

# Standards-based cylinder DSNB-N-...-3 1/4"- -

Part number: 8161114

**FESTO**



## Data sheet

| Feature              | Value   |
|----------------------|---|
| Stroke               | 0.0625 in...98.9 in   |
| Piston diameter      | 3 1/4"  |
| Piston rod thread    | 7/8-14 UNF-2A<br>3/4-16 UNF-2B<br>3/4-16 UNF-2A<br>1-14 UNS-2B<br>1-14 UNS-2A<br>1 1/4-12 UNF-2A  |
| Cushioning           | Elastic cushioning rings/plates at both ends<br>Pneumatic cushioning, adjustable at both ends<br>No cushioning<br>Pneumatic cushioning at both ends, non-adjustable<br>Pneumatic cushioning at the front, non-adjustable<br>Pneumatic cushioning at the rear, non-adjustable<br>Pneumatic cushioning at the front, adjustable<br>Pneumatic cushioning at the rear, adjustable |
| Mounting position    | optional  |
| Conforms to standard | NFPA/T3.6.7   |
| Piston-rod end       | Male thread<br>Bolt with male thread<br>Female thread   |
| Design               | Piston<br>Piston rod<br>Tie rod<br>Cylinder barrel  |
| Position detection   | Via proximity switch<br>Without   |

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|--|--|
| Variants   | Supply port, rotated 180°<br>Supply port, rotated 270°<br>Supply port, rotated 90°<br>Supply port, lateral<br>Flange on end cap<br>Flange on bearing cap<br>Foot mounting<br>Noise reduction on both sides<br>Extended male piston rod thread<br>Extended piston rod<br>Direct mounting via thread, at the front<br>Swivelling rod eye mounting on the end cap<br>Trunnion mounting on bearing cap<br>Trunnion mounting on the end cap<br>Metal scraper<br>Transverse load increased<br>Low friction<br>Through piston rod<br>Screwed-on swivel mounting position<br>Swivel mounting on the end cap<br>With swivel clevis on the end cap<br>Spacer bolt on end cap side<br>Spacer bolt on both sides<br>Spacer bolt on bearing cap side<br>Temperature range 0 to 150°C<br>Piston rod at one end |
| Adjusting screw position                                     | Rotated 0°<br>Rotated 90°<br>Rotated 180°<br>Rotated 270°  |
| Operating pressure   | 0.048 MPa...1 MPa<br>0.48 bar...10 bar<br>6.96 psi...145 psi   |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required)   |
| Corrosion resistance class CRC                               | 1 - Low corrosion stress   |
| LABS (PWIS) conformity                                       | VDMA24364 zone III   |
| Ambient temperature  | -20 °C...150 °C<br>-4 °F...302 °F  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 2942 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 3246 N   |
| Type of mounting   | Direct mounting via thread<br>With accessories<br>Either:  |
| Pneumatic connection   | 1/8 NPT<br>1/4 NPT<br>3/8 NPT<br>1/2 NPT   |
| Note on materials  | RoHS-compliant   |
| Material cover   | Anodised wrought aluminium alloy   |
| Material seals   | FPM<br>NBR<br>PUR  |
| Material piston rod  | Steel, hard-chrome-plated  |
| Material cylinder barrel                                     | Smooth-anodised wrought aluminium alloy  |