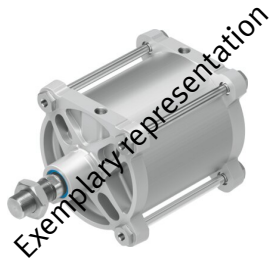


ISO cylinder DSBG-...-320- -

Part number: 2776472

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 2250 mm
Piston diameter	320 mm
Piston rod thread	M48x2 M48 M42x2 M36x2 M36 M30x2 M27x2 M27
Based on standard	ISO 15552
Cushioning	Elastic cushioning rings/plates at both ends Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread Female thread
Design	Piston Piston rod Tie rod 1 Cylinder barrel
Position detection	Via proximity switch
Symbol	00991217 00991218 00991227 00991235 00991237
Variants	Extended male piston rod thread Piston rod with female thread Custom thread on the 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 side Spacer bolt on both sides Spacer bolt on bearing cap side Variable stud bolt length Shortened male piston rod thread Piston rod at one end Via proximity switch
Operating pressure	0.06 MPa ... 1 MPa

Feature	Value
Operating pressure	0.6 bar ... 10 bar
Mode of operation	Double-acting
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 2G
ATEX category dust	II 2D
Explosion ignition protection type for gas	Ex h IIC T4 Gb
Explosion ignition protection type for dust	Ex h IIIC T120°C Db
Explosion ambient temperature	-20°C ≤ Ta ≤ +60°C
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
Ambient temperature	-20 °C ... 120 °C
Impact energy in end positions	6 J ... 12.6 J
Cushioning length	65 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	46385 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	46385 N ... 48255 N
Note on materials	RoHS compliant
Material cover	Cast aluminium, coated
Material piston seal	Fluoro rubber NBR
Material piston	Cast aluminium
Material piston rod	High-alloy steel High-alloy stainless steel
Material piston rod wiper	Fluoro rubber NBR
Buffer seal material	Fluoro rubber TPE-U(PU)
Material of cushioning boss	Wrought aluminium alloy POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	Galvanised steel High-alloy stainless steel
Material bearing	Bronze Metal polymer compound
Material collar nut	Galvanised steel High-alloy stainless steel
Material tie rod	High-alloy steel High-alloy stainless steel
Material spacer bolt	High-alloy steel High-alloy stainless steel
Material swivel mounting	Galvanised steel