Round cylinder
DSNU-S-8- -F1A-

Part number: 8148785

Data sheet

Feature	Value
Stroke	1 mm...100 mm
Piston diameter	8 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 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 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 MPa...1 MPa 1.5 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-B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni
Cleanroom class	Class 5 according to ISO 14644-1
Ambient temperature	-20 °C...80 °C
Theoretical force at 6 bar, retracting	22.6 N
Theoretical force at 6 bar, advancing	30.2 N
Moving mass at 0 mm stroke	6.3 g
Additional moving mass per 10 mm stroke	1 g

Feature	Value
Basic weight with 0 mm stroke	20 g
Additional weight per 10 mm stroke	2.4 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