

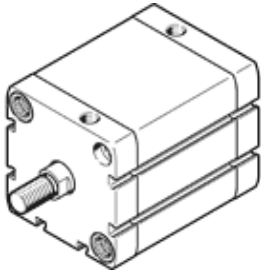
# compact cylinder

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

Part number: 557140

FESTO

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



### Data sheet

Feature	Value
Stroke	1 "
Piston diameter	2 1/2"
Piston rod thread	1/2-20 UNF-2A
Based on the standard	ISO 21287
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 Profile barrel
Position detection	For proximity sensor
Variants	Single-ended piston rod
Operating pressure MPa	0.1 ... 1 MPa
Operating pressure	1 ... 10 bar 14.5 ... 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	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Ambient temperature	-4 ... 176 °F
Impact energy in end positions	0.959 ft-lbf
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	393.416 lbf
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	420.393 lbf
Moving mass with 0 mm stroke	6.372 oz
Additional mass factor per 10 mm of stroke	2.089 oz
Basic weight for 0 mm stroke	25.559 oz
Additional weight per 10 mm stroke	0.566 oz
Mounting type	with through hole with internal (female) thread with accessories Optional
Pneumatic connection	1/8 NPT
Material of flange screw	Steel
Material cover	Anodised wrought aluminium alloy
Material of dynamic seals	TPE-U(PU)
Material piston rod	High alloy steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy