

# standards-based cylinder

## DSNB-N-...-2 1/2"- -

Part number: 8161113

FESTO



## Data sheet

Feature	Value
Stroke	0.0625 in...98.9 in
Piston diameter	2 1/2"
Piston rod thread	7/8-14 UNF-2A 7/16-20 UNF-2B 7/16-20 UNF-2A 3/4-16 UNF-2B 3/4-16 UNF-2A 1/2-20 UNF-2A
Cushioning	Elastic cushioning rings/plates 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	optional
Conforms to standard	NFPA/T3.6.7
Piston-rod end	Male thread Bolt with male thread Female thread
Design	Piston Piston rod Tie rod Cylinder barrel
Position detection	Via proximity switch Without

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 male piston rod thread Extended piston rod Direct mounting via thread, at the front Swivelling rod eye mounting on the end cap Trunnion mounting on bearing cap Trunnion mounting on the end cap Metal scraper Transverse load increased Low friction Through piston rod Screwed-on swivel mounting position Swivel mounting on the end cap With swivel clevis on the end cap Spacer bolt on end cap side Spacer bolt on both sides Spacer bolt on bearing cap side Temperature range 0 to 150°C Piston rod at one end
Adjusting screw position	Rotated 0° Rotated 90° Rotated 180° Rotated 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 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 -4 °F...302 °F
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	1811 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	1930 N
Type of mounting	Either: Direct mounting via thread With accessories
Pneumatic connection	1/8 NPT 1/4 NPT 3/8 NPT
Note on materials	RoHS-compliant
Material cover	Anodised wrought aluminium alloy
Material seals	FPM NBR PUR
Material piston rod	Steel, hard-chrome-plated
Material cylinder barrel	Smooth-anodised wrought aluminium alloy