

ISO cylinder DSBF-C-...-50- -

Part number: 570079

FESTO



Data sheet

Feature	Value
Stroke	1 mm...2800 mm
Piston diameter	50 mm
Piston rod thread	M16x1.5 M10
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	Via proximity switch
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 Low friction Through piston rod Heat-resistant seals max. 120°C Temperature range 0 to + 150°C Temperature range -40 to 80°C
Operating pressure	0.01 MPa...1.2 MPa 0.1 bar...12 bar
Mode of operation	Double-acting
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Explosion prevention and protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX)

Feature	Value
	Zone 22 (ATEX)
ATEX category gas	II 2G
ATEX category for dust	II 2D
Type of ignition protection for gas	Ex h IIC T4 Gb
Type of (ignition) protection for dust	Ex h IIIC T120°C Db
Explosive ambient temperature	-20°C ≤ Ta ≤ +60°C
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
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
Ambient temperature	-40 °C...150 °C
Impact energy in the end positions	0.5 J...1 J
Cushioning length	20 mm...22 mm
Theoretical force at 6 bar, retracting	990 N
Theoretical force at 6 bar, advancing	990 N...1178 N
Weight surcharge per 10 mm piston rod extension	25 g
Weight surcharge per 10 mm piston rod thread extension	14 g
Type of mounting	Alternatively: With internal thread With accessories
Pneumatic connection	G1/4
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 Protective grounding 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 Metal polymer compound POM
Flange screws material	Steel, galvanized