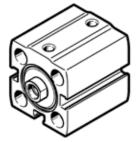
## compact cylinder ADN-S-12-5-I-P-A-F1A Part number: 8142562







## **Data sheet**

Feature	Value
Stroke	5 mm
Piston diameter	12 mm
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Mode of operation	double-acting
Piston-rod end	Female thread
Design structure	Piston
	Piston rod
Position detection	For proximity sensor
Variants	Single-ended piston rod
	Recommended for production facilities for the manufacture of lithium-
	ion batteries
Operating pressure MPa	0.1 1 MPa
Operating pressure	1 10 bar
	14.5 145 psi
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further
	operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 6
Ambient temperature	0 60 °C
Impact energy in end positions	0.07 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	51 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	68 N
Moving mass with 0 mm stroke	6 g
Additional mass factor per 10 mm of stroke	2 g
Basic weight for 0 mm stroke	33 g
Additional weight per 10 mm stroke	15 g
Mounting type	with through hole
	with internal (female) thread
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material cover	Anodised wrought aluminium alloy
Material of dynamic seals	NBR
	TPE-U(PU)
Material housing	Anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive