

# Compact cylinder

## ADN-S-40-50-A-P-A-F1A

Part number: 8142895

FESTO



### Data sheet

Feature	Value
Stroke	50 mm
Piston diameter	40 mm
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Mode of operation	double-acting
Piston-rod end	Male 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	0.06 ... 1 MPa
Working pressure	0.6 ... 10 bar
Operating pressure	8.7 ... 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	0 - No 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	0.7 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	686 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	754 N
Moving mass with 0 mm stroke	62 g
Additional mass factor per 10 mm of stroke	9 g
Basic weight for 0 mm stroke	304 g
Additional weight per 10 mm stroke	45 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	TPE-U(PU)
Material housing	Anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive