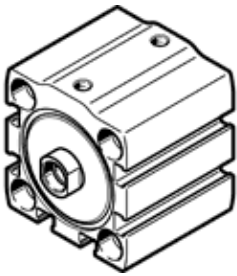


Compact cylinder

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

Part number: 8142905

FESTO



Data sheet

Feature	Value
Stroke	45 mm
Piston diameter	50 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	0.04 ... 1 MPa
Working pressure	0.4 ... 10 bar
Operating pressure	5.8 ... 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	1 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	1,057 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,178 N
Moving mass with 0 mm stroke	104 g
Additional mass factor per 10 mm of stroke	16 g
Basic weight for 0 mm stroke	324 g
Additional weight per 10 mm stroke	63 g
Mounting type	with through hole with internal (female) thread
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material cover	Anodised wrought aluminium alloy
Material of dynamic seals	TPE-U(PU)
Material housing	Anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive