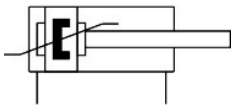
ISO cylinder
DSBG-40-500-PPSA-N3

Part number: 1646570





Data sheet

Feature	Value
Stroke	500 mm
Piston diameter	40 mm
Piston rod thread	M12x1.25
Cushioning	Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Conforms to standard	ISO 15552
Piston rod end	External thread
Structural design	Piston Piston rod Tie rod 1 Cylinder barrel
Position sensing	Via proximity switch
Variants	Piston rod at one end
Operating pressure	0.06 MPa...1.2 MPa 0.6 bar...12 bar
Mode of operation	Double-acting
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 5 according to ISO 14644-1
Ambient temperature	-20 °C...80 °C
Impact energy in the end positions	0.7 J
Cushioning length	19 mm
Theoretical force at 6 bar, retracting	633 N
Theoretical force at 6 bar, advancing	754 N
Moving mass	1005 g
Moving mass at 0 mm stroke	205 g
Additional moving mass per 10 mm stroke	16 g
Product weight	2490 g
Basic weight with 0 mm stroke	740 g
Additional weight per 10 mm stroke	35 g
Type of mounting	Alternatively:

Feature	Value
	With internal thread With accessories
Pneumatic connection	G1/4
Note on materials	RoHS compliant
Cover material	Die-cast aluminum, coated
Piston seal material	TPE-U(PU)
Material of piston	Wrought aluminum alloy
Piston rod material	High-alloy steel
Piston rod wiper material	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Cushion piston material	POM
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized
Nut material	Steel, galvanized
Material of bearing	POM
Collar nut material	Galvanized steel
Tie rod material	High-alloy steel