

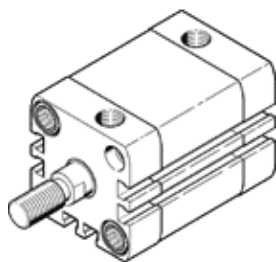
Compact cylinder

ADN-2 1/2"-3"-A-P-A

Part number: 557145

FESTO

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



Data sheet

Feature	values
Stroke	3 "
Piston diameter	2 1/2"
Piston rod thread	UNF1/2-20
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	0.959 ft-lbf
Theoretical force at 6 bar, return stroke	393.416 lbf
Theoretical force at 6 bar, advance stroke	420.393 lbf
Moving mass with 0 mm stroke	6.372 oz
Additional weight per 10 mm stroke	0.566 oz
Basic weight for 0 mm stroke	25.559 oz
Additional mass factor per 10 mm of stroke	2.089 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