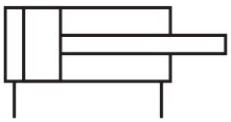
Compact cylinder
ADN-S-6-5-I-F1A

Part number: 8142509



Data sheet

Feature	Value
Stroke	5 mm
Piston diameter	6 mm
Cushioning	No cushioning
Mounting position	Any
Mode of operation	Double-acting
Piston-rod end	Female thread
Design	Piston Piston rod
Variants	Recommended for production facilities for manufacturing of lithium-ion batteries Piston rod at one end
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar 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	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 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	1.5 g
Product weight	9.2 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)

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