ISO cylinder
DSBC-...-63- -

Part number: 1463475



Data sheet

Feature	Value
Stroke	1 mm...2800 mm
Piston diameter	63 mm
Piston rod thread	M16x1.5 M10
Torsional backlash at piston rod +/-	-0.45 deg...0.45 deg
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	Any
Conforms to standard	ISO 15552
Design	Piston Piston rod Profile barrel
Position detection	Via proximity switch
Variants	For unlubricated operation Clamping unit attached End-position locking at both ends End-position locking with piston rod in retracted position End-position locking with piston rod in advanced position Increased chemical resistance Protective bellows on bearing cap Hard wiper Advancing stroke adjustment Weld spatter protection Extended male piston rod thread Piston rod with external hexagon Low friction for balancer applications Metal scraper Module for reaching a specific end position in case of a pressure failure Reinforced piston rod Uniform, slow movement Low friction Through, hollow piston rod Sensor slots on 3 profile sides Temperature range 0 to 150°C Temperature range -40 to 80°C Additional PTFE piston guide
Mode of operation clamping unit	retracting

Feature	Value
	advancing static Released through compressed air Frictional clamping with spring force
Static holding force of clamping unit	2000 N
Axial backlash of clamping unit	0.8 mm
Clamping unit release pressure	0.3 MPa 3 bar
Mode of operation end-position locking	Positive interlocking with stop cylinder Released through compressed air
Static holding force of end-position locking	2000 N
Axial backlash end-position locking	1.5 mm
Unlocking pressure	0.15 MPa 1.5 bar
Locking pressure	0.05 MPa 0.5 bar
Operating pressure	0.01 MPa...1.2 MPa 0.1 bar...12 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)
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	0.4 J...1.3 J
Cushioning length	0 mm...22 mm
Max. torque for protection against torsion	1.5 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	1682 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	1682 N...1870 N
Moving mass for 0 mm stroke	346 g...874 g
Additional moving mass per 10 mm stroke	20 g...50 g
Additional weight per piston rod extension of 10 mm	25 g
Additional weight per piston rod thread extension of 10 mm	14 g
Type of mounting	Either: With female thread With accessories
Pneumatic connection	G3/8
Note on materials	RoHS compliant
Material cylinder barrel	Smooth-anodised wrought aluminium alloy