

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

Part number: 557143

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Stroke	50.8 mm
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
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	1.30023 J
Theoretical force at 6 bar, retracting	1750.002 N
Theoretical force at 6 bar, advancing	1870.002 N
Moving mass at 0 mm stroke	180.646 g
Additional moving mass per 10 mm stroke	59.223 g
Basic weight with 0 mm stroke	724.598 g
Additional weight per 10 mm stroke	16.046 g
Type of mounting	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
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized