

Compact cylinder ADN-S-10-5-I-F1A

Part number: 8142518

FESTO



 General operating condition

Data sheet

Feature	Value
Stroke	5 mm
Piston diameter	10 mm
Cushioning	No cushioning
Mounting position	optional
Mode of operation	Double-acting
Piston-rod end	Female thread
Design	Piston Piston rod
Symbol	00991215
Variants	Recommended for production facilities for manufacturing of lithium-ion batteries Piston rod at one end
Operating pressure	0.1 MPa ... 0.8 MPa
Operating pressure	1 bar ... 8 bar
Operating pressure	14.5 psi ... 116 psi
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	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	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
Ambient temperature	-10 °C ... 60 °C
Impact energy in end positions	0.012 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	30.2 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	47 N
Moving mass	4.1 g
Product weight	12.2 g
Type of mounting	With through-hole
Pneumatic connection	M3
Note on materials	RoHS-compliant
Material cover	Wrought aluminium alloy
Material dynamic seals	NBR TPE-U(PU)
Material housing	Anodised wrought aluminium alloy Anodised

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Material piston rod	High-alloy stainless steel