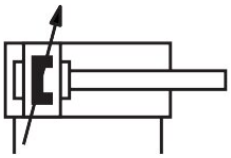
ISO cylinder
DSBF-C-40-500-PPVA-N3-R

Part number: 1774270



Data sheet

Feature	Value
Stroke	500 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 Profile barrel
Position detection	Via proximity switch
Operating pressure	0.06 MPa...1.2 MPa 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	3 - high corrosion stress
LABS (PWIS) conformity	VDMA24364-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	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	1004 g
Moving mass for 0 mm stroke	204 g
Additional moving mass per 10 mm stroke	16 g
Product weight	2778 g
Basic weight for 0 mm stroke	778 g
Additional weight per 10 mm stroke	40 g

Feature	Value
Type of mounting	Either: Via 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 stainless steel
Material piston rod wiper	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Material of cushioning boss	POM
Material cylinder barrel	Anodised wrought aluminium alloy
Material nut	High-alloy stainless steel
Material bearing	POM
Material collar screws	Galvanised steel