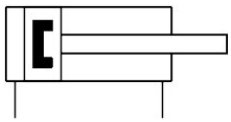
Compact cylinder
ADN-S-10-10-I-A-F1A

Part number: 8142521





Data sheet

Feature	Value
Stroke	10 mm
Piston diameter	10 mm
Cushioning	No cushioning
Mounting position	Any
Mode of operation	Double-acting
Piston rod end	Internal thread
Structural design	Piston Piston rod
Position sensing	Via proximity switch
Variants	Recommended for production facilities for the manufacture of lithium-ion batteries Piston rod at one end
Operating pressure	0.1 MPa...0.8 MPa 1 bar...8 bar 14.5 psi...116 psi
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)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-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 5 according to ISO 14644-1
Ambient temperature	-10 °C...60 °C
Impact energy in the end positions	0.012 J
Theoretical force at 6 bar, retracting	30.2 N
Theoretical force at 6 bar, advancing	47 N
Moving mass	5.7 g
Product weight	17.7 g
Type of mounting	With through-hole
Pneumatic connection	M3
Note on materials	RoHS compliant
Cover material	Wrought aluminum alloy
Material of dynamic seals	NBR TPE-U(PU)

Feature	Value
Housing material	Wrought aluminum alloy, anodized Anodized
Piston rod material	high-alloy stainless steel