

# Compact cylinder ADN-S-40-45-A-P-A-F1A

Part number: 8142894

FESTO



 [General operating condition](#)

## Data sheet

Feature	Value
Stroke	45 mm
Piston diameter	40 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	Piston rod at one end
Operating pressure	0.06 MPa ... 1 MPa
Operating pressure	0.6 bar ... 10 bar
Operating pressure	8.7 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	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	0 °C ... 80 °C
Impact energy in the end positions	0.7 J
Theoretical force at 6 bar, retracting	686 N
Theoretical force at 6 bar, advancing	754 N
Moving mass at 0 mm stroke	62 g
Additional moving mass per 10 mm stroke	9 g
Basic weight with 0 mm stroke	304 g
Additional weight per 10 mm stroke	45 g
Type of mounting	With through-hole With internal thread
Pneumatic connection	M5
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy, anodized
Material of dynamic seals	TPE-U(PU)
Housing material	Wrought aluminum alloy, anodized
Piston rod material	High-alloy stainless steel