

# standards-based cylinder DSBF-C-50-320-PPSA-N3-R

Part number: 1780292

FESTO



## Data sheet

Feature	Value
Stroke	320 mm
Piston diameter	50 mm
Piston rod thread	M16x1,5
Cushioning	PPS: Self-adjusting pneumatic end-position cushioning
Assembly position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread
Design structure	Piston Piston rod Profile barrel
Position detection	For proximity sensor
Operating pressure MPa	0.04 ... 1.2 MPa
Operating pressure	0.4 ... 12 bar
Mode of operation	double-acting
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	3 - High corrosion stress
PWIS conformity	VDMA24364-B2-L
Cleanroom class	ISO class 6
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	1 J
Cushioning length	22 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	990 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,178 N
Moving mass	1,163 g
Moving mass with 0 mm stroke	363 g
Additional mass factor per 10 mm of stroke	25 g
Product weight	3,097 g
Basic weight for 0 mm stroke	1,241 g
Additional weight per 10 mm stroke	58 g
Mounting type	with internal (female) thread with accessories Optional
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover	Die-cast aluminium, coated
Material piston seal	TPE-U(PU)
Material piston	Wrought Aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material piston rod wiper seal	TPE-U(PU)
Buffer seal material	TPE-U(PU)
Cushion piston material	POM
Material cylinder barrel	Anodised wrought aluminium alloy
Material nut	High alloy steel, non-corrosive
Material bearing	POM
Material of flange screw	steel, galvanized