

# Standards-based cylinder DSNA-N-2" - -

Part number: 8117044

FESTO



## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                  | Value                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stroke                                   | 6.35 mm ... 1219.2 mm                                                                                                                                                                                                                                                                                                                                                                                                    |
| Piston diameter                          | 2"                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Piston rod thread                        | 1/2-20 UNF-2A<br>5/8-18 UNF-2A<br>7/16-20 UNF-2A<br>7/16-20 UNF-2B                                                                                                                                                                                                                                                                                                                                                       |
| Cushioning                               | Pneumatic cushioning, adjustable at both ends                                                                                                                                                                                                                                                                                                                                                                            |
| Mounting position                        | Any                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Conforms to standard                     | NFPA/T3.6.7                                                                                                                                                                                                                                                                                                                                                                                                              |
| Piston rod end                           | External thread<br>Internal thread                                                                                                                                                                                                                                                                                                                                                                                       |
| Structural design                        | Piston<br>Piston rod<br>Tie rod<br>Cylinder barrel                                                                                                                                                                                                                                                                                                                                                                       |
| Position sensing                         | For proximity sensor                                                                                                                                                                                                                                                                                                                                                                                                     |
| Symbol                                   | 00991235<br>00991237                                                                                                                                                                                                                                                                                                                                                                                                     |
| Variants                                 | Flange on end cap<br>Flange on bearing cap<br>Foot mounting<br>Internal thread on piston rod<br>Special thread on piston rod<br>Swiveling rod eye mounting on the end cap<br>Through piston rod<br>Screwed-on swivel mounting position<br>Swivel mounting on end cap<br>Swivel clevis on end cap<br>Spacer bolt on end cap end<br>Spacer bolt on bearing cap end<br>Temperature range -5 - 80°C<br>Piston rod at one end |
| Operating pressure                       | 0.089 MPa ... 0.965 MPa                                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating pressure                       | 0.89 bar ... 9.65 bar                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operating pressure                       | 12.905 psi ... 139.925 psi                                                                                                                                                                                                                                                                                                                                                                                               |
| 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                                                                                                                                                                                                                                                                                                                                                                                                 |
| Ambient temperature                      | -5 °C ... 80 °C                                                                                                                                                                                                                                                                                                                                                                                                          |
| Theoretical force at 6 bar, retracting   | 238 N                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Feature                               | Value                                                          |
|---------------------------------------|----------------------------------------------------------------|
| Theoretical force at 6 bar, advancing | 264 N                                                          |
| Type of mounting                      | Direct fastening via thread<br>With accessories<br>Optionally: |
| Pneumatic connection                  | 3/8 NPT                                                        |
| Note on materials                     | Contains paint-wetting impairment substances<br>RoHS-compliant |
| Cover material                        | Die-cast aluminum, coated                                      |
| Seals material                        | FPM<br>NBR                                                     |
| Piston rod material                   | High-alloy stainless steel                                     |
| Material of cylinder barrel           | Wrought aluminum alloy, smooth-anodized                        |