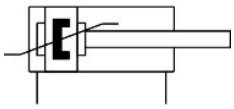
ISO cylinder
DSBF-C-50-500-PPSA-N3-R

Part number: 1780294





Data sheet

Feature	Value
Stroke	500 mm
Piston diameter	50 mm
Piston rod thread	M16x1.5
Cushioning	Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Conforms to standard	ISO 15552
Piston rod end	External thread
Structural design	Piston Piston rod Profile barrel
Position sensing	Via proximity switch
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)	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 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	1613 g
Moving mass at 0 mm stroke	363 g
Additional moving mass per 10 mm stroke	25 g
Product weight	4141 g
Basic weight with 0 mm stroke	1241 g
Additional weight per 10 mm stroke	58 g
Type of mounting	Alternatively: With internal thread With accessories

Feature	Value
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 stainless 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, anodized
Nut material	high-alloy stainless steel
Material of bearing	POM
Flange screws material	Steel, galvanized