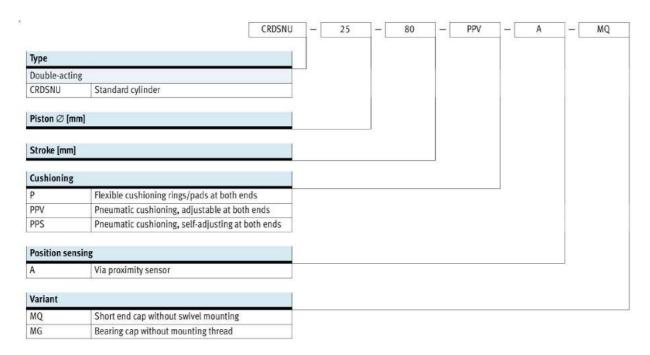


Type codes



Modular product system

Individually configurable

CRDSNU → 15

- · A1 Wiper seal variant: For increased chemical resistance
- A2 Wiper seal variant: Hard wiper seal
- A3 Wiper seal variant: For unlubricated operation
- · S2 Through piston rod
- K2 Extended male piston rod thread
- K3 Female piston rod thread
- K5 Special piston rod thread
- . K8 Extended piston rod at the front
- S6 Heat-resistant seals up to max. 120 °C (temperature resistance)
- TT Low temperature –40 °C ... +80 °C
- ATEX certification II 2GD

Technical data



Function





- Ø - Diameter 12 ... 25 mm



Stroke length 1 ... 500 mm





Piston Ø			12	16	20	25
Pneumatic connection		M5	M5	G½8	G1/8	
Piston rod thread			M6	M6	M8	M10x1.25
Constructional design			Piston			
			Piston rod			
			Cylinder barrel			
Cushioning	Р		Flexible cushioning rings/pads at both ends			
	PPV		-		Adjustable cushioning at both ends	
	PPS		-	Self-adjusting cus	nioning at both ends	
Cushioning length	PPV	[mm]	-		15	17
	PPS	[mm]	_	12	15	17
Position sensing			Via proximity sensor			
Type of mounting		Via accessories				
1000 SE			Via male thread			
Mounting position			Any			

Operating conditions				
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4] Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Note on operating/pilot medium				
Operating pressure ¹⁾ [bar]	1 10			
Suitability for use in the food industry ²⁾	As per manufacturer's declaration			

- An increase in the minimum operating pressure is possible with variants
 Additional information www.festo.com/sp → User documentation.

Ambient conditions				
Standard cylinder	Basic version	A1	S6	π
Ambient temperature ¹⁾ [°C]	-20 +80	0 +80	0 +120	-40 +80
Corrosion resistance class CRC ²⁾	3			,

- 1) Note operating range of proximity sensors
- 2) Corrosion resistance class CRC 3 to Festo standard FN 940070 High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.

ATEX ¹⁾				
ATEX category for gas	II 2G			
Explosion ignition protection type for gas	c T4			
ATEX category for dust	II 2D			
Explosion ignition protection type for dust	c 120°C			
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +60°C			
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)			

¹⁾ Note the ATEX certification of the accessories.

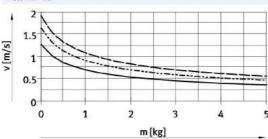


Force [N] and impact energy [J]				
Piston Ø	12	16	20	25
Theoretical force at 6 bar, advancing	68	121	188	295
Theoretical force at 6 bar, retracting	51	104	158	247
Impact energy in the end positions for P cushioning ¹⁾	0.07	0.15	0.20	0.30

¹⁾ The values are reduced by approx. 50% at an ambient temperature of 80 °C

Average piston speed v as a function of applied load m in combination with PPS cushionings

Piston Ø 16

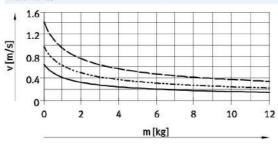


1.5 v [m/s] 1 0.5 0 0 m[kg]

- CRDSNU-16-50 ----- CRDSNU-16-100 ----- CRDSNU-16-200

- CRDSNU-20-50 ----- CRDSNU-20-100 -- CRDSNU-20-200

Piston Ø 25



Note Average piston speed = stroke/movement time

CRDSNU-25-50 ----- CRDSNU-25-100 ---- CRDSNU-25-200

Weight [g]					
Piston Ø	12	16	20	25	
Basic weight with 0 mm stroke	101	130	310	410	
Additional weight per 10 mm stroke	4	5	7	11	
Moving load with 0 mm stroke	19	21	42	73	
Additional load per 10 mm stroke	2	2	4	6	



Technical data

