

ISO cylinder
DSBG-...-160- -
Part number: 2036032

FESTO



Data sheet

Feature	Value
Stroke	1 mm...2700 mm
Piston diameter	160 mm
Piston rod thread	M36x2 M36 M30x2 M27x2 M27 M24 M20x1.5 M20 M16x1.5 M16
Based on standard	ISO 15552
Cushioning	Elastic cushioning rings/plates at both ends 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	Extended male piston rod thread Piston rod with female thread Custom thread on the piston rod Extended piston rod Metal scraper High corrosion protection Through piston rod Heat-resistant seals max. 120°C Clamped swivel mounting position Screwed-on swivel mounting position Spacer bolt on end cap side Spacer bolt on both sides Spacer bolt on bearing cap side Variable spacer bolt length Temperature range 0 to 150°C Shortened male piston rod thread Piston rod at one end For proximity switch
Operating pressure	0.06 MPa...1 MPa 0.6 bar...10 bar
Mode of operation	Double-acting
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
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	c T4
Explosion ignition protection type for dust	c T120°C
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 VDMA24364 zone III
Ambient temperature	-20 °C...150 °C
Impact energy in end positions	2.3 J...3.3 J
Cushioning length	48 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	11310 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	11310 N...12064 N
Pneumatic connection	G3/4
Note on materials	RoHS-compliant
Material cover	Cast aluminium, coated
Material piston seal	FPM NBR
Material piston	Cast aluminium
Material piston rod	High-alloy stainless steel, hard chrome-plated High-alloy steel High-alloy stainless steel
Material piston rod wiper	FPM NBR
Buffer seal material	FPM TPE-U(PU)
Cushioning boss material	Wrought aluminium alloy POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	Galvanised steel High-alloy stainless steel
Material rod wiper	Brass

Feature	Value
Material bearing	Bronze Metal polymer compound
Material collar nut	Galvanised steel
Material tie rod	High-alloy steel High-alloy stainless steel
Material spacer bolt	High-alloy steel High-alloy stainless steel
Material swivel mounting	Painted spheroidal graphite cast iron