

**Standards-based cylinder**  
**DSNB-N-...-3 1/4"- -**  
Part number: 8161114



**Data sheet**

Feature	Value
Stroke	0.0625 in...98.9 in
Piston diameter	3 1/4"
Piston rod thread	7/8-14 UNF-2A 3/4-16 UNF-2B 3/4-16 UNF-2A 1-14 UNS-2B 1-14 UNS-2A 1 1/4-12 UNF-2A
Cushioning	Elastic cushioning rings/pads at both ends Pneumatic cushioning, adjustable at both ends No cushioning Pneumatic cushioning at both ends, non-adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, non-adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, adjustable
Mounting position	Any
Conforms to standard	NFPA/T3.6.7
Piston rod end	External thread Bolt with male thread Internal thread
Structural design	Piston Piston rod Tie rod Cylinder barrel
Position sensing	For proximity sensor None

Feature	Value
Variants	Supply port, rotated 180° Supply port, rotated 270° Supply port, rotated 90° Supply port, lateral Flange on end cap Flange on bearing cap Foot mounting Noise reduction on both sides Extended external thread piston rod Extended piston rod Direct mounting via thread, frontal Swiveling rod eye mounting on the end cap Trunnion mounting on bearing cap Trunnion mounting on end cap Metal scraper Transverse load increased Low friction Through piston rod Screwed-on swivel mounting position Swivel mounting on end cap Swivel clevis on end cap Spacer bolt on end cap end Spacer bolts at both ends Spacer bolt on bearing cap end Temperature range 0 to + 150°C Piston rod at one end
	Rotated through 0° Rotated through 90° Rotated through 180° Rotated through 270°
Operating pressure	0.048 MPa...1 MPa 0.48 bar...10 bar 6.96 psi...145 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
LABS (PWIS) conformity	VDMA24364 zone III
Ambient temperature	-20 °C...150 °C
Ambient temperature Fahrenheit	-4 °F...302 °F
Theoretical force at 6 bar, retracting	2942 N
Theoretical force at 6 bar, advancing	3246 N
Type of mounting	Direct fastening via thread With accessories Optionally:
Pneumatic connection	1/8 NPT 1/4 NPT 3/8 NPT 1/2 NPT
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy, anodized
Seals material	FPM NBR PUR
Piston rod material	Steel, hard-chrome-plated
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized