Round cylinder
CRDSNU-80

Part number: 8126418

Data sheet

Feature	Value
Stroke	1 mm...500 mm
Piston diameter	80 mm
Piston rod thread	M20x1.5 M12
Cushioning	Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Piston rod end	External thread Internal thread
Structural design	Piston Piston rod Cylinder barrel
Position sensing	For proximity sensor
Variants	For unlubricated operation EX protection approval (ATEX) Increased chemical resistance Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Extended piston rod Bearing cover without mounting thread Lateral supply port Through piston rod Piston rod at one end
Operating pressure	0.1 MPa...1 MPa
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 protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
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

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]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	4 - Particularly high corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L VDMA24364 zone III
For use in the food industry	See declaration of conformity
Ambient temperature	-20 °C...80 °C
Theoretical force at 6 bar, retracting	2721 N
Theoretical force at 6 bar, advancing	3016 N
Moving mass at 0 mm stroke	860 g
Additional moving mass per 10 mm stroke	39 g
Basic weight with 0 mm stroke	5891 g
Additional weight per 10 mm stroke	68 g
Type of mounting	With accessories
Pneumatic connection	G3/8
Note on materials	RoHS-compliant
Cover material	High-alloy stainless steel
Piston rod material	High-alloy stainless steel
Material of cylinder barrel	High-alloy stainless steel