

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

Part number: 8142905

FESTO



 [General operating condition](#)

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	For proximity sensor
Symbol	00991217
Variants	Recommended for production facilities for the manufacture of lithium-ion batteries Piston rod at one end
Operating pressure	0.04 MPa ... 1 MPa
Operating pressure	0.4 bar ... 10 bar
Operating pressure	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	Metals with more than 1% by mass of 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 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
Cover material	Wrought aluminum alloy, anodized

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