

Standards-based cylinder DSNU-12- -F1A-

Part number: 8149444

FESTO



Data sheet

Feature	Value
Stroke	1 mm...200 mm
Piston diameter	12 mm
Piston rod thread	M6
Cushioning	Elastic cushioning rings/pads at both ends 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	Via proximity switch
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. Stroke adjustment advancing Weld spatter protection Special thread on piston rod Piston rod with external hexagon Low friction for balancer applications Swiveling rod eye mounting on the end cap Low friction
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-B1/B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Ambient temperature	-20 °C...80 °C
Impact energy in the end positions	0.07 J
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	18.5 g
Additional moving mass per 10 mm stroke	2 g
Basic weight with 0 mm stroke	75 g
Additional weight per 10 mm stroke	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