

# ISO cylinder DNC-32- -

Part number: 163302

**FESTO**



## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Maritime classification	See certificate
Stroke	2 mm ... 2000 mm
Piston diameter	32 mm
Type code	DNC
Based on norm	ISO 15552
Cushioning	Elastic cushioning rings/pads at both ends Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Design	Piston Piston rod Profile barrel
Position sensing	None For proximity sensor
Variants	Bistable pneumatic valve, fitted on right, piston rod retracted when not actuated Continuous, hollow piston rod Extended external thread piston rod With anti-twist protection Piston rod at one end Through piston rod Increased service life With rear end-position locking Temperature range -40 to 80 °C Extended piston rod Clamping unit on the piston rod With front end-position locking Low friction With end-position locking at both ends Monostable pneumatic valve, mounted on left, piston rod retracted when not actuated High corrosion protection Internal thread on piston rod Dust protection Piston rod with external hexagon Monostable pneumatic valve, mounted on right, piston rod retracted when not actuated Constant, slow movement Heat-resistant seals max. 120°C Monostable pneumatic valve, fitted on right, piston rod extended when not actuated Bistable pneumatic valve, fitted on left, piston rod retracted when not actuated Monostable pneumatic valve, fitted on left, piston rod extended when not actuated Special thread on piston rod

Feature	Value
Protection against torsion/guide	Square piston rod
Operating pressure	0.2 bar ... 12 bar
Mode of operation	Double-acting
ATEX category gas	II 2G
Type of ignition protection for gas	Ex h IIC T4 Gb
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex h IIIC T120°C Db
Explosive ambient temperature	-20°C ≤ Ta ≤ +60°C
Explosion prevention and protection	Zone 22 (ATEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX)
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)
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress 3 - High corrosion stress
Ambient temperature	-40 °C ... 120 °C
Impact energy in the end positions	0.1 J
Max. torque for protection against rotation	0.8 Nm
Theoretical force at 6 bar, retracting	415 N
Theoretical force at 6 bar, advancing	415 N ... 483 N
Type of mounting	With internal thread With accessories
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Cover material	Coated Die-cast aluminum
Material of cylinder barrel	Wrought aluminum alloy Smooth anodized