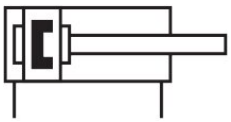
Compact cylinder
ADN-S-50-45-I-P-A-F1A

Part number: 8142905





Data sheet

Feature	Value
Stroke	45 mm
Piston diameter	50 mm
Cushioning	Elastic cushioning rings/pads at both ends
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	0.04 MPa...1 MPa 0.4 bar...10 bar 5.8 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	1 J
Theoretical force at 6 bar, retracting	1057 N
Theoretical force at 6 bar, advancing	1178 N
Moving mass at 0 mm stroke	104 g
Additional moving mass per 10 mm stroke	16 g
Basic weight with 0 mm stroke	324 g
Additional weight per 10 mm stroke	63 g
Type of mounting	With through-hole With internal thread
Pneumatic connection	G1/8
Note on materials	RoHS compliant

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