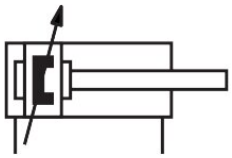
ISO cylinder
DSBG-50-500-PPVA-N3

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	Male thread
Design	Piston Piston rod Tie rod 1 Cylinder barrel
Position detection	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 to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
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 end positions	1 J
Cushioning length	22 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	990 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	1178 N
Moving mass	1615 g
Moving mass for 0 mm stroke	365 g
Additional moving mass per 10 mm stroke	25 g
Product weight	3790 g
Basic weight for 0 mm stroke	1190 g
Additional weight per 10 mm stroke	52 g

Feature	Value
Type of mounting	Either: With female thread With accessories
Pneumatic connection	G1/4
Note on materials	RoHS compliant
Material cover	Coated die-cast aluminium
Material piston seal	TPE-U(PU)
Material piston	Wrought aluminium alloy
Material piston rod	High-alloy steel
Material piston rod wiper	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Material of cushioning boss	POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	Galvanised steel
Material bearing	POM
Material collar nut	Galvanised steel
Material tie rod	High-alloy steel