

Compact cylinders CDC, ISO 21287, Clean Design

FESTO



- Corrosion-resistant in harsh environmental conditions
- Easy to clean design
- Resistant to conventional cleaning agents
- Comprehensive range of accessories



Compact cylinders CDC, ISO 21287, Clean Design

Key features

Design

- With the CDC (Clean Design Compact) cylinder series, the ADN modular system has been expanded to include an easy to clean compact cylinder variant
- It is based on ISO 21287 for compact cylinders and, like the compact cylinder ADN, features short strokes and a compact design
- The compact cylinder CDC is designed as a double-acting pneumatic cylinder with piston, piston rod and profile barrel

Easy to clean

- Clean Design means smooth surfaces without slots and edges, which means fewer places where dirt can collect
- For hygiene reasons, the threads on the cylinder caps should be sealed with suitable blanking screws
- Resistant to conventional cleaning agents
- Increased corrosion protection

Easy to assemble

- Comprehensive range of mounting accessories for just about every type of installation
- Contactless position sensing via proximity sensors

Versatile

- The variants can be configured according to individual needs thanks to the modular product system
- Greater flexibility thanks to the wide range of variants

Variants

CDC-...

- Ø 20, 25 mm
- Without position sensing

CDC-...-A...-R

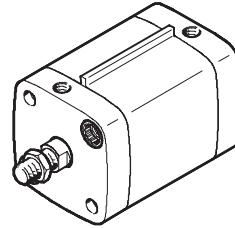
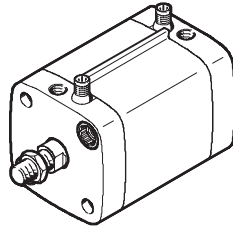
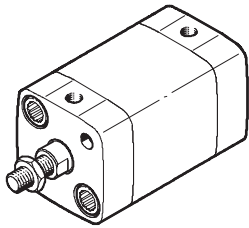
- Ø 32 ... 80 mm
- With position sensing integrated in the end positions

CDC-...-A-R

- Ø 32 ... 80 mm
- With sensor mounting rail for external position sensing

 Note

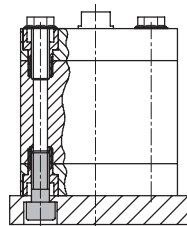
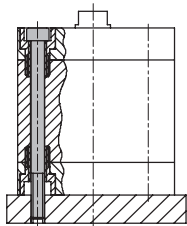
A combination of integrated and external position sensing is possible.



Mounting options

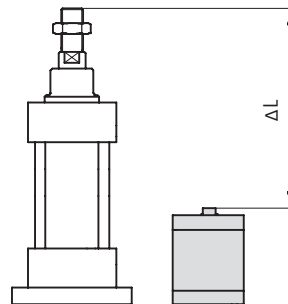
With through screws

Direct mounting



Size

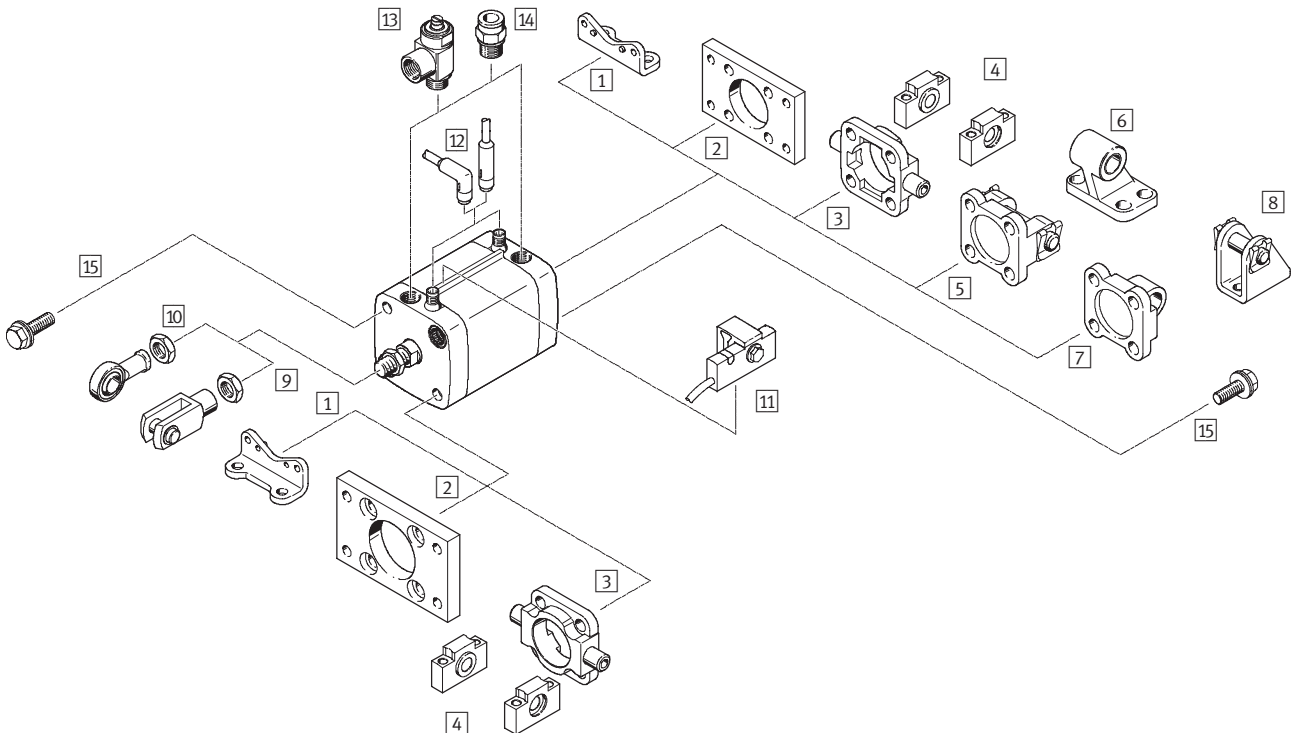
Space savings of up to 50% compared with cylinders to standard ISO 15552



Compact cylinders CDC, ISO 21287, Clean Design

Peripherals overview

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Mounting attachments and accessories		
	Brief description	→ Page
1	Foot mounting HNA- ... -R3	1 / 1.4-98
2	Flange mounting CRFNG	1 / 1.4-98
3	Trunnion flange CRZNG	1 / 1.4-99
4	Trunnion supports CRLNZG	1 / 1.4-99
5	Swivel flange SNCB- ... -R3	1 / 1.4-100
6	Clevis foot mounting CRLNG	1 / 1.4-100
7	Swivel flange SNCL- ... -R3	1 / 1.4-101
8	Clevis foot mounting CRLBN	1 / 1.4-101
9	Rod clevis CRSG	1 / 1.4-105
10	Rod eye CRSGS	1 / 1.4-105
11	Proximity sensor SMT-C1	1 / 1.4-102
12	Cable with socket SIM-K- ... -CDN	1 / 1.4-103
13	One-way flow control valve CRGRLA	1 / 1.4-104
14	Push-in fittings QS-F/QSL-F/CRQS/CRQSL	1 / 1.4-104
15	Blanking screws DAMD-P- ...	1 / 1.4-105

Compact cylinders CDC, ISO 21287, Clean Design

Type codes

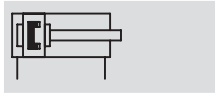
		CDC	-	32	-	50	-	A	-	P	-	AIB	-	SME	-	R	-	K2	
Type																			
Double-acting																			
CDC	Compact cylinder, Clean Design																		
Piston Ø [mm]																			
Stroke [mm]																			
Piston rod thread																			
A	Male thread																		
I	Female thread																		
Cushioning																			
P	Flexible cushioning rings/pads at both ends																		
Position sensing																			
A	For proximity sensor																		
AIB	At both ends, integrated																		
AIV	Front, integrated																		
AIH	Rear, integrated																		
Proximity sensor																			
SME	Contacting (magnetic reed)																		
SMT	Contactless (magneto-resistive)																		
Sensor mounting rail																			
R	For external position sensing (only with Ø 32 ... 80 mm)																		
Variant																			
S2	Through piston rod																		
K2	Extended male piston rod thread																		
K5	Piston rod with special thread																		
K8	Extended piston rod																		
S6	Heat-resistant seals for temperatures up to 120 °C																		

Compact cylinders CDC, ISO 21287, Clean Design

Technical data

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Function



Ø - Diameter
20 ... 80 mm

- | - Stroke length
1 ... 500 mm

 www.festo.com/en/Spare_parts_service

Variants



S2



K2



K5



K8



S6



CDC-...-A-P



CDC-...-A-P-R

General technical data							
Piston Ø	20	25	32	40	50	63	80
Pneumatic connection	M5	M5	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{8}$
Piston rod thread	M8	M8	M10x1.25	M10x1.25	M12x1.25	M12x1.25	M16x1.5
Design	Piston						
	Piston rod						
	Cylinder barrel						
Cushioning	Flexible cushioning rings/pads at both ends						
Position sensing	A	For proximity sensor					
	AIB	At both ends, built-in					
	AIV	Front, built-in					
	AIH	Rear, built-in					
Type of mounting	Via through-hole						
	With female thread						
	Via accessories						
Mounting position	Any						

Operating and environmental conditions							
Piston Ø	20	25	32	40	50	63	80
Operating medium	Filtered compressed air, lubricated or unlubricated						
Operating pressure	[bar]	0.8 ... 10		0.6 ... 10			
	S2 [bar]	1.2 ... 10		1 ... 10			0.8 ... 10
	S6 [bar]	1 ... 10	0.6 ... 10				
Ambient temperature ¹⁾	[°C]	-20 ... +80					
	S6 [°C]	0 ... +120					
Corrosion resistance class CRC ²⁾	3						

1) Note operating range of proximity sensors

2) Corrosion resistance class 3 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

Compact cylinders CDC, ISO 21287, Clean Design

Technical data

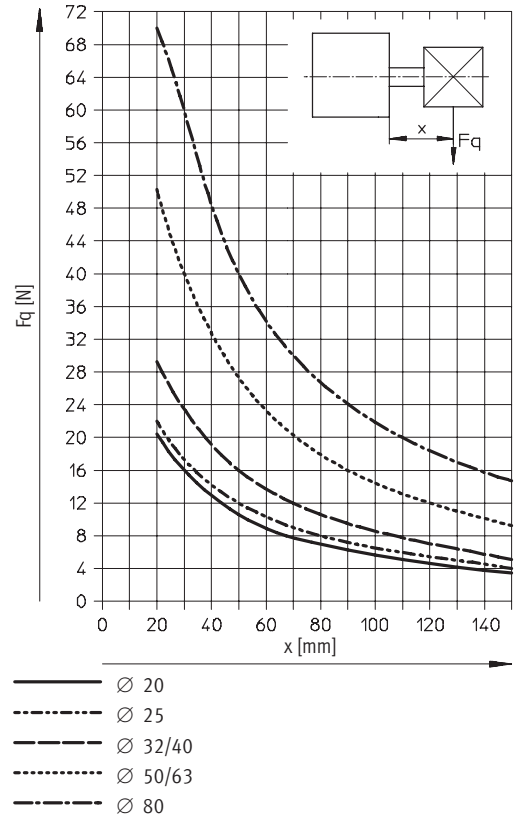
Forces [N] and impact energy [J]							
Piston Ø	20	25	32	40	50	63	80
Theoretical force at 6 bar, advancing	188	295	483	754	1,178	1,870	3,016
Theoretical force at 6 bar, retracting	141	247	415	686	1,057	1,750	2,827
Max. impact energy at the end positions		0.2	0.3	0.4	0.7	1	1.3
	S6	0.1	0.15	0.2	0.35	0.5	0.9

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

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

- Note
 This data represents the maximum values that can be achieved. Values fluctuate in practice relative to the size of the effective load. Allowance must also be made for the limits of the cushioning capacity of the drive and the permissible impact energy.

Max. lateral force Fq as a function of projection X



ISO standard cylinders
ISO 21287
1.4

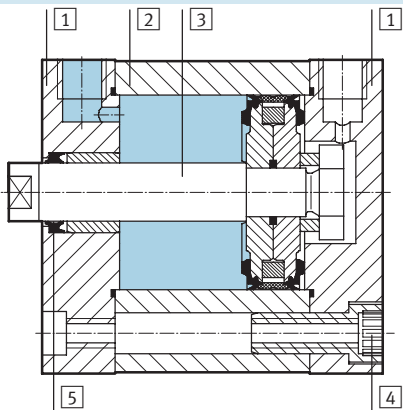
Compact cylinders CDC, ISO 21287, Clean Design

Technical data

Weights [g]							
Piston Ø	20	25	32	40	50	63	80
Basic version							
Product weight with 0 mm stroke	133	170	277	377	567	790	1,475
Additional weight per 10 mm stroke	20	23	31	35	52	59	84
Moving load with 0 mm stroke	24	33	53	82	128	177	367
Additional load per 10 mm stroke	6	6	9	9	16	16	25
S2 – Through piston rod							
Product weight with 0 mm stroke	150	183	296	386	600	827	1,507
Additional weight per 10 mm stroke	26	29	40	44	67	74	109
Moving load with 0 mm stroke	34	40	64	81	144	195	367
Additional load per 10 mm stroke	12	12	18	18	32	32	49

Materials

Sectional view



Compact cylinder	Basic version	S6
1 End cap	Anodised aluminium	
2 Cylinder barrel	Anodised aluminium	
3 Piston rod	High-alloy steel	
4 Flange screws	Corrosion-resistant steel	
- Seals	Polyurethane, nitrile rubber	Fluorocarbon rubber
- Note on materials	Free of copper and PTFE	

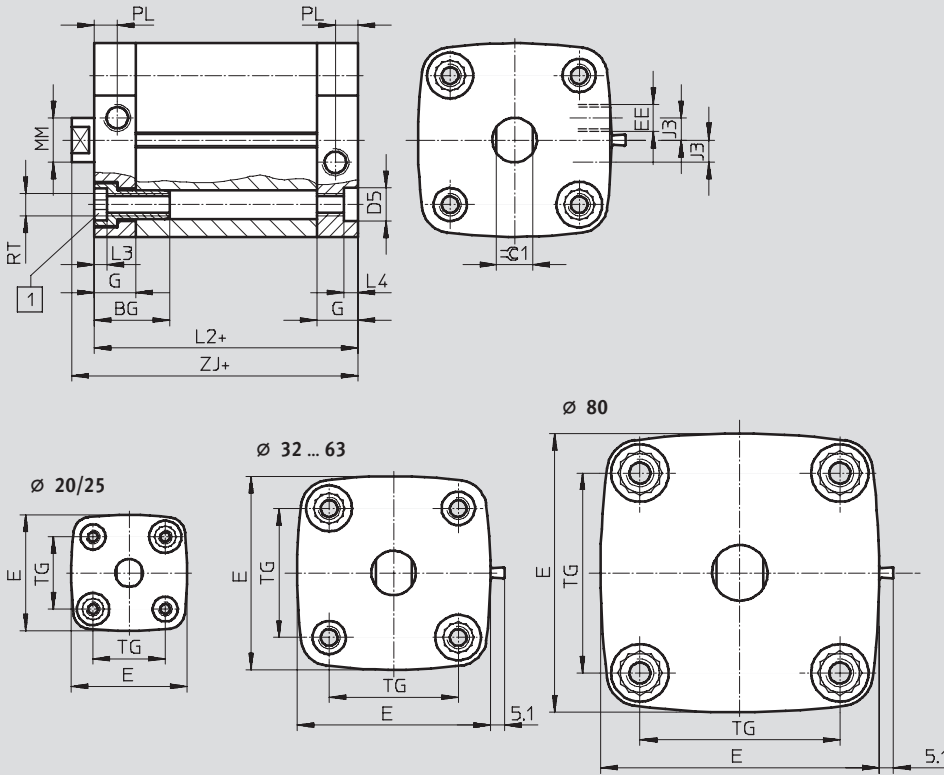
Compact cylinders CDC, ISO 21287, Clean Design

Technical data

Dimensions

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

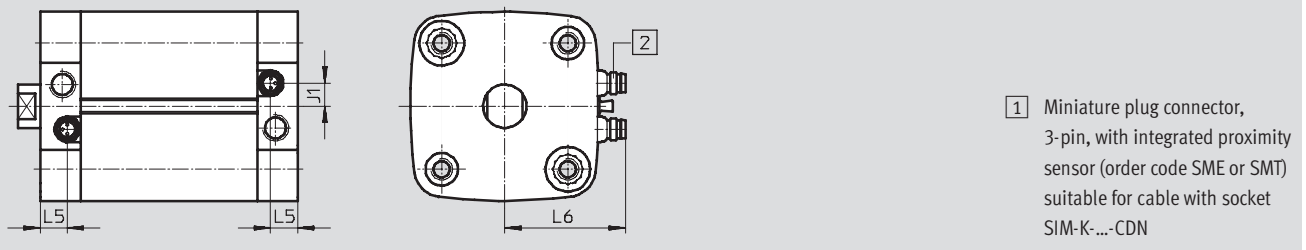
Basic version



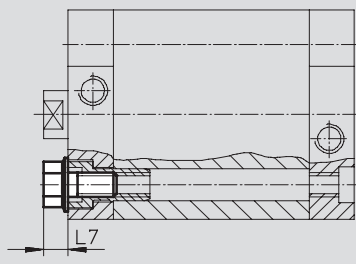
ISO standard cylinders
ISO 21287

1.4

With position sensing integrated in the end positions



Projection of blanking screw




Compact cylinders CDC, ISO 21287, Clean Design

Technical data

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∅ [mm]	BG	D5 F9	E	EE	G	J1 ±0.1	J3 ±0.1	L2	L3	L4
20	19.5	9	36.8	M5	12	-	-	37	4.4	5
25			41.8					39		
32	26		49.8	G1/8	15	5.8	7	44		
40		57.8	8			8	45			
50	27	69.7	8.5				49			
63		81.3	12				54			
80		-	100.4			16.5	15	8	-	

∅ [mm]	L5	L6 ±2	L7	MM ∅ h8	PL ±0.1	RT	TG	ZJ	≈C1 h13
20	-	-	7	10	6	M5	22	42.65	9
25							26	44.65	
32	10	35	8.7	12	8.2	M6	32.5	50.15	10
40		39					38	51.15	
50		45	10.3	16		M8	46.5	53.25	13
63		50					56.5	57.25	
80	11.5	60	11.9	20	M10	72	63	17	

 Note

The following maximum stroke lengths apply in combination with a swivel mounting on the end cap:

∅ [mm]	20	25	32	40	50	63	80
Max. stroke length	50		100			150	

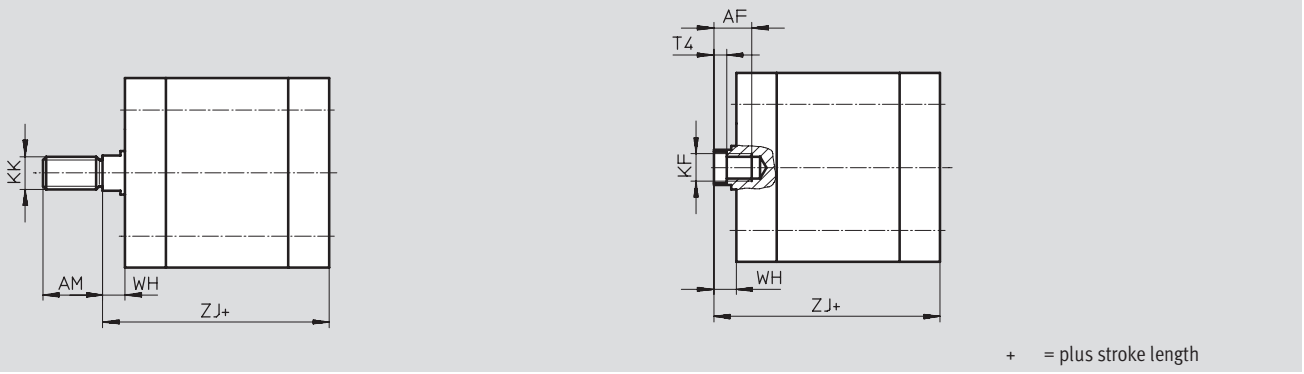
Compact cylinders CDC, ISO 21287, Clean Design

Technical data

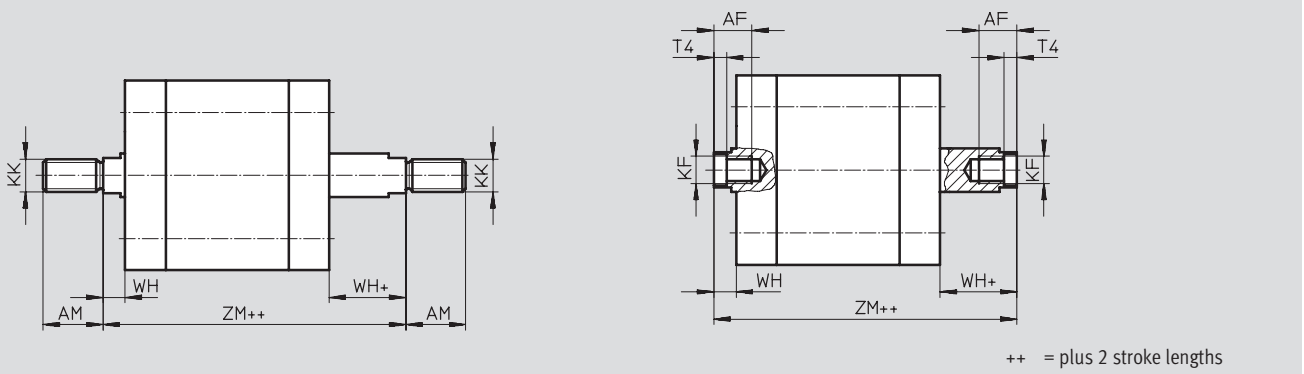
Dimensions – Variants

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

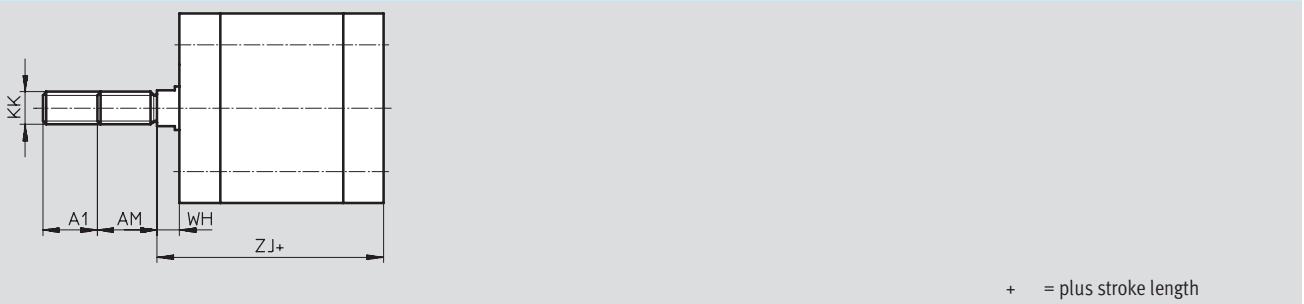
Basic version



S2 – Through piston rod



K2 – Extended male piston rod thread



∅	A1	AF	AM	KF	KK	T4	WH	ZJ	ZM
[mm]		min.	-0.5				+1		
20	1 ... 20	14	16	M6	M8	2.6	5.65	42.65	49.8
25								44.65	51.8
32		16	19	M8	M10x1.25	3.3	6.15	50.15	57.8
40								51.15	58.9
50		20	22	M10	M12x1.25	4.7	8.25	53.25	63.1
63	57.25							66.9	
80	1 ... 30							28	M12

Compact cylinders CDC, ISO 21287, Clean Design

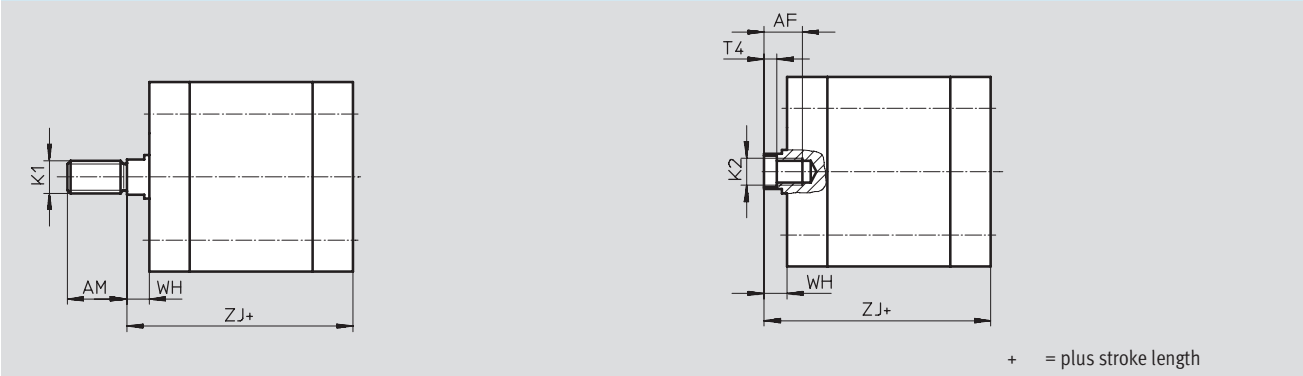
Technical data



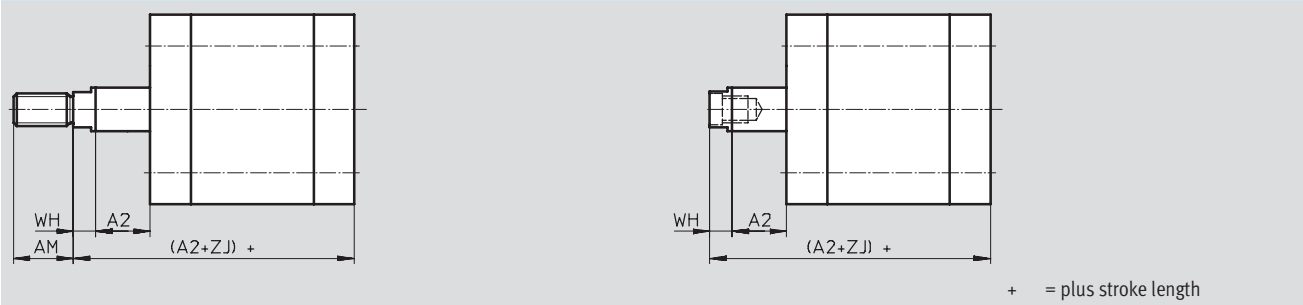
Dimensions – Variants

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

K5 – Special thread on piston rod



K8 – Extended piston rod



∅	AF	A2	AM	K1	K2	T4	WH	ZJ
[mm]	min.		-0.5				+1	
20	14	1 ... 300	16	M10, M10x1.25	M5	2.6	5.65	42.65
25								44.65
32	16	1 ... 400	19	M10, M12	M6	3.3	6.15	50.15
40								51.15
50								53.25
63	20	1 ... 500	22	M12, M12	M8	4.7	8.25	57.25
80								63
			28	M16, M20	M10	6.1	9	

ISO standard cylinders
ISO 21287

1.4

Compact cylinders CDC, ISO 21287, Clean Design

Technical data

**Proximity sensor
magnetic reed**


(order code SME)

Material:

Housing: Polyamide, epoxy resin,
nickel-plated brass

Plug contacts: Gold-plated brass

Free of copper and PTFE

 **Note**
The proximity sensor can only be ordered in combination with the order code AIB, AIV and AIH (integrated position sensing) in the modular product system.



Design	
Constructional design	Integrated
Switching element function	N/O contact
Switch output	Contacting, bipolar
Switching status display	Yellow LED

Technical data – N/O contact		
Measuring principle		Magnetic reed
Electrical connection		Plug, M8x1, 3-pin
Operating voltage range	[V DC]	12 ... 30
	[V AC]	12 ... 30
Max. output current	[mA]	500
Max. switching capacity	[W]	10
Voltage drop	[V]	< 2
Residual current	[mA]	0
Switch-on time	[ms]	0.5
Switch-off time	[ms]	0.5
Reproducibility of switching point	[mm]	±0.1
Protection against short circuit		No
Protection against overloading		No
Protection against polarity reversal		No
Product weight	[g]	2.7
Protection class		IP65, IP67
		IP69K only in combination with SIM-K-...-CDN

Operating and environmental conditions		
Ambient temperature	[°C]	-20 ... +60
Corrosion resistance class CRC ¹⁾		3
CE mark (see declaration of conformity)		In accordance with EU EMC directive

1) Corrosion resistance class 3 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

Compact cylinders CDC, ISO 21287, Clean Design



Technical data

**Proximity sensor
magneto-resistive**
(order code SMT)

Material:

Housing: Polyamide, epoxy resin,
nickel-plated brass

Plug contacts: Gold-plated brass

Free of copper and PTFE

 Note

The proximity sensor can only be ordered in combination with the order code AIB, AIV and AIH (integrated position sensing) in the modular product system.



Design	
Constructional design	Integrated
Switching element function	N/O contact
Switch output	Contacting, bipolar
Switching status display	Yellow LED

Technical data – N/O contact	
Measuring principle	Magneto-resistive
Electrical connection	Plug, M8x1, 3-pin
Operating voltage range	[V DC] 5 ... 30
Max. output current	[mA] 100
Max. switching capacity	[W] 3
Voltage drop	[V] < 2
Residual current	[µA] 10
Switch-on time	[ms] 0.5
Switch-off time	[ms] 0.5
Reproducibility of switching point	[mm] ±0.1
Protection against short circuit	Yes
Protection against overloading	Yes
Protection against polarity reversal	Yes
Product weight	[g] 2.7
Protection class	IP65, IP67
	IP69K only in combination with SIM-K-...-CDN

Operating and environmental conditions	
Ambient temperature	[°C] –20 ... +60
Corrosion resistance class CRC ¹⁾	3
CE mark (see declaration of conformity)	In accordance with EU EMC directive

1) Corrosion resistance class 3 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

Compact cylinders CDC, ISO 21287, Clean Design

Ordering data – Modular products



[M] Mandatory data →

Module No.	Function	Piston Ø	Stroke	Piston rod thread	Cushioning
543 305	CDC	20	1 ... 500	A I	P
543 306		25			
543 307		32			
543 308		40			
543 309		50			
543 310		63			
543 311		80			
Order example					
543 306	CDC	- 25	- 225	- A	- P

Ordering table

Size	20	25	32	40	50	63	80	Condi- tions	Code	Enter code
[M] Module No.	543 305	543 306	543 307	543 308	543 309	543 310	543 311			
Function	Standard cylinder, double-acting, based on ISO 21287 (Clean Design)								CDC	CDC
Piston Ø [mm]	20	25	32	40	50	63	80	-...		
Stroke [mm]	1 ... 300			1 ... 400			1 ... 500		-...	
Piston rod thread	Male thread								-A	
	Female thread								^[1] -I	
Cushioning	Flexible cushioning rings/pads at both ends								-P	-P

^[1] I Not with extended male thread K2

ISO standard cylinders
ISO 21287

1.4

Transfer order code

CDC - - - - **P**

Compact cylinders CDC, ISO 21287, Clean Design

Ordering data – Modular products

→ **0 Options**

Position sensing	Proximity sensor	Sensor mounting rail	Type of piston rod	Male thread extended	Special thread	Piston rod extended	Temperature resistance
A AIB AIV AIH	SME SMT	R	S2	...K2	"... "K5	K8	S6
-	-	-	S2	20K2	"M10"K5	75K8	S6

Ordering table										
Size	20	25	32	40	50	63	80	Condi- tions	Code	Enter code
0 Position sensing	For proximity sensor								-A	
	At both ends, integrated							2	-AIB	
	Front, integrated							2	-AIV	
	Rear, integrated							2	-AIH	
Proximity sensor	SME (contacting)							3	-SME	
	SMT (contactless)							4	-SMT	
Sensor mounting rail	Sensor mounting rail for external position sensing							5	-R	
Type of piston rod	Through piston rod								-S2	
Male thread extended	Extended male piston rod thread									
[mm]	1 ... 20			1 ... 30				-...K2		
Piston rod with special thread	Male thread		M10x1.25		M10		M12		-"... "K5	
	Female thread		M5		M6		M8			
Piston rod extended	Extended piston rod									
	[mm]	1 ... 300		1 ... 400			1 ... 500		6	-...K8
Temperature resistance	Heat-resistant seals for temperatures up to 120 °C							7	-S6	

- 2 **AIB, AIV, AIH** Only with proximity sensor SME, SMT
- 3 **SME** Only with position sensing AIB, AIV, AIH
Minimum stroke 15 mm
- 4 **SMT** Only with position sensing AIB, AIV, AIH
Minimum stroke 10 mm
- 5 **R** Must be selected with size 32, 40, 50, 63, 80
- 6 **K8** The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length
- 7 **S6** Not with position sensing AIB, AIV, AIH

Transfer order code

- [] - [] - [] - [] - [] - [] - [] - []

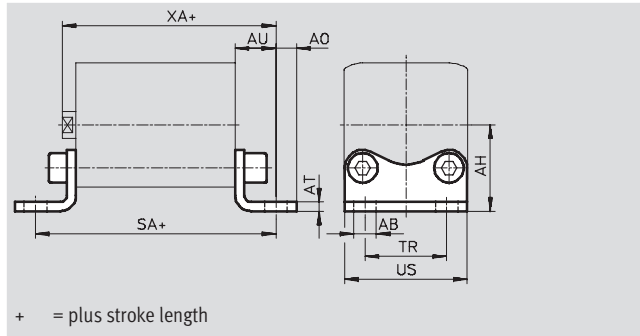
Compact cylinders CDC, ISO 21287, Clean Design

Accessories



Foot mounting HNA...-R3

Material:
Steel with protective coating
Free of copper, PTFE and silicone



Dimensions and ordering data													
For \varnothing	AB \varnothing	AH	AO	AT	AU	SA	TR	US	XA	CRC ¹⁾	Weight	Part No.	Type
[mm]	H14	JS14		± 0.5	± 0.2		± 0.2	-0.5			[g]		
20	7	27	6.25	4	16	69	22	34.5	59	3	50	537 254	HNA-20-R3
25		29				71	26	38.5	61	3	55	537 255	HNA-25-R3
32		33.5				7	76	32	46	66	3	70	537 256
40	10	38	9	5	21	81	36	54	69	3	90	537 257	HNA-40-R3
50		45	8			87	45	64	74	3	160	537 258	HNA-50-R3
63		50	91			50	75	78	3	180	537 259	HNA-63-R3	
80	12	63	10.5	6	26	106	63	63	89	3	380	537 260	HNA-80-R3

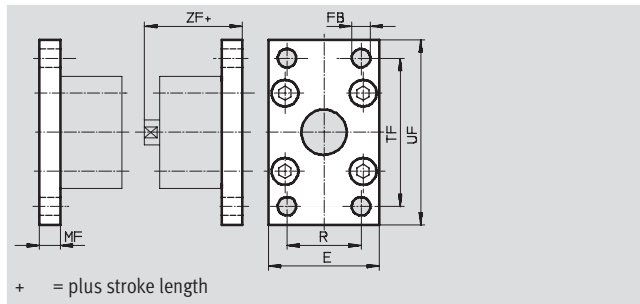
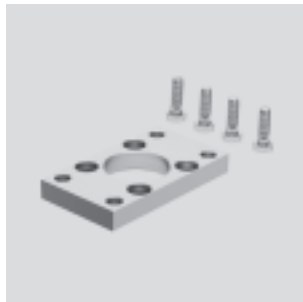
1) Corrosion resistance class 3 to Festo standard 940 070
Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

ISO standard cylinders
ISO 21287

1.4

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	ZF	CRC ¹⁾	Weight	Part No.	Type
[mm]		H13							[g]		
32	45	7	10	32	64	80	54	4	240	161 846	CRFNG-32
40	54	9	10	36	72	90	55	4	300	161 847	CRFNG-40
50	65	9	12	45	90	110	57	4	550	161 848	CRFNG-50
63	75	9	12	50	100	120	61	4	710	161 849	CRFNG-63
80	93	12	16	63	126	150	70	4	1,680	161 850	CRFNG-80

1) Corrosion resistance class 4 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

Compact cylinders CDC, ISO 21287, Clean Design



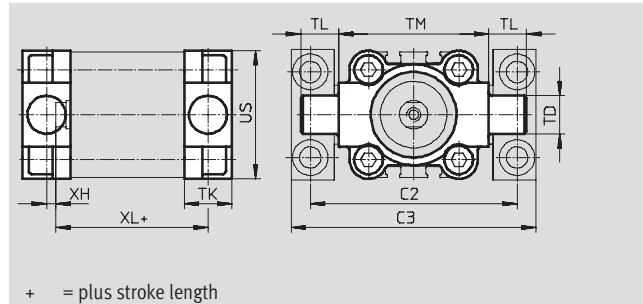
Accessories

Trunnion flange CRZNG

Material:

CRZNG: Electrolytically polished stainless steel casting

Free of copper, PTFE and silicone



Dimensions and ordering data													
For \varnothing	C2	C3	TD \varnothing e9	TK	TL	TM	US	XH	XL	CRC ¹⁾	Weight	Part No.	Type
[mm]													
32	71	86	12	16	12	50	45	2	52	4	150	161 852	CRZNG-32
40	87	105	16	20	16	63	54	4	55	4	260	161 853	CRZNG-40
50	99	117	16	24	16	75	64	4	57	4	430	161 854	CRZNG-50
63	116	136	20	24	20	90	75	4	61	4	640	161 855	CRZNG-63
80	136	156	20	28	20	110	93	5	81	4	1,300	161 856	CRZNG-80

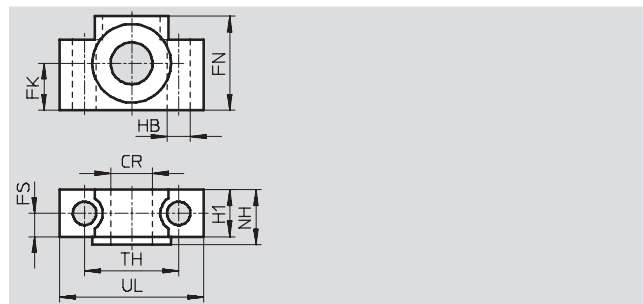
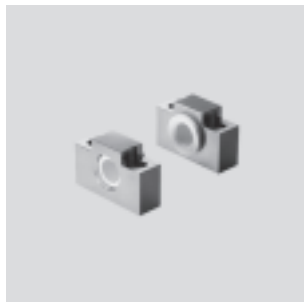
1) Corrosion resistance class 4 to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

Trunnion supports CRLNZG

Material:

High-alloy steel

Free of copper, PTFE and silicone



Dimensions and ordering data													
For \varnothing	CR \varnothing	FK \varnothing	FN	FS	H1	HB \varnothing	NH	TH ± 0.2	UL	CRC ¹⁾	Weight [g]	Part No.	Type
[mm]	D11	± 0.1				H13							
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

1) Corrosion resistance class 4 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

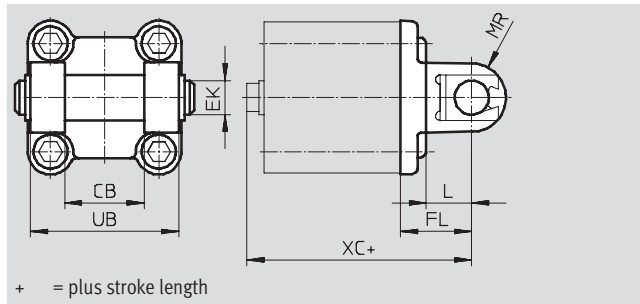
Compact cylinders CDC, ISO 21287, Clean Design

Accessories



Swivel flange SNCB-...-R3

Material:
Die-cast aluminium with protective coating, high corrosion protection
Free of copper, PTFE and silicone

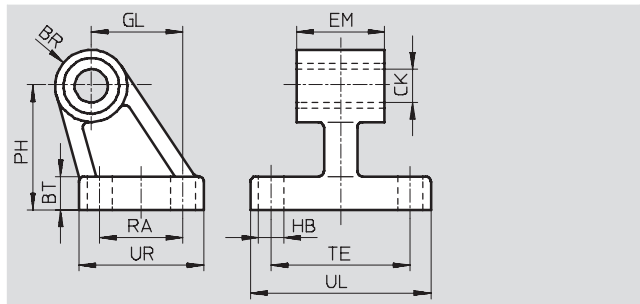


Dimensions and ordering data											
For \varnothing	CB	EK	FL	L	MR	UB	XC	CRC ¹⁾	Weight	Part No.	Type
[mm]	H14	\varnothing e8	± 0.2			h14			[g]		
32	26	10	22	13	10	45	72	3	100	176 944	SNCB-32-R3
40	28	12	25	16	12	52	76	3	150	176 945	SNCB-40-R3
50	32	12	27	16	12	60	80	3	225	176 946	SNCB-50-R3
63	40	16	32	21	16	70	89	3	365	176 947	SNCB-63-R3
80	50	16	36	22	16	90	99	3	610	176 948	SNCB-80-R3

1) Corrosion resistance class 3 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 mounting CRLNG

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



Dimensions and ordering data															
For \varnothing	BR	BT	CK	EM	GL	HB	PH	RA	TE	UL	UR	CRC ¹⁾	Weight	Part No.	Type
[mm]			\varnothing D11	-0.4		\varnothing 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

1) Corrosion resistance class 4 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 21287
1.4

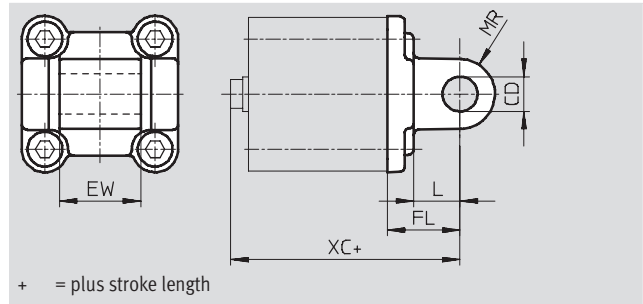
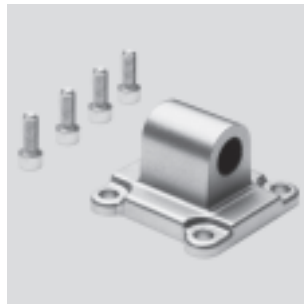
Compact cylinders CDC, ISO 21287, Clean Design



Accessories

Swivel flange SNCL-...-R3

Material:
SNCL-...-R3: Die-cast aluminium with protective coating
Free of copper, PTFE and silicone

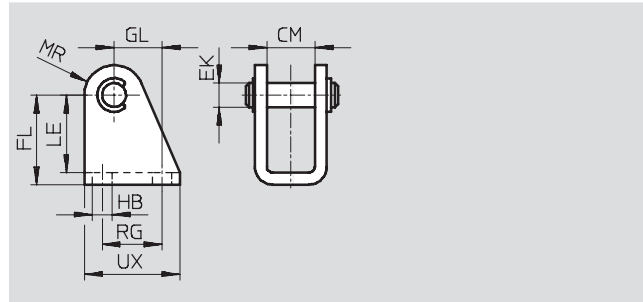


Dimensions and ordering data											
For \varnothing	CD	EW	FL	L	MR	XC	CRC ¹⁾	Weight	Part No.	Type	
[mm]	\varnothing H9	h12	± 0.2					[g]			
20	8	16	20	14	8	63	3	40	537 796	SNCL-20-R3	
25						65	3	45	537 797	SNCL-25-R3	

1) Corrosion resistance class 3 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 mounting CRLBN, stainless steel

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



Dimensions and ordering data													
For \varnothing	CM	EK	FL	GL	HB	LE	MR	RG	UX	CRC ¹⁾	Weight	Part No.	Type
[mm]		\varnothing									[g]		
20/25	16.1	8	30 +0.4/-0.2	16	6.6	26	10	20	32	4	62	161 863	CRLBN-20/25

1) Corrosion resistance class 4 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

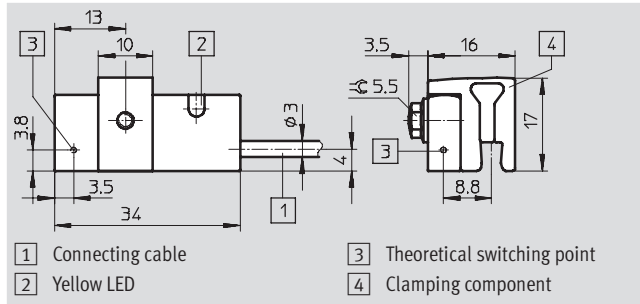
Compact cylinders CDC, ISO 21287, Clean Design



Accessories

Proximity sensor SMT-C1

Material:
Aluminium, high-alloy steel, stainless,
polypropylene, polyurethane
Free of copper, PTFE and silicone,
halogen-free



Design	
Constructional design	Block-shaped
Type of mounting	Clamped
Connection direction	In-line
Switching status display	Yellow LED

Technical data – PNP, N/O contact	
Measuring principle	Inductive
Method of measurement	Absolute
Electrical connection	Cable, 3-wire
Cable length	[m] 5.0
Operating voltage range	[V DC] 10 ... 30
Max. output current	[mA] 200
Max. switching capacity DC	[W] 6.0
Voltage drop	[V] < 1.8
Residual current	[mA] < 0.1
Switch-on time	[ms] ≤ 0.5
Switch-off time	[ms] ≤ 0.5
Hysteresis	[mm] ≤ 2.0
Protection against short circuit	Yes
Protection against polarity reversal	For all electrical connections
Inductive protective circuit	Adapted to MZ, MY, ME coils
Protection against overloading	Yes
Product weight	[g] 60
Protection class	IP65, IP67
Conforms to	DIN EN 60 947-5-2

Operating and environmental conditions		
Cable installation	Fixed	Flexible
Ambient temperature	[°C] -20 ... +70	-20 ... +70
Corrosion resistance class CRC ¹⁾	3	
CE mark (see declaration of conformity)	In accordance with EU EMC directive	

1) Corrosion resistance class 3 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

Ordering data		
Cable length	Part No.	Type
[m] 2.5	540 431	SMT-C1-PS-24V-2,5-OE
5.0	540 432	SMT-C1-PS-24V-5,0-OE

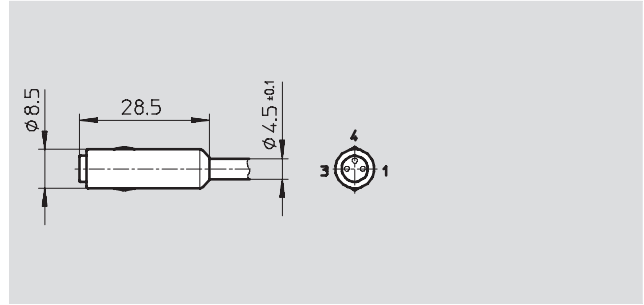
ISO standard cylinders
ISO 21287
1.4

Compact cylinders CDC, ISO 21287, Clean Design

Accessories

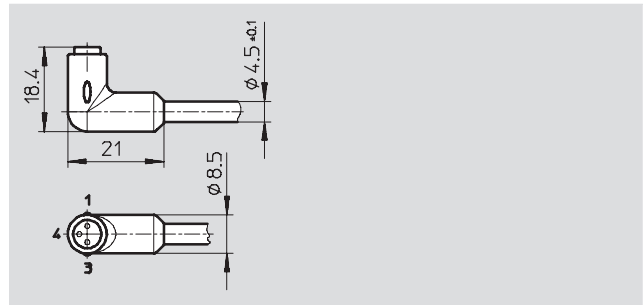
Cable with socket SIM-K-GD- ... -CDN

Material: Polyurethane, suitable for foodstuffs, resistant to cleaning and disinfecting agents to DIN 11483



Cable with socket SIM-K-WD- ... -CDN

Material: Polyurethane, suitable for foodstuffs, resistant to cleaning and disinfecting agents to DIN 11483



Technical data			SIM-K-...-2,5-CDN	SIM-K-...-5-CDN
Electrical connection			Clip-on socket, straight or angled, 3-pin	
Operating voltage range	AC	[V]	≤45	
	DC	[V]	≤70	
Current-carrying capacity		[A]	2.8	
Cable length		[m]	2.5	5
Cable composition		[mm ²]	3x 0.25	
Wire ends			Tin-coated	
Protection class			IP65/IP67/IP69	



Operating and environmental conditions			Fixed	Flexible
Cable installation				
Ambient temperature		[°C]	-30 ... +70	-5 ... +70

Ordering data					
Cable length [m]	Part No.	Type		Part No.	Type
		In-line	Lateral		
2.5	525 259	SIM-K-GD-2,5-CDN		525 261	SIM-K-WD-2,5-CDN
5	525 260	SIM-K-GD-5-CDN		525 262	SIM-K-WD-5-CDN



Compact cylinders CDC, ISO 21287, Clean Design

Accessories


FESTO


Ordering data – Push-in fittings						Technical data → Volume 3		
	Connection		Material	Weight [g]	Part No.	Type	PU ³⁾	
	Thread	Tubing O.D.						
With external hex								
	M5	4	Brass, nickel- and chrome-plated	6.1	533 844	QS-F-M5-4 ¹⁾	10	
		6		9.3	533 845	QS-F-M5-6 ¹⁾	10	
	G1/8	4		8	193 408	QS-F-G1/8-4 ¹⁾	10	
		6		12	193 409	QS-F-G1/8-6 ¹⁾	10	
		8		14	193 410	QS-F-G1/8-8 ¹⁾	10	
	M5	4	Stainless steel	6	162 860	CRQS-M5-4 ¹⁾	1	
		6		8.4	162 861	CRQS-M5-6 ¹⁾	1	
	R1/8	6		9.9	162 862	CRQS-1/8-6 ²⁾	1	
		8		13	162 863	CRQS-1/8-8 ²⁾	1	

- 1) With sealing ring
- 2) With PTFE coating
- 3) Packaging unit quantity

Ordering data – Push-in L-fittings						Technical data → Volume 3		
	Connection		Material	Weight [g]	Part No.	Type	PU ³⁾	
	Thread	Tubing O.D.						
With external hex								
	M5	4	Brass, nickel- and chrome-plated	10.1	533 849	QSL-F-M5-4 ¹⁾	10	
		6		14.7	533 850	QSL-F-M5-6 ¹⁾	10	
	G1/8	4		17.6	193 418	QSL-F-G1/8-4 ¹⁾	10	
		6		16	193 419	QSL-F-G1/8-6 ¹⁾	10	
		8		20	193 420	QSL-F-G1/8-8 ¹⁾	10	
	M5	4	Stainless steel	13	162 870	CRQSL-M5-4 ¹⁾	1	
		6		19	162 871	CRQSL-M5-6 ¹⁾	1	
	R1/8	6		20	162 872	CRQSL-1/8-6 ²⁾	1	
		8		27	162 873	CRQSL-1/8-8 ²⁾	1	

- 1) With sealing ring
- 2) With PTFE coating
- 3) Packaging unit quantity

Ordering data – Plastic tubing, standard O.D.			Technical data → Volume 3	
			Type	
	Good resistance to chemicals and hydrolysis		PLN	
	Pneumatic tubing with resistance to high temperatures and chemicals		PFAN	
	Approved for use in the food industry and hydrolysis-resistant		PUN-H	

Ordering data – One-way flow control valves					Technical data → Volume 2	
	Connection		Material	Weight [g]	Part No.	Type
	Thread	For push-in fitting				
	M5	CRQS/CRQSL/CRQST,	Electrolytically polished stainless steel casting	14	161 403	CRGRLA-M5-B
	G1/8	Quick Star		44	161 404	CRGRLA-1/8-B

Compact cylinders CDC, ISO 21287, Clean Design

Accessories



Ordering data – Blanking screws, corrosion-resistant							
	For Ø	Material	CRC ¹⁾	Weight [g]	Part No.	Type	PU ³⁾
	20, 25	High-alloy steel	3	5.5	543 714	DAMD-P-M5-10-R1²⁾	4
	32, 40			9	543 715	DAMD-P-M6-12-R1²⁾	4
	50, 63			17.5	543 716	DAMD-P-M8-16-R1²⁾	4
	80			30	543 717	DAMD-P-M10-16-R1²⁾	4

1) Corrosion resistance class 3 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

2) With sealing ring

3) Packaging unit quantity

Ordering data – Corrosion and acid resistant piston rod attachments				Technical data → 1 / 10.3-2			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
Rod eye CRSGS				Rod clevis CRSG			
	20, 25	195 581	CRSGS-M8		20, 25	13 568	CRSG-M8
	32, 40	195 582	CRSGS-M10x1,25		32, 40	13 569	CRSG-M10x1,25
	50, 63	195 583	CRSGS-M12x1,25		50, 63	13 570	CRSG-M12x1,25
	80	195 584	CRSGS-M16x1,5		80	13 571	CRSG-M16x1,5

- Note
 Piston rod attachments for cylinders with special thread (variant K5)
 → Chapter 10.3