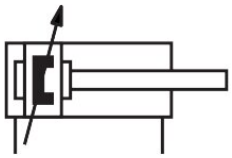
ISO cylinder
DSBG-40-100-PPVA-N3

Part number: 1646551





General operating condition

Data sheet

Feature	Value
Stroke	100 mm
Piston diameter	40 mm
Piston rod thread	M12x1.25
Cushioning	Pneumatic cushioning, adjustable at both ends
Mounting position	optional
Conforms to standard	ISO 15552
Piston-rod end	Male thread
Design	Piston Piston rod Tie rod Cylinder barrel
Position detection	Via proximity switch
Symbol	00991235
Variants	Piston rod at one end
Operating pressure	0.06 MPa ... 1.2 MPa
Operating pressure	0.6 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 class	Class 5 according to ISO 14644-1
Ambient temperature	-20 °C ... 80 °C
Impact energy in end positions	0.7 J
Cushioning length	19 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	633 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	754 N
Moving mass	365 g
Moving mass for 0 mm stroke	205 g
Additional moving mass per 10 mm stroke	16 g
Product weight	1090 g
Basic weight for 0 mm stroke	740 g
Additional weight per 10 mm stroke	35 g
Type of mounting	Either: Via female thread With accessories

Feature	Value
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)
Cushioning boss material	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