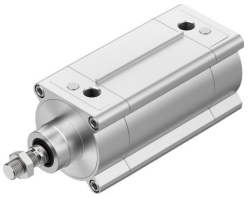
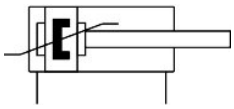
ISO cylinder
DSBF-C-100-500-PPSA-N3-R

Part number: 1782834





Data sheet

Feature	Value
Stroke	500 mm
Piston diameter	100 mm
Piston rod thread	M20x1.5
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
Ambient temperature	-20 °C...80 °C
Impact energy in the end positions	2.5 J
Cushioning length	31 mm
Theoretical force at 6 bar, retracting	4418 N
Theoretical force at 6 bar, advancing	4712 N
Moving mass	2995 g
Moving mass at 0 mm stroke	1045 g
Additional moving mass per 10 mm stroke	39 g
Product weight	9851 g
Basic weight with 0 mm stroke	4551 g
Additional weight per 10 mm stroke	106 g
Type of mounting	Alternatively: With internal thread With accessories
Pneumatic connection	G1/2

Feature	Value
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