

# Standards-based cylinder DSNU-20- -F1A-

Part number: 8149446

**FESTO**



## Data sheet

Feature	Value
Stroke	1 mm...320 mm
Piston diameter	20 mm
Piston rod thread	M8
Cushioning	Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Conforms to standard	CETOP RP 52 P ISO 6432
Structural design	Piston Piston rod Cylinder barrel
Position sensing	For proximity sensor
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Extended external thread piston rod Internal thread on piston rod Piston rod with external thread shortened at one end Extended piston rod Axial supply port Lateral supply port Through piston rod
Operating pressure	0.1 MPa...1 MPa 1 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)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Suitability for the production of Li-ion batteries	Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 6 according to ISO 14644-1

Feature	Value
Ambient temperature	-20 °C...80 °C
Cushioning length	15 mm
Theoretical force at 6 bar, retracting	158.3 N
Theoretical force at 6 bar, advancing	188.5 N
Moving mass at 0 mm stroke	44 g
Additional moving mass per 10 mm stroke	4 g
Basic weight with 0 mm stroke	186.8 g
Additional weight per 10 mm stroke	7.2 g
Type of mounting	With accessories
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy, anodized
Seals material	TPE-U(PU)
Piston rod material	High-alloy stainless steel
Material of cylinder barrel	High-alloy stainless steel