Standards-based cylinder
DSNU-8- -F1A-

Part number: 8150747

Data sheet

Feature	Value
Stroke	1 mm...100 mm
Piston diameter	8 mm
Piston rod thread	M4
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	optional
Conforms to standard	CETOP RP 52 P ISO 6432
Design	Piston Piston rod Cylinder barrel
Position detection	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. Advancing stroke adjustment Weld spatter protection Custom thread on the piston rod Piston rod with external hexagon Low friction for balancer applications Swivelling 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 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	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 end positions	0.03 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	22.6 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	30.2 N

Feature	Value
Moving mass for 0 mm stroke	7.5 g
Additional moving mass per 10 mm stroke	1 g
Basic weight for 0 mm stroke	34.6 g
Additional weight per 10 mm stroke	2.4 g
Type of mounting	With accessories
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material cover	Anodised wrought aluminium alloy
Material seals	TPE-U(PU)
Material piston rod	High-alloy stainless steel
Material cylinder barrel	High-alloy stainless steel