

# ISO cylinder DSBF-C-...-125- -

Part number: 1755169

FESTO



## Data sheet

Feature	Value
Stroke	1 mm...2800 mm
Piston diameter	125 mm
Piston rod thread	M27x2 M16
Based on norm	ISO 15552
Cushioning	Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Conforms to standard	ISO 15552
Piston rod end	External thread Internal thread
Structural design	Piston Piston rod Profile barrel
Position sensing	For proximity sensor
Variants	For unlubricated operation Increased chemical resistance Hard scraper Extended external thread piston rod Internal thread on piston rod Extended piston rod Uniform, slow movement Through piston rod Heat-resistant seals max. 120°C Temperature range 0 to + 150°C Temperature range -40 to 80°C
Operating pressure	0.005 MPa...1 MPa 0.05 bar...10 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 VDMA24364 zone III
For use in the food industry	See supplementary material information

Feature	Value
Ambient temperature	-40 °C...150 °C
Impact energy in the end positions	1.65 J...3.3 J
Cushioning length	44 mm...45 mm
Theoretical force at 6 bar, retracting	6881 N
Theoretical force at 6 bar, advancing	6681 N...7363 N
Weight surcharge per 10 mm piston rod extension	63 g
Weight surcharge per 10 mm piston rod thread extension	41 g
Type of mounting	Optionally: With internal thread With accessories
Pneumatic connection	G1/2
Note on materials	RoHS-compliant
Cover material	Die-cast aluminum, coated
Piston seal material	FPM TPE-U(PU)
Material of piston	Wrought aluminum alloy
Piston rod material	high-alloy stainless steel, hard chrome plated High-alloy stainless steel
Piston rod wiper material	FPM PE TPE-U(PU)
Buffer seal material	FPM TPE-U(PU)
Cushion piston material	Aluminum POM
Material of cylinder barrel	Wrought aluminum alloy, anodized
Nut material	High-alloy stainless steel
Rod wiper material	PTFE-reinforced
Material of bearing	Bronze
Flange screws material	Steel, galvanized