

Compact cylinder

ADNGF-2 1/2"-1/2"-P-A

Part number: 557262

FESTO

According to ISO 21287, with plain-bearing guide, piston rod secured against rotation by means of guide rods and yoke plate.



Data sheet

Feature	Value
Stroke	0.5 "
Piston diameter	2 1/2"
Based on the standard	ISO 21287
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Design structure	Piston Piston rod Profile barrel
Position detection	For proximity sensor
Protection against torque/guide	Guide rod with yoke
Operating pressure MPa	0.1 ... 1 MPa
Working pressure	1 ... 10 bar
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 - 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	13.204 oz
Additional mass factor per 10 mm of stroke	2.549 oz
Basic weight for 0 mm stroke	32.391 oz
Additional weight per 10 mm stroke	1.027 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 seals	NBR
Material of dynamic seals	TPE-U(PU)
Material end plate	Anodised wrought aluminium alloy
Material piston rod	High alloy steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy