

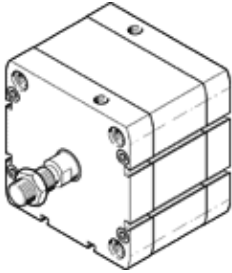
# Compact cylinder

## ADN-4"-2 1/2"-A-P-A

Part number: 557178

**FESTO**

Per ISO 21287, with position sensing and external piston rod thread



## Data sheet

Feature	values
Stroke	2.5 "
Piston diameter	4 "
Piston rod thread	UNF5/8-18
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Conforms to standard	ISO 21287
Piston-rod end	Male thread
Design structure	Piston Piston rod Profile barrel
Position detection	For proximity sensor
Variants	Single-ended piston rod
Working pressure	8.7 ... 145 Psi
Mode of operation	double-acting
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
Ambient temperature	-4 ... 176 °F
Impact energy in end positions	1.844 ft-lbf
Theoretical force at 6 bar, return stroke	1,017.035 lbf
Theoretical force at 6 bar, advance stroke	1,059.3 lbf
Moving mass with 0 mm stroke	20.178 oz
Additional weight per 10 mm stroke	0.885 oz
Basic weight for 0 mm stroke	76.252 oz
Additional mass factor per 10 mm of stroke	3.469 oz
Mounting type	Optional with through hole with internal (female) thread with accessories
Pneumatic connection	NPT1/8-27
Materials information for collar screws	Steel
Materials information for cover	Wrought Aluminum alloy Anodized
Materials information for seals	NBR
Materials information for dynamic seals	TPE-U(PU)
Materials information for piston rod	High alloy steel
Materials information for cylinder barrel	Wrought Aluminum alloy Smooth anodized