



- Corrosion-resistant in harsh ambient conditions
- Easy-to-clean design
- Wide choice of variants
- Comprehensive range of accessories

Specified types in accordance with ATEX directive for potentially explosive atmospheres

→ [www.festo.com/en/ex](http://www.festo.com/en/ex)

# Stainless steel cylinders

Key features

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## Their applications

Reliable components need to achieve 100% operational reliability, even in harsh operating conditions. The aim is to maximise availability of machinery while minimising downtimes. Stainless steel cylinders are therefore used in applications where the surface finish of normal pneumatic drives would render them non-resistant to the surrounding media. However, designing a corrosion-resistant system involves more than simply selecting a suitable steel – it also requires the selection of a tailored concept for mounting components and accessories.

## Their strengths

Festo's stainless steel cylinders are made from highly resistant materials such as 1.4301 and 1.4401. These popular high-alloy, stainless austenitic chrome/nickel and chrome/nickel/molybdenum steels protect against chemical or electrochemical stress as well as damage to the material surface caused by cleaning or detergents. These groups of materials are particularly resistant to uniform surface corrosion and offer increased protection against pitting and crevice corrosion.

## Their advantages

Festo's worldwide service network ensures optimum availability of stainless steel cylinders. As well as a comprehensive range of standard cylinders to DIN ISO 6431 and 6432, we also offer a range of tailored mounting components and accessories. The stainless steel cylinders are assembled with USDA-H1 lubricating grease and wiper seals in accordance with BGVV (Federal Institute for Risk Assessment) guidelines. This means that they are suitable for use in the food industry and for direct contact with food products. We will be pleased to answer any inquiries you may have about future additions to our stainless steel range. Just give us a call.

## Good to know

Our many years of experience in the area of stainless steel can be invaluable when you are investigating solutions for harsh environments. Our experts can answer any questions you might have about surface finishes and chemical resistance.



The atmosphere in the curing cellar of a cheese factory consists of an unpleasant mix of ammonia, lactic acid and 98% humidity.



An area subject to radiation of up to 4 sievert/h whilst immersed in fully desalinated water in a manipulator for dismantling nuclear reactor pressure reservoirs and thermal shields.

## Stainless steel cylinders

Key features

### Resistance

Complete resistance to pitting and crevice corrosion is not always possible, even with ideal application parameters. The following parameters increase the pitting effect of chloride ions:

- Concentration of chloride ions
- Duration of contact
- Temperature
- Decreasing pH value

It must therefore be ensured during design, assembly and operation that all parts of the machinery can be properly cleaned to avoid an accumulation of chloride ions.

Selected sealing materials ensure very high resistance to a wide range of chemical compounds.

Further information on resistance to media can be obtained on the Internet at [www.festo.com](http://www.festo.com).

In principle, we recommend that the cylinder be cleaned with the piston rod in the retracted position to avoid the risk of washing out the lifetime lubrication.

Various types of machinery contamination make cleaning processes necessary in many industrial sectors.

The degree of cleaning required ranges from wiping the machinery to wet cleaning to foam cleaning with different exposure times and concentrations.

It is therefore impossible to make a general recommendation on compatibility.



Wet cleaning

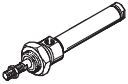
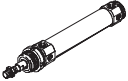
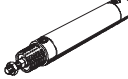
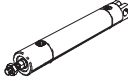

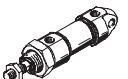
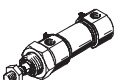
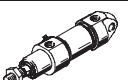
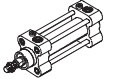
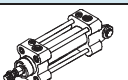


Foam cleaning

## Stainless steel cylinders

Product range overview

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Function	Version	Type	Piston Ø	Stroke	Piston rod					
					Through	Extended	Male thread		Female thread	
							Extended	Special thread		
			[mm]	[mm]	S2	K8	K2	K5	K3	
Double-acting	<b>Round cylinders</b>									
		<b>CRDG</b> Piston rod at one end	12, 16 20 25 ... 63	1 ... 200 1 ... 320 1 ... 500	-	-	-	-	-	
		<b>CRDSW</b> Piston rod at one end	32, 40, 50, 63	1 ... 500	-	-	-	-	-	
		<b>CRHD-MQ</b> Bearing cap with male thread	32, 40, 50, 63, 80, 100	10 ... 500 Special lengths on request	-	-	-	-	-	
		<b>CRHD-MC</b> End cap with clevis	32, 40, 50, 63, 80, 100	10 ... 500 Special lengths on request	-	-	-	-	-	
		<b>CRHD-MS</b> End cap with lug	32, 40, 50, 63, 80, 100	10 ... 500 Special lengths on request	-	-	-	-	-	
	<b>Standard cylinders to ISO 6432</b>									
		<b>CRDSNU</b> Piston rod at one end	12, 16 20 25	10 ... 200 10 ... 320 10 ... 500	■	■	■	■	■	
		<b>CRDSNU-MQ</b> Short end cap without swivel mounting	12, 16 20 25	10 ... 200 10 ... 320 10 ... 500	-	■	■	■	■	
		<b>CRDSNU-MG</b> Bearing cap without mounting thread	12, 16 20 25	10 ... 200 10 ... 320 10 ... 500	-	■	■	■	■	
	<b>Standard cylinders to ISO 15552 (ISO 6431 and VDMA 24562)</b>									
		<b>CRDNG</b> Piston rod at one end	32, 40, 50, 63, 80, 100, 125	10 ... 2,000	■	-	-	-	-	
	<b>Standard cylinders with swivel bearing at rear to ISO 15552 (ISO 6431 and VDMA 24562)</b>									
		<b>CRDNGS</b> Piston rod at one end	32, 40, 50, 63, 80, 100, 125	10 ... 2,000	-	-	-	-	-	

## Stainless steel cylinders

Product range overview

Type	Position sensing	Cushioning			Wiper seal material			Heat-resistant seal	Low temperature	→ Page/ Internet
		Fixed	Adjustable	Self-adjusting	Heat resistant	Hard wiper seal	Unlubricated operation			
	A	P	PPV	PPS	A1	A2	A3	S6	TT	
<b>Round cylinders</b>										
<b>CRDG</b> Piston rod at one end	■	■	-	-	-	-	-	-	-	6
<b>CRDSW</b> Piston rod at one end	■	■	-	-	-	-	-	-	-	12
<b>CRHD-MQ</b> Bearing cap with male thread	■	-	■	-	-	-	-	■	-	17
<b>CRHD-MC</b> End cap with clevis	■	-	■	-	-	-	-	■	-	17
<b>CRHD-MS</b> End cap with lug	■	-	■	-	-	-	-	■	-	17
<b>Standard cylinders to ISO 6432</b>										
<b>CRDSNU</b> Piston rod at one end	■	■	■	■	■	■	■	■	■	24
<b>CRDSNU-MQ</b> Short end cap without swivel mounting	■	■	■	■	■	■	■	■	■	24
<b>CRDSNU-MG</b> Bearing cap without mounting thread	■	■	■	■	■	-	■	■	-	24
<b>Standard cylinders to ISO 15552 (ISO 6431 and VDMA 24562)</b>										
<b>CRDNG</b> Piston rod at one end	■	-	■	-	-	-	-	■	-	34
<b>Standard cylinders with swivel bearing at rear to ISO 15552 (ISO 6431 and VDMA 24562)</b>										
<b>CRDNGS</b> Piston rod at one end	■	-	■	-	-	-	-	■	-	34

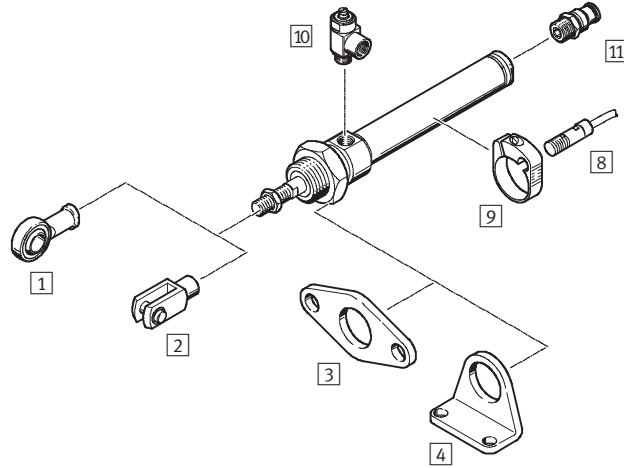
# Round cylinders CRDG, stainless steel

Peripherals overview

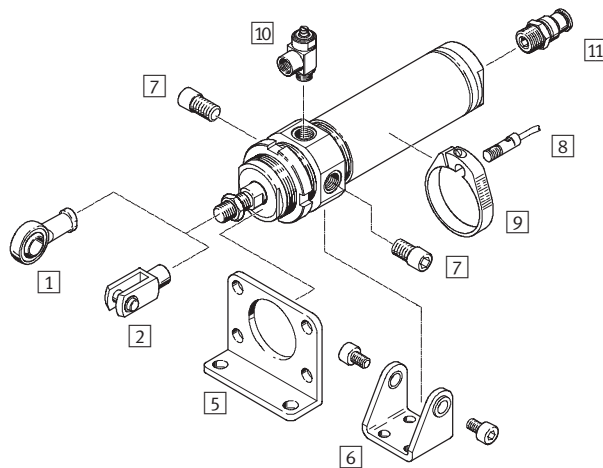
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## CRDG

Piston  $\varnothing$  12 ... 25 mm



Piston  $\varnothing$  32 ... 63 mm



# Round cylinders CRDG, stainless steel

Peripherals overview

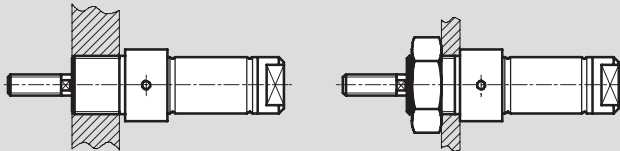
Mounting attachments and accessories					
	Brief description	Piston Ø 12 ... 25 mm	Piston Ø 32 ... 63 mm	→ Page/Internet	
1	Rod eye CRSGS	With spherical bearing	■	■	50
2	Rod clevis CRSG	Permits a swivelling movement of the cylinder in one plane	■	■	50
3	Flange mounting CRFBN	For bearing caps	■	-	44
4	Foot mounting CRHBN	For bearing caps	■	-	42
5	Flange mounting CRFV	For bearing caps	-	■	44
6	Clevis foot CRSBS	For bearing caps	-	■	48
7	Threaded pin CRGBS	For bearing caps	-	■	48
8	Proximity sensor CRSME0-4	With LED for operating status indication	■	■	50
9	Mounting kit CRSMBR	For proximity sensor CRSME0-4	■	■	50
10	One-way flow control valve CRGRLA	For regulating speed	■	■	51
11	Push-in fittings CRQS	For connecting compressed air tubing with standard outside diameter	■	■	quick star

## Mounting options

Piston Ø 12 ... 25 mm

Threaded mounting

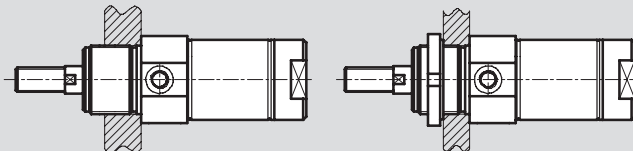
Mounting via hex nut



Piston Ø 32 ... 63 mm

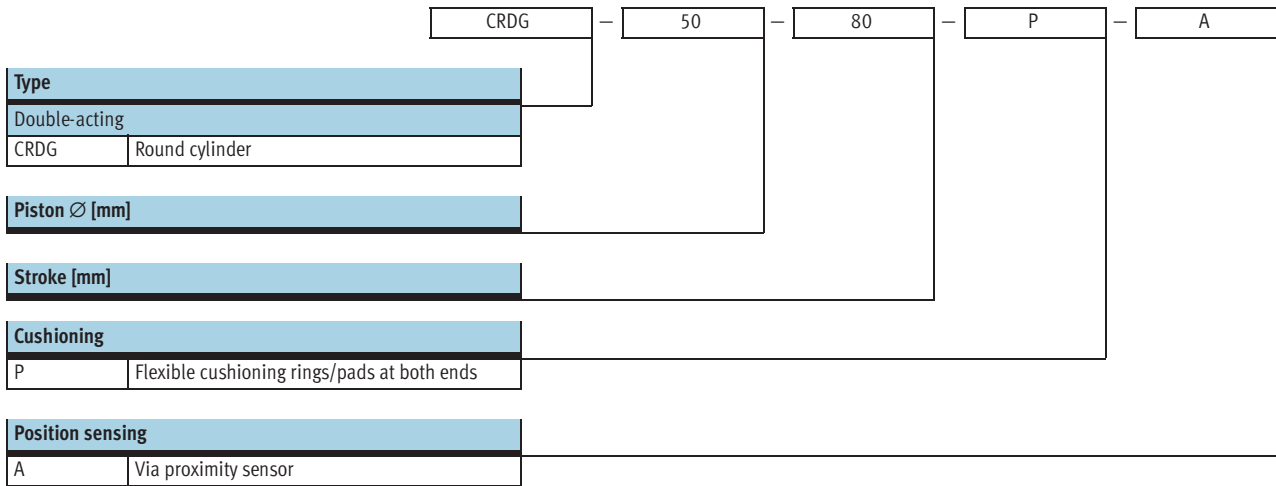
Threaded mounting

Mounting via slotted nut



# Round cylinders CRDG, stainless steel

Type codes



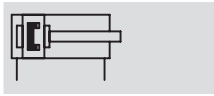


# Round cylinders CRDG, stainless steel

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Technical data

Function



 www.festo.com



⌀ - Diameter  
12 ... 63 mm

┆ - Stroke length  
1 ... 500 mm

General technical data								
Piston Ø	12	16	20	25	32	40	50	63
Pneumatic connection	M5	M5	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{3}{8}$
Piston rod thread	M6	M6	M8	M10x1.25	M10x1.25	M12x1.25	M16x1.5	M16x1.5
Constructional design	Piston							
	Piston rod							
	Cylinder barrel							
Cushioning	Flexible cushioning rings/pads at both ends							
Position sensing	Via proximity sensor							
Type of mounting	Via accessories							
	Via male thread							
Mounting position	Any							

Operating and environmental conditions	
Operating medium	Filtered compressed air, lubricated or unlubricated
Operating pressure	1 ... 10 bar
Ambient temperature <sup>1)</sup> [°C]	-20 ... +80
Corrosion resistance class CRC <sup>2)</sup>	4

1) Note operating range of proximity sensors

2) Corrosion resistance class 4 as per Festo standard 940 070

Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Force [N]								
Piston Ø	12	16	20	25	32	40	50	63
Theoretical force at 6 bar, advancing	68	121	189	295	483	754	1,178	1,870
Theoretical force at 6 bar, retracting	51	104	158	247	415	633	990	1,682

Weight [g]								
Piston Ø	12	16	20	25	32	40	50	63
Basic weight with 0 mm stroke	80	120	270	360	560	1,160	1,950	2,964
Additional weight per 10 mm stroke	4	6	8	12	18	22	35	41

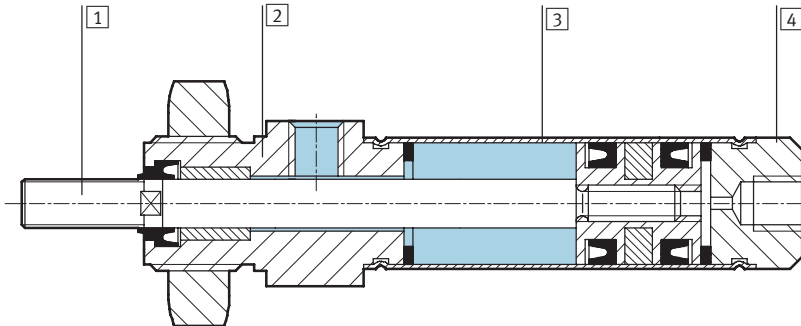
# Round cylinders CRDG, stainless steel

Technical data

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## Materials

Sectional view



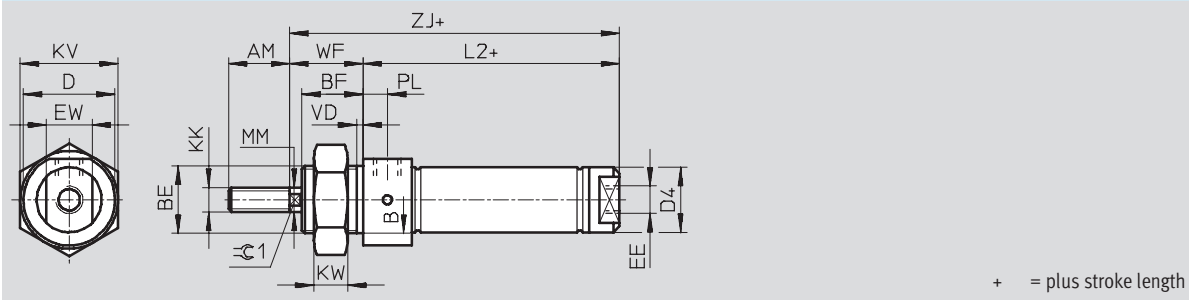
## Round cylinder

1	Piston rod	High-alloy stainless steel
2	Bearing cap	High-alloy stainless steel
3	Cylinder barrel	High-alloy stainless steel
4	End cap	High-alloy stainless steel
-	Seals	Polyurethane

## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

Piston Ø 12 ... 25 mm



Ø	AM	B	BE	BF	D	D4	EE	EW	KK	KV	KW	MM	L2	PL	VD	WF	ZJ	≈C1
[mm]		Ø h9			Ø	Ø						Ø						
12	16	16	M16x1.5	16	20	13.3	M5	11	M6	24	8	6	44	6	2	22	66	5
16	16	16	M16x1.5	16	20	17.3	M5	15	M6	24	8	6	51	6	2	22	73	5
20	20	22	M22x1.5	19	30	21.3	G½	18	M8	32	11	8	60	8.2	2	24	84	7
25	22	22	M22x1.5	21	30	26.5	G½	21	M10x1.25	32	11	10	61	8.2	2	28	89	9

# Round cylinders CRDG, stainless steel

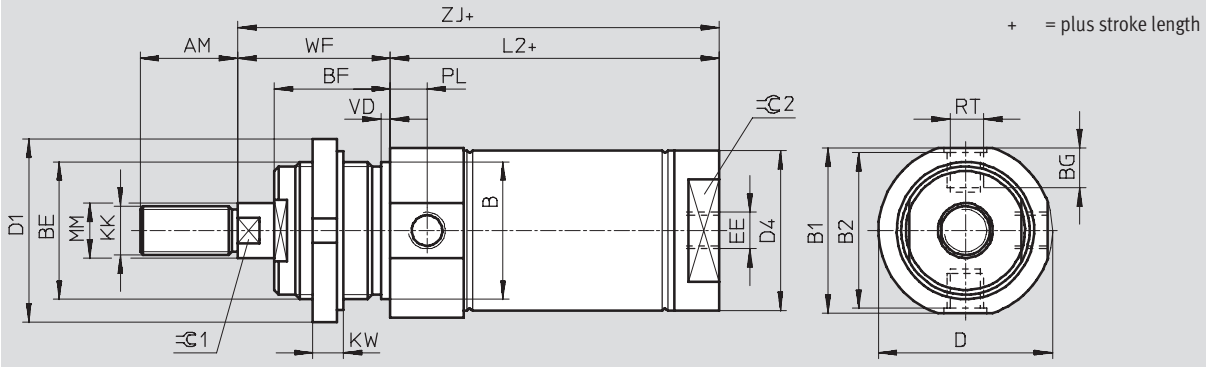
Technical data

FESTO

## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

Piston Ø 32 ... 63 mm



Ø	AM	B	B1	B2	BE	BF	BG	D	D1	D4	EE
[mm]		Ø h9						Ø	Ø	Ø	
32	20	30	38	36.8	M30x1.5	30	6.6	40	42	33.6	G $\frac{1}{8}$
40	24	38	46	44.8	M38x1.5	35	9.6	49	50	41.6	G $\frac{1}{4}$
50	32	45	57	55.8	M45x1.5	38	12.6	59	60	52.4	G $\frac{1}{4}$
63	32	45	70	67	M45x1.5	38	15.5	70	60	65.4	G $\frac{3}{8}$

Ø	KK	KW	MM	L2	RT	PL	VD	WF	ZJ	Ø1	Ø2
[mm]			Ø								
32	M10x1.25	8	12	85.7	M8x1	9	2	38.2	123.9	10	27
40	M12x1.25	10	16	100	M10x1	12	3	45.2	145.2	13	36
50	M16x1.5	10	20	107.6	M12x1.5	12	3	50.2	157.8	17	46
63	M16x1.5	10	20	107.8	M14x1.5	13	3	50.2	168	17	55

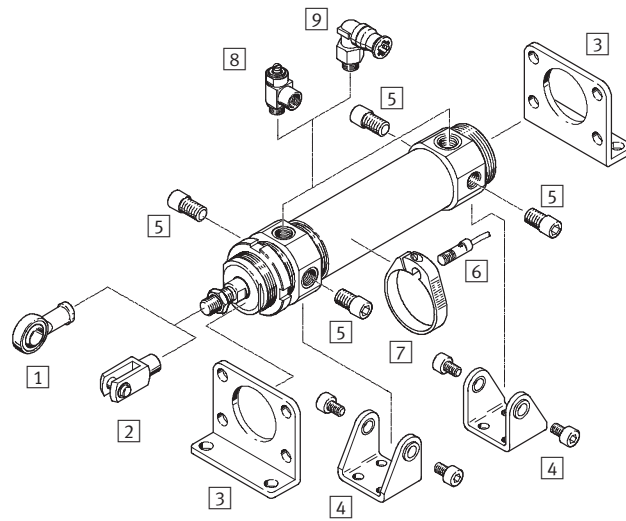
## Ordering data

	Piston Ø	Stroke	Part No.	Type
	[mm]	[mm]		
	12	1 ... 200	160980	CRDG-12-...-P-A
	16		160981	CRDG-16-...-P-A
	20	1 ... 320	160982	CRDG-20-...-P-A
	25		160983	CRDG-25-...-P-A
	32		160984	CRDG-32-...-P-A
	40		160985	CRDG-40-...-P-A
	50		160986	CRDG-50-...-P-A
	63		160987	CRDG-63-...-P-A

# Round cylinders CRDSW, stainless steel

Peripherals overview

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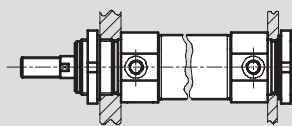
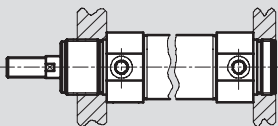


Mounting attachments and accessories		
	Brief description	→ Page/Internet
1	Rod eye CRSGS	With spherical bearing 50
2	Rod clevis CRSG	Permits a swivelling movement of the cylinder in one plane 50
3	Foot mounting CRH (2 pieces)	For bearing and end caps 43
3	Flange mounting CRFV	For bearing and end caps 44
4	Clevis foot CRSBS	For bearing and end caps 48
5	Threaded pin CRGBS	For bearing and end caps 48
6	Proximity sensor CRSMEO-4	With LED for operating status indication 50
7	Mounting kit CRSMBR	For proximity sensor CRSMEO-4 50
8	One-way flow control valve CRGRLA	For regulating speed 51
9	Push-in fittings CRQS	For connecting compressed air tubing with standard outside diameter quick star

## Mounting options

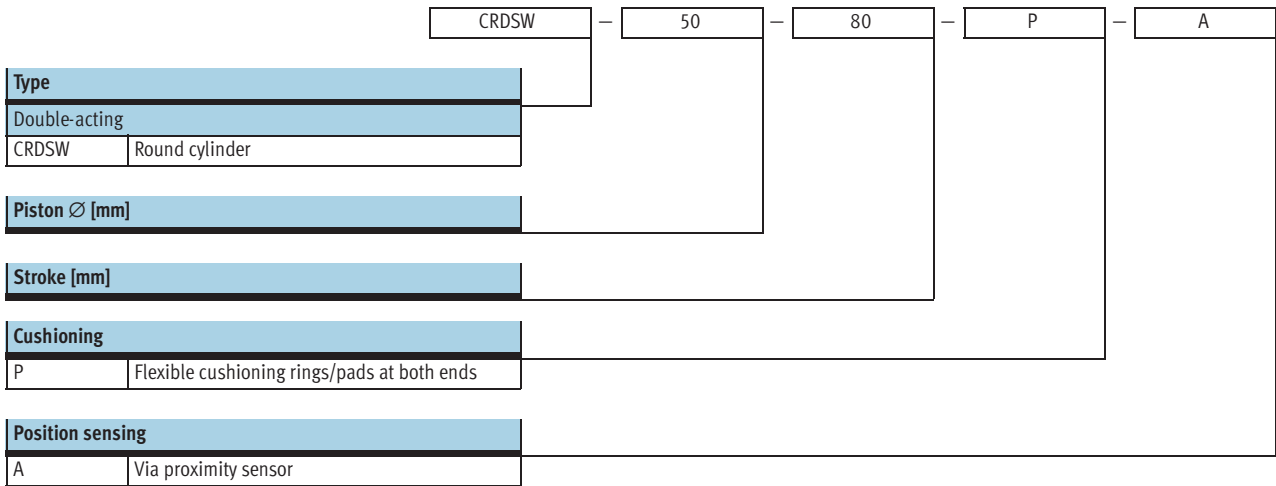
Threaded mounting

Mounting via slotted nut



# Round cylinders CRDSW, stainless steel

Type codes

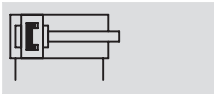


# Round cylinders CRDSW, stainless steel

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Technical data

Function



- - Diameter  
32 ... 63 mm
- - Stroke length  
1 ... 500 mm

General technical data				
Piston Ø	32	40	50	63
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{3}{8}$
Piston rod thread	M10x1.25	M12x1.25	M16x1.5	M16x1.5
Constructional design	Piston			
	Piston rod			
	Cylinder barrel			
Cushioning	Flexible cushioning rings/pads at both ends			
Position sensing	Via proximity sensor			
Type of mounting	Via accessories			
	Via male thread			
Mounting position	Any			

Operating and environmental conditions	
Operating medium	Filtered compressed air, lubricated or unlubricated
Operating pressure	1 ... 10 bar
Ambient temperature <sup>1)</sup> [°C]	-20 ... +80
Corrosion resistance class CRC <sup>2)</sup>	4

1) Note operating range of proximity sensors  
 2) Corrosion resistance class 4 as per Festo standard 940 070  
 Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Force [N]				
Piston Ø	32	40	50	63
Theoretical force at 6 bar, advancing	483	754	1,178	1,870
Theoretical force at 6 bar, retracting	415	633	990	1,682

Weight [g]				
Piston Ø	32	40	50	63
Basic weight with 0 mm stroke	670	1,460	1,960	3,325
Additional weight per 10 mm stroke	18	22	35	41

- - Note  
 ProPneu sizing software  
 → [www.festo.com](http://www.festo.com)

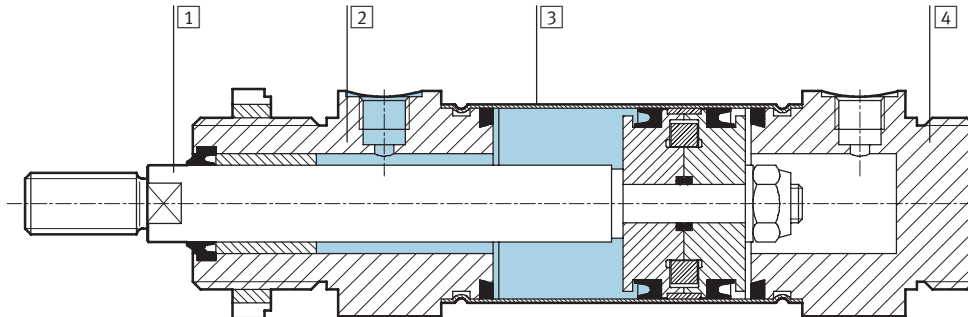
# Round cylinders CRDSW, stainless steel

Technical data

FESTO

## Materials

Sectional view



Round cylinder		
1	Piston rod	High-alloy stainless steel
2	Bearing cap	High-alloy stainless steel
3	Cylinder barrel	High-alloy stainless steel
4	End cap	High-alloy stainless steel
-	Seals	Polyurethane

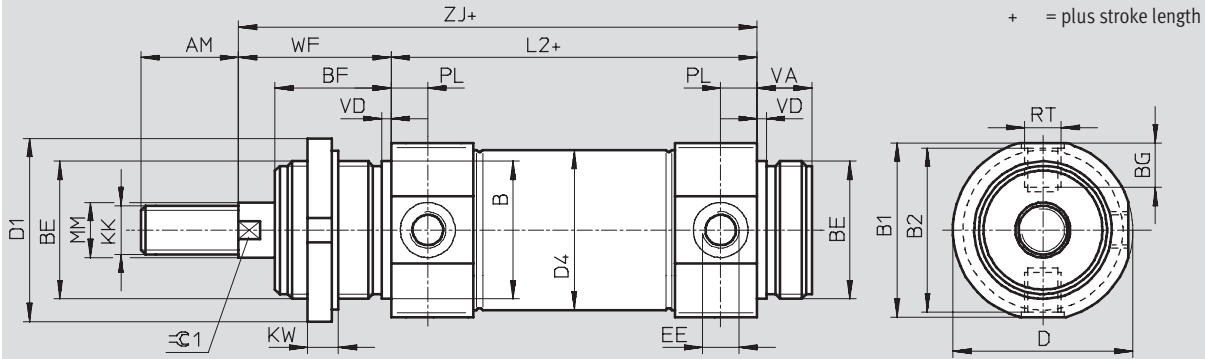
# Round cylinders CRDSW, stainless steel

Technical data

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## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



∅	AM	B	B1	B2	BE	BF	BG	D	D1	D4	EE
[mm]		∅ h9						∅	∅	∅	
32	20	30	38	36.8	M30x1.5	30	6.6	40	42	33.6	G <sup>1</sup> / <sub>8</sub>
40	24	38	46	44.8	M38x1.5	35	9.6	49	50	41.6	G <sup>1</sup> / <sub>4</sub>
50	32	45	57	55.8	M45x1.5	38	12.6	59	60	52.4	G <sup>1</sup> / <sub>4</sub>
63	32	45	70	67	M45x1.5	38	15.5	70	60	65.4	G <sup>3</sup> / <sub>8</sub>

∅	KK	KW	MM	L2	RT	PL	VA	VD	WF	ZJ	⊖C1
[mm]			∅								
32	M10x1.25	8	12	96	M8x1	9	14	2	38.2	134	10
40	M12x1.25	10	16	113	M10x1	12	16	3	45.2	158	13
50	M16x1.5	10	20	120	M12x1.5	12	18	3	50.2	170	17
63	M16x1.5	10	20	124	M14x1.5	13	18	3	50.2	174	17

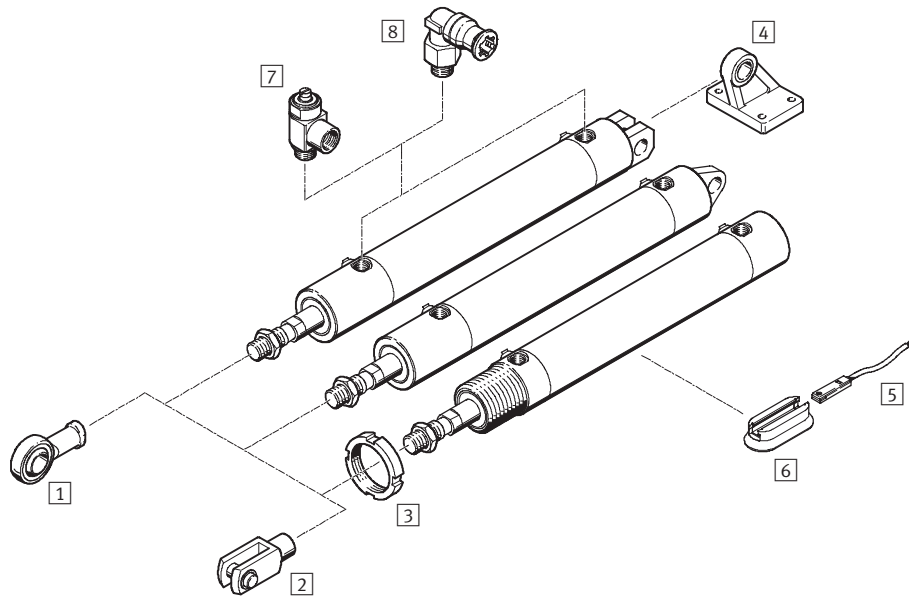
## Ordering data

	Piston ∅ [mm]	Stroke [mm]	Part No.	Type
	32	1 ... 500	160676	CRDSW-32-...-P-A
	40		160677	CRDSW-40-...-P-A
	50		160678	CRDSW-50-...-P-A
	63		160679	CRDSW-63-...-P-A



# Round cylinders CRHD, stainless steel

Peripherals overview



Mounting attachments and accessories						
	Brief description	CRHD-MQ	CRHD-MC	CRHD-MS	→ Page/Internet	
1	Rod eye CRSGS	With spherical bearing	■	■	■	50
2	Rod clevis CRSG	Permits a swivelling movement of the cylinder in one plane	■	■	■	50
3	Ring nut CR	For bearing caps	■	-	-	49
4	Clevis foot CRLMC	For end caps	-	■	-	49
5	Proximity sensor CRSMT	With LED for operating status indication	■	■	■	50
6	Mounting kit CRSMB-8-32/100	For proximity sensor CRSMT	■	■	■	50
7	One-way flow control valve CRGRLA	For regulating speed	■	■	■	51
8	Push-in fittings CRQS	For connecting compressed air tubing with standard outside diameter	■	■	■	quick star

# Round cylinders CRHD, stainless steel

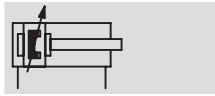
Type codes

		CRHD	–	50	–	80	–	PPV	–	A	–	MQ	–	S6	
<b>Type</b>															
Double-acting															
CRHD	Round cylinder														
<b>Piston Ø [mm]</b>															
<b>Stroke [mm]</b>															
<b>Cushioning</b>															
PPV	Pneumatic cushioning, adjustable at both ends														
<b>Position sensing</b>															
A	Via proximity sensor														
<b>Cover variant</b>															
MQ	Bearing cap with male thread														
MC	End cap with clevis														
MS	End cap with lug														
<b>Variant</b>															
S6	Heat-resistant up to 120 °C														

# Round cylinders CRHD, stainless steel

Technical data

Function



- - Diameter  
32 ... 100 mm
- - Stroke length  
10 ... 500 mm

- - [www.festo.com](http://www.festo.com)

Variants



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 $\varnothing$	32	40	50	63	80	100
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{3}{8}$	G $\frac{3}{8}$
Piston rod thread	M10x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5	M20x1.5
Constructional 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 sensor					
Type of mounting	Via accessories					
Mounting position	Any					

Operating and environmental conditions		
Variant	CRHD	S6
Operating medium	Filtered compressed air, lubricated or unlubricated	
Operating pressure	1 ... 10 bar	
Ambient temperature <sup>1)</sup> [°C]	-20 ... +80	0 ... +120
Corrosion resistance class CRC <sup>2)</sup>	4	

1) Note operating range of proximity sensors

2) Corrosion resistance class 4 as per Festo standard 940 070

Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Force [N]						
Piston $\varnothing$	32	40	50	63	80	100
Theoretical force at 6 bar, advancing	483	754	1,178	1,870	3,016	4,712
Theoretical force at 6 bar, retracting	415	633	990	1,682	2,721	4,418

Weight [g]						
Piston $\varnothing$	32	40	50	63	80	100
Basic weight with 10 mm stroke	676	1,196	1,849	2,977	5,172	8,472
Additional weight per 10 mm stroke	26	42	57	65	100	115
Moving load with 10 mm stroke	106	198	340	398	717	968
Additional load per 10 mm stroke	9	16	25	25	38	38

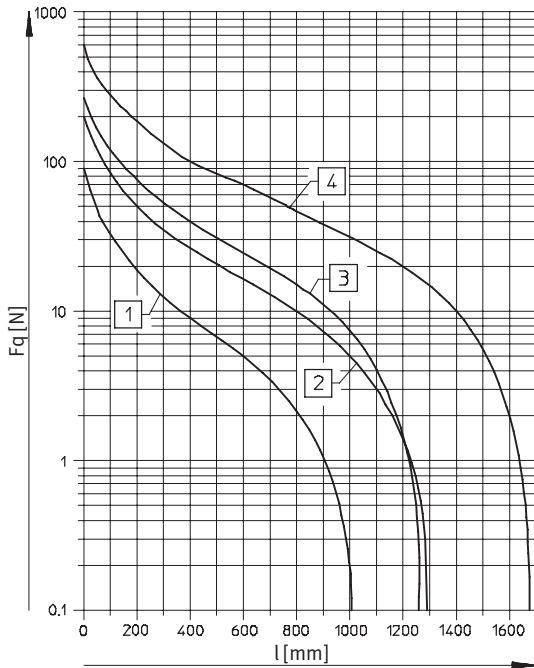
# Round cylinders CRHD, stainless steel

Technical data

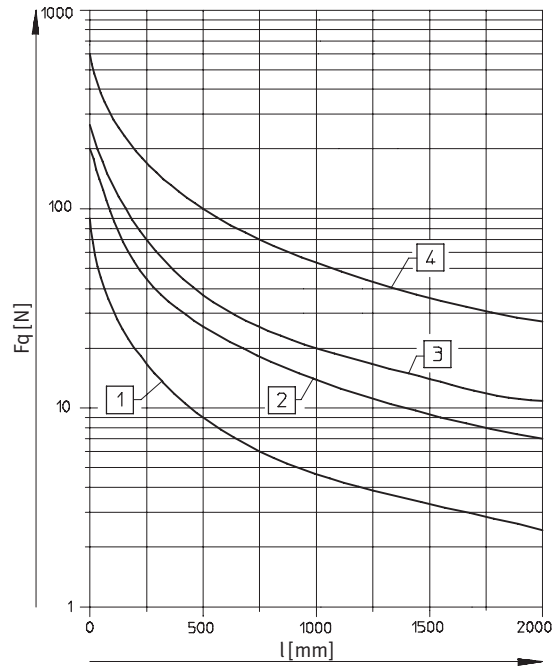
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## Permissible lateral force $F_q$ as a function of stroke length $l$

Horizontal mounting



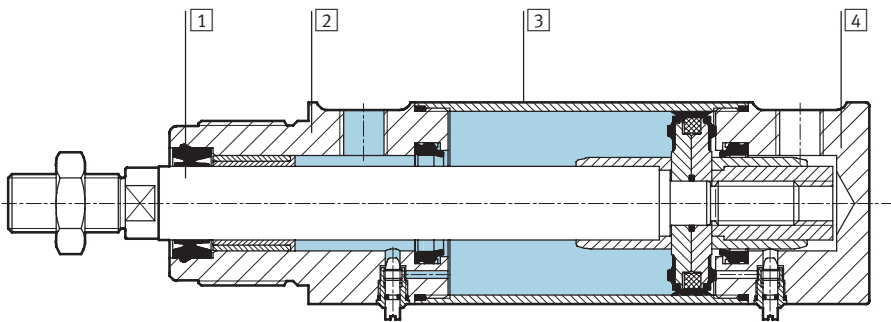
Vertical mounting



- 1 Ø 32
- 2 Ø 40
- 3 Ø 50, 63
- 4 Ø 80, 100

## Materials

Sectional view



Round cylinder	Basic version	S6
1 Piston rod	High-alloy stainless steel	
2 Bearing cap	High-alloy stainless steel	
3 Cylinder barrel	High-alloy stainless steel	
4 End cap	High-alloy stainless steel	
- Seals	Polyurethane, nitrile rubber	Fluoro elastomer

# Round cylinders CRHD, stainless steel

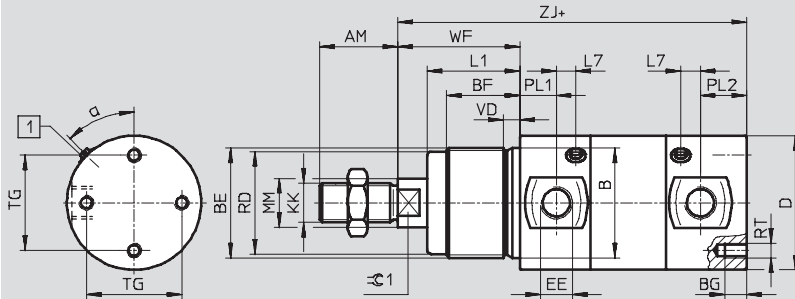
Technical data

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## Dimensions CRHD- ... -MQ

Download CAD data → [www.festo.com](http://www.festo.com)

Bearing cap with male thread



1 Regulating screw  
for end-position cushioning

+ = plus stroke length

∅ [mm]	α	AM	B ∅ h9	BE	BF	BG	D ∅	EE	KK	L1
32	50°	22	30	M30x1.5	25	8	36	G1/8	M10x1.25	30
40	45°	24	38	M38x1.5	29	8	45	G1/8	M12x1.25	35
50	45°	32	45	M45x1.5	30	8	55	G1/4	M16x1.5	38
63	45°	32	45	M45x1.5	30	10	68	G3/8	M16x1.5	38
80	45°	40	50	M50x2	30	15	86	G3/8	M20x1.5	38
100	45°	40	50	M50x2	30	15	106	G3/8	M20x1.5	38

∅ [mm]	L7	MM ∅	RD ∅	RT	PL1	PL2	TG	VD	WF	ZJ	≈C1
32	5	12	27	M5	13	21	22	7	38	120	10
40	8	16	35	M6	15	18	30	7	45	135	13
50	5	20	42	M6	15	19	39	6.25	50	143	17
63	8	20	42	M8	17	24	49	6.25	50	158	17
80	9	25	47	M10	18	31	65	7.5	50	174	22
100	13	25	47	M10	22	30	82	7.5	50	189	22

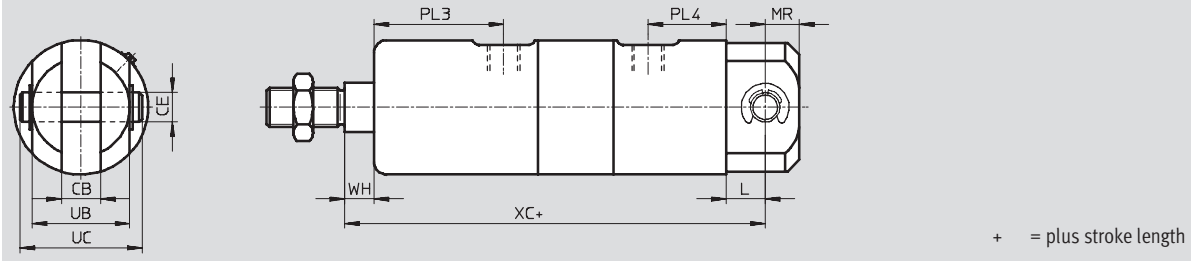
# Round cylinders CRHD, stainless steel

Technical data

## Dimensions CRHD- ... -MC

Download CAD data → [www.festo.com](http://www.festo.com)

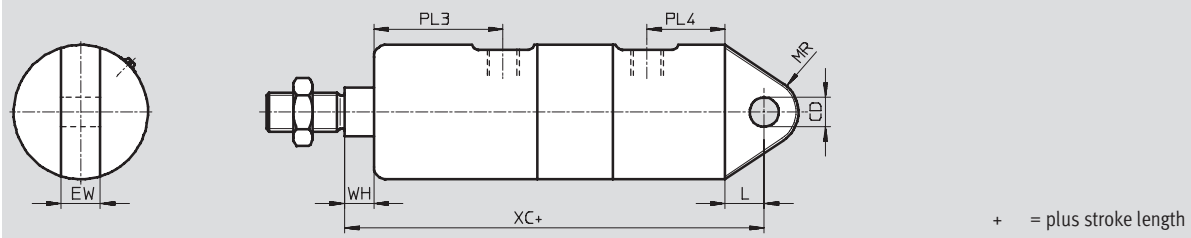
End cap with clevis



## Dimensions CRHD- ... -MS

Download CAD data → [www.festo.com](http://www.festo.com)







End cap with lug



∅	CB	CD	CE	EW	L	MR	PL3	PL4	UB	UC	WH	XC
[mm]	+0.2/+0.1	H9	∅ e8	-0.1/-0.2					-0.1/-0.2			
32	10	10	10	10	15	12	43	28	26	35	8	142
40	12	12	12	12	16	14	50	27	32	43	10	160
50	16	12	12	16	16	14	53	30	40	51	12	170
63	16	16	16	16	22	18	55	34	40	53	12	190
80	20	16	16	20	22	20	56	45	60	73	12	210
100	20	20	20	20	27	25	60	43.5	60	73	12	230

# Round cylinders CRHD, stainless steel

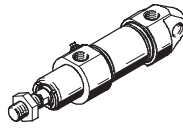
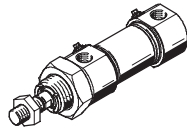
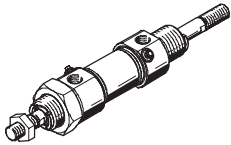
Technical data









Ordering data				
Type	Piston Ø [mm]	Stroke [mm]	Part No.	Type
<b>MQ – Bearing cap with male thread</b>				
	32	10 ... 500	195507	CRHD-32-...-PPV-A-MQ
	40		195508	CRHD-40-...-PPV-A-MQ
	50		195509	CRHD-50-...-PPV-A-MQ
	63		195510	CRHD-63-...-PPV-A-MQ
	80		195511	CRHD-80-...-PPV-A-MQ
	100		195512	CRHD-100-...-PPV-A-MQ
<b>S6 – Heat-resistant up to 120°C</b>				
	32	10 ... 500	195543	CRHD-32-...-PPV-A-MQ-S6
	40		195544	CRHD-40-...-PPV-A-MQ-S6
	50		195545	CRHD-50-...-PPV-A-MQ-S6
	63		195546	CRHD-63-...-PPV-A-MQ-S6
	80		195547	CRHD-80-...-PPV-A-MQ-S6
	100		195548	CRHD-100-...-PPV-A-MQ-S6
<b>MC – End cap with clevis (pivot pin and lock included in the scope of delivery)</b>				
	32	10 ... 500	195513	CRHD-32-...-PPV-A-MC
	40		195514	CRHD-40-...-PPV-A-MC
	50		195515	CRHD-50-...-PPV-A-MC
	63		195516	CRHD-63-...-PPV-A-MC
	80		195517	CRHD-80-...-PPV-A-MC
	100		195518	CRHD-100-...-PPV-A-MC
<b>S6 – Heat-resistant up to 120°C</b>				
	32	10 ... 500	195549	CRHD-32-...-PPV-A-MC-S6
	40		195550	CRHD-40-...-PPV-A-MC-S6
	50		195551	CRHD-50-...-PPV-A-MC-S6
	63		195552	CRHD-63-...-PPV-A-MC-S6
	80		195553	CRHD-80-...-PPV-A-MC-S6
	100		195554	CRHD-100-...-PPV-A-MC-S6
<b>MS – End cap with lug</b>				
	32	10 ... 500	195519	CRHD-32-...-PPV-A-MS
	40		195520	CRHD-40-...-PPV-A-MS
	50		195521	CRHD-50-...-PPV-A-MS
	63		195522	CRHD-63-...-PPV-A-MS
	80		195523	CRHD-80-...-PPV-A-MS
	100		195524	CRHD-100-...-PPV-A-MS
<b>S6 – Heat-resistant up to 120 °C</b>				
	32	10 ... 500	195555	CRHD-32-...-PPV-A-MS-S6
	40		195556	CRHD-40-...-PPV-A-MS-S6
	50		195557	CRHD-50-...-PPV-A-MS-S6
	63		195558	CRHD-63-...-PPV-A-MS-S6
	80		195559	CRHD-80-...-PPV-A-MS-S6
	100		195560	CRHD-100-...-PPV-A-MS-S6

# Standard cylinders CRDSNU to ISO 6432, stainless steel

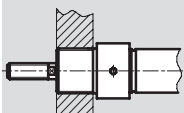
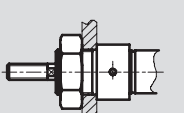
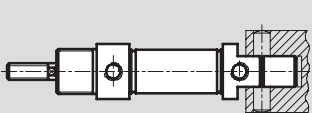
Key features

Variants		
CRDSNU-S2: Through piston rod	CRDSNU-MQ: Short end cap without swivel mounting	CRDSNU-MG: Bearing cap without mounting thread



Additional variants		
Symbol	Key features	Description
	S2 Through piston rod	For working at both ends with the same force in the forward and return stroke, for attaching external stops
	S6 Heat-resistant seals	Temperature resistance up to max. 120 °C
	K2 Extended male piston rod thread	–
	K3 Female piston rod thread	–
	K5 Special piston rod thread	Metric standard thread to ISO
	K8 Extended piston rod	–
	A1 Wiper seal material	Heat resistant: Heat and acid-resistant piston rod wiper seal
	A2 Wiper seal material	Hard wiper seal: Cylinder with hard wiper seal
	A3 Wiper seal material	Unlubricated operation: Cleaning processes degrease the piston rod. A special piston rod seal permits a longer service life compared to the standard seal
	TT Low temperature	Temperature resistance down to max. –40 °C

Cushioning types	P cushioning	PPS cushioning	PPV cushioning
	<b>Mode of operation</b> <ul style="list-style-type: none"> <li>The drive is equipped with polymer flexible end-position cushioning</li> </ul>	<b>Mode of operation</b> <ul style="list-style-type: none"> <li>The drive is equipped with self-adjusting end-position cushioning</li> </ul>	<b>Mode of operation</b> <ul style="list-style-type: none"> <li>The drive is equipped with adjustable end-position cushioning</li> </ul>
<b>Application</b> <ul style="list-style-type: none"> <li>Small loads</li> <li>Low speeds</li> <li>Low impact energies</li> </ul>	<b>Application</b> <ul style="list-style-type: none"> <li>Small to medium loads</li> <li>Low to medium speeds</li> <li>Medium impact energies</li> </ul>	<b>Application</b> <ul style="list-style-type: none"> <li>Medium to high loads</li> <li>High speeds</li> <li>High impact energies</li> </ul>	
<b>Advantages</b> <ul style="list-style-type: none"> <li>No adjustment required</li> <li>Time-saving</li> </ul>	<b>Advantages</b> <ul style="list-style-type: none"> <li>No adjustment required</li> <li>Time-saving</li> <li>Powerful</li> </ul>	<b>Advantages</b> <ul style="list-style-type: none"> <li>Very powerful</li> </ul>	

Mounting options		
Threaded mounting	Mounting via hex nut	Swivel mounting at the rear
		



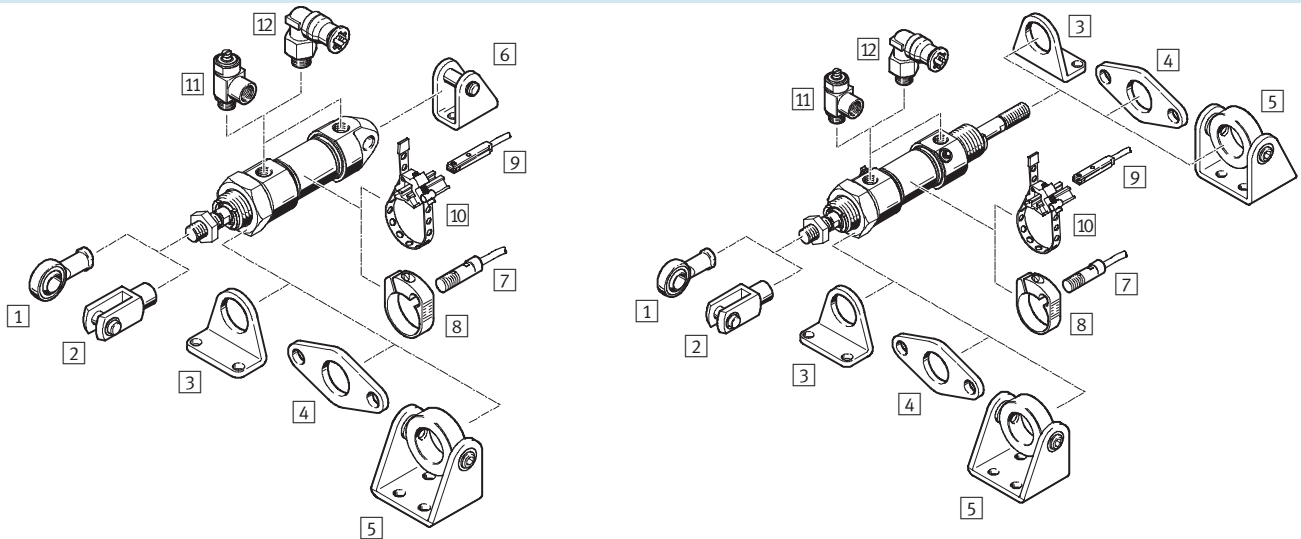
# Standard cylinders CRDSNU to ISO 6432, stainless steel

Peripherals overview

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CRDSNU-...

CRDSNU-...-S2



Mounting attachments and accessories		Brief description	CRDSNU-				→ Page/ Internet
			Basic version	MQ	MG	S2	
1	Rod eye CRSGS	With spherical bearing	■	■	■	■	50
2	Rod clevis CRSG	Permits a swivelling movement of the cylinder in one plane	■	■	■	■	50
3	Foot mounting CRHBN	<ul style="list-style-type: none"> <li>For bearing caps</li> <li>With CRDSNU-S2 for bearing and end caps</li> </ul>	■	■	-	■	42
4	Flange mounting CRFBN	<ul style="list-style-type: none"> <li>For bearing caps</li> <li>With CRDSNU-S2 for bearing and end caps</li> </ul>	■	■	-	■	44
5	Swivel mounting CRSBN	<ul style="list-style-type: none"> <li>For bearing caps</li> <li>With CRDSNU-S2 for bearing and end caps</li> </ul>	■	■	-	■	42
6	Clevis foot CRLBN	For end caps	■	-	■	-	47
7	Proximity sensor CRSMEO-4	<ul style="list-style-type: none"> <li>Round design</li> <li>For position sensing</li> </ul>	■	■	■	■	50
8	Mounting kit CRSMBR	For proximity sensor CRSMEO-4	■	■	■	■	50
9	Proximity sensor CRSMT-8	<ul style="list-style-type: none"> <li>Design for T-slot</li> <li>For position sensing</li> </ul>	■	■	■	■	50
10	Mounting kit SMBR	For proximity sensor CRSMT-8	■	■	■	■	50
11	One-way flow control valve CRGRLA	For regulating speed	■	■	■	■	51
12	Push-in fittings CRQS	For connecting compressed air tubing with standard outside diameter	■	■	■	■	quick star

## Standard cylinders CRDSNU to ISO 6432, stainless steel

Type codes

		CRDSNU	-	25	-	80	-	PPV	-	A	-	MQ
<b>Type</b>												
Double-acting												
CRDSNU	Standard cylinder											
<b>Piston Ø [mm]</b>												
<b>Stroke [mm]</b>												
<b>Cushioning</b>												
P	Flexible cushioning rings/pads at both ends											
PPV	Pneumatic cushioning, adjustable at both ends											
PPS	Pneumatic cushioning, self-adjusting at both ends											
<b>Position sensing</b>												
A	Via proximity sensor											
<b>Variant</b>												
MQ	Short end cap without swivel mounting											
MG	Bearing cap without mounting thread											

### Modular product system

Individually configurable

CRDSNU → 33

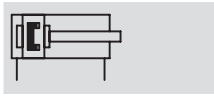
- A1 – Wiper seal, heat and acid-resistant
- A2 – Hard wiper seal
- A3 – Wiper seal for unlubricated operation
- S2 – Through piston rod
- K2 – Extended male piston rod thread
- K3 – Female piston rod thread
- K5 – Special piston rod thread
- K8 – Extended piston rod at the front
- S6 – Heat-resistant seals up to max. 120 °C (temperature resistance)
- TT – Low temperature –40 °C ... +80 °C

# Standard cylinders CRDSNU to ISO 6432, stainless steel

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Technical data

Function



DIN



-  Diameter  
12 ... 25 mm
-  Stroke length  
1 ... 500 mm

General technical data		12	16	20	25
Piston $\varnothing$		12	16	20	25
Pneumatic connection		M5	M5	G $\frac{1}{8}$	G $\frac{1}{8}$
Piston rod thread		M6	M6	M8	M10x1.25
Constructional design		Piston			
		Piston rod			
		Cylinder barrel			
Cushioning	P	Flexible cushioning rings/pads at both ends			
	PPV	-		Adjustable cushioning at both ends	
	PPS	-		Self-adjusting cushioning at both ends	
Cushioning length	PPV [mm]	-	-	15	17
	PPS [mm]	-	-	15	17
Position sensing		Via proximity sensor			
Type of mounting		Via accessories			
		Via male thread			
Mounting position		Any			

Operating conditions	
Operating medium	Filtered compressed air, lubricated or unlubricated
Operating pressure <sup>1)</sup> [bar]	1 ... 10

1) An increase in the minimum operating pressure is possible with variants

Ambient conditions		Basic version	A1	S6	TT
Ambient temperature <sup>1)</sup> [°C]		-20 ... +80	0 ... +80	0 ... +120	-40 ... +80
Corrosion resistance class CRC <sup>2)</sup>		3			

1) Note operating range of proximity sensors

2) Corrosion resistance class 3 as per Festo standard 940 070

Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

# Standard cylinders CRDSNU to ISO 6432, stainless steel

Technical data

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 <sup>1)</sup>	0.07	0.15	0.20	0.30

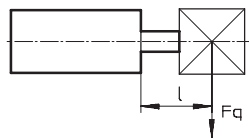
1) The values are reduced by approx. 50% at an ambient temperature of 80 °C

 Note

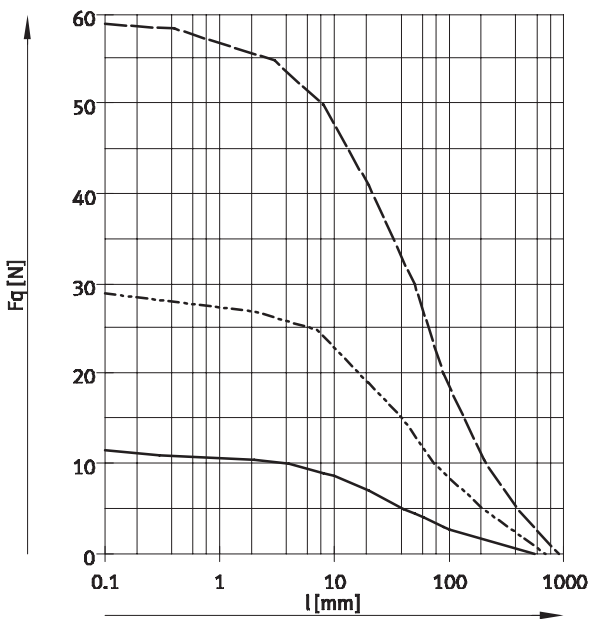
ProPneu  
sizing software  
→ [www.festo.com](http://www.festo.com)

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

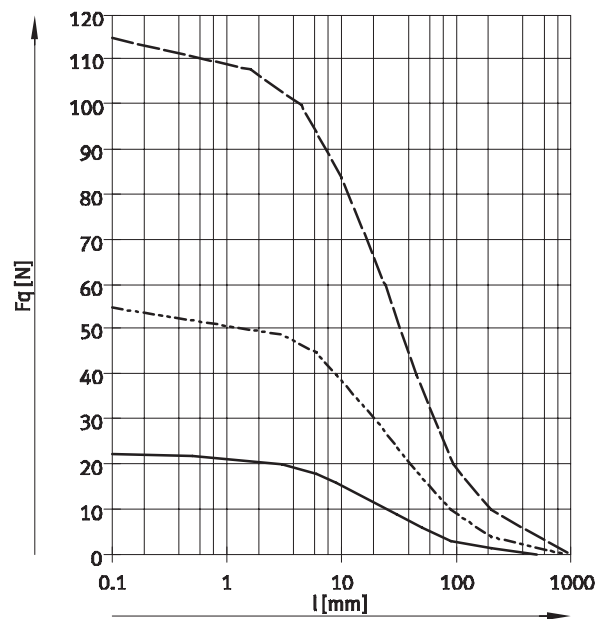
## Max. lateral force $F_q$ as a function of projection $l$



Basic version



S2 – Through piston rod



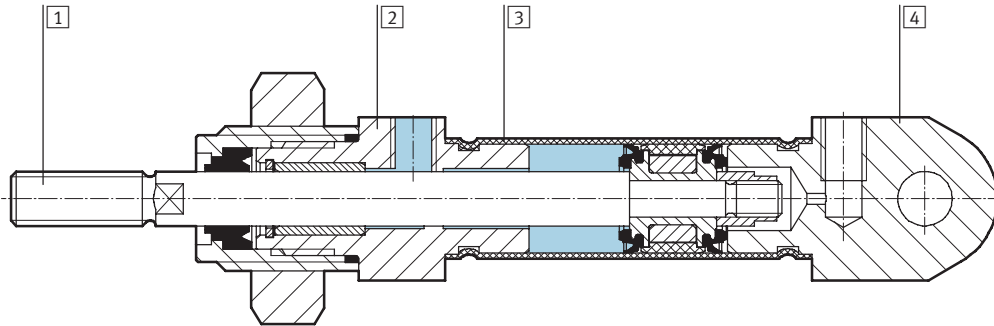
- Ø 12/16
- - - - - Ø 20
- · — · — · — Ø 25

# Standard cylinders CRDSNU to ISO 6432, stainless steel

Technical data

## Materials

Sectional view



Standard cylinder	Basic version	S6
1 Piston rod	High-alloy stainless steel	
2 Bearing cap	High-alloy stainless steel	
3 Cylinder barrel	High-alloy stainless steel	
4 End cap	High-alloy stainless steel	
- Seals	Polyurethane	Fluoro elastomer
Note on materials	RoHS-compliant	

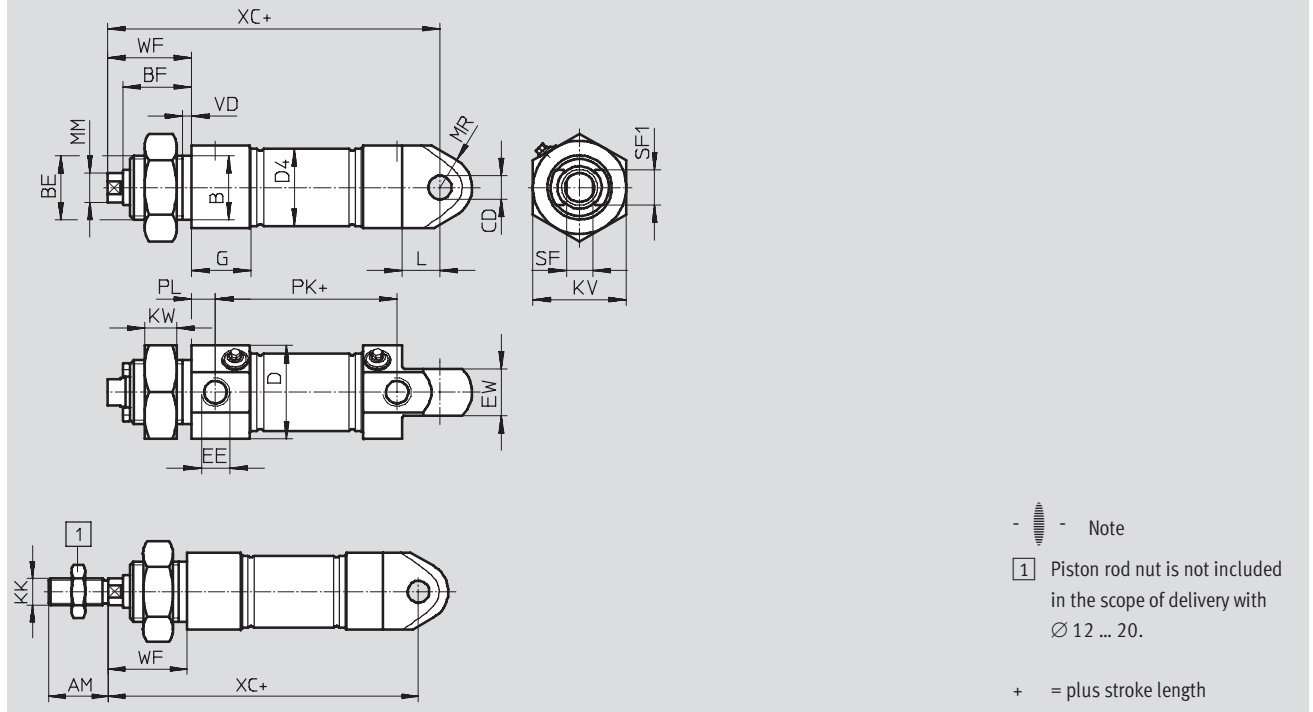
# Standard cylinders CRDSNU to ISO 6432, stainless steel

Technical data

**Dimensions**

Download CAD data → [www.festo.com](http://www.festo.com)

Basic version



$\varnothing$	AM	B $\varnothing$ h9	BE	BF	CD $\varnothing$ H8	D $\varnothing$	D4 $\varnothing$
12	16	16	M16x1.5	18	6	20	13.3
16	16	16	M16x1.5	18	6	20	17.3
20	20	22	M22x1.5	20.7	8	30	21.3
25	22	22	M22x1.5	23.5	8	32	26.5

$\varnothing$	EE	EW	G	KK	KV	KW	L	MM $\varnothing$
12	M5	12	9.5	M6	24	8	10	6
16	M5	12	9.7	M6	24	8	10	6
20	G $\frac{1}{8}$	16	20.5	M8	32	11	13	8
25	G $\frac{1}{8}$	16	20.5	M10x1.25	32	11	13	10

$\varnothing$	MR	PL	PK	SF	SF1	VD	WF	XC $\pm 1$
12	8	6	38	5	9	3.5	22	75
16	8	6	44	5	9	3.5	22	82
20	11	8.2	51.6	7	12	3.5	24	95
25	11	8.2	53.1	9	12	3.5	28	104

# Standard cylinders CRDSNU to ISO 6432, stainless steel

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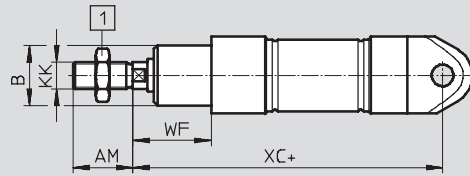
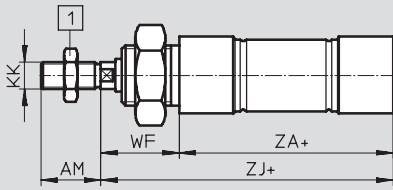
Technical data

**Dimensions**

Download CAD data → [www.festo.com](http://www.festo.com)

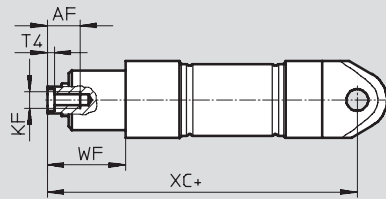
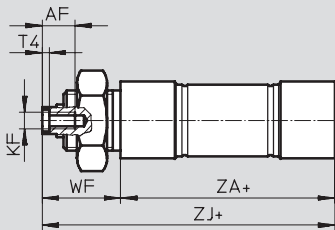
MQ – Short end cap without swivel mounting

MG – Bearing cap without mounting thread



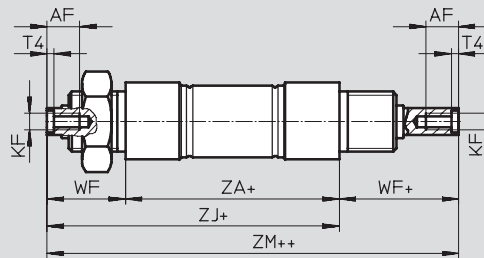
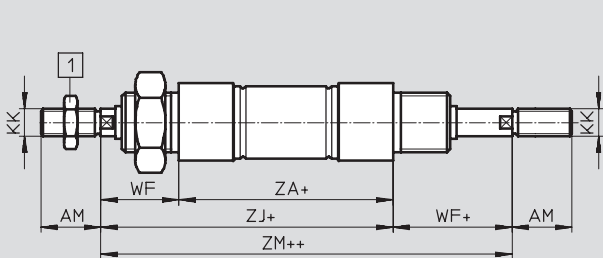
MQ-K3 – Short end cap without swivel mounting, with female piston rod thread

MG-K3 – Bearing cap without mounting thread, with female piston rod thread



S2 – Through piston rod

S2-K3 – Through piston rod, with female thread



 Note

1 Piston rod nut is not included in the scope of delivery with  $\varnothing 12 \dots 20$ .

+ = plus stroke length

++ = plus 2x stroke length

$\varnothing$ [mm]	AF	AM	B $\varnothing$ h9	KF	KK
12	–	16	16	–	M6
16	–	16	16	–	M6
20	12	20	22	M4	M8
25	12	22	22	M6	M10x1.25

$\varnothing$ [mm]	T4	WF	XC $\pm 1$	ZA	ZJ	ZM
12	–	22	75	50	72	94.5
16	–	22	82	56	78	100.5
20	2	24	95	68	92	116.6
25	2.6	28	104	69.5	97.5	126.4

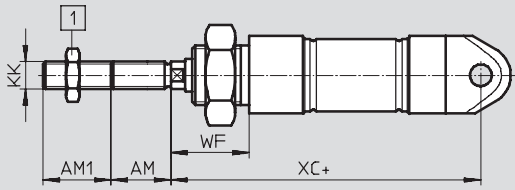
# Standard cylinders CRDSNU to ISO 6432, stainless steel

Technical data

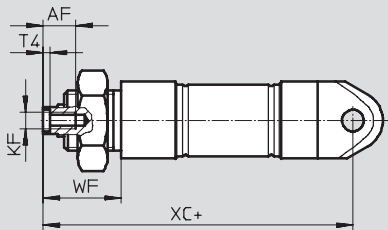
**Dimensions**

Download CAD data → [www.festo.com](http://www.festo.com)

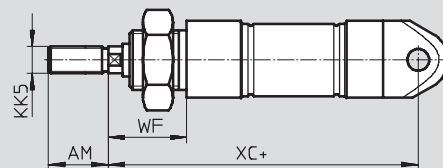
**K2 – Extended male piston rod thread**



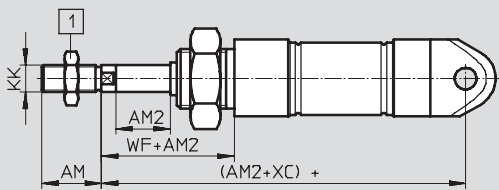
**K3 – Female piston rod thread**



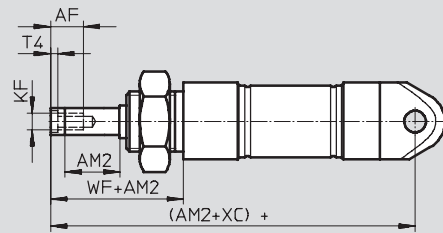
**K5 – Special piston rod thread**



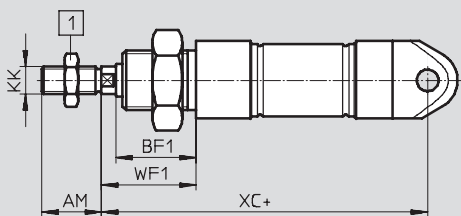
**K8 – Extended piston rod**



**K3-K8 – Extended piston rod, with female thread**



**TT – Low temperature**



 Note

**1** Piston rod nut is not included in the scope of delivery with  $\varnothing 12 \dots 20$ .

+ = plus stroke length

$\varnothing$	AF	AM	AM1	AM2	BF1	KF
[mm]			max.	max.		
12	–	16	1 ... 20	1 ... 100	24	–
16	–	16	1 ... 20	1 ... 100	24	–
20	12	20	1 ... 25	1 ... 100	26.7	M4
25	12	22	1 ... 35	1 ... 100	29.5	M6

$\varnothing$	KK	KK5	T4	WF	WF1	XC
[mm]						$\pm 1$
12	M6	–	–	22	28	75
16	M6	–	–	22	28	82
20	M8	–	2	24	30	95
25	M10x1.25	M10	2.6	28	34	104



# Standard cylinders CRDSNU to ISO 6432, stainless steel

Ordering data – Modular products

Ordering table							
Size	12	16	20	25	Condi- tions	Code	Enter code
<b>M</b> Module No.	<b>552787</b>	<b>552788</b>	<b>552789</b>	<b>552790</b>			
Version	Stainless steel					<b>CR</b>	CR
Function	Standard cylinder, double-acting, to ISO 6432					<b>DSNU</b>	DSNU
Piston Ø [mm]	12	16	20	25		-...	
Stroke [mm]	1 ... 200		1 ... 320	1 ... 500		-...	
Cushioning	Flexible cushioning rings/pads at both ends					<b>-P</b>	
	-	-	Pneumatic cushioning, self-adjusting		<b>1</b>	<b>-PPS</b>	
	-	-	Pneumatic cushioning, adjustable at both ends			<b>-PPV</b>	
<b>O</b> Position sensing	Via proximity sensor					<b>-A</b>	
Cylinder cap	Short end cap without swivel mounting					<b>-MQ</b>	
	Bearing cap without mounting thread					<b>-MG</b>	
Wiper seal material	Heat and acid-resistant					<b>-A1</b>	
	Hard wiper seal				<b>2</b>	<b>-A2</b>	
	Unlubricated operation				<b>3</b>	<b>-A3</b>	
Type of piston rod	Through piston rod				<b>4</b>	<b>-S2</b>	
Extended male thread [mm]	Piston rod with extended male thread						
	1 ... 20		1 ... 25	1 ... 35	<b>5</b>	<b>-...K2</b>	
Female thread	Piston rod with female thread						
	-	-	(M4)	(M6)		<b>-K3</b>	
Special thread	Special piston rod thread						
	-	-	-	M10		<b>-“...”K5</b>	
Extended piston rod [mm]	1 ... 100					<b>-...K8</b>	
Temperature resistance	Heat-resistant seals up to max. 120 °C					<b>-S6</b>	
Low temperature	Seals and lubricating grease from -40 °C ... +80 °C				<b>6</b> <b>7</b>	<b>-TT</b>	

- 1 PPS** Not with S6 and TT
- 2 A2** Not with MG, S6
- 3 A3** Not with S6, TT
- 4 S2** Not with MQ, MG

- 5 K2** Not with K3
- 6 TT** Not with MG, A1, A2, A3, S6
- 7 TT** Not with K3 and not with S2 in combination with A2

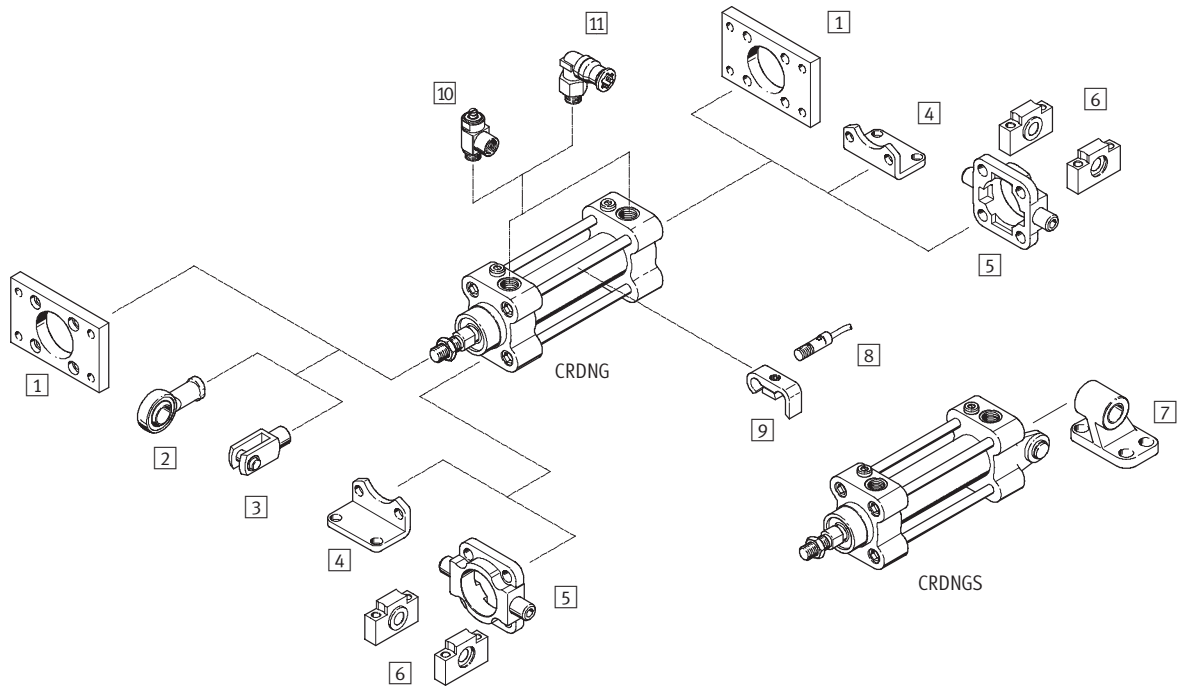
Transfer order code

-   -  -  -  -  -  -  -  -  -  -  -  -  -

# Standard cylinders CRDNG to ISO 15552, stainless steel

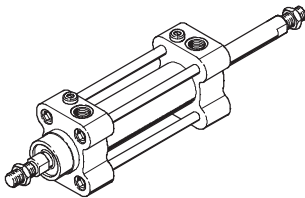
Peripherals overview

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## Variant

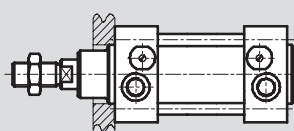
CRDNG-S2



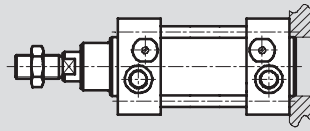
## Mounting options

CRDNG

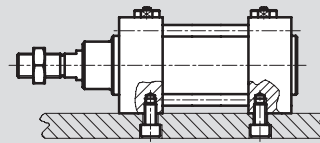
Mounting at front



Mounting at rear

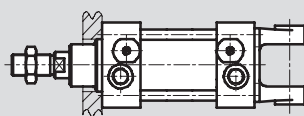


Mounting from below

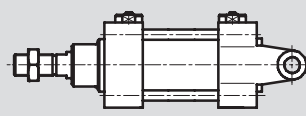


CRDNGS

Mounting at front



Mounting on swivel flange



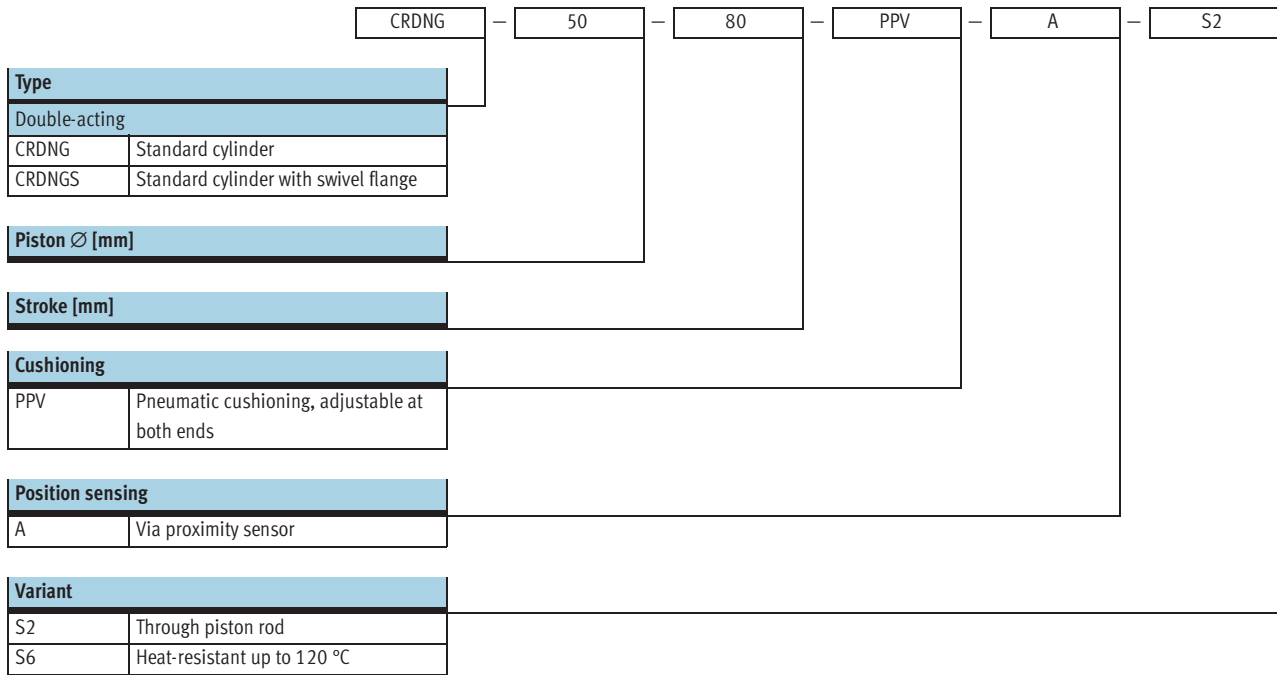
## Standard cylinders CRDNG to ISO 15552, stainless steel

Peripherals overview

Mounting attachments and accessories					
	Brief description	CRDNG	CRDNGS	→ Page/Internet	
1	Flange mounting CRFNG	For bearing or end caps	■	–	45
2	Rod eye CRSGS	With spherical bearing	■	■	50
3	Rod clevis CRSG	Permits a swivelling movement of the cylinder in one plane	■	■	50
4	Foot mounting CRHNC	For bearing and end caps	■	–	43
5	Trunnion flange CRZNG	For bearing and end caps in combination with trunnion supports CRLNZG	■	–	46
6	Trunnion support CRLNZG	For supporting trunnion flange CRZNG	■	–	46
7	Clevis foot CRLNG	For variant with swivel flange	–	■	47
8	Proximity sensor CRSMEO-4	With LED for operating status indication	■	■	50
9	Mounting kit CRSMB	For proximity sensor CRSMEO-4	■	■	50
10	One-way flow control valve CRGRLA	For regulating speed	■	■	51
11	Push-in fittings CRQS	For connecting compressed air tubing with standard outside diameter	■	■	quick star

# Standard cylinders CRDNG to ISO 15552, stainless steel

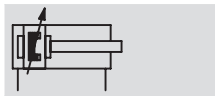
Type codes



# Standard cylinders CRDNG to ISO 15552, stainless steel

Technical data

Function

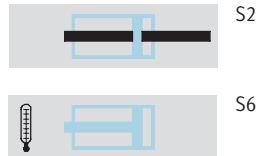


- - Diameter  
32 ... 125 mm
- - Stroke length  
10 ... 2,000 mm

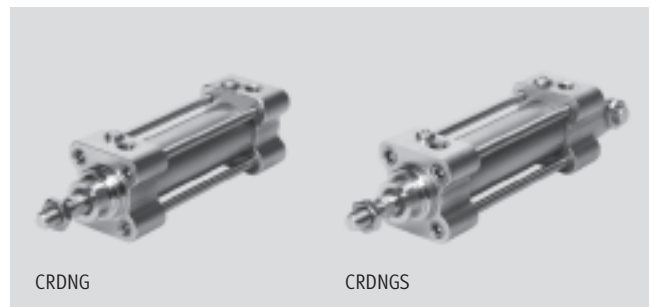
- [www.festo.com](http://www.festo.com)

Wearing parts kits  
→ 41

Variants



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



Conforms to

- ISO 15552
- ISO 6431
- VDMA 24562
- NFE 49003.1
- UNI 10290



DIN



General technical data							
Piston Ø	32	40	50	63	80	100	125
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{1}{2}$
Piston rod thread	M10x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5	M20x1.5	M27x2
Constructional 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 sensor						
Type of mounting	Via accessories						
	Via female thread						
Mounting position	Any						

Operating and environmental conditions	
Variant	CRDNG/CRDNGS   S6
Operating medium	Filtered compressed air, lubricated or unlubricated
Operating pressure	0.6 ... 10 bar
Ambient temperature <sup>1)</sup> [°C]	-20 ... +80   0 ... +120
Corrosion resistance class CRC <sup>2)</sup>	4

1) Note operating range of proximity sensors

2) Corrosion resistance class 4 as per Festo standard 940 070

Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Force [N]							
Piston Ø	32	40	50	63	80	100	125
Theoretical force at 6 bar, advancing	482	753	1,178	1,870	3,015	4,712	7,360
Theoretical force at 6 bar, retracting	415	633	990	1,682	2,720	4,418	6,880

# Standard cylinders CRDNG to ISO 15552, stainless steel

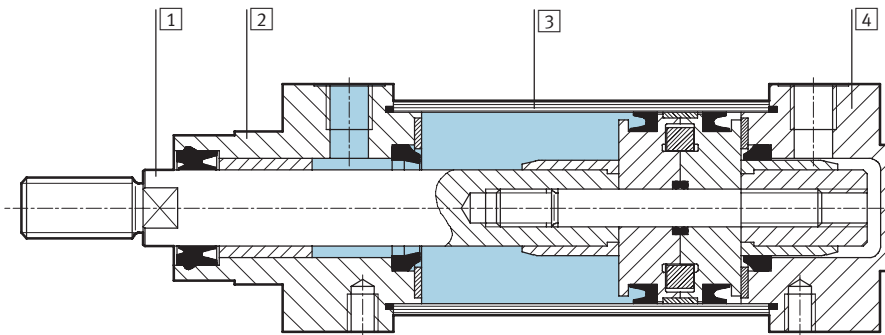
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Technical data

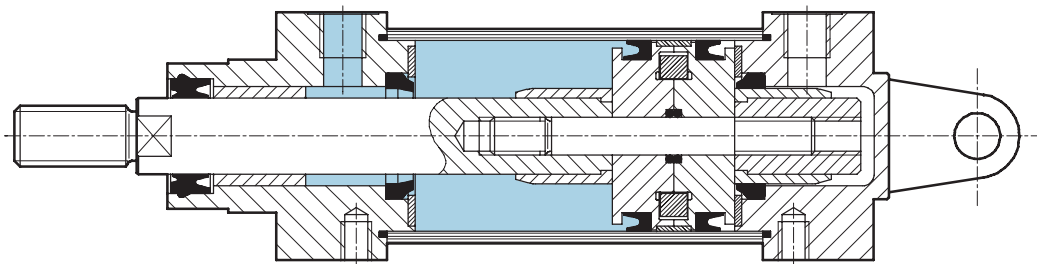
Weight [g]							
Piston Ø	32	40	50	63	80	100	125
<b>CRDNG</b>							
Basic weight with 0 mm stroke	1,045	1,360	2,160	3,455	5,935	8,070	
Additional weight per 10 mm stroke	20	30	60	60	100	110	
<b>CRDNGS</b>							
Basic weight with 0 mm stroke	1,070	1,460	2,330				
Additional weight per 10 mm stroke	20	30	60				

## Materials

Sectional view CRDNG



Sectional view CRDNGS



Standard cylinder	Basic version	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	Polyurethane, nitrile rubber	Fluoro elastomer

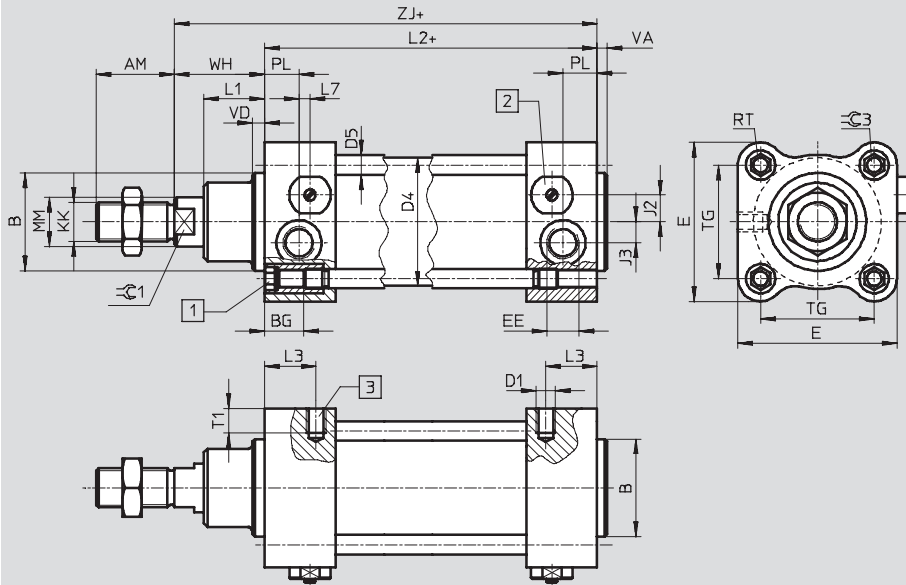
# Standard cylinders CRDNG to ISO 1552, stainless steel

Technical data

## Dimensions CRDNG

Download CAD data → [www.festo.com](http://www.festo.com)

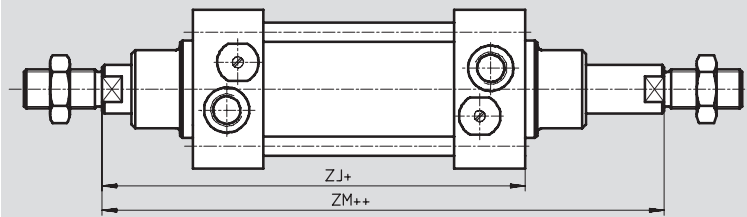
Basic version



- 1 Socket head screw with female thread
- 2 Cover for adjustable end-position cushioning
- 3 Threaded hole for direct mounting

+ = plus stroke length

## S2 – Through piston rod



+ = plus stroke length  
++ = plus 2x stroke length

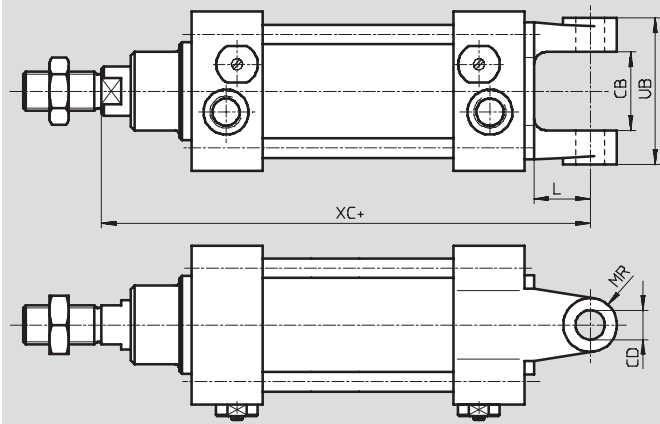
∅	AM	B	BG	D1	D4	D5	E	EE	J2	J3	KK	L1	L2
[mm]		∅ e11			∅	∅							
32	22	30	16	M6	33.6	6	50	G1/8	7	5.7	M10x1.25	16	94 +0.4
40	24	35	16	M6	41.6	6	55	G1/4	10	6.5	M12x1.25	18	105 +0.4/-0.6
50	32	40	16	M8	52.4	8	65	G1/4	11.5	8.6	M16x1.5	25	106 +0.4/-0.6
63	32	45	16	M10	65.4	8	75	G3/8	14.5	12	M16x1.5	25	121 +0.4/-0.6
80	40	45	23	M10	82.8	10	100	G3/8	15	13	M20x1.5	31	128 +0.4/-0.6
100	40	55	23	M12	102.8	10	120	G1/2	23	14	M20x1.5	36	138 +0.4/-0.6
125	54	60	23	M12	128.6	12	145	G1/2	28.5	8	M27x2	31	160 +0.4/-0.6

∅	L3	L7	MM	PL	RT	T1	TG	VA	VD	WH	ZJ	ZM	∅C1	∅C3
[mm]			∅											
32	13	5.3	12	13	M6	9	32.5	4	5	26	120	148	10	6
40	16.5	2.5	16	14	M6	9	38	4	5	30	135	167	13	6
50	21	4.5	20	14	M8	10	46.5	4	5	37	143	183	17	8
63	22	5	20	18	M8	12	56.5	4	5	37	158	199	17	8
80	22.5	6	25	17	M10	15	72	4	5	46	174	222	22	10
100	22.5	9	25	18	M10	18	89	4	5	51	189	240	22	10
125	23.5	4.5	32	27	M12	18	110	6	6	66	226	292	27	12

# Standard cylinders CRDNG to ISO 15552, stainless steel

Technical data

## Dimensions – CRDNGS



+ = plus stroke length






∅	CB	CD	L	MR	UB	XC
[mm]	H14	∅ H9				
32	26	10	18	9	45	142
40	28	12	21	10	52	160
50	32	12	23	11	60	170
63	40	16	28	13	70	190
80	50	16	32	13	90	210
100	60	20	37	17	110	230
125	70	25	44	23	130	276



# Standard cylinders CRDNG to ISO 15552, stainless steel

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Technical data

Ordering data				
Variant	Piston Ø [mm]	Stroke [mm]	Part No.	Type
<b>CRDNG</b>				
	32	10 ... 2,000	160884	CRDNG-32-...-PPV-A
	40	10 ... 2,000	160885	CRDNG-40-...-PPV-A
	50	10 ... 2,000	160886	CRDNG-50-...-PPV-A
	63	10 ... 2,000	160887	CRDNG-63-...-PPV-A
	80	10 ... 2,000	160888	CRDNG-80-...-PPV-A
	100	10 ... 2,000	160889	CRDNG-100-...-PPV-A
	125	10 ... 2,000	185280	CRDNG-125-...-PPV-A
<b>S6 – Heat-resistant up to 120 °C</b>				
	32	10 ... 2,000	185293	CRDNG-32-...-PPV-A-S6
	40	10 ... 2,000	185294	CRDNG-40-...-PPV-A-S6
	50	10 ... 2,000	185295	CRDNG-50-...-PPV-A-S6
	63	10 ... 2,000	185296	CRDNG-63-...-PPV-A-S6
	80	10 ... 2,000	185297	CRDNG-80-...-PPV-A-S6
	100	10 ... 2,000	185298	CRDNG-100-...-PPV-A-S6
	125	10 ... 2,000	185299	CRDNG-125-...-PPV-A-S6
<b>S2 – Through piston rod</b>				
	32	10 ... 2,000	185282	CRDNG-32-...-PPV-A-S2
	40	10 ... 2,000	185283	CRDNG-40-...-PPV-A-S2
	50	10 ... 2,000	185284	CRDNG-50-...-PPV-A-S2
	63	10 ... 2,000	185285	CRDNG-63-...-PPV-A-S2
	80	10 ... 2,000	185286	CRDNG-80-...-PPV-A-S2
	100	10 ... 2,000	185287	CRDNG-100-...-PPV-A-S2
	125	10 ... 2,000	185288	CRDNG-125-...-PPV-A-S2
<b>CRDNGS</b>				
	32	10 ... 2,000	160890	CRDNGS-32-...-PPV-A
	40	10 ... 2,000	160891	CRDNGS-40-...-PPV-A
	50	10 ... 2,000	160892	CRDNGS-50-...-PPV-A
	63	10 ... 2,000	160893	CRDNGS-63-...-PPV-A
	80	10 ... 2,000	160894	CRDNGS-80-...-PPV-A
	100	10 ... 2,000	160895	CRDNGS-100-...-PPV-A
	125	10 ... 2,000	185281	CRDNGS-125-...-PPV-A
<b>S6 – Heat-resistant up to 120 °C</b>				
	32	10 ... 2,000	185300	CRDNGS-32-...-PPV-A-S6
	40	10 ... 2,000	185301	CRDNGS-40-...-PPV-A-S6
	50	10 ... 2,000	185302	CRDNGS-50-...-PPV-A-S6
	63	10 ... 2,000	185303	CRDNGS-63-...-PPV-A-S6
	80	10 ... 2,000	185304	CRDNGS-80-...-PPV-A-S6
	100	10 ... 2,000	185305	CRDNGS-100-...-PPV-A-S6
	125	10 ... 2,000	185306	CRDNGS-125-...-PPV-A-S6

Ordering data – Wearing parts kits					
Piston Ø [mm]	Part No.	Type	Piston Ø [mm]	Part No.	Type
32	125713	CRDNG/S-32-...-PPV-A <sup>1)</sup>	63	125716	CRDNG/S-63-...-PPV-A <sup>1)</sup>
40	125714	CRDNG/S-40-...-PPV-A <sup>1)</sup>	80	125717	CRDNG/S-80-...-PPV-A <sup>1)</sup>
50	125715	CRDNG/S-50-...-PPV-A <sup>1)</sup>	100	125718	CRDNG/S-100-...-PPV-A <sup>1)</sup>

1) Assembly grease included in the scope of delivery

# Accessories for stainless steel cylinders

Technical data

## Foot mounting CRHBN

Scope of delivery:

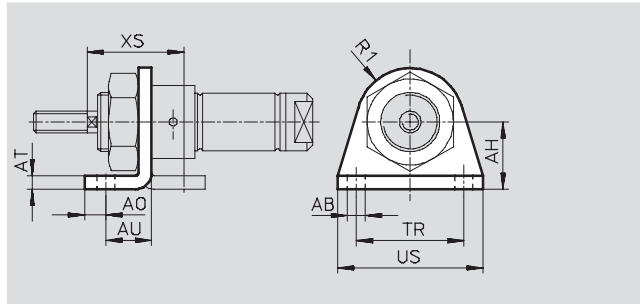
CRHBN-... x1: 1 foot

CRHBN-... x2: 2 feet, 1 nut

Material:

High-alloy steel

Free of copper, PTFE and silicone



Dimensions and ordering data													Weight	Part No.	Type
For $\varnothing$	AB	AH	AO	AT	AU	R1	TR	US	XS	CRC <sup>1)</sup>			[g]		
[mm]	$\varnothing$														
12	5.5	20	6	4	12.5	13	32	42	32	4			40	161866	CRHBN-12/16x1
16	5.5	20	6	4	12.5	13	32	42	32	4			97	162999	CRHBN-12/16x2
20	6.6	25	8	5	15	20	40	54	36	4			55	161867	CRHBN-20/25x1
25	6.6	25	8	5	15	20	40	54	40	4			100	162998	CRHBN-20/25x2

1) Corrosion resistance class 4 as per Festo standard 940 070

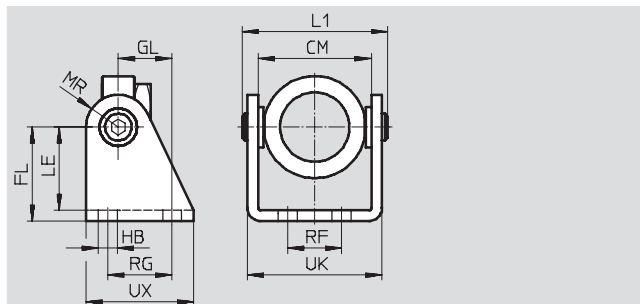
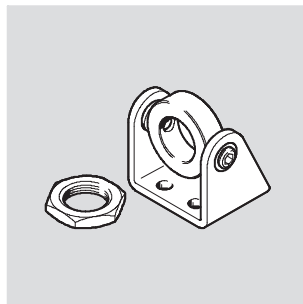
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

## Swivel mounting CRSBN

Material:

High-alloy steel

Free of copper, PTFE and silicone



Dimensions and ordering data													Weight	Part No.	Type
For $\varnothing$	CM	FL	GL	HB	L1	LE	MR	RF	RG	UK	UX	CRC <sup>1)</sup>			
[mm]				$\varnothing$											
20	38.1	35	20	7	55	31	12	20	24	50.1	40	4	230	552904	CRSBN-20/25
25															

1) Corrosion resistance class 4 as per Festo standard 940 070

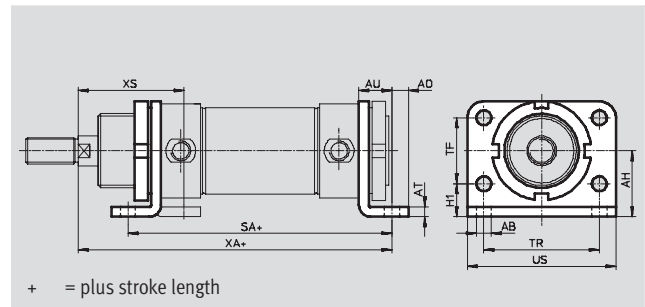
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

# Accessories for stainless steel cylinders

Technical data

## Foot mounting CRH

Material:  
High-alloy steel  
Free of copper, PTFE and silicone

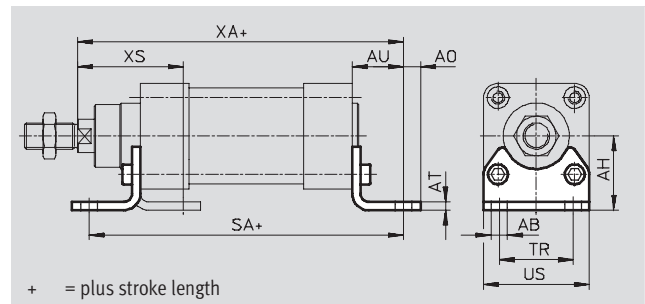


Dimensions and ordering data																
For Ø	AB	AH	AO	AT	AU	H1	SA	TF	TR	US	XA	XS	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]	Ø													[g]		
32	7	28	7	4	14	14	124	28	52	66	148	48	4	237	162951	CRH-32
40	9	33	10	5	20	18	153	30	60	80	178	60	4	341	162952	CRH-40
50	9	40	10	6	20	20	160	40	70	90	190	64	4	559	162953	CRH-50
63	9	45	10	6	20	20	164	50	76	96	195	64	4	680	162954	CRH-63

1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

## Foot mounting CRHNC

Material:  
High-alloy steel  
Free of copper, PTFE and silicone



Dimensions and ordering data																
For Ø	AB	AH	AO	AT	AU	SA	TR	US	XA	XS	CRC <sup>1)</sup>	Weight	Part No.	Type		
[mm]	Ø											[g]				
32	7	32	6.5	4	24	142	32	45	144.7	45.7	4	135	176937	CRHNC-32		
40	10	36	9	4	28	160.8	36	54	163.6	53.8	4	180	176938	CRHNC-40		
50	10	45	9.5	5	31	167.9	45	64	175	63.1	4	325	176939	CRHNC-50		
63	10	50	12.5	5	32	184.9	50	75	191.5	64.6	4	405	176940	CRHNC-63		
80	12	63	15	6	41	209.9	63	93	215.5	81.6	4	820	176941	CRHNC-80		
100	14.5	71	17.5	6	41	220.1	75	110	229.6	85.5	4	1,000	176942	CRHNC-100		
125	16.5	90	22	8	45	250	90	131	270	102	4	1,840	176943	CRHNC-125		

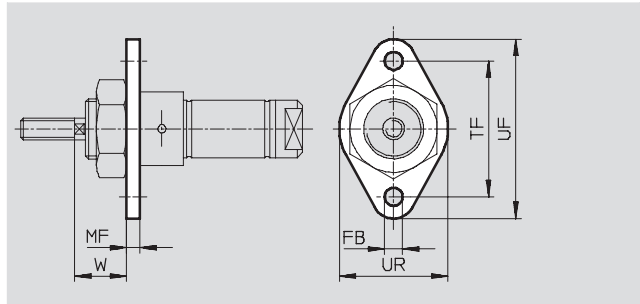
1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

# Accessories for stainless steel cylinders

Technical data

## Flange mounting CRFBN

Material:  
High-alloy steel  
Free of copper, PTFE and silicone

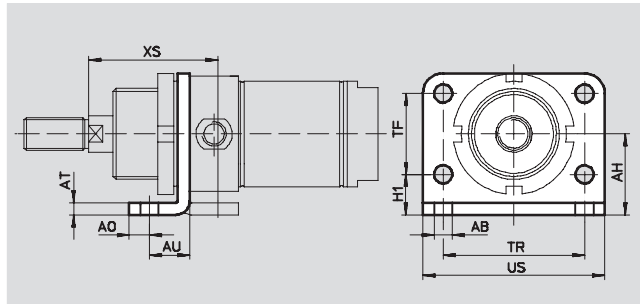


Dimensions and ordering data										
For $\varnothing$	FB	MF	TF	UF	UR	W	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]	$\varnothing$							[g]		
12, 16	5.5	4	40	53	30	18	4	25	161864	CRFBN-12/16
20, 25	6.6	5	50	66	40	19	4	45	161865	CRFBN-20/25

1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

## Foot mounting CRFV

Material:  
High-alloy steel  
Free of copper, PTFE and silicone



Dimensions and ordering data														
For $\varnothing$	AB	AH	AO	AT	AU	H1	TF	TR	US	XS	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]	$\varnothing$											[g]		
32	7	28	7	4	14	14	28	52	66	48	4	102	161858	CRFV-32
40	9	33	10	5	19	18	30	60	80	60	4	190	161859	CRFV-40
50	9	40	10	6	19	20	40	70	90	64	4	290	161860	CRFV-50
63	9	45	10	6	19	20	50	76	96	64	4	365	161861	CRFV-63

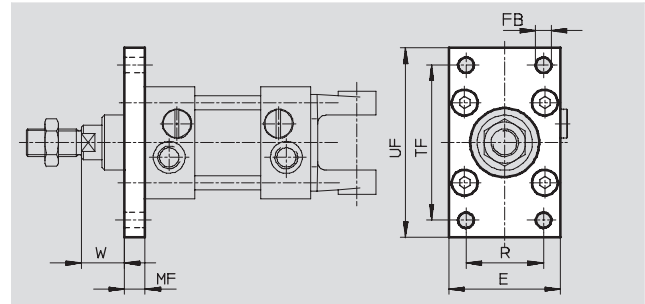
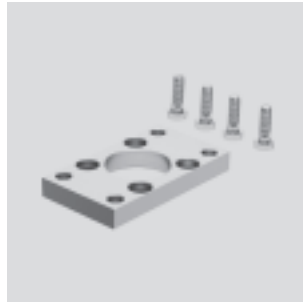
1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

# Accessories for stainless steel cylinders

Technical data

## Flange mounting CRFNG

Material:  
High-alloy steel  
Free of copper, PTFE and silicone



Dimensions and ordering data											
For $\varnothing$	E	FB $\varnothing$	MF	R	TF	UF	W	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]									[g]		
32	45	7	10	32	64	80	16	4	240	161846	CRFNG-32
40	54	9	10	36	72	90	20	4	300	161847	CRFNG-40
50	65	9	12	45	90	110	25	4	550	161848	CRFNG-50
63	75	9	12	50	100	120	25	4	710	161849	CRFNG-63
80	93	12	16	63	126	150	30	4	1,680	161850	CRFNG-80
100	110	14	16	75	150	175	35	4	2,450	161851	CRFNG-100
125	132	16	20	90	180	210	45	4	3,660	185363	CRFNG-125

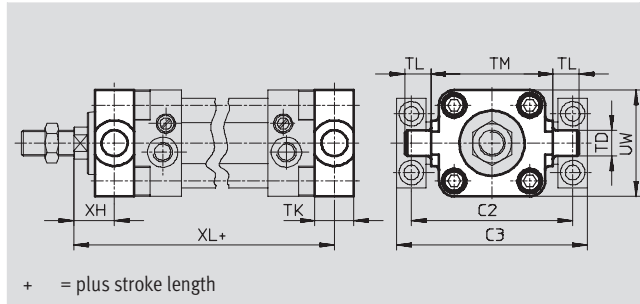
1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

# Accessories for stainless steel cylinders

Technical data

## Trunnion flange CRZNG

Material:  
High-alloy steel  
Free of copper, PTFE and silicone

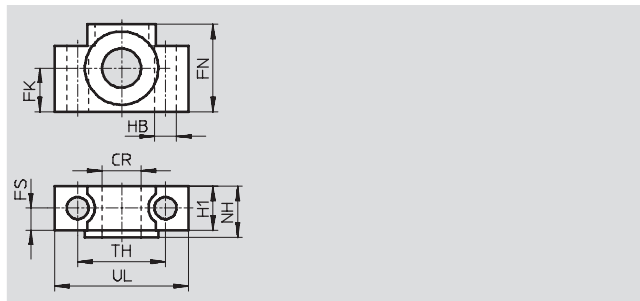
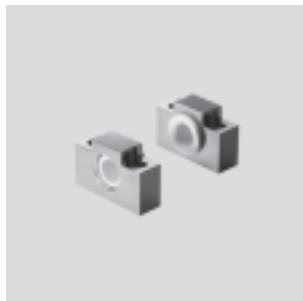


Dimensions and ordering data													
For Ø	C2	C3	TD	TK	TL	TM	UW	XH	XL	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]			Ø e9								[g]		
32	71	86	12	16	12	50	50	18	128	4	150	<b>161852</b>	<b>CRZNG-32</b>
40	87	105	16	20	16	63	55	20	145	4	260	<b>161853</b>	<b>CRZNG-40</b>
50	99	117	16	24	16	75	65	25	155	4	430	<b>161854</b>	<b>CRZNG-50</b>
63	116	136	20	24	20	90	75	25	170	4	640	<b>161855</b>	<b>CRZNG-63</b>
80	136	156	20	28	20	110	100	32	188	4	1,300	<b>161856</b>	<b>CRZNG-80</b>
100	164	189	25	38	25	132	120	32	208	4	2,400	<b>161857</b>	<b>CRZNG-100</b>
125	192	217	25	50	25	160	150	40	250	4	3,600	<b>185362</b>	<b>CRZNG-125</b>

1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

## Trunnion supports CRLNZG

Material:  
High-alloy steel  
Free of copper, PTFE and silicone



Dimensions and ordering data													
For Ø	CR	FK	FN	FS	H1	HB	NH	TH	UL	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]	Ø D11	Ø ±0.1				Ø H13		±0.2			[g]		
32	12	15	30	10.5	15	6.6	18	32	46	4	200	<b>161874</b>	<b>CRLNZG-32</b>
40, 50	16	18	36	12	18	9	21	36	55	4	330	<b>161875</b>	<b>CRLNZG-40/50</b>
63, 80	20	20	40	13	20	11	23	42	65	4	440	<b>161876</b>	<b>CRLNZG-63/80</b>
100/125	25	25	50	16	24.5	14	28.5	50	75	4	740	<b>161877</b>	<b>CRLNZG-100/125</b>

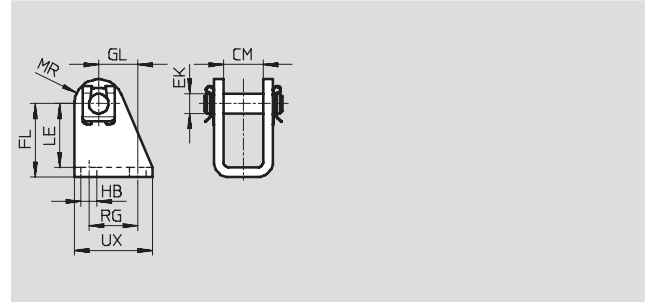
1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

# Accessories for stainless steel cylinders

Technical data

## Clevis foot CRLBN

Material:  
High-alloy steel  
Free of copper, PTFE and silicone

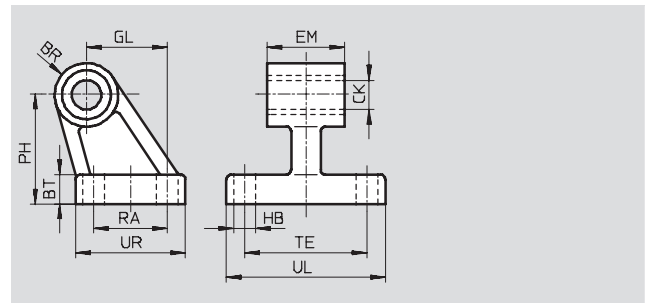


Dimensions and ordering data													
For Ø	CM	EK Ø	FL	GL	HB	LE	MR	RG	UX	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
[mm]													
12, 16	12.1	6	27 +0.3/-0.2	13	5.5	24	7	15	25	4	55	161862	CRLBN-12/16
20, 25	16.1	8	30 +0.4/-0.2	16	6.6	26	10	20	32	4	62	161863	CRLBN-20/25
32	16.1	10	35 +0.4/-0.2	18.5	6.6	31	11	24	35	4	107	195866	CRLBN-32
40	18.1	12	40 +0.4/-0.2	24.5	9	35	13	30	45	4	184	195867	CRLBN-40
50, 63	21.1	16	45 +0.5/-0.2	28	9	39	14	34	50	4	289	195868	CRLBN-50/63

1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

## Clevis foot CRLNG

Material:  
High-alloy steel  
Free of copper, PTFE and silicone



Dimensions and ordering data																	
For Ø	BR	BT	CK Ø	EB Ø	EM	GL	HB Ø	OF	PH	RA	TE	UL	UR	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
[mm]			D11	H13	-0.4		H13										
32	10	8	10	-	25.8	21	6.6	-	32	18	38	51	31	4	120	161840	CRLNG-32
40	11	10	12	-	27.8	24	6.6	-	36	22	41	54	35	4	160	161841	CRLNG-40
50	12	12	12	-	31.8	33	9	-	45	30	50	65	45	4	280	161842	CRLNG-50
63	15	12	16	15	39.8	37	9	10.8	50	35	52	67	50	4	375	161843	CRLNG-63
80	15	14	16	18	49.8	47	11	12.7	63	40	66	86	60	4	580	161844	CRLNG-80
100	19	15	20	18	59.8	55	11	13.7	71	50	76	96	70	4	935	161845	CRLNG-100
125	22	20	25	20	69.8	70	14	18.6	90	60	94	124	90	4	2,530	176951	CRLNG-125

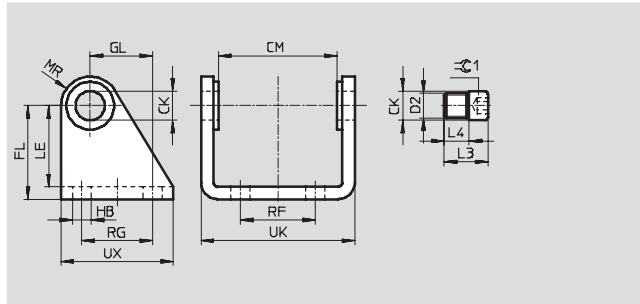
1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

# Accessories for stainless steel cylinders

Technical data

## Clevis foot CRSBS

Material:  
High-alloy steel



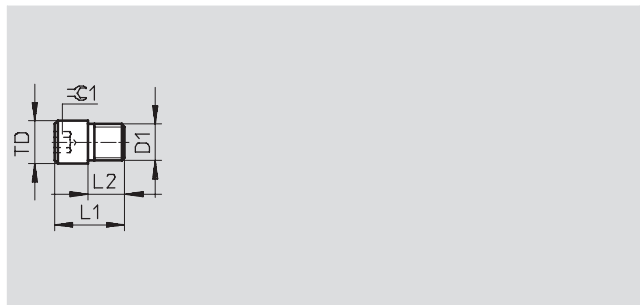
Dimensions and ordering data											
For $\varnothing$	CK	CM	D1	D2	FL	GL	H1	HB	L3	L4	LE
[mm]	$\varnothing$ H8/f7		$\varnothing$					$\varnothing$			
32	10	38.1	15	M8x1	35	20	4	7	14.5	6.5	31
40	12	46.1	20	M10x1	40	27	5	9	18.5	9	36
50	14	57.1	23	M12x1.5	45	30	6	9	23	12	39
63	16	70.4	23	M14x1.5	50	34	6	9	29	16	44

For $\varnothing$	MR	RF	RG	UK	UX	$\approx \varnothing 1$	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]								[g]		
32	12	20	24	50.1	40	5	4	130	<b>162955</b>	<b>CRSBS-32</b>
40	13	28	30	60.1	50	6	4	200	<b>162956</b>	<b>CRSBS-40</b>
50	14	36	34	74.1	54	6	4	310	<b>162957</b>	<b>CRSBS-50</b>
63	15	42	35	88.1	65	8	4	440	<b>162958</b>	<b>CRSBS-63</b>

1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

## Pivot bolt CRGBS for swivel mounting

Material:  
High-alloy steel  
Free of copper, PTFE and silicone



Dimensions and ordering data									
For $\varnothing$	D1	L1	L2	TD	$\approx \varnothing 1$	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]				$\varnothing$ f8			[g]		
32	M8x1	14.5	6.5 ±0.1	10	5	4	10	<b>163132</b>	<b>CRGBS-32</b>
40	M10x1	18.5	9 ±0.1	12	6	4	20	<b>163133</b>	<b>CRGBS-40</b>
50	M12x1.5	23	12 ±0.2	14	6	4	40	<b>163134</b>	<b>CRGBS-50</b>
63	M14x1.5	29	16 ±0.2	16	8	4	65	<b>163135</b>	<b>CRGBS-63</b>

1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

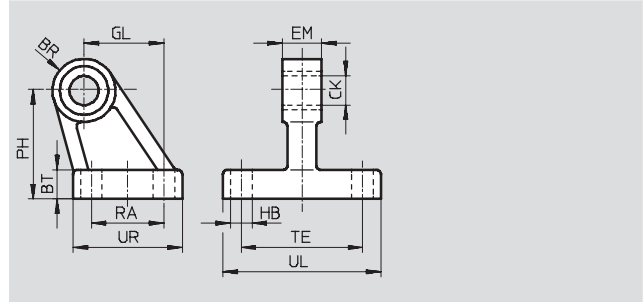


# Accessories for stainless steel cylinders

Technical data

## Clevis foot CRLMC

Material:  
High-alloy steel  
Free of copper, PTFE and silicone

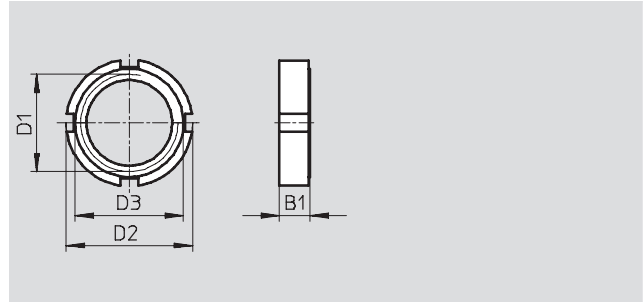
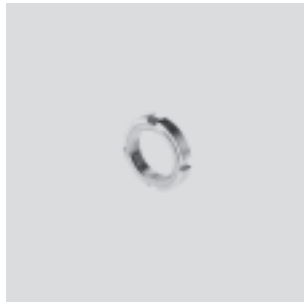


Dimensions and ordering data																	
For $\varnothing$	BR	BT	CK	EB	EM	GL	HB	OF	PH	RA	TE	UL	UR	CRC <sup>1)</sup>	Weight	Part No.	Type
[mm]			$\varnothing$ D11	$\varnothing$ H13	-0.4		$\varnothing$ H13								[g]		
32	10	8	10	-	10	21	6.6	-	32	18	38	51	31	4	101	197320	CRLMC-32
40	11	10	12	-	12	24	6.6	-	36	22	41	54	35	4	139	197321	CRLMC-40
50	12	12	12	-	16	33	9	-	45	30	50	65	45	4	242	197322	CRLMC-50
63	15	12	16	15	16	37	9	10.8	50	35	52	67	50	4	303	197323	CRLMC-63
80	15	14	16	18	20	47	11	12.7	63	40	66	86	60	4	515	197324	CRLMC-80
100	19	15	20	18	20	55	11	13.7	71	50	76	96	70	4	761	197325	CRLMC-100

1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

## Ring nut CR

Material:  
High-alloy steel  
Free of copper, PTFE and silicone





Dimensions and ordering data							
For $\varnothing$	B1	D1	D2	D3	CRC <sup>1)</sup>	Weight	Part No. Type
[mm]						[g]	
32	8	M30x1.5	42	36	4	40	197326 CR-M30x1,5
40	10	M38x1.5	50	48	4	61	197327 CR-M38x1,5
50, 63	10	M45x1.5	60	56	4	89	197328 CR-M45x1,5
80, 100	13	M50x2	75	67	4	228	197329 CR-M50x2


1) Corrosion resistance class 4 as per Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.



# Accessories for stainless steel cylinders


FESTO


Technical data

Ordering data – Piston rod attachments				Technical data → Internet: crsg			
	For Ø	Part No.	Type		For Ø	Part No.	Type
Rod eye CRSGS				Rod clevis CRSG			
	12, 16	195580	CRSGS-M6		12, 16	13567	CRSG-M6
	20	195581	CRSGS-M8		20	13568	CRSG-M8
	32	195582	CRSGS-M10x1,25		32	13569	CRSG-M10x1,25
	40	195583	CRSGS-M12x1,25		40	13570	CRSG-M12x1,25
	50, 63	195584	CRSGS-M16x1,5		50, 63	13571	CRSG-M16x1,5
	80, 100	195585	CRSGS-M20x1,5		80, 100	13572	CRSG-M20x1,5
	125	195586	CRSGS-M27x2		125	185361	CRSG-M27x2

Ordering data – Proximity sensors, magnetic reed CRSMEO				Technical data → Internet: crsmeo	
	Electrical connection	Cable length	Part No.	Type	
	Cable	[m]			
	N/O contact				
	Corrosion resistant				
	3-wire	2.5	161 775	CRSMEO-4-K-LED-24	

Ordering data – Mounting kits				Technical data → Internet: crsmb			
	For Ø	Part No.	Type		For Ø	Part No.	Type
Mounting kit CRSMBR				Mounting kit CRSMB			
	12	164581	CRSMBR-12		32	161763	CRSMB-32
	16	164582	CRSMBR-16		40	161764	CRSMB-40
	20	164583	CRSMBR-20		50	161765	CRSMB-50
	25	164584	CRSMBR-25		63	161766	CRSMB-63
	32	163888	CRSMBR-32		80	161767	CRSMB-80
	40	163889	CRSMBR-40		100	161768	CRSMB-100
	50	163890	CRSMBR-50		125	185365	CRSMB-125
	63	163891	CRSMBR-63				


Ordering data – Proximity sensors, magneto-resistive CRSMT				Technical data → Internet: crsmt	
	Switching output	Electrical connection	Cable length	Part No.	Type
		Cable	[m]		
	N/O contact				
	PNP	3-wire	2.5	525563	CRSMT-8-PS-K2,5-LED-24
			5.0	525564	CRSMT-8-PS-K5-LED-24


Ordering data – Mounting kit SMBR		Technical data → Internet: smbr	
		Part No.	Type
	For standard cylinder CRDSNU	538937	SMBR-8-8/100-S6


Ordering data – Mounting kit CRSMB		Technical data → Internet: crsmb	
		Part No.	Type
	For round cylinder CRHD	525565	CRSMB-8-32/100

# Accessories for stainless steel cylinders

Technical data

Ordering data – One-way flow control valves CRGRLA				Technical data → Internet: crgrla	
	Connection		Material	Part No.	Type
	Thread	For push-in fitting			
	M5	CRQS/CRQSL/CRQST	Electrolytically polished stainless steel casting	161403	CRGRLA-M5-B
	G1/8			161404	CRGRLA-1/8-B
	G1/4			161405	CRGRLA-1/4-B
	G3/8			161406	CRGRLA-3/8-B
	G1/2			161407	CRGRLA-1/2-B

Ordering data – Air reservoirs CRVZS				Technical data → Internet: crvzs	
	Connection		Material	Part No.	Type
	Thread	Volume [l]			
	G1/8	0.1	High-alloy stainless steel	160233	CRVZS-0,1
	G1/4	0.4		160234	CRVZS-0,4
	G1/4	0.75		160235	CRVZS-0,75
	G1/2	2		160236	CRVZS-2
	G1, G3/8	5		192159	CRVZS-5
	G1, G3/8	10		160237	CRVZS-10

Ordering data – Tubing		Technical data → Internet: tubing
	Standard outside diameter	PLN, PFAN