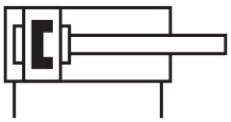
Compact cylinder
ADN-S-50-45-I-P

Part number: 5138186





Data sheet

Feature	Value
Stroke	45 mm
Piston diameter	50 mm
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	Any
Mode of operation	Double-acting
Piston-rod end	Female thread
Design	Piston Piston rod
Variants	Additional PTFE piston guide
Operating pressure	0.04 MPa...1 MPa 0.4 bar...10 bar 5.8 psi...145 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 5 according to ISO 14644-1
Ambient temperature	0 °C...80 °C
Impact energy in end positions	0.6 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	1057 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	1178 N
Moving mass for 0 mm stroke	105 g
Additional moving mass per 10 mm stroke	16 g
Basic weight for 0 mm stroke	310 g
Additional weight per 10 mm stroke	63 g
Type of mounting	Either: With through-hole With female thread With accessories
Pneumatic connection	G1/8
Note on materials	RoHS compliant
Material cover	Anodised wrought aluminium alloy

Feature	Value
Material dynamic seals	NBR
Material housing	Anodised wrought aluminium alloy
Material piston rod	High-alloy stainless steel