

Compact cylinder ADN-S-6-5-I-A-F1A

Part number: 8142511

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Stroke	5 mm
Piston diameter	6 mm
Cushioning	No cushioning
Mounting position	optional
Mode of operation	Double-acting
Piston-rod end	Female thread
Design	Piston Piston rod
Position detection	Via proximity switch
Symbol	00991216
Variants	Recommended for production facilities for manufacturing of lithium-ion batteries Piston rod at one end
Operating pressure	0.2 MPa ... 0.8 MPa
Operating pressure	2 bar ... 8 bar
Operating pressure	21.75 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	0.006 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	9.4 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	17 N
Moving mass	1.6 g
Product weight	10.9 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)

Feature	Value
Material housing	Anodised wrought aluminium alloy Anodised
Material piston rod	High-alloy stainless steel