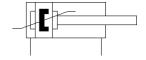
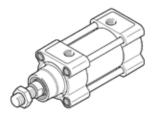
Standards-based cylinder DSBG-50-400-PPSA-N3 Part number: 1646733







Data sheet

Feature	Value
Stroke	400 mm
Piston diameter	50 mm
Piston rod thread	M16x1,5
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
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
Cleanroom class	ISO class 6
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), retracting	1,178 N
Moving mass	1,365 g
Moving mass with 0 mm stroke	365 g
Additional mass factor per 10 mm of stroke	25 g
Product weight	3,270 g
Basic weight for 0 mm stroke	1,190 g
Additional weight per 10 mm stroke	
= ,	52 g with internal (female) thread
Mounting type	with accessories
Pneumatic connection	Optional G1/4
	Conforms to RoHS
Materials note	
Material cover	Coated die-cast aluminium TPE-U(PU)
Material piston seal	• •
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
Material bearing	POM
Collar nut material	Galvanized steel
Material tie rod	High alloy steel