Round cylinder DSNU-S-12- -F1A-Part number: 8148786 **FESTO**



Data sheet

Stroke 1 mm150 mm Piston diameter 12 mm Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Structural design Piston Piston rod Cylinder barrel Position sensing For proximity sensor Variants Metals with copper, zinc or nickel by mass as main constituent excluded from use. Exceptions are nickel in steel, chemically plated surfaces, printed circuit boards, cables, electrical plug and coils. Extended external thread on piston rod Internal thread on piston rod Internal thread on piston rod Extended piston rod Axial supply port Swivel mounting, end cap Lateral supply port Fastening thread, end cap Shortened piston rod external thread Operating pressure 0.15 MPa1 MPa 1.5 bar10 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 VDMA24364-B2-L Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for battery production: Metals with more than 1% by mass of cop	
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Cleanroom class Class 6 according to ISO 14644-1	
Ambient temperature -20 °C80 °C	
Theoretical force at 6 bar, retracting 50.9 N	
Theoretical force at 6 bar, advancing 67.9 N	

Feature	Value
Moving mass at 0 mm stroke	16.2 g
Additional moving mass per 10 mm stroke	2 g
Basic weight with 0 mm stroke	35.9 g
Additional weight per 10 mm stroke	4.2 g
Type of mounting	With accessories
Pneumatic connection	M5
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