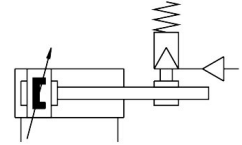
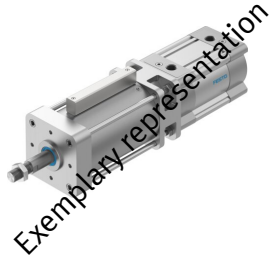


Cylinder with holding brake DFLC-100- -

Part number: 8073333

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	10 mm ... 2000 mm
Piston diameter	100 mm
Piston rod thread	M20x1.5
Based on norm	ISO 15552 (previously also VDMA 24562, ISO 6431, NF E49 003.1, UNI 10290)
Cushioning	Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Clamping type with active direction	Both sides Clamped by spring, released by compressed air
Piston rod end	External thread
Structural design	Piston Piston rod Profile barrel
Position sensing	For proximity sensor
Symbol	00995696
Variants	Piston rod at one end
Safety function	Holding and stopping a movement
Performance Level (PL)	Stopping, holding, blocking of movement/Category 1, Performance Level c
Operating pressure	0.06 MPa ... 0.8 MPa
Operating pressure	0.6 bar ... 8 bar
Operating pressure	8.7 psi ... 116 psi
Max. permissible test pressure	8 bar
Min. release pressure	3.8 bar
Mode of operation	Double-acting
Certification	German Technical Control Board (TÜV)
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX) as per EU machinery directive
UKCA marking (see declaration of conformity)	acc. to UK EX instructions To UK instructions for machines
Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)
Certificate issuing authority	TÜV CA 697
ATEX category gas	II 2G
ATEX category for dust	II 2D

Feature	Value
Type of ignition protection for gas	Ex h IIC T4 Gb
Type of (ignition) protection for dust	Ex h IIIC T120°C Db
Explosive ambient temperature	-20°C ≤ Ta ≤ +60°C
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Ambient temperature	-10 °C ... 80 °C
Cushioning length	31 mm
Static holding force	8200 N
Theoretical force at 6 bar, retracting	4418 N
Theoretical force at 6 bar, advancing	4712 N
Moving mass at 0 mm stroke	1940 g
Additional moving mass per 10 mm stroke	40 g
Basic weight with 0 mm stroke	19120 g
Additional weight per 10 mm stroke	101 g
Type of mounting	With internal thread With accessories
Clamping unit release connection	G3/8
Pneumatic connection	G1/2
Note on materials	RoHS-compliant
Cover material	Die-cast aluminum Wrought aluminum alloy
Seals material	NBR TPE-U(PU)
Housing material	Steel
Piston rod material	Steel, hard-chrome-plated
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized