

# Compact air cylinder ADN-20-50-I-PPS-A-C

Part number: 8076113

**FESTO**



## Data sheet

| Feature                                  | Value                                                                        |
|------------------------------------------|------------------------------------------------------------------------------|
| Stroke                                   | 50 mm                                                                        |
| Piston diameter                          | 20 mm                                                                        |
| Piston rod thread                        | M8                                                                           |
| Type code                                | ADN                                                                          |
| Cushioning                               | Self-adjusting pneumatic end-position cushioning                             |
| Mounting position                        | Any                                                                          |
| Conforms to standard                     | ISO 21287                                                                    |
| Piston rod end                           | Internal thread                                                              |
| Structural design                        | Piston<br>Piston rod                                                         |
| Position sensing                         | For proximity sensor                                                         |
| Symbol                                   | 00992970                                                                     |
| 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)         | 1 - Low corrosion stress                                                     |
| LABS conformity                          | VDMA24364-B2-L                                                               |
| Ambient temperature                      | -20 °C ... 80 °C                                                             |
| Impact energy in the end positions       | 0.65 J                                                                       |
| Cushioning length                        | 3 mm                                                                         |
| Theoretical force at 6 bar, retracting   | 141 N                                                                        |
| Theoretical force at 6 bar, advancing    | 188 N                                                                        |
| Moving mass at 0 mm stroke               | 24.5 g                                                                       |
| Additional weight per 10 mm stroke       | 26 g                                                                         |
| Basic weight with 0 mm stroke            | 110 g                                                                        |
| Additional moving mass per 10 mm stroke  | 6 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                                                       |
| Seals material                           | TPE-U(PUR)                                                                   |

| Feature                     | Value                                     |
|-----------------------------|-------------------------------------------|
| Piston rod material         | High-alloy steel                          |
| Material of cylinder barrel | Wrought aluminum alloy<br>Smooth anodized |