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/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Piston-rod end	Male thread Female thread
Design	Piston Piston rod Cylinder barrel
Position detection	Via proximity switch
Variants	For unlubricated operation EX protection approval (ATEX) Increased chemical resistance Extended male piston rod thread Piston rod with female thread Custom thread on the piston rod Extended piston rod Bearing cap 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 mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Explosion 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 dust	II 2D
Explosion ignition protection type for gas	Ex h IIC T4 Gb
Explosion ignition protection type for dust	Ex h IIIC T120°C Db
Explosion ambient temperature	-20°C <= Ta <= +60°C
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	4 - Very high corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L VDMA24364 zone III
Suitable for use with food	See declaration of conformity
Ambient temperature	-20 °C...80 °C
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	2721 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	3016 N
Moving mass for 0 mm stroke	860 g
Additional moving mass per 10 mm stroke	39 g
Basic weight for 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
Material cover	High-alloy stainless steel
Material piston rod	High-alloy stainless steel
Material cylinder barrel	High-alloy stainless steel