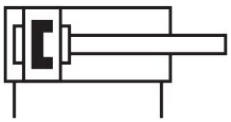
Compact cylinder
ADN-S-12-10-A-P-A-F1A

Part number: 8142577





Data sheet

Feature	Value
Stroke	10 mm
Piston diameter	12 mm
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Mode of operation	Double-acting
Piston rod end	External 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...1 MPa 1 bar...10 bar 14.5 psi...145 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	0 °C...80 °C
Impact energy in the end positions	0.07 J
Theoretical force at 6 bar, retracting	51 N
Theoretical force at 6 bar, advancing	68 N
Moving mass at 0 mm stroke	6 g
Additional moving mass per 10 mm stroke	2 g
Basic weight with 0 mm stroke	33 g
Additional weight per 10 mm stroke	15 g
Type of mounting	With through-hole With internal thread
Pneumatic connection	M5
Note on materials	RoHS compliant

Feature	Value
Cover material	Wrought aluminum alloy, anodized
Material of dynamic seals	NBR TPE-U(PU)
Housing material	Wrought aluminum alloy, anodized
Piston rod material	high-alloy stainless steel