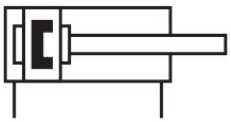
Compact cylinder
ADN-S-12-20-I-P-A-F1A

Part number: 8142565



Data sheet

Feature	Value
Stroke	20 mm
Piston diameter	12 mm
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	Any
Mode of operation	Double-acting
Piston-rod end	Female thread
Design	Piston Piston rod
Position detection	Via proximity switch
Variants	Recommended for production facilities for manufacturing 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 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	0 °C...80 °C
Impact energy in end positions	0.07 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	51 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	68 N
Moving mass for 0 mm stroke	6 g
Additional moving mass per 10 mm stroke	2 g
Basic weight for 0 mm stroke	33 g
Additional weight per 10 mm stroke	15 g
Type of mounting	With through-hole With female thread
Pneumatic connection	M5

Feature	Value
Note on materials	RoHS compliant
Material cover	Anodised wrought aluminium alloy
Material dynamic seals	NBR TPE-U(PU)
Material housing	Anodised wrought aluminium alloy
Material piston rod	High-alloy stainless steel