

# ISO cylinder DNC-50- -

Part number: 163366

FESTO



## Data sheet

Feature	Value
Stroke	2 mm...2000 mm
Piston diameter	50 mm
Based on norm	ISO 15552
Cushioning	Elastic cushioning rings/pads at both ends Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Structural design	Piston Piston rod Profile barrel
Position sensing	For proximity sensor None
Variants	With end-position locking at both ends With rear end-position locking With front end-position locking Improved running performance Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Piston rod with external hexagon Extended piston rod Clamping unit on the piston rod With anti-twist protection High corrosion protection Dust protection Uniform, slow movement Low friction Through piston rod Through, hollow piston rod Heat-resistant seals max. 120°C Temperature range -40 to 80°C Monostable valve, mounted on right, unactuated piston rod, retracted Monostable valve, mounted on right, unactuated piston rod, advanced Bistable valve, mounted on right, unactuated piston rod, retracted Monostable valve, mounted on left, unactuated piston rod, retracted Monostable valve, mounted on left, unactuated piston rod, advanced Bistable valve, mounted on left, unactuated piston rod, retracted Piston rod at one end
Protection against torsion/guide	Square piston rod
Operating pressure	0.02 MPa...1.2 MPa 0.2 bar...12 bar

Feature	Value
Mode of operation	Double-acting
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Explosion prevention and protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
ATEX category gas	II 2G
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
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
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...120 °C
Impact energy in the end positions	0.2 J
Max. torque for protection against rotation	1.5 Nm
Theoretical force at 6 bar, retracting	990 N
Theoretical force at 6 bar, advancing	990 N...1178 N
Type of mounting	With internal thread With accessories
Pneumatic connection	G1/4
Note on materials	RoHS-compliant
Cover material	Die-cast aluminum Coated
Material of cylinder barrel	Wrought aluminum alloy Smooth anodized