

ISO cylinder DSBG-...-250- -

Part number: 2732003

FESTO



Data sheet

Feature	Value
Stroke	1 mm...2250 mm
Piston diameter	250 mm
Piston rod thread	M42x2 M42 M36x2 M30x2 M30 M27x2 M27 M24
Based on norm	ISO 15552
Cushioning	Elastic cushioning rings/pads at both ends 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 Tie rod 1 Cylinder barrel
Position sensing	Via proximity switch
Variants	Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Extended piston rod High corrosion protection Through piston rod Heat-resistant seals max. 120°C Screwed-on swivel mounting position Spacer bolt on end cap end Spacer bolt at both ends Spacer bolt on the bearing cap end Variable stud length Shortened piston rod external thread Piston rod at one end Via proximity switch
Operating pressure	0.06 MPa...1 MPa 0.6 bar...10 bar

Feature	Value
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 2 (ATEX) Zone 21 (ATEX) 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
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)	2 - Moderate corrosion stress 3 - High corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Ambient temperature	-20 °C...120 °C
Impact energy in the end positions	4.2 J...7.2 J
Cushioning length	55 mm
Theoretical force at 6 bar, retracting	28274 N
Theoretical force at 6 bar, advancing	28274 N...29452 N
Note on materials	RoHS compliant
Cover material	Die-cast aluminum, coated
Piston seal material	FPM NBR
Material of piston	Cast aluminum
Piston rod material	High-alloy steel high-alloy stainless steel
Piston rod wiper material	FPM NBR
Buffer seal material	FPM TPE-U(PU)
Cushion piston material	Wrought aluminum alloy POM
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized
Nut material	Steel, galvanized high-alloy stainless steel
Material of bearing	Bronze Metal polymer compound
Collar nut material	Galvanized steel high-alloy stainless steel
Tie rod material	High-alloy steel high-alloy stainless steel
Spacer bolt material	High-alloy steel high-alloy stainless steel
Swivel mounting material	Galvanized steel