

# ISO cylinder CRDSNU-25-

Part number: 552790

**FESTO**



## Data sheet

Feature	Value
Stroke	1 mm...500 mm
Piston diameter	25 mm
Piston rod thread	M6 M10x1.25
Based on standard	ISO 6432
Cushioning	Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	optional
Piston-rod end	Male thread Female thread
Design	Piston Piston rod Cylinder barrel
Position detection	Via proximity switch
Variants	Hard scraper For unlubricated operation Increased chemical resistance Extended male piston rod thread Extended piston rod Bearing cap without mounting thread Lateral supply port Through piston rod Heat-resistant seals max. 120°C Temperature range -40 to 80°C Piston rod at one end
Operating pressure	0.1 MPa...1 MPa 1 bar...10 bar
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)

Feature	Value
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
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	3 - high corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L VDMA24364 zone III
Cleanroom class	Class 6 according to ISO 14644-1
Suitable for use with food	See declaration of conformity
Ambient temperature	-40 °C...120 °C
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	247 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	295 N
Moving mass for 0 mm stroke	73 g
Additional moving mass per 10 mm stroke	6 g
Basic weight for 0 mm stroke	410 g
Additional weight per 10 mm stroke	11 g
Type of mounting	With accessories
Pneumatic connection	G1/8
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