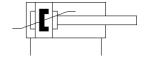
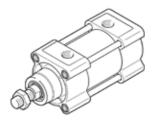
## standards-based cylinder DSBG-100-500-PPSA-N3 Part number: 1646826







## **Data sheet**

Feature	Value
Stroke	500 mm
Piston diameter	100 mm
Piston rod thread	M20x1,5
Cushioning	PPS: Self-adjusting pneumatic end-position cushioning
Assembly position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread
Design structure	Piston
	Piston rod
	Tie rod
	Cylinder barrel
Position detection	For proximity sensor
Variants	Single-ended piston rod
Operating pressure MPa	0.04 1.2 MPa
Operating 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
There on operating and processed and	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	2.5
Cushioning length	31 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	4,418 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	4,712 N
Moving mass	2,950 g
Moving mass with 0 mm stroke	1,000 g
Additional mass factor per 10 mm of stroke	39 g
Product weight	8,365 g
Basic weight for 0 mm stroke	3,665 g
Additional weight per 10 mm stroke	94 g
Mounting type	with internal (female) thread
Mounting type	with accessories
	Optional
Pneumatic connection	G1/2
Materials note	Conforms to RoHS
Material cover	Die-cast aluminium, coated
Material cover  Material piston seal	TPE-U(PU)
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Material piston Material piston rod	Wrought Aluminium alloy High alloy steel
Material piston rod  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
Material bearing	POM
Collar nut material	Galvanised steel
Material tie rod	High alloy steel