### **FESTO**





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

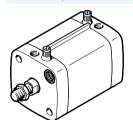
#### Variants

CDC-...

- Ø 20, 25 mm
- Without position sensing



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





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

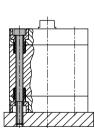


- Note

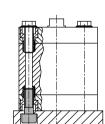
A combination of integrated and external position sensing is possible.



With through screws

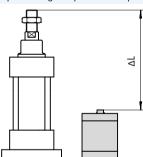


Direct mounting



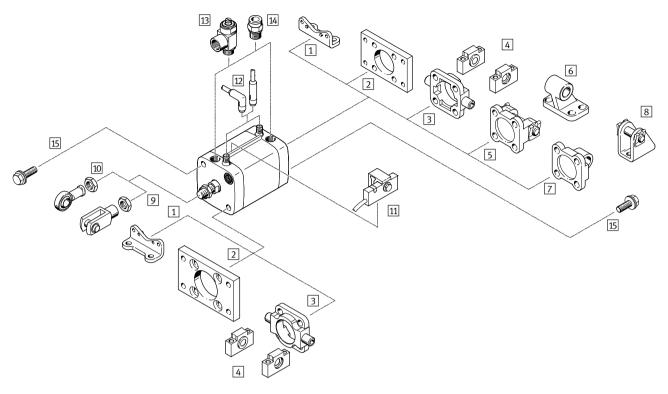
#### Size

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



## Compact cylinders CDC, ISO 21287, Clean Design Peripherals overview

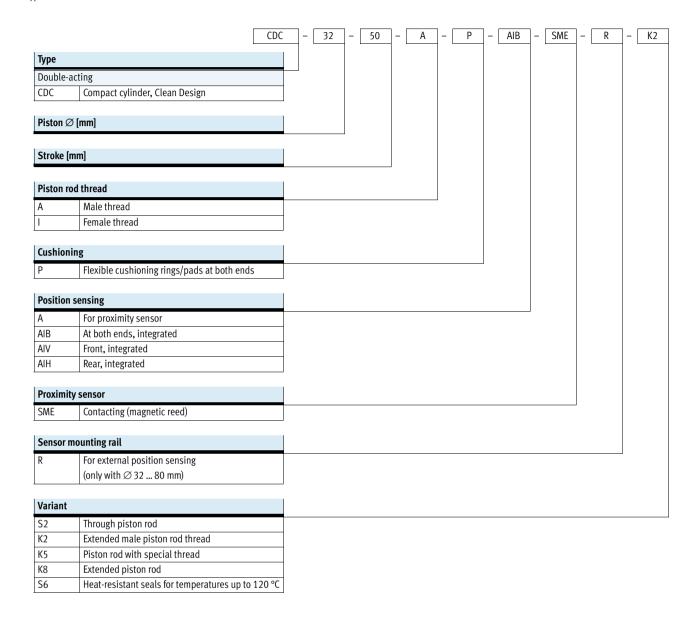




Mounting attac	chments and accessorie	s	
		Description	→ Page/Internet
1 Foot mou	nting	For bearing and end cap	16
HNAR3	3		
2 Flange mo	ounting	For bearing or end cap	17
CRFNG			
3 Trunnion	flange	For bearing or end cap in combination with trunnion supports CRLNZG	18
CRZNG			
4 Trunnion	supports	For trunnion flange CRZNG	18
CRLNZG			
5 Swivel fla	nge	For end cap	19
SNCB	-		
6 Clevis foo	t mounting	For swivel flange SNCBR3	19
CRLNG			
7 Swivel fla	nge	For end cap	20
SNCL	R3		
8 Clevis foo	t mounting	For swivel flange SNCLR3	20
CRLBN			
9 Rod clevis	5	Permits a swivelling movement of the cylinder in one plane	23
CRSG			
10 Rod eye		With spherical bearing	23
CRSGS			
11 Proximity	sensor	For attachment to the sensor mounting rail	21
SMT-C1			
12 Cable wit	h socket	For electrical signal transmission and power supply	21
SIM-K			
13 One-way	flow control valve	For regulating speed	23
CRGRLA			
14 Push-in fi	ttings	For connecting compressed air tubing with standard external diameters	22
NPQH/NP	QH-L/CRQS/CRQSL		
15 Blanking		For covering unused mounting threads	23
DAMD-P-			

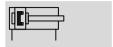


Type code:





#### Function





Stroke length 1 ... 500 mm

www.festo.com





K2

K5

Κ8

**S6** 















General technical data										
Piston Ø		20	25	32	40	50	63	80		
Pneumatic connection		M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8		
Piston rod thread		M8	M8	M10x1.25	M10x1.25	M12x1.25	M12x1.25	M16x1.5		
Design		Piston								
Piston rod										
Cylinder barrel										
Cushioning		Flexible cushi	Flexible cushioning rings/pads at both ends							
Position sensing	А	For proximity sensor								
	AIB	At both ends, built-in								
	AIV	Front, built-in								
	AIH	Rear, built-in								
Type of mounting		Via through-h	Via through-hole							
		With female th	With female thread							
		Via accessorie	es .							
Mounting position		Any								

Operating and en	Operating and environmental conditions										
Piston $\varnothing$			20	25	32	40	50	63	80		
Operating medium Compressed air in accordance with ISO 8573-1:2010 [7:4:4]											
Note on operating	/pilot me	dium	Operation wit	h lubricated medi	um possible (i	n which case lub	ricated operation	will always be req	uired)		
Operating		[bar]	0.8 10		0.6 10	0.6 10					
pressure	S2	[bar]	1.2 10		1 10			0.8 10	)		
	S6	[bar]	1 10	0.6 10							
Ambient		[°C]	-20 +80								
temperature <sup>1)</sup>	S6	[°C]	0 +120	0 +120							
Food safe <sup>2)</sup> See supplementary material information											
Corrosion resistar	nce class (	CRC <sup>3)</sup>	3								

<sup>1)</sup> Note operating range of proximity sensors

Additional information www.festo.com/sp → Certificates.

Corrosion resistance class CRC 3 to Festo standard FN 940070

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



Technical data

Forces [N] and impact energy [J]								
Piston Ø		20	25	32	40	50	63	80
Theoretical force at 6 bar,		188	295	483	754	1178	1870	3016
advancing	S2	141	247	415	686	1057	1750	2827
Theoretical force at 6 bar,		141	247	415	686	1057	1750	2827
retracting								
Max. impact energy		0.2	0.3	0.4	0.7	1	1.3	1.8
at the end positions	S6	0.1	0.15	0.2	0.35	0.5	0.65	0.9

Permissible impact velocity:

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

 V<sub>perm.</sub>
 Permissible impact velocity

 E<sub>perm.</sub>
 Max. impact energy

 m<sub>dead</sub>
 Moving load (drive)

 m<sub>load</sub>
 Moving work load

- 🛊 -

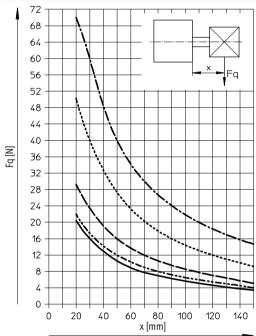
Note

These specifications represent the maximum values which can be reached. Note the maximum permitted impact energy.

 ${\it Maximum\ permissible\ load:}$ 

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

#### Max. lateral force Fq as a function of projection X



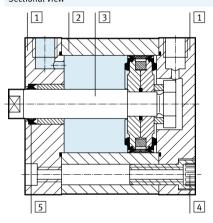
Ø 20 Ø 25 Ø 32/40 Ø 50/63 Ø 80



Weights [g]							
$Piston\varnothing$	20	25	32	40	50	63	80
Basic version							
Product weight with 0 mm stroke	133	170	277	377	567	790	1475
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	1507
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

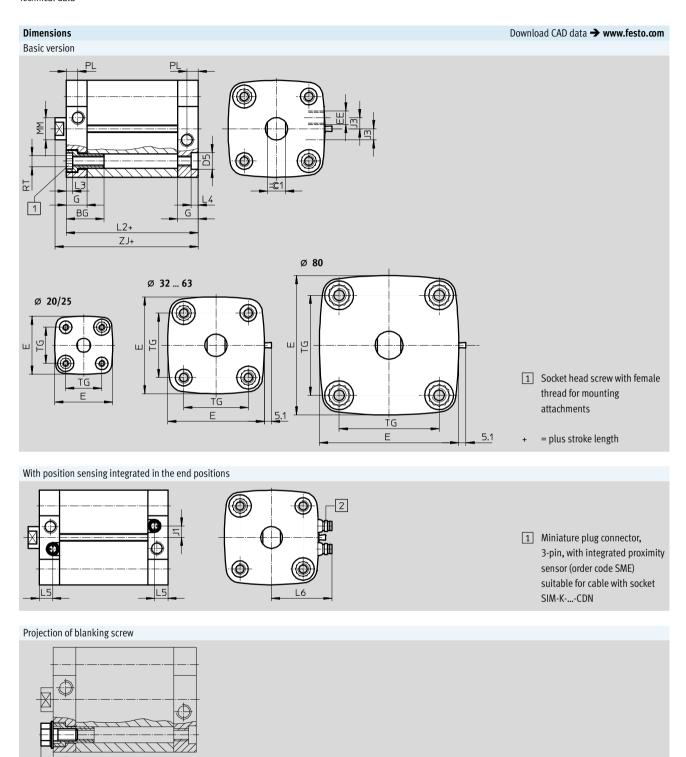
#### Materials

#### Sectional view



Com	pact 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	TPE-U (PUR) media sealing (modified for resistance to	FPM
		hydrolysis and cleaning agents)	
-	Note on materials	Free of copper and PTFE	
		-	Contains PWIS (paint-wetting impairment substances)







Ø	BG	D5	E	EE	G	J1	J3	L2	L3	L4
[mm]		F9				±0.1	±0.1			
20	19.5		36.8	M5	12			37		
25	19.5	9	41.8	INIO	12	_	_	39		
32	26	9	49.8			5.8	7	44	4.4	E
40	20		57.8		15	8		45	4.4	5
50		12	69.7	G1/8	1)	8.5	8	40		
63	27	12	81.3			12	0	49		
80		-	100.4		16.5	15		54	8	-

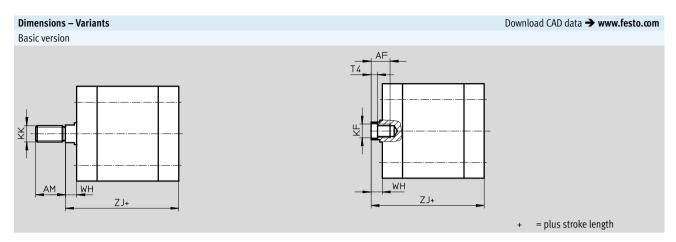
Ø	L5	L6	L7	MM Ø	PL	RT	TG	ZJ	=©1
[mm]		±2		h8	±0.1			+1	h13
20			7	10	6	M5	22	42.7	9
25	_	_	/	10	0	CINI	26	44.7	9
32		35	8.7	12		M6	32.5	50.2	10
40	10	39	0.7	12		IVIO	38	51.2	10
50	10	45	10.3	16	8.2	M8	46.5	53.2	13
63		50	10.5	10		IVIO	56.5	57.2	1)
80	11.5	60	11.9	20		M10	72	63	17

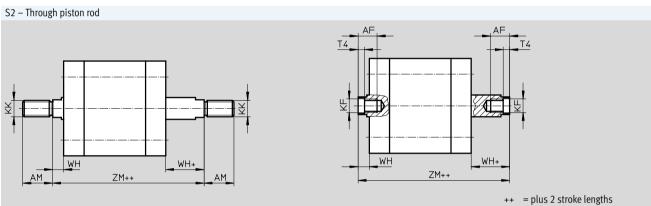


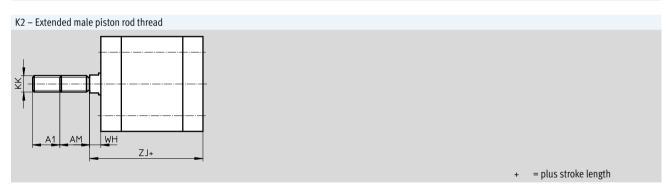
The following maximum stroke lengths apply in combination with a swivel mounting on the end cap:

Ø	20	25	32	40	50	63	80
[mm]							
Max. stroke length	5(	)		10	00		150



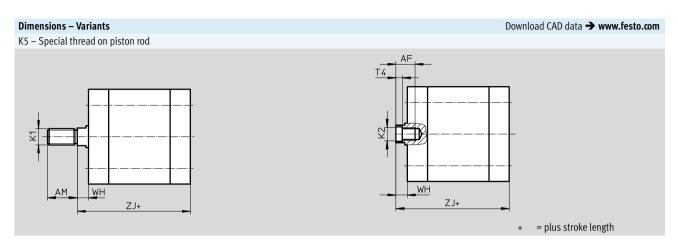


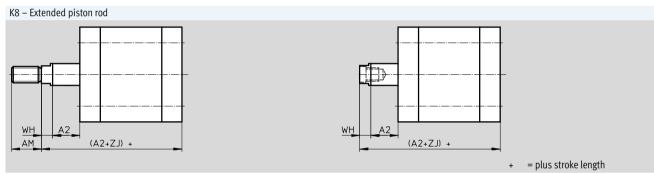




Ø	A1	AF	AM	KF	KK	T4	WH	ZJ	ZM
[mm]		min.	-0.5				+1	+1	
20		14	16	M6	M8	2.6	5.7	42.7	49.8
25		14	10	MIO	IVIO	2.0	5.7	44.7	51.8
32	1 20	16	19	M8	M10x1.25	3.3	6.2	50.2	57.8
40	1 20	10	17	MO	WIOXI.23	3.3	0.2	51.2	58.9
50			22	M10	M12x1.25	4.7	8.2	53.2	63.1
63		20	22	WIO	WIIZXI.ZJ	4.7	0.2	57.2	66.9
80	1 30		28	M12	M16x1.5	6.1	9	63	73.5





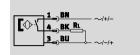


Ø	AF	A2	AM	K1	K2	T4	WH	ZJ
[mm]	min.		-0.5				+1	+1
20	14	1 300	16	M10, M10x1.25	M5	2.6	5.7	42.7
25	14	1 500	10	W10, W10X1.23	NI S	2.0	5.7	44.7
32	16		19	M10, M12	M6	3.3	6.2	50.2
40	10	1 400	17	W10, W12	WIO	9.9	0.2	51.2
50		1 400	22	M12, M12	M8	4.7	8.2	53.2
63	20		22	10112, 10112	IVIO	4./	0.2	57.2
80		1 500	28	M16, M20	M10	6.1	9	63



#### Proximity sensor, magnetic reed

(order code SME)





Note

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



Technical data		
General information		
Design		Integrated
Based on standard		EN 60947-5-2
CE mark (see declaration of conformi	ty)	To EU EMC Directive
Note on materials		Free of copper and PTFE
Input signal/measuring element		Turner 1
Measuring principle		Magnetic reed
Ambient temperature	[°C]	-20 +60
Switching output		
Switching output		Contacting, bipolar
Switching element function		N/O contact
Reproducibility of switching point	[mm]	±0.1
Hysteresis	[mm]	1 4, depending on the cylinder used
Switch-on time	[ms]	0.5
Switch-off time	[ms]	0.5
Max. output current	[mA]	500
Max. switching capacity AC	[W]	10 VA
Max. switching capacity DC	[W]	10 W
Inductive protective circuit		Adapted to MZ coil with LED
Residual current	[mA]	0
Output, further data		
Protection against short circuit		No
Protection against overloading		No No
Electronic components		
Operating voltage range	[V AC]	12 30
	[V DC]	12 30
Protection against polarity reversal		No
Electromechanical components		
Electrical connection		Plug, M8x1, 3-pin
Connection direction		Lateral
Information on crimp connector mate	rials	Gold-plated brass
mormation on crimp connector mate	παιο	outa piacca piacca



Technical data							
Mechanical components							
Tightening torque	[Nm]	0.3					
Mounting position		Any					
Product weight	[g]	2.7					
Information on housing materials Polyamide, epoxy resin, nickel-plated brass							
Display/operation							
Switching status display		Yellow LED					
Immissions/emissions							
Degree of protection		IP65, IP67 to EN 60529					
		IP69K, to DIN 40050 Part 9					
		Only in conjunction with plug socket with cable SIM-KCDN					
Corrosion resistance class CRC <sup>1)</sup>		3					

<sup>1)</sup> Corrosion resistance class CRC 3 to Festo standard FN 940070 High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial

### Compact cylinders CDC, ISO 21287, Clean Design Ordering data – Modular products



Ord	dering table										
Siz	e	20	25	32	40	50	63	80	Condi- tions	Code	Enter code
M	Module No.	543305	543306	543307	543308	543309	543310	543311			
	Function	Standard c	ylinder, doul	ole-acting, ba		CDC	CDC				
	Piston Ø [mm	] 20	25	32	40	50	63	80			
	Stroke [mm	] 1 300	300 1 400 1 500								
	Piston rod thread	Male threa	d							-A	
		Female thr	ead						1	-1	
	Cushioning	Flexible cu	shioning ring	s/pads at bo	oth ends					-P	-P
	Position sensing	Without po	sition	_	_	_	_	_			
		sensing									
		-	- For proximity sensor							-A	
		- At both ends, integrated						2	-AIB		
	- Front, integrated						2	-AIV			
Ψ		-	-	Rear, integr	rated				2	-AIH	

1	1 .	Not with extended male thread K2

M	Mandatory data
0	Options

	Transfer order o	od	e						
1			CDC	-	-	-	-	P	

<sup>2</sup> AIB, AIV, AIH Only with proximity sensor SME, SMT

### Compact cylinders CDC, ISO 21287, Clean Design Ordering data – Modular products



Ore	dering table											
Siz	ze		20	20   25   32   40   50   63   80							Code	Enter
										tions		code
0	Proximity sensor		-	-	SME (conta	cting)				3	-SME	
	Sensor mounting	rail	-	-	Sensor mo	unting rail fo	or external po	sition sensi	ng	4	-R	
	Type of piston rod	Type of piston rod Through piston rod								-S2		
	Male thread extended Extended male piston rod thread											
		[mm]	1 20	1 20								
	Piston rod with	Male thread	M10x1.25		M10		M12		M16		-""K5	
	special thread		M10		M12		M16		M20			
		M5		M6		M8		M10				
	Piston rod extende	ed	Extended p	Extended piston rod								
		[mm]	1 300   1 400   1 500							5	K8	
	Temperature resis	tance	Heat-resist	ant seals for	temperature	es up to 120	°C		•	6	-S6	

3 SME	Only with position sensing AIB, AIV, AIH	5 <b>K8</b>	The sum of the stroke length and piston rod extension must not exceed the maximum
	Minimum stroke 15 mm		permissible stroke length
4 R	Must be selected with size 32, 40, 50, 63, 80	6 <b>S6</b>	Not with position sensing AIB, AIV, AIH

M	Mandatory data
0	Ontions

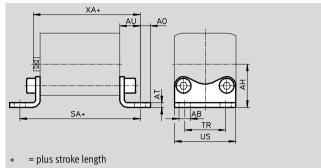
	Transfer order code														
-		-		-		-		- [		-		-		-	



#### Foot mounting HNA-...-R3

Material: Steel with protective coating Free of copper and PTFE RoHS-compliant





Dimension	ns and ordering data						
For Ø	AB	AH	AO	AT	AU	SA	TR
	Ø						
[mm]	H14	JS14		±0.5	±0.2		±0.2
20		27	6.25			69	22
25	7	29	0.23	4	16	71	26
32		33.5	7			76	32
40		38	9		18	81	36
50	10	45	0	Г	21	87	45
63		50	8	)	21	91	50
80	12	63	10.5	6	26	106	63

For Ø	US	XA	CRC <sup>1)</sup>	Weight	Part No.	Туре
[mm]	-0.5			[g]		
20	34.5	59	3	84	537254	HNA-20-R3
25	38.5	61	3	90	537255	HNA-25-R3
32	46	66	3	123	537256	HNA-32-R3
40	54	69	3	157	537257	HNA-40-R3
50	64	74	3	278	537258	HNA-50-R3
63	75	78	3	328	537259	HNA-63-R3
80	93	89	3	634	537260	HNA-80-R3

Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial



Screws with special lengths are required to fit the sizes  $\varnothing$  80 mm

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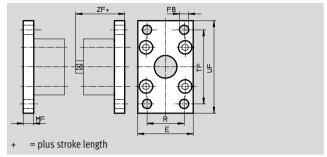


Accessorie

#### Flange mounting CRFNG

Material: High-alloy steel Free of copper and PTFE





Dimension	Dimensions and ordering data													
For Ø	E	FB	MF	R	TF	UF								
		Ø												
[mm]		H13												
32	45	7	10	32	64	80								
40	54	9	10	36	72	90								
50	65	9	12	45	90	110								
63	75	9	12	50	100	120								
80	93	12	16	63	126	150								

Dimension	s and ordering data				
For Ø	ZF	CRC <sup>1)</sup>	Weight	Part No.	Туре
[mm]			[g]		
32	54	4	220	161846	CRFNG-32
40	55	4	291	161847	CRFNG-40
50	57	4	526	161848	CRFNG-50
63	61	4	680	161849	CRFNG-63
80	70	4	1508	161850	CRFNG-80

<sup>1)</sup> Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests ( > also FN 940082) using appropriate media.



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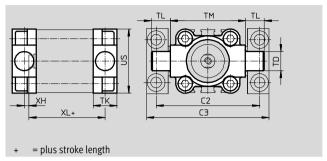


Accessorie

#### Trunnion flange CRZNG

Material: CRZNG: Electrolytically polished special steel casting Free of copper and PTFE ROHS-compliant





Dimensio	Dimensions and ordering data														
For Ø	C2	C3	TD	TK	TL	TM	US	XH	XL	CRC <sup>1)</sup>	Weight	Part No.	Туре		
			Ø												
[mm]			e9												
32	71	86	12	16	12	50	45	2	52	4	150	161852	CRZNG-32		
40	87	105	16	20	16	63	54	4	55	4	285	161853	CRZNG-40		
50	99	117	16	24	16	75	64	4	57	4	473	161854	CRZNG-50		
63	116	136	20	24	20	90	75	4	61	4	687	161855	CRZNG-63		
80	136	156	20	28	20	110	93	5	81	4	1296	161856	CRZNG-80		

<sup>1)</sup> Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (\*\*) also FN 940082) using appropriate media.



Note

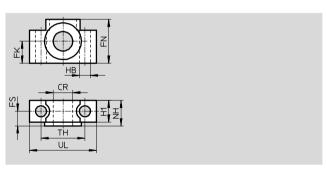
Screws with special lengths are required to fit the sizes  $\varnothing$  80 mm

→ page 23

#### Trunnion supports CRLNZG

Material: High-alloy steel Free of copper and PTFE RoHS-compliant





Dimension	Dimensions and ordering data												
For $\varnothing$	CR	FK	FN	FS	H1	HB	NH	TH	UL	CRC <sup>1)</sup>	Weight	Part No.	Туре
	Ø	Ø				Ø							
[mm]	D11	±0.1				H13		±0.2			[g]		
32	12	15	30	10.5	15	6.6	18	32	46	4	205	161874	CRLNZG-32
40, 50	16	18	36	12	18	9	21	36	55	4	323	161875	CRLNZG-40/50
63,80	20	20	40	13	20	11	23	42	65	4	435	161876	CRLNZG-63/80

<sup>1)</sup> Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (\*\*) also FN 940082) using appropriate media.

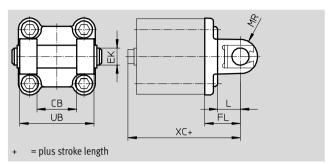


Accessories

#### Swivel flange SNCB-...-R3

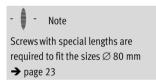
Material: Die-cast aluminium with protective coating, high corrosion protection Free of copper and PTFE RoHS-compliant





Dimension	ns and orderin	ıg data									
For Ø	СВ	EK	FL	L	MR	UB	XC	CRC <sup>1)</sup>	Weight	Part No.	Туре
		Ø									
[mm]	H14	e8	±0.2			h14			[g]		
32	26	10	22	13	8.5	45	72	3	100	176944	SNCB-32-R3
40	28	12	25	16	12	52	76	3	151	176945	SNCB-40-R3
50	32	12	27	16	12	60	80	3	228	176946	SNCB-50-R3
63	40	16	32	21	16	70	89	3	371	176947	SNCB-63-R3
80	50	16	36	22	16	90	99	3	632	176948	SNCB-80-R3

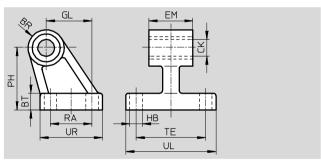
<sup>1)</sup> Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.



#### Clevis foot CRLNG

Material: High-alloy steel Free of copper and PTFE





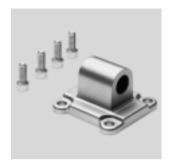
Dimensio	Dimensions and ordering data														
For $\varnothing$	BR	BT	CK	EM	GL	HB	PH	RA	TE	UL	UR	CRC <sup>1)</sup>	Weight	Part No.	Туре
			Ø			Ø									
[mm]			D11	-0.4		H13							[g]		
32	10	8	10	25.8	21	6.6	32	18	38	51	31	4	120	161840	CRLNG-32
40	11	10	12	27.8	24	6.6	36	22	41	54	35	4	161	161841	CRLNG-40
50	12	12	12	31.8	33	9	45	30	50	65	45	4	281	161842	CRLNG-50
63	15	12	16	39.8	37	9	50	35	52	67	50	4	370	161843	CRLNG-63
80	15	14	16	49.8	47	11	63	40	66	86	60	4	562	161844	CRLNG-80

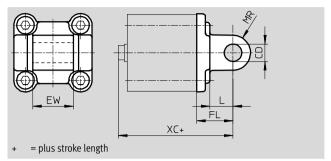
<sup>1)</sup> Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (\*\*) also FN 940082) using appropriate media.



#### Swivel flange SNCL-...-R3

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





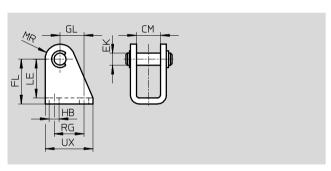
Dimension	s and ordering	data								
For Ø	CD	EW	FL	L	MR	XC	CRC <sup>1)</sup>	Weight	Part No.	Туре
	Ø									
[mm]	H9	h12	±0.2					[g]		
20	Q	16	20	14	Q	63	3	38	537796	SNCL-20-R3
25	U	10	20	14	0	65	3	41	537797	SNCL-25-R3

<sup>1)</sup> Corrosion resistance class CRC 3 to Festo standard FN 940070 High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial

#### Clevis foot CRLBN, stainless steel

Material: High-alloy steel Free of copper and PTFE





Dimension	s and orde	ering data											
For Ø	CM	EK	FL	GL	НВ	LE	MR	RG	UX	CRC <sup>1)</sup>	Weight	Part No.	Type
		Ø											
[mm]											[g]		
20/25	16.1	8	30 +0.4/-0.2	16	6.6	26	10	20	32	4	82	161863	CRLBN-20/25

<sup>1)</sup> Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.



Ordering data – P	Proximity sensors for T-slot, magneto-	resistive				Technical data → Internet: smt
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part No.	Туре
N/O contact						
<u>~</u>	Is mounted on the mounting rail	PNP	Cable, 3-wire	5.0	571339	SMT-C1-PS-24V-K-5,0-OE
			Plug M8x1, 3-pin	0.3	571342	SMT-C1-PS-24V-K-0,3-M8D
			Plug M12x1, 3-pin	0.3	571341	SMT-C1-PS-24V-K-0,3-M12

Ordering data	a – Connecting cables for SMT-C1				Technical data → Internet: nebu
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Туре
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3
SE TOPO CONTRACTOR OF THE PARTY			5	541334	NEBU-M8G3-K-5-LE3
	Straight socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541363	NEBU-M12G5-K-2.5-LE3
			5	541364	NEBU-M12G5-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541338	NEBU-M8W3-K-2.5-LE3
			5	541341	NEBU-M8W3-K-5-LE3
	Angled socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541367	NEBU-M12W5-K-2.5-LE3
			5	541370	NEBU-M12W5-K-5-LE3

Ordering data – C	onnecting cables for integrated proxin	nity sensor			Technical data → Internet: sim
	Electrical connection, left	Electrical connection, right	Cable length	Part No.	Туре
			[m]		
	Angled socket, clip, 3-pin	Cable, open end, 3-wire	5	164254	SIM-K-WD-5-PU



Ordering data	- Push-in fittings					Technical data → Inte	ernet: q
	Connection		Material	Weight [g]	Part No.	Type	PU <sup>3)</sup>
	Thread	Tubing O.D.					
With external I	пех						
	M5	4	Brass, nickel-plated and	-	578334	NPQH-D-M5-Q4-P10	10
		6	chrome-plated	-	578335	NPQH-D-M5-Q6-P10	
-	G1/8	4		6.1	578338	NPQH-D-G18-Q4-P10	
		6		9	578339	NPQH-D-G18-Q6-P10	
		8		11.4	578340	NPQH-D-G18-Q8-P10	
	M5	4	Stainless steel	6	162860	CRQS-M5-4 <sup>1)</sup>	1
		6		8.4	162861	CRQS-M5-6 <sup>1)</sup>	
	R1/8	6		9.9	162862	CRQS-1/8-6 <sup>2)</sup>	
		8		12	162863	CRQS-1/8-8 <sup>2)</sup>	
With internal h	nex						
- 1	M5	4	Brass, nickel-plated and	4.6	578370	NPQH-DK-M5-Q4-P10	10
		6	chrome-plated	8.6	578371	NPQH-DK-M5-Q6-P10	
	G1/8	4		_	578374	NPQH-DK-G18-Q4-P10	
		6		-	578375	NPQH-DK-G18-Q6-P10	
		8		-	578376	NPQH-DK-G18-Q8-P10	

With sealing ring
 With PTFE coating
 Packaging unit quantity

Ordering data	– Push-in L-fitting	gs				Technical data → Inf	ternet: qs
	Connection		Material	Weight [g]	Part No.	Туре	PU <sup>3)</sup>
	Thread	Tubing O.D.					
With external	hex						
<b>A</b>	M5	4	Brass, nickel-plated and	8.8	578276	NPQH-L-M5-Q4-P10	10
		6	chrome-plated	11.9	578277	NPQH-L-M5-Q6-P10	
•	G1/8	4		15.7	578280	NPQH-L-G18-Q4-P10	
		6		18.5	578281	NPQH-L-G18-Q6-P10	
		8		22	578282	NPQH-L-G18-Q8-P10	
68000	M5	4	Stainless steel	12	162870	CRQSL-M5-4 <sup>1)</sup>	1
		6		18	162871	CRQSL-M5-6 <sup>1)</sup>	
	R1/8	6		19	162872	CRQSL-1/8-6 <sup>2)</sup>	
		8		26	162873	CRQSL-1/8-8 <sup>2)</sup>	

With sealing ring
 With PTFE coating
 Packaging unit quantity



Ordering data - P	lastic tubing, standard O.D.	Technical data → Internet: tubing
	Туре	
6	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 – O	Tec	hnical data → Internet: crgrla				
	Connection		Material	Weight [g]	Part No.	Туре
	Thread	For push-in fitting				
(B)	M5	CRQS/CRQSL/CRQST,	Electrolytically polished special	10,2	161403	CRGRLA-M5-B
	G1/8	QS	steel casting	37,8	161404	CRGRLA-1/8-B

Ordering data – Blanking screws, corrosion-resistant									
	For Ø	Material	CRC <sup>1)</sup>	Weight [g]	Part No.	Туре	PU <sup>3)</sup>		
9000	20, 25	High-alloy steel	3	5.5 <b>543714 DAMD-P-M5-10-R1</b>	DAMD-P-M5-10-R1 <sup>2)</sup>	4			
	32, 40			9	543715	DAMD-P-M6-12-R1 <sup>2)</sup>			
	50, 63			17.5	543716	DAMD-P-M8-16-R1 <sup>2)</sup>			
	80			30	543717	DAMD-P-M10-16-R1 <sup>2)</sup>			

<sup>1)</sup> Corrosion resistance class CRC 3 to Festo standard FN 940070 High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial

- environment.
  2) With sealing ring
  3) Packaging unit quantity

Ordering data – Corrosion and acid-resistant piston rod attachments							Technical data → Internet: crsg			
Designation	For Ø	Part No.	Туре		Designation	For Ø	Part No.	Туре		
Rod eye CRSGS					Rod clevis CRSG					
<b>6</b>	20, 25	195581	CRSGS-M8		~~ <b>®</b>	20, 25	13568	CRSG-M8		
	32, 40	195582	CRSGS-M10x1,25			32, 40	13569	CRSG-M10x1,25		
	50, 63	195583	CRSGS-M12x1,25			50, 63	13570	CRSG-M12x1,25		
	80	195584	CRSGS-M16x1,5			80	13571	CRSG-M16x1,5		

Ordering data – Screws									
	For Ø	For accessories	Part No.		PU <sup>1)</sup>				
<b>a</b>	80	HNA-R3, SNCB-R3	372622	DIN912-M10X30-A4-70	1				
THE REAL PROPERTY OF THE PARTY		CRFNG	8028230	DIN912-M10X30-A4-70					
GUITILE		CRZNG	744814	DIN912-M10X40-A4-70					

<sup>1)</sup> Packaging unit quantity