force at 6 bar, retracting                    | 415 N                                                                           |
| Theoretical force at 6 bar, advancing                     | 483 N                                                                           |
| Moving mass at 0 mm stroke                                | 31 g                                                                            |
| Additional moving mass per 10 mm stroke                   | 9 g                                                                             |
| Basic weight with 0 mm stroke                             | 107 g                                                                           |
| Additional weight per 10 mm stroke                        | 36 g                                                                            |
| Type of mounting                                          | Alternatively:<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                                                                             |
| Housing material                                          | Wrought aluminum alloy, anodized                                                |

| Feature             | Value                      |
|---------------------|----------------------------|
| Piston rod material | high-alloy stainless steel |