

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

Part number: 8178887

**FESTO**



## Data sheet

| Feature                                                   | Value                                                                           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------|
| Stroke                                                    | 80 mm                                                                           |
| Piston diameter                                           | 25 mm                                                                           |
| Piston rod thread                                         | M6                                                                              |
| Cushioning                                                | Self-adjusting pneumatic end-position cushioning                                |
| Mounting position                                         | Any                                                                             |
| Conforms to standard                                      | ISO 21287                                                                       |
| Piston rod end                                            | Internal thread                                                                 |
| Position sensing                                          | Via proximity switch                                                            |
| Variants                                                  | Piston rod at one end                                                           |
| 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                                                               |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 5 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                                               | 81 g                                                                            |
| Product weight                                            | 379 g                                                                           |
| Type of mounting                                          | Alternatively:<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                                                |

| Feature                     | Value                                   |
|-----------------------------|-----------------------------------------|
| Seals material              | TPE-U(PUR)                              |
| Piston rod material         | High-alloy steel                        |
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized |