

# Cylinder with holding brake DFLC-40- -

Part number: 8073331

**FESTO**



## Data sheet

Feature	Value
Stroke	10 mm...2000 mm
Piston diameter	40 mm
Piston rod thread	M12x1.25
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
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 0.6 bar...8 bar 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

Feature	Value
ATEX category for dust	II 2D
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-B2-L
Ambient temperature	-20 °C...80 °C
Cushioning length	19 mm
Static holding force	1350 N
Theoretical force at 6 bar, retracting	633 N
Theoretical force at 6 bar, advancing	754 N
Moving mass at 0 mm stroke	502 g
Additional moving mass per 10 mm stroke	16 g
Basic weight with 0 mm stroke	2930 g
Additional weight per 10 mm stroke	37 g
Type of mounting	With internal thread With accessories
Clamping unit release connection	G1/8
Pneumatic connection	G1/4
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