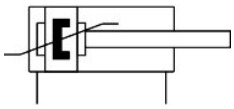
Standards-based cylinder
DSBC-125-500-D3-PPSA-N3

Part number: 8165681





Data sheet

Feature	Value
Stroke	500 mm
Piston diameter	125 mm
Piston rod thread	M27x2
Cushioning	Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread
Design	Piston Piston rod Profile barrel
Position detection	Via proximity switch
Variants	Piston rod at one end
Operating pressure	0.02 MPa...1 MPa 0.2 bar...10 bar
Mode of operation	Double-acting
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	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Ambient temperature	-20 °C...80 °C
Impact energy in end positions	3.3 J
Cushioning length	45 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	6881 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	7363 N
Moving mass	5395 g
Moving mass for 0 mm stroke	2245 g
Additional moving mass per 10 mm stroke	63 g
Product weight	19117 g
Basic weight for 0 mm stroke	6768 g
Additional weight per 10 mm stroke	247 g
Type of mounting	Either: With female thread

Feature	Value
	With accessories
Pneumatic connection	G1/2
Note on materials	RoHS compliant
Material cover	Coated die-cast aluminium
Material piston seal	TPE-U(PU)
Material piston	Wrought aluminium alloy
Material piston rod	High-alloy steel
Material piston rod wiper	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Material of cushioning boss	POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	Galvanised steel
Material rod wiper	TPE-E
Material bearing	Metal polymer compound
Material collar screws	Galvanised steel