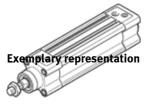
Standards-based cylinder DSBC-...-100- Part number: 1463520 ★ Core product range





Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 2,800 mm
Piston diameter	100 mm
Piston rod thread	M20x1,5
	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
	Profile barrel
Position detection	For proximity sensor
Variants	For unlubricated operation
	Clamping unit attached
	End position locking at both ends
	End position locking, rear
	End-position locking, front
	Increased chemical resistance
	Bellows on bearing cap
	Hard wiper seal
	Extended male piston rod thread
	Female thread on piston rod
	Extended piston rod
	Metal wiper seal
	With protection against rotation
	Constant slow movement
	Low-friction
	Through piston rod
	Heat resistant seals, max. 120°C
	Sensor slots on 3 profile sides
	Temperature range 0 - 150 °C
	Temperature range -40 - 80 °C
	Single-ended piston rod
	Low friction for balancer applications
Mode of operation of clamping unit	Retracting
mode of operation of clamping unit	Advancing
	Static
	Released through compressed air
	Frictional clamping via spring force



State holding force of clamping unit	Feature	Value
Clamping unit release pressure 3 har Mode of operation of end position locking Released through compressed air Static holding force of end-position locking 8,000 N Static holding force of end-position locking 1,5 mm Unlocking pressure (MPa) Locking pressure (MP	Static holding force of clamping unit	5,000 N
Static holding force of end-position locking Positive locking by stop cylinder Released through compressed air S.000 N Avail backlash of end-position locking S.000 N Avail backlash of end-position locking pressure S.000 N Avail backlash of end-position gressure S.000 N Avail backlash of end-position gressure S.000 N Avail backlash of end-position S.000 N Avail backlash of end-positi	Axial backlash of clamping unit	0.8 mm
Mode of operation of end-position locking Released through compressed air Static holding force of end position locking Asala backlash of end-position locking Unlocking pressure (MPA) Unlocking pressure	Clamping unit release pressure	0.3 MPa
Static holding force of end-position locking Autal backlash of and position locking 1.5 mm Unlocking pressure (MPa) Unlocking pressure 1.6 bar Locking pressure 1.6 bar Locking pressure 1.7 bar Locking pressure 1.7 bar Locking pressure 1.8 bar Locking pressure 1.9 bar Locking pressure 1.9 bar Locking pressure 1.9 bar Locking pressure 1.0 bar Locking pressure 1.2 bar Locking pressure (MPa) Locking pressure 1.2 bar Locking pressure 1.2 bar Locking pressure (MPa) Locking pressure (MPa) Locking pressure 1.2 bar Lock		3 bar
Static holding force of end position locking 1.5 mm	Mode of operation of end-position locking	
Axial backlash of end position locking		_ ,
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Operating pressure MPa		-
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EPL Gb (GB) Operating medium		
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Feature	Value
	PE
	TPE-U(PU)
Buffer seal material	FPM
	TPE-U(PU)
Cushion piston material	Aluminum
	POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	steel, galvanized
Rod wiper seal material	Brass
	PTFE reinforced
Material bearing	Bronze
	Metal polymer compound
	POM
Material of flange screw	steel, galvanized
Material bellows	NBR
	PA