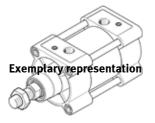
standards-based cylinder **DSBG-...-80-**Part number: 1646769 -



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 2,800 mm
Piston diameter	80 mm
Piston rod thread	M16x1,5
	M20x1,5
	M20
	M16
	M12
Max. angular deflection of piston rod +/-	-0.45 0.45 deg
Based on the standard	ISO 15552
Cushioning	P: Flexible cushioning rings/plates at both ends
	PPS: Self-adjusting pneumatic end-position cushioning
	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	For unlubricated operation
	Bellows on bearing cap
	Hard wiper seal
	Extended male piston rod thread
	Female thread on piston rod
	Piston rod with special thread
	Extended piston rod
	Metal wiper seal
	With protection against rotation
	Constant slow movement
	Low-friction
	Through piston rod
	Heat resistant seals, max. 120°C
	Temperature range 0 - 150 °C
	Temperature range -40 - 80 °C
	Single-ended piston rod
	Low friction for balancer applications
	Piston rod with shortened male thread
	Variable stud bolt
Operating pressure MPa	0.005 1.2 MPa
Operating pressure	0.05 12 bar
Mode of operation	double-acting
CE mark (see declaration of conformity)	to EU directive explosion protection (ATEX)

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Feature	Value
UKCA marking (see declaration of conformity)	To UK EX instructions
ATEX category Gas	ll 2G
ATEX category Dust	II 2D
Explosion ignition protection type Gas	Ex h IIC T4 Gb
Explosion ignition protection type Dust	Ex h IIIC T120°C Db
Explosion-proof ambient temperature	-20°C <= Ta <= +60°C
Explosion protection certification outside the EU	EPL Db (GB)
	EPL Gb (GB)
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	-40 150 °C
Impact energy in end positions	1.8]
Cushioning length	32 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	2,721 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	2,721 3,016 N
Additional weight per piston rod extension of 10 mm	39 g
Additional weight per piston rod thread extension of 10 mm	22 g
Mounting type	with internal (female) thread
	with accessories
	Optional
Pneumatic connection	G3/8
Materials note	Conforms to RoHS
Material cover	Die-cast aluminium, coated
Material piston seal	FPM
	HNBR
	TPE-U(PU)
Material piston	Wrought Aluminium alloy
Material piston rod	high-alloy stainless steel, hard chrome plated
	High alloy steel
	High alloy steel, non-corrosive
Material piston rod wiper seal	FPM
	HNBR
	PE
	TPE-U(PU)
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
	PTFE reinforced
Material bearing	Bronze
	Metal polymer compound
	POM
Collar nut material	Galvanised steel
Material tie rod	High alloy steel
	High alloy steel, non-corrosive
Spacer bolt material	High alloy steel, non-corrosive
Swivel mounting material	Spheroidal graphite cast iron, painted
Material bellows	NBR
	PA