

Compact cylinder ADN-S-10-5-A-F1A

Part number: 8142522

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Stroke	5 mm
Piston diameter	10 mm
Cushioning	No cushioning
Mounting position	Any
Mode of operation	Double-acting
Piston rod end	External thread
Structural design	Piston Piston rod
Symbol	00991215
Variants	Piston rod at one end
Operating pressure	0.1 MPa ... 0.8 MPa
Operating pressure	1 bar ... 8 bar
Operating pressure	14.5 psi ... 116 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	-10 °C ... 60 °C
Impact energy in the end positions	0.012 J
Theoretical force at 6 bar, retracting	30.2 N
Theoretical force at 6 bar, advancing	47 N
Moving mass	4.1 g
Product weight	12.2 g
Type of mounting	With through-hole
Pneumatic connection	M3
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy
Material of dynamic seals	NBR TPE-U(PU)
Housing material	Anodized
Piston rod material	High-alloy stainless steel