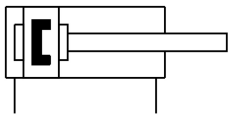
Compact cylinder ADN-S-25-45-A-P-A-F1A

Part number: 8142834



Data sheet

Feature	Value
Stroke	45 mm
Piston diameter	25 mm
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	optional
Mode of operation	Double-acting
Piston-rod end	Male 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	0.06 MPa...1 MPa 0.6 bar...10 bar 8.7 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	Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 6 according to ISO 14644-1
Ambient temperature	0 °C...60 °C
Impact energy in end positions	0.3 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	247 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	295 N
Moving mass for 0 mm stroke	25 g
Additional moving mass per 10 mm stroke	6 g
Basic weight for 0 mm stroke	88 g
Additional weight per 10 mm stroke	30 g

Feature	Value
Type of mounting	With through-hole Via female thread
Pneumatic connection	M5
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