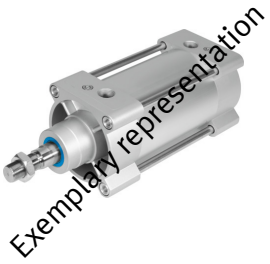
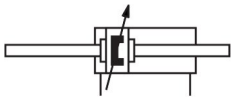
ISO cylinder
DSBG-...-125- -

Part number: 2045493





General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 2800 mm
Piston diameter	125 mm
Piston rod thread	M27x2 M27 M24 M20x1.5 M20 M16x1.5 M16
Based on standard	ISO 15552
Cushioning	Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning 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
Symbol	00991217 00991218 00991235 00991237 00992970 00992971

Feature	Value
Variants	For unlubricated operation Bellows on bearing cap Hard scraper Extended male piston rod thread Piston rod with female thread Custom thread on the piston rod Extended piston rod Low friction for balancer applications Metal scraper With protection against rotation Uniform, slow movement Low friction Through piston rod Heat-resistant seals max. 120°C Variable spacer bolt length Temperature range 0 to 150°C Temperature range -40 to 80°C Shortened male piston rod thread Piston rod at one end
Operating pressure	0.005 MPa ... 1 MPa
Operating pressure	0.05 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 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) 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
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
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	-40 °C ... 150 °C
Impact energy in end positions	2.5 J
Cushioning length	42 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	6881 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	6881 N ... 7363 N
Additional weight per piston rod extension of 10 mm	63 g
Additional weight per piston rod thread extension of 10 mm	41 g
Type of mounting	Either: Via female thread With accessories
Pneumatic connection	G1/2
Note on materials	RoHS-compliant
Material cover	Coated die-cast aluminium
Material piston seal	FPM HNBR TPE-U(PU)
Material piston	Wrought aluminium alloy

Feature	Value
Material piston rod	High-alloy stainless steel, hard chrome-plated High-alloy steel High-alloy stainless steel
Material piston rod wiper	FPM HNBR PE TPE-U(PU)
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 PTFE reinforced
Material bearing	Bronze Metal polymer compound POM
Material collar nut	Galvanised steel
Material tie rod	High-alloy steel High-alloy stainless steel
Material spacer bolt	High-alloy stainless steel
Material swivel mounting	Painted spheroidal graphite cast iron