

Compact cylinder ADN-12-50-I-P-A

Part number: 8178550

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Stroke	50 mm
Piston diameter	12 mm
Piston rod thread	M3
Based on norm	ISO 21287
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Mode of operation	Double-acting
Piston rod end	Internal thread
Position sensing	For proximity sensor
Symbol	00991217
Variants	Piston rod at one end
Operating pressure	0.1 MPa ... 1 MPa
Operating pressure	1 bar ... 10 bar
Operating pressure	14.5 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)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom class	Class 6 according to ISO 14644-1
Ambient temperature	-20 °C ... 80 °C
Impact energy in the end positions	0.07 J
Theoretical force at 6 bar, retracting	51 N
Theoretical force at 6 bar, advancing	68 N
Moving mass	20 g
Product weight	124 g
Type of mounting	Optionally: With through-hole With internal thread With accessories
Pneumatic connection	M5
Note on materials	RoHS-compliant
Flange screws material	Steel
Cover material	Wrought aluminum alloy, anodized
Seals material	TPE-U(PUR)
Piston rod material	High-alloy steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized