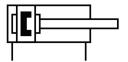
## Compact cylinder ADN-S-50-10-A-P-A-F1A Part number: 8142908

**FESTO** 





		General operating condition
Data sheet		

Feature	Value	
Stroke	10 mm	
Piston diameter	50 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	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)	0 - No 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)	
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	

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