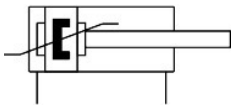
Standards-based cylinder
DSBC-100-250-D3-PPSA-N3

Part number: 8165691



Data sheet

Feature	Value
Stroke	250 mm
Piston diameter	100 mm
Piston rod thread	M20x1.5
Cushioning	Self-adjusting pneumatic end-position cushioning
Mounting position	optional
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	0.04 MPa...1.2 MPa 0.4 bar...12 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	2.5 J
Cushioning length	31 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	4418 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	4712 N
Moving mass	1975 g
Moving mass for 0 mm stroke	1000 g
Additional moving mass per 10 mm stroke	39 g
Product weight	7853 g
Basic weight for 0 mm stroke	3728 g
Additional weight per 10 mm stroke	152 g

Feature	Value
Type of mounting	Via female thread With accessories Either:
Pneumatic connection	G1/2
Note on materials	RoHS-compliant
Material cover	Die-cast aluminium, coated
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)
Cushioning boss material	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