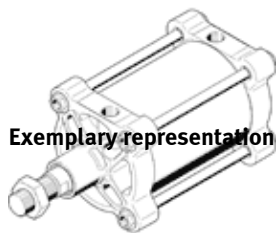


# standards-based cylinder

**DSBG-...-160- -**

Part number: 2036032

**FESTO**



## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 ... 2,700 mm
Piston diameter	160 mm
Piston rod thread	M36x2 M36 M30x2 M16x1,5 M20x1,5 M27x2 M27 M24 M20 M16
Based on the standard	ISO 15552
Cushioning	P: Flexible cushioning rings/plates at both ends PPV: Pneumatic cushioning adjustable at both ends
Assembly position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread Female thread
Design structure	Piston Piston rod Tie rod Cylinder barrel
Position detection	For proximity sensor
Variants	Extended male piston rod thread Female thread on piston rod Piston rod with special thread Extended piston rod Metal wiper seal Excellent corrosion protection Through piston rod Heat resistant seals, max. 120 °C Clamped swivel mounting position Screwed swivel mounting position Spacer bolt on end cap side Spacer bolt on both sides Spacer bolt on bearing cap side Temperature range 0 - 150 °C Single-ended piston rod For proximity sensor Piston rod with shortened male thread Variable stud bolt
Operating pressure MPa	0.06 ... 1 MPa
Operating pressure	0.6 ... 10 bar

<b>Feature</b>	<b>Value</b>
Mode of operation	double-acting
CE mark (see declaration of conformity)	to EU directive explosion protection (ATEX)
ATEX category Gas	II 2G
ATEX category Dust	II 2D
Explosion ignition protection type Gas	c T4
Explosion ignition protection type Dust	c T120°C
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +60°C
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress 3 - High corrosion stress
PWIS conformity	VDMA24364-B1/B2-L VDMA24364 zone III
Ambient temperature	-20 ... 150 °C
Impact energy in end positions	2.3 ... 3.3 J
Cushioning length	48 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	11,310 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	11,310 ... 12,064 N
Pneumatic connection	G3/4
Materials note	Conforms to RoHS
Material cover	Die-cast aluminium, coated
Material piston seal	FPM NBR
Material piston	Die-cast aluminium
Material piston rod	high-alloy stainless steel, hard chrome plated High alloy steel High alloy steel, non-corrosive
Material piston rod wiper seal	FPM NBR
Buffer seal material	FPM TPE-U(PU)
Cushion piston material	Wrought aluminium alloy POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	steel, galvanized High alloy steel, non-corrosive
Rod wiper seal material	Brass
Material bearing	Bronze Metal polymer compound
Collar nut material	Galvanised steel
Material tie rod	High alloy steel High alloy steel, non-corrosive
Spacer bolt material	High alloy steel High alloy steel, non-corrosive
Swivel mounting material	Spheroidal graphite cast iron, painted