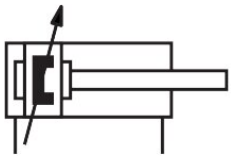
ISO cylinder
DSBG-50-500-PPVA-N3

Part number: 1646720





Data sheet

Feature	Value
Stroke	500 mm
Piston diameter	50 mm
Piston rod thread	M16x1.5
Cushioning	Pneumatic cushioning, adjustable at both ends
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	0.04 MPa...1.2 MPa 0.4 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	1 J
Cushioning length	22 mm
Theoretical force at 6 bar, retracting	990 N
Theoretical force at 6 bar, advancing	1178 N
Moving mass	1615 g
Moving mass at 0 mm stroke	365 g
Additional moving mass per 10 mm stroke	25 g
Product weight	3790 g
Basic weight with 0 mm stroke	1190 g
Additional weight per 10 mm stroke	52 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