

ISO cylinder DSBG-...-80- -

Part number: 1646769

FESTO



Data sheet

Feature	Value
Stroke	1 mm...2800 mm
Piston diameter	80 mm
Piston rod thread	M20x1.5 M20 M16x1.5 M16 M12
Torsional backlash at piston rod +/-	-0.45 deg...0.45 deg
Based on standard	ISO 15552
Cushioning	Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	optional
Conforms to standard	ISO 15552
Piston-rod end	Male thread Female thread
Design	Piston Piston rod Tie rod Cylinder barrel
Position detection	Via proximity switch

Feature	Value
Variants	For unlubricated operation Bellows on bearing cap Hard scraper Extended male piston rod thread Piston rod with female thread Custom thread on the piston rod Extended piston rod Low friction for balancer applications Metal scraper With protection against rotation Uniform, slow movement Low friction Through piston rod Heat-resistant seals max. 120°C Variable spacer bolt length Temperature range 0 to 150°C Temperature range -40 to 80°C Shortened male piston rod thread Piston rod at one end
Operating pressure	0.005 MPa...1.2 MPa 0.05 bar...12 bar
Mode of operation	Double-acting
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
CE marking (see declaration of conformity)	To UK EX instructions
Explosion protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
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 3 - high corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L VDMA24364 zone III
Ambient temperature	-40 °C...150 °C
Impact energy in end positions	1.8 J
Cushioning length	32 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	2721 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	2721 N...3016 N
Additional weight per piston rod extension of 10 mm	39 g
Additional weight per piston rod thread extension of 10 mm	22 g
Type of mounting	Either: Via female thread With accessories
Pneumatic connection	G3/8
Note on materials	RoHS-compliant
Material cover	Die-cast aluminium, coated
Material piston seal	FPM HNBR TPE-U(PU)
Material piston	Wrought aluminium alloy
Material piston rod	High-alloy stainless steel, hard chrome-plated High-alloy steel High-alloy stainless steel
Material piston rod wiper	FPM HNBR PE TPE-U(PU)

Feature	Value
Buffer seal material	FPM TPE-U(PU)
Cushioning piston material	Wrought aluminium alloy
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	Galvanised steel High-alloy stainless steel
Material bearing	Bronze Metal polymer compound POM
Material tie rod	High-alloy steel High-alloy stainless steel