

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



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 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 Cylinder barrel
Position sensing	For proximity sensor

Feature	Value
Variants	Extended external thread piston rod Internal thread on piston rod Special thread on 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 end Spacer bolts at both ends Spacer bolt on bearing cap end Variable spacer bolt length Temperature range 0 to + 150°C Shortened piston rod external 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 marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
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	c T4
Type of (ignition) protection for dust	c T120°C
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 VDMA24364 zone III
Ambient temperature	-20 °C...150 °C
Impact energy in the end positions	2.3 J...3.3 J
Cushioning length	48 mm
Theoretical force at 6 bar, retracting	11310 N
Theoretical force at 6 bar, advancing	11310 N...12064 N
Pneumatic connection	G3/4
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 stainless steel, hard chrome plated 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
Rod wiper material	Brass

Feature	Value
Material of bearing	Bronze Metal polymer compound
Collar nut material	Steel, galvanized
Tie rod material	High-alloy steel High-alloy stainless steel
Spacer bolt material	High-alloy steel High-alloy stainless steel
Swivel mounting material	Painted spheroidal graphite cast iron