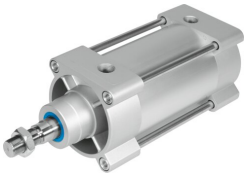
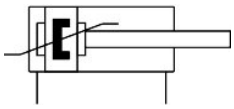
ISO cylinder
DSBG-125-500-PPSA-N3

Part number: 2159919





Data sheet

Feature	Value
Stroke	500 mm
Piston diameter	125 mm
Piston rod thread	M27x2
Cushioning	Self-adjusting pneumatic end-position cushioning
Mounting position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread
Design	Piston Piston rod Tie rod 1 Cylinder barrel
Position detection	Via proximity switch
Variants	Piston rod at one end
Operating pressure	0.02 MPa...1 MPa 0.2 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	2.5 J
Cushioning length	45 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	6881 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	7363 N
Moving mass	5395 g
Moving mass for 0 mm stroke	2245 g
Additional moving mass per 10 mm stroke	63 g
Product weight	13761 g
Basic weight for 0 mm stroke	6611 g
Additional weight per 10 mm stroke	143 g
Type of mounting	Either:

Feature	Value
	With female thread With accessories
Pneumatic connection	G1/2
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)
Material of cushioning boss	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