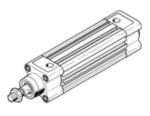
## Standards-based cylinder DSBC-50-500-D3-PPVA-N3 Part number: 8165589



## **Data sheet**

Feature	Value
Stroke	500 mm
Piston diameter	50 mm
Piston rod thread	M16x1,5
Cushioning	PPV: Pneumatic cushioning adjustable at both ends
Assembly position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread
Design structure	Piston
	Piston rod
	Profile barrel
Position detection	For proximity sensor
Variants	Single-ended piston rod
Operating pressure MPa	0.04 1.2 MPa
Working pressure	0.4 12 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	-20 80 °C
Impact energy in end positions	1]
Cushioning length	22 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	990 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,178 N
Moving mass with 0 mm stroke	365 g
Additional mass factor per 10 mm of stroke	25 g
Basic weight for 0 mm stroke	1,216 g
Additional weight per 10 mm stroke	78 g
Mounting type	with internal (female) thread
	with accessories
	Optional
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover	Coated die-cast aluminium
Material piston seal	TPE-U(PU)
Material piston	Wrought Aluminum alloy
Material piston rod	High alloy steel
Material piston rod wiper seal	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Cushion piston material	POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	steel, galvanized
Rod wiper seal material	TPE-E
Material bearing	Metal polymer compound
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