

Type codes

001	Series	
CRDNG	Standard-based cylinder, double-acting, based on ISO 15552, stainless steel	
CRDNGS	Standards-based cylinder with swivel flange, double-acting, based on ISO 15552, stainless steel	

002	Piston diameter	
32	32	
40	40	
50	50	
63	63	
80	80	
100	100	
125	125	

003	Stroke	
...	10 ... 2000	

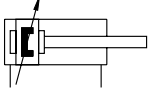
004	Cushioning	
PPV	Pneumatic cushioning, adjustable at both ends	

005	Position sensing	
A	For proximity sensor	

006	Temperature range	
	Standard	
S6	Heat-resistant seals max. 120 °C	

Data sheet

PPV cushioning



- Ø - Diameter
32 ... 125 mm

- | - Stroke length
10 ... 2000 mm

 Spare parts management

Variant

S2



S6



The variant S6 is not suitable for direct contact with food products because of the seals and the grease used.



Conforms to standard

- ISO 15552
- ISO 6431
- VDMA 24562



General technical data							
Piston diameter	32	40	50	63	80	100	125
Pneumatic connection	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2
Piston rod thread	M10x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5	M20x1.5	M27x2
Design	Piston						
	Piston rod						
	Cylinder barrel						
Cushioning	Pneumatic cushioning, adjustable at both ends						
Cushioning length [mm]	20	20	23	23	30	30	40
Position sensing	Via proximity switch						
Type of mounting	With accessories						
	With female thread						
Mounting position	Any						

Operating and environmental conditions	
Variant	CRDNG/CRDNGS S6
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure	0.6 ... 10 bar
Ambient temperature ¹⁾ [°C]	-20 ... +80 0 ... +120
Food-safe ²⁾	→ supplementary material information
Corrosion resistance CRC ³⁾	4

1) Note operating range of proximity switches

2) Additional information is available at www.festo.com/sp → Certificates.

3) Corrosion resistance class CRC 4 to Festo standard FN 940070

Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by special tests (→ also FN 940082), using appropriate media.

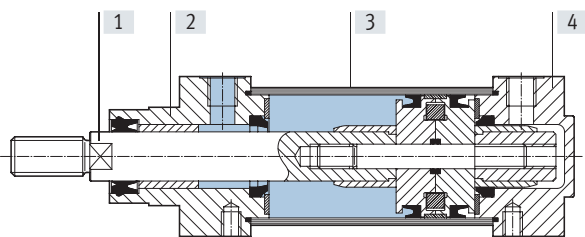
Forces [N]							
Piston diameter	32	40	50	63	80	100	125
Theoretical force at 6 bar, advancing	482	753	1178	1870	3015	4712	7360
Theoretical force at 6 bar, retracting	415	633	990	1682	2720	4418	6880

Data sheet

Weight [g]							
Piston diameter	32	40	50	63	80	100	125
CRDNG							
Basic weight with 0 mm stroke	1045	1360	2160	3455	5935	8070	
Additional weight per 10 mm stroke	20	30	60	60	100	110	
CRDNGS							
Basic weight with 0 mm stroke	1070	1460	2330				
Additional weight per 10 mm stroke	20	30	60				

Materials

Sectional view of CRDNG



Standards-based cylinder		Basic type	S6
[1]	Piston rod	High-alloy stainless steel	
[2]	Bearing cap	Stainless-steel casting	
[3]	Cylinder barrel	High-alloy stainless steel	
[4]	End cap	Stainless-steel casting	
–	Tie rod	High-alloy stainless steel	
–	Seals	NBR, TPE-U (PUR) media seal (modified for resistance to hydrolysis and cleaning)	FPM