

# Compact cylinder ADN-25-80-A-PPS-A

Part number: 8178884

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                  | Value  |
|--|--|
| Stroke                                   | 80 mm  |
| Piston diameter                          | 25 mm  |
| Piston rod thread                        | M8   |
| Cushioning                               | Self-adjusting pneumatic end-position cushioning                             |
| Mounting position                        | Any  |
| Conforms to standard                     | ISO 21287  |
| Piston rod end                           | External thread  |
| Position sensing                         | For proximity sensor   |
| Symbol                                   | 00991217   |
| Variants                                 | Piston rod at one end  |
| Operating pressure                       | 0.15 MPa ... 1 MPa   |
| Operating pressure                       | 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  |
| Cleanroom class                          | Class 6 according to ISO 14644-1   |
| Ambient temperature                      | -20 °C ... 80 °C   |
| Impact energy in the end positions       | 0.3 J  |
| Cushioning length                        | 3.5 mm   |
| Theoretical force at 6 bar, retracting   | 247 N  |
| Theoretical force at 6 bar, advancing    | 295 N  |
| Moving mass                              | 90 g   |
| Product weight                           | 379 g  |
| Type of mounting                         | Optionally:<br>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                                      |