

Compact air cylinder

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

Part number: 557144

FESTO



Data sheet

Feature	Value
Stroke	2.5 in
Piston diameter	2 1/2"
Piston rod thread	1/2-20 UNF-2A
Based on norm	ISO 21287
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 Profile barrel
Position sensing	For proximity sensor
Variants	Piston rod at one end
Operating pressure	0.1 MPa...1 MPa 1 bar...10 bar 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
Ambient temperature	-4 °F...176 °F
Impact energy in the end positions	0.959 ft-lbf
Theoretical force at 6 bar, retracting	393 lbf
Theoretical force at 6 bar, advancing	420 lbf
Moving mass at 0 mm stroke	6.37 oz
Additional moving mass per 10 mm stroke	2.09 oz
Basic weight with 0 mm stroke	25.6 oz
Additional weight per 10 mm stroke	0.566 oz
Type of mounting	With through-hole With internal thread With accessories Optionally:
Pneumatic connection	1/8 NPT

Feature	Value
Flange screws material	Steel
Cover material	Wrought aluminum alloy, anodized
Material of dynamic seals	TPE-U(PU)
Piston rod material	High-alloy steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized