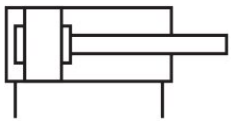
ISO cylinder
DSBG-320- -P-N3

Part number: 3178601



General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 2250 mm
Piston diameter	320 mm
Piston rod thread	M48x2
Cushioning	Elastic cushioning rings/plates 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
Symbol	00991227
Variants	Piston rod at one end
Operating pressure	0.06 MPa ... 1 MPa
Operating pressure	0.6 bar ... 10 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
Ambient temperature	-20 °C ... 80 °C
Impact energy in end positions	12.6 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	46385 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	48255 N
Moving mass for 0 mm stroke	16912 g
Additional moving mass per 10 mm stroke	249 g
Basic weight for 0 mm stroke	50231 g
Additional weight per 10 mm stroke	623 g
Type of mounting	With female thread With accessories
Pneumatic connection	G1
Note on materials	RoHS compliant
Material cover	Cast aluminium, coated
Material piston seal	NBR
Material piston	Cast aluminium

Feature	Value
Material piston rod	High-alloy steel
Material piston rod wiper	NBR
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	Metal polymer compound
Material collar nut	Galvanised steel
Material tie rod	High-alloy steel