

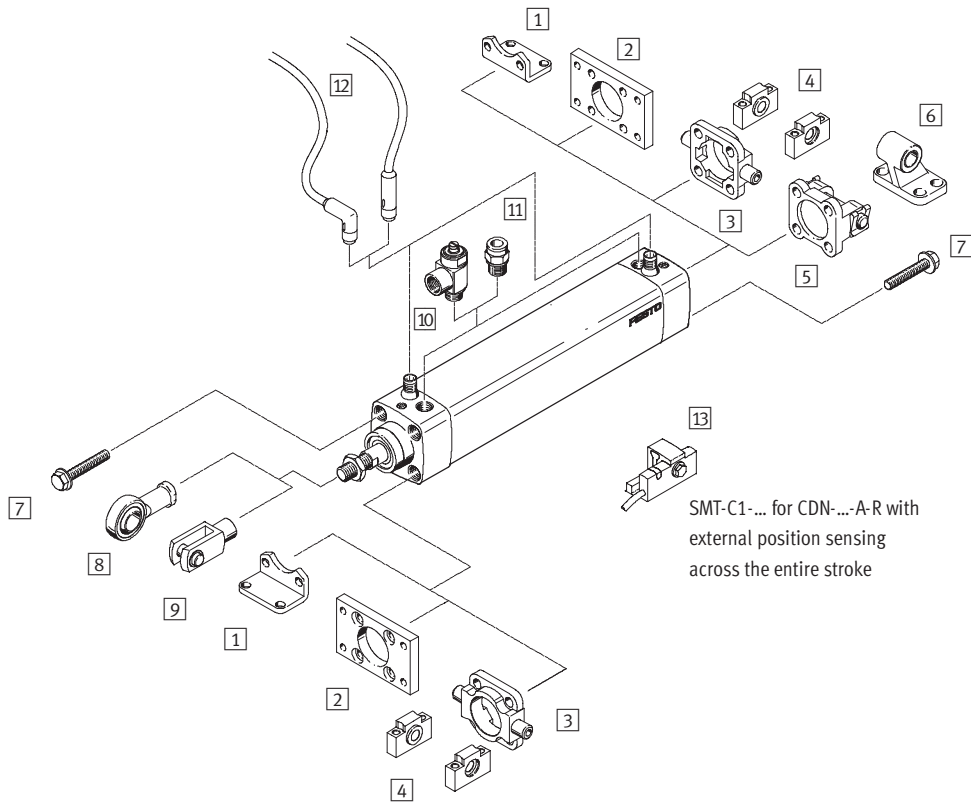


- Resistant to corrosion caused by harsh ambient conditions
- Easy to clean design
- Optional integrated position sensing
- Comprehensive range of accessories

Standard cylinders CDN, ISO 15552, Clean Design

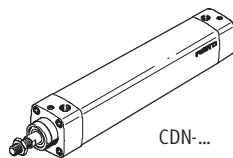
Peripherals overview

FESTO

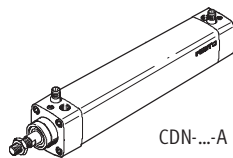


Variants

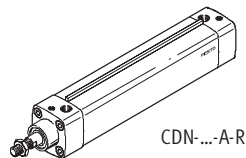
Without position sensing



With position sensing integrated in the end positions



With sensor mounting rail for external position sensing



-  - Note

A combination of integrated and external position sensing is likewise possible.

Standard cylinder

- Standardised dimensions

Conforms to

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



DIN



Standard cylinders CDN, ISO 15552, Clean Design

Peripherals overview

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Mounting attachments and accessories		
	Brief description	→ Page
1 Foot mounting CRHNC	For bearing and end caps	1 / 1.2-127
2 Flange mounting CRFNG	For bearing or end caps	1 / 1.2-127
3 Trunnion flange CRZNG	For bearing or end caps in combination with trunnion supports CRLNZG	1 / 1.2-128
4 Trunnion supports CRLNZG	For swivel mounting CRZNG	1 / 1.2-128
5 Swivel flange SNCB- ... -R3	For end caps	1 / 1.2-129
6 Clevis foot CRLNG	For swivel flange SNCB- ... -R3	1 / 1.2-129
7 4 blanking screws CR	For covering unused mounting threads	1 / 1.2-132
8 Rod eye CRSGS	With spherical bearing	1 / 1.2-132
9 Rod clevis CRSG	Permits a swivelling movement of the cylinder in one plane	1 / 1.2-132
10 One-way flow control valve CRGRLA	For regulating speed	1 / 1.2-132
11 Push-in fittings QS-F	For connecting compressed air tubing with standard O.D.	1 / 1.2-132
12 Plug socket with cable SIM-K- ... -CDN	With food industry approval for electrical signal transmission and power supply	1 / 1.2-130
13 Proximity sensor SMT-C1-...	For attachment to the sensor mounting rail	1 / 1.2-131

ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

Standard cylinders CDN, ISO 15552, Clean Design

Type codes

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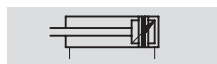
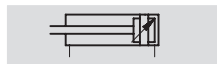
		CDN	-	50	-	200	-	PPV	-	AIB	-	SME	-	K2
Type														
Double-acting														
CDN	Clean Design cylinder													
Piston Ø [mm]														
Stroke [mm]														
Cushioning														
PPV	Adjustable at both ends													
Position sensing														
A	External													
AIB	Integrated, at both ends													
AIV	Integrated, advanced end position													
AIH	Integrated, retracted end position													
Proximity sensor														
SME	Reed contact													
SMT	Electronic													
Variant														
K2	Male piston rod thread extended													
K3	Female piston rod thread													
K8	Piston rod extended													
S2	Through piston rod													
S6	Heat-resistant seals up to max. 120 °C													
R	Sensor mounting rail													

Standard cylinders CDN, ISO 15552, Clean Design

Technical data

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Function



- Ø - Diameter
32 ... 100 mm

- I - Stroke length
10 ... 2,000 mm

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

Wearing parts kits

→ 1 / 1.2-124

Variants



K2



K3



K8

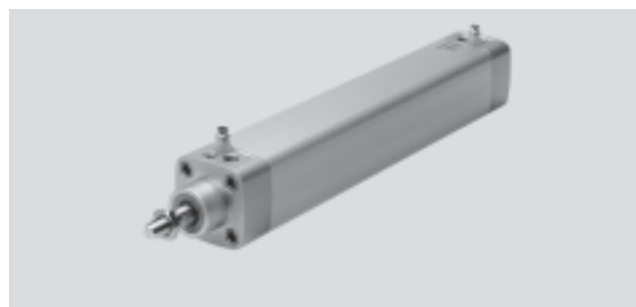


S2



S6

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



ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

General technical data							
Piston Ø		32	40	50	63	80	100
Pneumatic connection		G1/8	G1/4	G1/4	G3/8	G3/8	G1/2
Piston rod thread		M10x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5	M20x1.5
Design		Piston					
		Piston rod					
		Cylinder barrel					
Cushioning		Adjustable at both ends					
Cushioning length	[mm]	20	20	22	22	32	32
Position sensing	[A]	External					
	[AIB]	Integrated, end position at both ends					
	[AIV]	Integrated, advanced end position (bearing cap)					
	[AIH]	Integrated, retracted end position (end cap)					
Type of mounting		Via female thread					
		Via accessories					
Assembly position		Any					

Operating conditions						
Piston Ø	32	40	50	63	80	100
Operating medium	Filtered compressed air, lubricated or unlubricated					
Operating pressure	[bar]	0.6 ... 12				

Ambient conditions		
Piston Ø	Basic type	S6
Ambient temperature ¹⁾ [°C]	-20 ... +80 without position sensing	0 ... +120
	-20 ... +60 with position sensing	
Corrosion resistance class CRC ²⁾	3	

1) Note operating range of proximity sensors

2) Corrosion resistance class 3 according to Festo standard 940 070

Components requiring higher corrosion resistance. 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 CDN, ISO 15552, Clean Design

Technical data

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Forces [N] and impact energy [J]						
Piston Ø	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
Max. impact energy at the end positions	0.4	0.7	1.0	1.3	1.6	1.6
S6	0.2	0.35	0.5	0.65	0.8	0.8

Permissible impact velocity:

$$v_{perm.} = \sqrt{\frac{2 \times E_{perm.}}{m_{dead} + m_{load}}}$$

Maximum permissible load:

$$m_{load} = \frac{2 \times E_{perm.}}{v^2} - m_{dead}$$



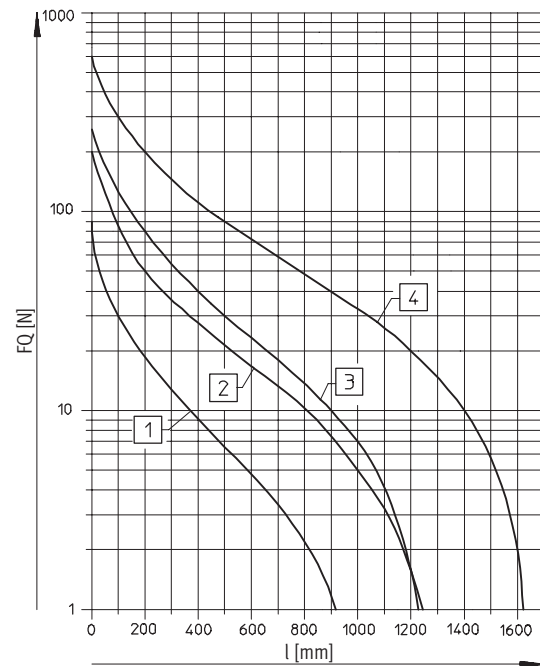
Note

This data represents the maximum values that can be achieved. Values fluctuate in practice relative to the size of the working load. Allowance

must also be made for the limits of the cushioning capacity of the drive and the permissible impact energy.

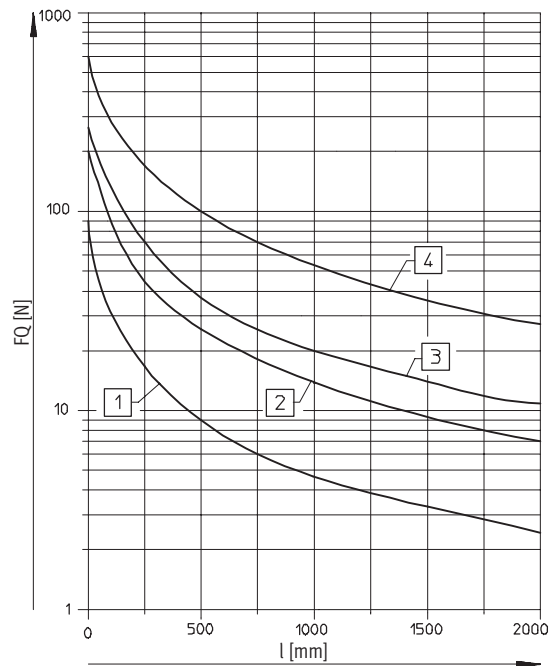
Permissible lateral force F_Q as a function of the stroke length l

Horizontal mounting



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

Vertical mounting



Standard cylinders CDN, ISO 15552, Clean Design

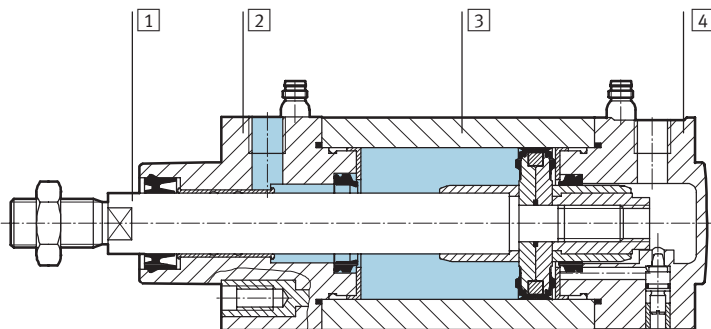
Technical data

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Weight [g]						
Piston Ø	32	40	50	63	80	100
Basic type						
Product weight with 0 mm stroke	600	920	1530	2140	3151	4820
Additional weight per 10 mm stroke	33	42	65	70	137	158
Moving load with 0 mm stroke	130	250	450	510	1131	1544
Additional load per 10 mm stroke	9	16	25	25	137	158
Variant S2 – Through piston rod						
Product weight with 0 mm stroke	715	1130	1920	2570	3613	5389
Additional weight per 10 mm stroke	42	58	90	95	175	196
Moving load with 0 mm stroke	210	420	780	860	1392	1872
Additional load per 10 mm stroke	18	32	50	50	76	76

Materials

Sectional view



Cylinder	CDN	S6
1 Piston rod	High-alloy steel	
2 Bearing cap	Smooth anodised aluminium	
3 Cylinder barrel	Smooth anodised aluminium	
4 End cap	Smooth anodised aluminium	
– Seals	Polyurethane, nitrile rubber	Fluorocarbon rubber
– Proximity sensor contacts	Gold-plated brass	

ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

Standard cylinders CDN, ISO 15552, Clean Design

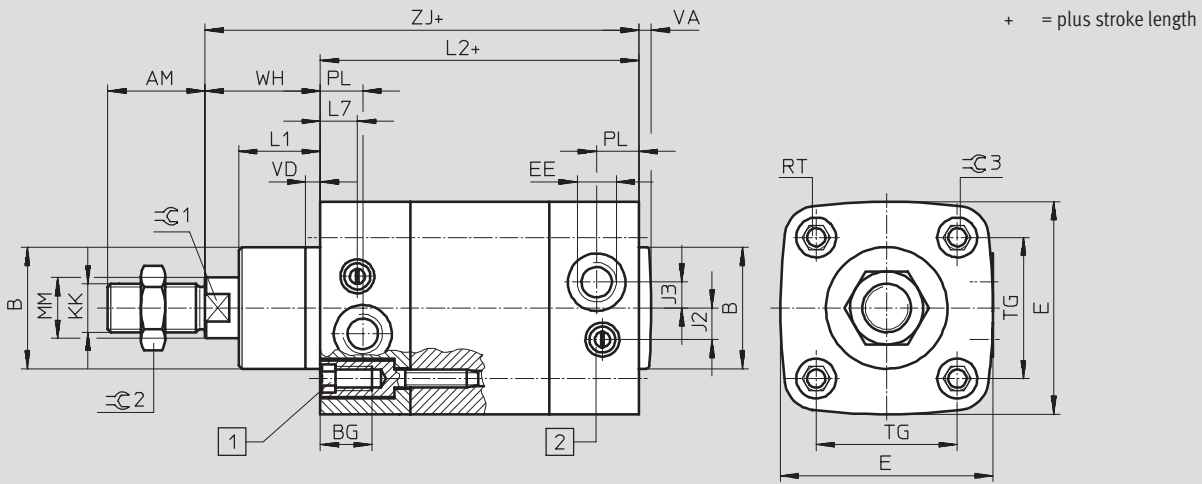
Technical data

FESTO

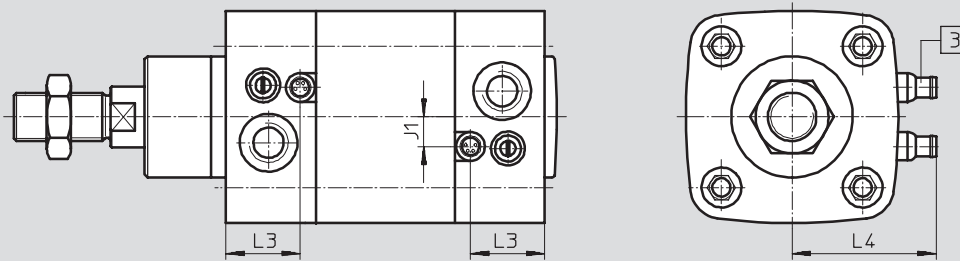
Dimensions – Basic type

Download CAD data → www.festo.com/en/engineering

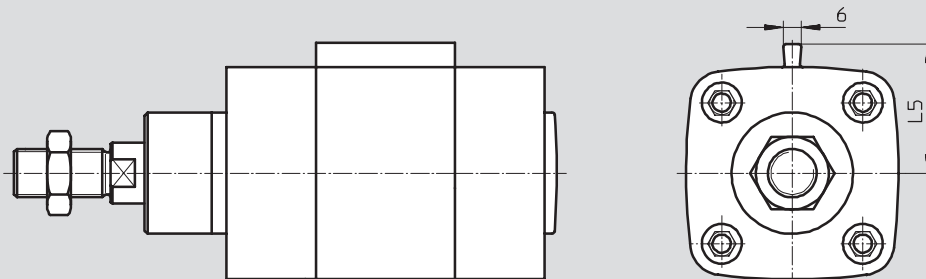
Without position sensing



With position sensing integrated in the end positions



With sensor mounting rail for external position sensing



1 Socket head screw with female thread for mounting attachments

2 Regulating screw for adjustable end-position cushioning

3 Miniature plug connector, 3 pin, with integrated proximity sensor SME or SMT; suitable for plug socket with cable SIM-K...-CDN

Standard cylinders CDN, ISO 15552, Clean Design

Technical data

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Ø [mm]	AM	B Ø d11	BG min.	E	EE	J1	J2	J3	KK	L1	L2	L3	L4 ±2
32	22	30	16	50	G1/8	6	6	5.5	M10x1.25	18	94 ±0.4	23.2	35
40	24	35	16	58	G1/4	8.5	8.4	6.5	M12x1.25	21	105 ±0.4	28.2	39
50	32	40	17	70	G1/4	9	9	8.5	M16x1.5	28	106 ±0.4	28.2	45
63	32	45	17	81	G3/8	14	14	11	M16x1.5	28.5	121 ±0.4	35.7	50
80	40	45	17	100	G3/8	21.5	14.5	8	M20x1.5	34.5	128 ±0.8	30.6	60
100	40	55	17	120	G1/2	22	16	17.5	M20x1.5	38	138 ±1	33.5	70

Ø [mm]	L5	L7	MM Ø	PL	RT	TG	VA	VD	WH ±1.4	ZJ	≡C1	≡C2	≡C3
32	30	10.5	12	17	M6	32.5	4	5	26	120	10	17	6
40	34	16	16	22	M6	38	4	5	30	135	13	19	6
50	40	12	20	20	M8	46.5	4	5	37	143	17	24	8
63	45.5	17.5	20	26	M8	56.5	4	5	37	158	17	24	8
80	55	15.4	25	16.4	M10	72	4	5	46	174	22	30	6
100	65	15.8	25	19	M10	89	4	5	51	189	22	30	6

ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

Standard cylinders CDN, ISO 15552, Clean Design

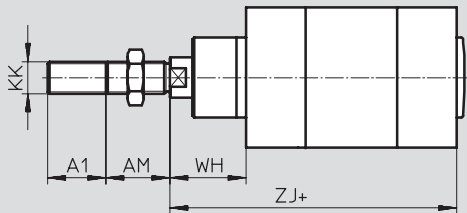
Technical data

FESTO

Dimensions – Variants

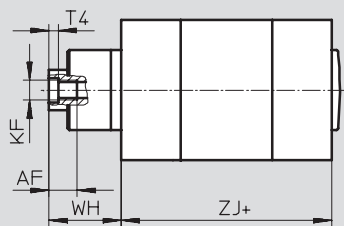
Download CAD data → www.festo.com/en/engineering

K2 – Male piston rod thread extended



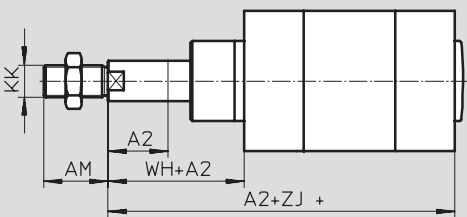
+ = plus stroke length

K3 – Female piston rod thread



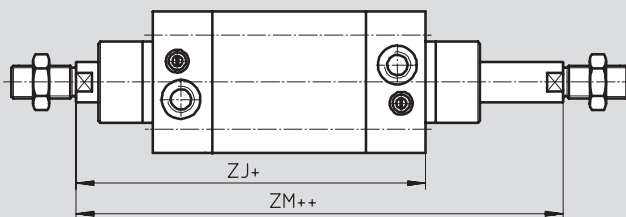
+ = plus stroke length

K8 – Piston rod extended



+ = plus stroke length

S2 – Through piston rod



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

Standard cylinders CDN, ISO 15552, Clean Design

FESTO

Technical data

Ø	AF	AM	A1	A2	KF	KK	T4	WH	ZJ	ZM
[mm]			max.	max.				±1.4		
32	12	22	35	500	M6	M10x1.25	2.6	26	120	146.6
40	12	24	35		M8	M12x1.25	3.3	30	135	165.3
50	16	32	70		M10	M16x1.5	4.7	37	143	180.3
63	16	32	70		M10	M16x1.5	4.7	37	158	195.9
80	20	40	70		M12	M20x1.5	6.1	46	174	222
100	20	40	70		M12	M20x1.5	6.1	51	189	240

Ordering data – Wearing parts kits					
Piston Ø [mm]	Part No.	Type	Piston Ø [mm]	Part No.	Type
32	397 440	CDN-32-...-PPV-A ¹⁾	63	397 443	CDN-63-...-PPV-A ¹⁾
40	397 441	CDN-40-...-PPV-A ¹⁾	80	397 444	CDN-80-...-PPV-A ¹⁾
50	397 442	CDN-50-...-PPV-A ¹⁾	100	397 445	CDN-100-...-PPV-A ¹⁾

1) Assembly grease included in scope of delivery.

ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

Standard cylinders CDN, ISO 15552, Clean Design

Ordering data – Modular products

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ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

M Mandatory data					O Options							
Module No.	Function	Piston Ø	Stroke	Cushioning	Position sensing	Proximity sensor	Sensor mounting rail	Piston rod type	Male thread extended	Female thread	Piston rod extended	Temperature-resistant
193 660	CDN	32	10 ...	PPV	A	SME	R	S2	...K2	K3	...K8	S6
193 661		40	2 000		AIB							
193 662		50			AIV							
193 663		63			AIH							
193 664		80										
193 665		100										
Ordering example												
193 663	CDN	- 63	- 900	- PPV	- AIV	- SME	-	-	- 30K2	-	-	-

Ordering table												
Size		32	40	50	63	80	100	Condi- tions	Code	Enter code		
M	Module No.	193 660	193 661	193 662	193 663	193 664	193 665					
	Function	Standard cylinder, double-acting, based on ISO 15552 (Clean Design)							CDN	CDN		
	Piston Ø [mm]	32	40	50	63	80	100		-...			
	Stroke [mm]	10 ... 2,000							-...			
	Cushioning	Pneumatic cushioning, adjustable at both ends							-PPV	-PPV		
O	Position sensing	Position sensing external							1	-A		
		Integrated position sensing at both ends							2	-AIB		
		Integrated position sensing, advanced end position							2	-AIV		
		Integrated position sensing, retracted end position							2	-AIH		
	Proximity sensor	SME (contact type)							3	-SME		
		SMT (contactless)							3	-SMT		
	Sensor mounting rail	Sensor mounting rail for external position sensing							4	-R		
	Piston rod type	Through piston rod								-S2		
	Male thread extended [mm]	Extended male piston rod thread 1 ... 35 1 ... 70								-...K2		
	Female thread	Female piston rod thread (M6) (M8) (M10) (M12)							5	-K3		
	Piston rod extended [mm]	Extended piston rod at front 1 ... 500								-...K8		
	Temperature-resistant	Heat-resistant seals max. 120 °C							6	-S6		

1 A Only with sensor strip R.

2 AIB, AIV, AIH Only with proximity sensor SME or SMT.

3 SME, SMT Only with position sensing AIB, AIV or AIH.

4 R Only with position sensing A, AIB, AIV or AIH.

5 K3 Not with male thread extended K2.

6 S6 Not with position sensing A, AIB, AIV or AIH.

Transfer order code

	CDN	-		-		-	PPV	-		-		-		-		-		-		-		-	
--	-----	---	--	---	--	---	-----	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--

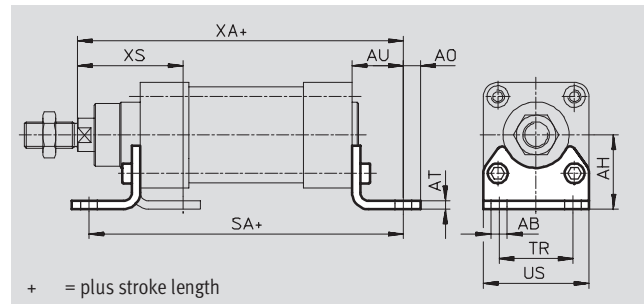
Standard cylinders CDN, ISO 15552, Clean Design

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Accessories

Foot mounting CRHNC

Material:
High-alloy steel
Copper, PTFE and silicone-free

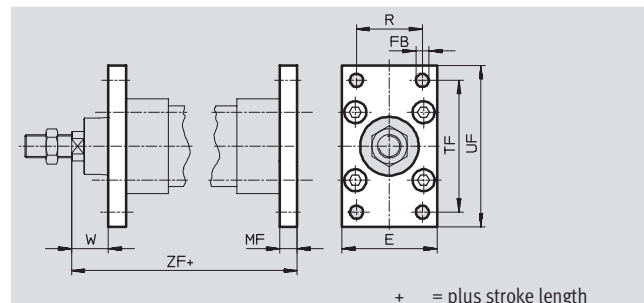
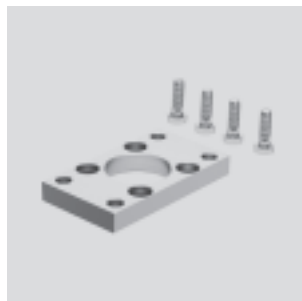


Dimensions and ordering data													
For Ø	AB Ø	AH	AO	AT	AU	SA	TR	US	XA	XS	CRC ¹⁾	Weight [g]	Part No. Type
[mm]													
32	7	32	6.5	4	24	142	32	45	144.7	45.7	4	135	176 937 CRHNC-32
40	10	36	9	4	28	160.8	36	54	163.6	53.8	4	180	176 938 CRHNC-40
50	10	45	9.5	5	31	167.9	45	64	175	63.1	4	325	176 939 CRHNC-50
63	10	50	12.5	5	32	184.9	50	75	191.5	64.6	4	405	176 940 CRHNC-63
80	12	63	15	6	41	209.9	63	93	215.5	81.6	4	820	176 941 CRHNC-80
100	14.5	71	17.5	6	41	220.1	75	110	229.6	85.5	4	1000	176 942 CRHNC-100

1) Corrosion resistance class 4 according to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

Flange mounting CRFNG

Material:
High-alloy steel
Copper, PTFE and silicone-free



Dimensions and ordering data										
For Ø	E	FB Ø	MF	R	TF	UF	W	ZF	CRC ¹⁾	Weight [g]
[mm]										
32	45	7	10	32	64	80	16	130	4	240
40	54	9	10	36	72	90	20	145	4	300
50	65	9	12	45	90	110	25	155	4	550
63	75	9	12	50	100	120	25	170	4	710
80	93	12	16	63	126	150	30	190	4	1680
100	110	14	16	75	150	175	35	205	4	2450

1) Corrosion resistance class 4 according to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

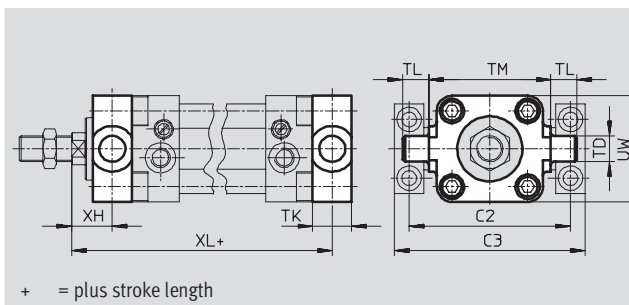
Standard cylinders CDN, ISO 15552, Clean Design

Accessories

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Trunnion flange CRZNG

Material:
High-alloy steel
Copper, PTFE and silicone-free

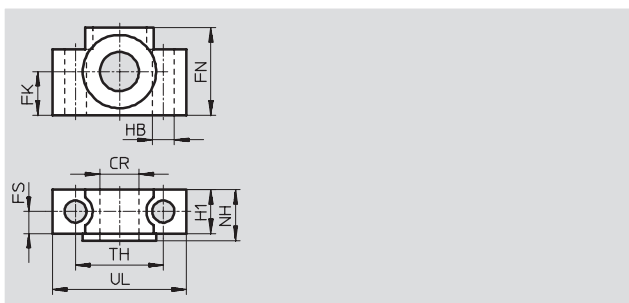
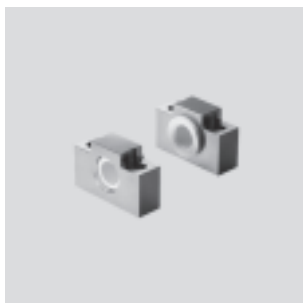


Dimensions and ordering data												
For Ø	C2	C3	TD Ø e9	TK	TL	TM	UW	XH	XL	CRC ¹⁾	Weight	Part No. Type
[mm]											[g]	
32	71	86	12	16	12	50	50	18	128	4	150	161 852 CRZNG-32
40	87	105	16	20	16	63	55	20	145	4	260	161 853 CRZNG-40
50	99	117	16	24	16	75	65	25	155	4	430	161 854 CRZNG-50
63	116	136	20	24	20	90	75	25	170	4	640	161 855 CRZNG-63
80	136	156	20	28	20	110	100	32	188	4	1300	161 856 CRZNG-80
100	164	189	25	38	25	132	120	32	208	4	2400	161 857 CRZNG-100

- 1) Corrosion resistance class 4 according to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

Trunnion support CRLNZG

Material:
High-alloy steel
Copper, PTFE and silicone-free



Dimensions and ordering data												
For Ø	CR	FK	FN	FS	H1	HB Ø H13	NH	TH	UL	CRC ¹⁾	Weight	Part No. Type
[mm]	Ø D11	Ø ±0.1						±0.2			[g]	
32	12	15	30	10.5	15	6.6	18	32	46	4	200	161 874 CRLNZG-32
40, 50	16	18	36	12	18	9	21	36	55	4	330	161 875 CRLNZG-40/50
63, 80	20	20	40	13	20	11	23	42	65	4	440	161 876 CRLNZG-63/80
100	25	25	50	16	24.5	14	28.5	50	75	4	740	161 877 CRLNZG-100

- 1) Corrosion resistance class 4 according to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

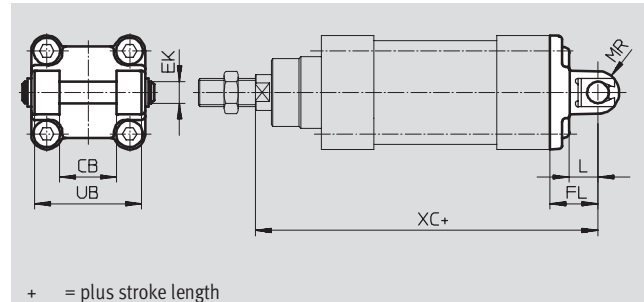
Standard cylinders CDN, ISO 15552, Clean Design

FESTO

Accessories

Swivel flange SNCB- ... R3

Material:
Die-cast aluminium,
protective coating
Copper, PTFE and silicone-free

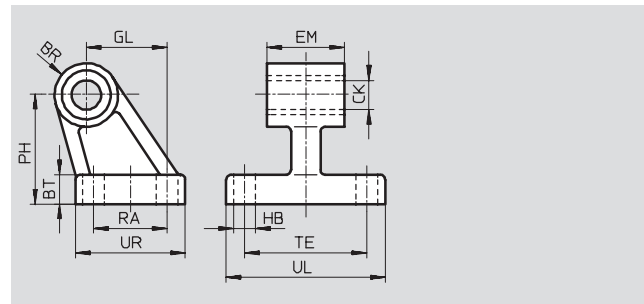


Dimensions and ordering data											
For Ø	CB	EK Ø	FL	L	MR	UB	XC	CRC ¹⁾	Weight	Part No.	Type
[mm]	H14	e8	±0.2						[g]		
32	26	10	22	13	10	45	142	3	100	176 944	SNCB-32-R3
40	28	12	25	16	12	52	160	3	150	176 945	SNCB-40-R3
50	32	12	27	16	12	60	170	3	225	176 946	SNCB-50-R3
63	40	16	32	21	16	70	190	3	365	176 947	SNCB-63-R3
80	50	16	36	22	16	90	210	3	610	176 948	SNCB-80-R3
100	60	20	41	27	20	110	230	3	925	176 949	SNCB-100-R3

1) Corrosion resistance class 3 according to Festo standard 940 070
Components requiring higher corrosion resistance. 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

Clevis foot CRLNG

Material:
High-alloy steel
Copper, PTFE and silicone-free



Dimensions and ordering data														
For Ø	BR	BT	CK Ø	EM	GL	HB Ø	PH	RA	TE	UL	UR	CRC ¹⁾	Weight	Part No. Type
[mm]			D11	-0.4		H13							[g]	
32	10	8	10	25.8	21	6.6	32	18	38	51	31	4	120	161 840 CRLNG-32
40	11	10	12	27.8	24	6.6	36	22	41	54	35	4	160	161 841 CRLNG-40
50	12	12	12	31.8	33	9	45	30	50	65	45	4	280	161 842 CRLNG-50
63	15	12	16	39.8	37	9	50	35	52	67	50	4	375	161 843 CRLNG-63
80	15	14	16	49.8	47	11	63	40	66	86	60	4	580	161 844 CRLNG-80
100	19	15	20	59.8	55	11	71	50	76	96	70	4	935	161 845 CRLNG-100

1) Corrosion resistance class 4 according to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

Standard cylinders CDN, ISO 15552, Clean Design

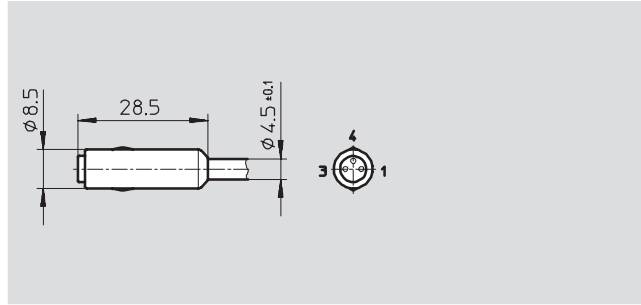
Accessories

FESTO

Plug socket with cable

SIM-K-GD- ... -CDN

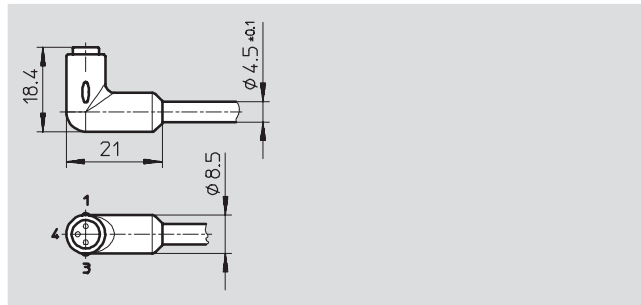
Straight connection



Plug socket with cable

SIM-K-WD- ... -CDN

Angled connection



General technical data					
Part No.		525 259		525 260	
Type		SIM-K-GD-2,5-CDN		SIM-K-GD-5-CDN	
525 261		525 262			
SIM-K-WD-2,5-CDN		SIM-K-WD-5-CDN			
Plug socket with cable		Straight connection			Angled connection
Type of mounting		Fits into miniature plug connectors to EN 60 947-5-2			
Electrical connection		Cable, 3-wire			
Core cross-section	[mm ²]	0.25			
Cable length	[m]	2.5	5.0	2.5	5.0
Max. switching current	[A]	2.8			
Max. operating voltage	[V AC]	45			
	[V DC]	70			
Protection class		IP65/IP67			
		IP69K (fully plugged-in)			
Temperature range	[°C]	Fixed cable installation: −40 ... +70			
		Flexible cable installation: −5 ... +70			
Materials		Housing: Polyurethane			
		Contacts: Gold-plated brass			
		Cable sheath: Polyurethane			
Corrosion resistance class CRC ¹⁾		4			

1) Corrosion resistance class 4 according to Festo standard 940 070

Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

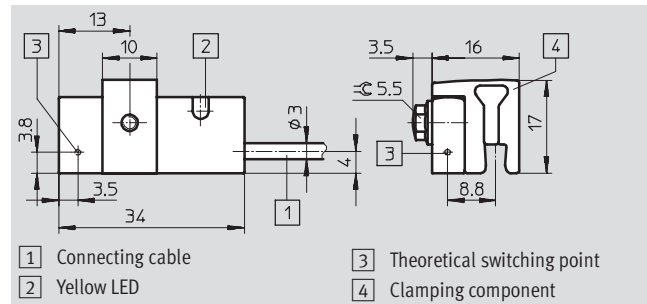
Standard cylinders CDN, ISO 15552, Clean Design

FESTO

Accessories

Proximity sensor

SMT-C1- ...



General technical data		
Part No.	540 431	540 432
Type	SMT-C1-PS-24V-K2.5-OE	SMT-C1-PS-24V-K5.0-OE
Switching element function	NO contact	
Switch output	PNP	
Measuring method	Absolute	
Electrical connection	Cable, 3-wire	
Measured variable	Position	
Operating voltage range [V DC]	10 ... 30	
Protection class	IP65/IP67	
Design	Block design	
Type of mounting	Clamped	
Cable length [m]	2.5	5
Materials	Housing Aluminium; high-alloy steel, stainless; polypropylene; polyurethane	
	Cable sheath Polyurethane	
Note on materials	Copper, PTFE and silicone-free; halogen-free	
Product weight [g]	60	
Ambient temperature [°C]	-20 ... +70	
Corrosion resistance class CRC ¹⁾	3	

1) Corrosion resistance class 3 according to Festo standard 940 070
Components requiring higher corrosion resistance. 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

ISO standard cylinders
ISO 15552 (ISO 6431 and VDMA 24562)

1.2

Standard cylinders CDN, ISO 15552, Clean Design

Accessories

FESTO

Ordering data – Piston rod attachments				Datenblätter → 1 / 10.3-5			
	For Ø	Part No.	Type		For Ø	Part No.	Type
Rod eye CRSGS				Rod clevis CRSG			
	32	195 582	CRSGS-M10x1.25		32	13 569	CRSG-M10x1.25
	40	195 583	CRSGS-M12x1.25		40	13 570	CRSG-M12x1.25
	50, 63	195 584	CRSGS-M16x1.5		50, 63	13 571	CRSG-M16x1.5
	80, 100	195 585	CRSGS-M20x1.5		80, 100	13 572	CRSG-M20x1.5

Ordering data – Push-in fitting						Datenblätter → Volume 3	
	Connection		Material	Weight [g]	Part No.	Type	PU ²⁾
	Thread	For push-in fitting					
	G1/8	QS-F, Quick Star	Nickel and chrome plated brass	8	193 408	QS-F-G1/8-4 ¹⁾	10
	G1/8			12	193 409	QS-F-G1/8-6 ¹⁾	10
	G1/8			14	193 410	QS-F-G1/8-8 ¹⁾	10
	G1/4			16	193 411	QS-F-G1/4-6 ¹⁾	10
	G1/4			16	193 412	QS-F-G1/4-8 ¹⁾	10
	G1/4			22	193 413	QS-F-G1/4-10 ¹⁾	10
	G3/8			20	193 414	QS-F-G3/8-8 ¹⁾	10
	G3/8			30	193 415	QS-F-G3/8-10 ¹⁾	10
	G3/8			38	193 487	QS-F-G3/8-12 ¹⁾	10
	G1/2			42	193 416	QS-F-G1/2-10 ¹⁾	10
	G1/2			46	193 417	QS-F-G1/2-12 ¹⁾	10

- 1) With sealing ring
2) Packaging unit quantity

Ordering data – One-way flow control valves					Datenblätter → Volume 2	
	Connection		Material	Weight [g]	Part No.	Type
	Thread	For push-in fitting				
	G1/8	CRQS/CRQSL/CRQST, Quick Star	Electrolytically polished stainless steel casting	44	161 404	CRGRLA-1/8-B
	G1/4			83	161 405	CRGRLA-1/4-B
	G3/8			150	161 406	CRGRLA-3/8-B
	G1/2			315	161 407	CRGRLA-1/2-B

Ordering data – Hexagon head screws, corrosion resistant					
	For Ø	Material	Weight [g]	Part No.	Type
	32	High-alloy steel	3	650 120	CR-M6x12-DIN6921-A2-70
	40				
	50		6	650 121	CR-M8x16-DIN6921-A2-70
	63				
	80		13	650 122	CR-M10x16-DIN6921-A2-70
	100				

Ordering data – Plastic tubing, standard O.D.			Datenblätter → Volume 3	
			Type	
	Good resistance to chemicals and hydrolysis		PLN	
	Pneumatic tubing with resistance to high temperatures and chemicals		PFAN	