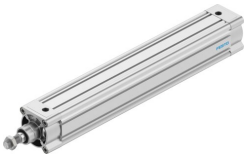
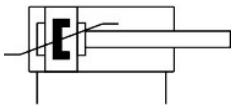
Standards-based cylinder
DSBC-80-500-D3-PPSA-N3

Part number: 8165598





Data sheet

Feature	Value
Stroke	500 mm
Piston diameter	80 mm
Piston rod thread	M20x1.5
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	0.04 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	1.8 J
Cushioning length	31 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	2721 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	3016 N
Moving mass	2760 g
Moving mass for 0 mm stroke	810 g
Additional moving mass per 10 mm stroke	39 g
Product weight	9870 g
Basic weight for 0 mm stroke	2720 g
Additional weight per 10 mm stroke	143 g
Type of mounting	Either: With female thread

Feature	Value
	With accessories
Pneumatic connection	G3/8
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