

Compact air cylinder ADN-1 1/4"-1/2"-I-P-A

Part number: 557091

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Stroke	12.7 mm
Piston diameter	1 1/4"
Piston rod thread	5/16-24 UNF-2B
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
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
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
Ambient temperature	-20 °C ... 80 °C
Impact energy in the end positions	0.39997 J
Theoretical force at 6 bar, retracting	415.001 N
Theoretical force at 6 bar, advancing	483.001 N
Moving mass at 0 mm stroke	60.215 g
Additional moving mass per 10 mm stroke	30.108 g
Basic weight with 0 mm stroke	265.951 g
Additional weight per 10 mm stroke	9.044 g
Type of mounting	Optionally: With through-hole With internal thread With accessories
Pneumatic connection	1/8 NPT
Flange screws material	Steel
Cover material	Wrought aluminum alloy, anodized
Material of dynamic seals	TPE-U(PU)
Piston rod material	High-alloy steel

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Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized