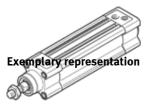
Standards-based cylinder DSBC-...-63- Part number: 1463475 ★ Core product range





Data sheet

Overall data sheet – Individual values depend upon your configuration.

Value
1 2,800 mm
63 mm
M16x1,5
M10
-0.45 0.45 deg
ISO 15552
P: Flexible cushioning rings/plates at both ends
PPS: Self-adjusting pneumatic end-position cushioning
PPV: Pneumatic cushioning adjustable at both ends
Any
ISO 15552
Male thread
Female thread
Piston
Piston rod
Profile barrel
For proximity sensor
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
Retracting
Advancing
Static
Released through compressed air
Frictional clamping via spring force



Feature	Value
Static holding force of clamping unit	2,000 N
Axial backlash of clamping unit	0.8 mm
Clamping unit release pressure	0.3 MPa
	3 bar
Mode of operation of end-position locking	Positive locking by stop cylinder
	Released through compressed air
Static holding force of end-position locking	2,000 N
Axial backlash of end-position locking	1.5 mm
Unlocking pressure (MPa)	>= 0.15 MPa
Unlocking pressure	>= 1.5 bar
Locking pressure (MPa)	<= 0.05 MPa
Locking pressure	(= 0.5 bar
Operating pressure MPa Working pressure	0.01 1.2 MPa
Mode of operation	double-acting
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
ATEX category Gas	II 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 Cushioning length	0.4 1.3 J 0 22 mm
Max. torque for protection against rotation	1.5 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	1,682 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,682 1,870 N
Moving mass with 0 mm stroke	346 874 g
Additional mass factor per 10 mm of stroke	20 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
Mounting type	with internal (female) thread
	with accessories
	Optional
Pneumatic connection	G3/8
Materials note	Conforms to RoHS
Material cover	Coated die-cast aluminium
Material spring	Spring steel
Clamping unit hausing material	High alloy steel, non-corrosive
Clamping unit housing material Housing end-position locking material	Anodised wrought aluminium alloy Anodised wrought aluminium alloy
Material piston seal	FPM
The state of the s	HNBR
	TPE-U(PU)
Clamping jaws clamping unit material	Brass
Clamping unit piston material	POM
Piston end-position locking material	Steel, hardened
Material piston	Wrought Aluminum alloy
Material piston rod	high-alloy stainless steel, hard chrome plated
	High alloy steel
	High alloy steel, non-corrosive



Feature	Value
Material piston rod wiper seal	FPM
	HNBR
	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
	TPE-E
Material bearing	Bronze
	Metal polymer compound
	POM
Material of flange screw	steel, galvanized
Material bellows	NBR
	PA