

Type codes

001	Series	
CRHD	Round cylinder, double-acting, stainless steel	

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

003	Stroke	
...	10 ... 500	

004	Cushioning	
PPV	Pneumatic cushioning, adjustable at both ends	

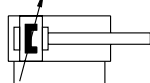
005	Position sensing	
A	For proximity sensor	

006	Type of end cap	
MQ	Without mounting threads	
MS	With strap	
MC	With clevis	

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

Data sheet

PPV cushioning



⌀ - Diameter
32 ... 100 mm

└ - Stroke length
10 ... 500 mm

Spare parts management

Variant S6



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



General technical data						
Piston diameter	32	40	50	63	80	100
Pneumatic connection	G1/8	G1/8	G1/4	G3/8	G3/8	G3/8
Piston rod thread	M10x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5	M20x1.5
Design	Piston					
	Piston rod					
	Cylinder barrel					
Cushioning	Pneumatic cushioning, adjustable at both ends					
Cushioning length	17	19.5	21	21	31	31
Position sensing	Via proximity switch					
Type of mounting	With accessories					
Mounting position	Any					

Operating and environmental conditions		CRHD	S6
Variant		CRHD	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		1 ... 10 bar	
Ambient temperature ¹⁾	[°C]	-20 ... +80	0 ... +120
Food-safe ²⁾		→ supplementary material information	
Corrosion resistance CRC ³⁾		3	

1) Note operating range of proximity switches

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

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

High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

Forces [N]						
Piston diameter	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	483	754	1178	1870	3016	4712
Theoretical force at 6 bar, retracting	415	633	990	1682	2721	4418

Weight [g]						
Piston diameter	32	40	50	63	80	100
Basic weight with 10 mm stroke	676	1196	1849	2977	5172	8472
Additional weight per 10 mm stroke	26	42	57	65	100	115
Moving mass with 10 mm stroke	106	198	340	398	717	968
Additional mass per 10 mm stroke	9	16	25	25	38	38