



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

FESTO

• Greater flexibility thanks to the wide range of variants

Variants

- CDC-...
- Ø 20, 25 mm
- Without position sensing





- With position sensing integrated

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

- Ø 32 ... 80 mm

- CDC-...-A-R − ∅ 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



Brief description → Page/Internet [1] Foot mounting HNAR3 For bearing and end cap 18 [2] Flange mounting CRFNG For bearing or end cap 18 [3] Trunnion flange CRZNG For bearing or end cap in combination with trunnion supports CRLNZG 19 [4] Trunnion supports CRLNZG For trunnion flange CRZNG 19 [5] Swivel flange SNCBR3 For end cap 20 [6] Clevis foot mounting CRLNG For end cap 20 [7] Swivel flange SNCLR3 For end cap 21 [8] Clevis foot mounting CRLBN For swivel flange SNCLR3 21 [9] Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane 24 [10] Rod eye CRSGS With spherical bearing CRSGS Per attachment to the sensor mounting rail 22	
Image: Image mounting HNAR3For bearing and end cap18[2] Flange mounting CRFNGFor bearing or end cap18[3] Trunnion flange CRFNGFor bearing or end cap in combination with trunnion supports CRLNZG19[4] Trunnion supports CRLNZGFor trunnion flange CRZNG19[5] Swivel flange SNCBR3For end cap20[6] Clevis foot mounting CRLNGFor end cap20[7] Swivel flange SNCLR3For end cap21[8] Clevis foot mounting CRLNGFor end cap21[9] Rod clevis Permits a swivel flange SNCLR321[9] Rod clevis CRLNGPermits a swivel ing movement of the cylinder in one plane24[10] Rod eye CRSGWith spherical bearing SNCH to the sensor mounting rail22[11] Proximity sensor SMT-C1For attachment to the sensor mounting rail22	Ł
HNAR3For bearing or end cap18[2] Flange mounting CRFNGFor bearing or end cap19[3] Trunnion flange CRZNGFor bearing or end cap in combination with trunnion supports CRLNZG19[4] Trunnion supports CRLNZGFor trunnion flange CRZNG19[5] Swivel flange SNCER3For end cap20[6] Clevis foot mounting CRLNGFor swivel flange SNCBR320[7] Swivel flange SNCLR3For end cap21[8] Clevis foot mounting CRLBNFor swivel flange SNCLR321[9] Rod clevis CRSGPermits a swivelling movement of the cylinder in one plane CRSG24[10] Proximity sensor SMT-C1For attachment to the sensor mounting rail22	
[2] Flange mounting CRFNG For bearing or end cap 18 [3] Trunnion flange CRZNG For bearing or end cap in combination with trunnion supports CRLNZG 19 [4] Trunnion supports CRLNZG For trunnion flange CRZNG 19 [5] Swivel flange SNCBR3 For end cap 20 [6] Clevis foot mounting CRLNG For end cap 20 [7] Swivel flange SNCLR3 For end cap 21 [8] Clevis foot mounting CRLBN For swivel flange SNCLR3 21 [9] Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane 24 [10] Proximity sensor SML-C1 For attachment to the sensor mounting rail 22	
CRFNG For bearing or end cap in combination with trunnion supports CRLNZG 19 (A) Trunnion supports For trunnion flange CRZNG 19 (4) Trunnion supports For trunnion flange CRZNG 19 (5) Swivel flange For end cap 20 (6) Clevis foot mounting For swivel flange SNCBR3 20 (7) Swivel flange For end cap 21 (8) Clevis foot mounting For swivel flange SNCLR3 21 (9) Rod clevis Permits a swivelling movement of the cylinder in one plane 24 (CRSG With spherical bearing 24 (11) Proximity sensor For attachment to the sensor mounting rail 22	
3 Trunnion flange CRZNG For bearing or end cap in combination with trunnion supports CRLNZG 19 4 Trunnion supports CRLNZG For trunnion flange CRZNG 19 5 Swivel flange SNCB R3 For end cap 20 6 Clevis foot mounting CRLNG For swivel flange SNCB R3 20 7 Swivel flange SNCL R3 For end cap 21 8 Clevis foot mounting CRLNN For swivel flange SNCL R3 21 9 Rod clevis CRSG For swivel flange SNCL R3 24 10 Rod eye CRSGS With spherical bearing CRSGS 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
CRZNGFor trunnion flange CRZNG19(A) Trunnion supports CRLNZGFor trunnion flange CRZNG19(5) Swivel flange SNCB R3For end cap20(6) Clevis foot mounting CRLNGFor swivel flange SNCB R320(7) Swivel flange SNCL R3For end cap21(8) Clevis foot mounting CRLBNFor swivel flange SNCL R321(9) Rod clevis CRSGPermits a swivelling movement of the cylinder in one plane24(7) Rod eye CRSGSWith spherical bearing24(11) Proximity sensor SMT-C1For attachment to the sensor mounting rail22	
4 Trunnion supports CRLNZG For trunnion flage CRZNG 19 5 Swivel flange SNCBR3 For end cap 20 6 Clevis foot mounting CRLNG For swivel flange SNCBR3 20 7 Swivel flange SNCLR3 For end cap 21 8 Clevis foot mounting CRLBN For swivel flange SNCLR3 21 9 Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane 24 10 Rod eye CRSGS With spherical bearing 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
CRLNZGFor end cap205Swivel flange SNCB R3For end cap206Clevis foot mounting CRLNGFor swivel flange SNCB R3207Swivel flange SNCL R3For end cap218Clevis foot mounting CRLBNFor swivel flange SNCL R3219Rod clevis CRSGPermits a swivelling movement of the cylinder in one plane2410Rod eye CRSGSWith spherical bearing For attachment to the sensor mounting rail22	
5 Swivel flange SNCBR3 For end cap 20 6 Clevis foot mounting CRLNG For swivel flange SNCBR3 20 7 Swivel flange SNCLR3 For end cap 21 8 Clevis foot mounting CRLBN For swivel flange SNCLR3 21 9 Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane CRSG 24 10 Rod eye CRSGS With spherical bearing CRSGS 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
SNCBR3 For swivel flange SNCBR3 20 CRLNG For end cap 21 SNCLR3 For end cap 21 8 Clevis foot mounting CRLBN For swivel flange SNCL R3 21 9 Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane 24 10 Rod eye CRSGS With spherical bearing 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
6 Clevis foot mounting CRLNG For swivel flange SNCB R3 20 7 Swivel flange SNCL R3 For end cap 21 8 Clevis foot mounting CRLBN For swivel flange SNCL R3 21 9 Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane 24 10 Rod eye CRSGS With spherical bearing CRSGS 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
CRLNG For end cap 21 7 Swivel flange SNCLR3 For end cap 21 8 Clevis foot mounting CRLBN For swivel flange SNCLR3 21 9 Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane 24 10 Rod eye CRSGS With spherical bearing 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
7 Swivel flange SNCLR3 For end cap 21 8 Clevis foot mounting CRLBN For swivel flange SNCLR3 21 9 Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane 24 10 Rod eye CRSGS With spherical bearing 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
SNCLR3 For swivel flange SNCLR3 21 R Clevis foot mounting CRLBN For swivel flange SNCLR3 21 9 Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane 24 10 Rod eye CRSGS With spherical bearing 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
8 Clevis foot mounting CRLBN For swivel flange SNCLR3 21 9 Rod clevis CRSG Permits a swivelling movement of the cylinder in one plane CRSG 24 10 Rod eye CRSGS With spherical bearing CRSGS 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
CRLBN Permits a swivelling movement of the cylinder in one plane 24 9 Rod clevis CRSG With spherical bearing CRSGS 24 10 Rod eye CRSGS With spherical bearing 24 11 Proximity sensor SMT-C1 For attachment to the sensor mounting rail 22	
9 Rod clevis Permits a swivelling movement of the cylinder in one plane 24 10 Rod eye With spherical bearing 24 11 Proximity sensor For attachment to the sensor mounting rail 22 SMT-C1 SMT-C1 24	
CRSG With spherical bearing 24 10 Rod eye With spherical bearing 24 CRSGS For attachment to the sensor mounting rail 22 SMT-C1 SMT-C1 22	
10 Rod eye With spherical bearing 24 CRSGS 11 Proximity sensor For attachment to the sensor mounting rail 22 SMT-C1 22	
CRSGS III Proximity sensor For attachment to the sensor mounting rail 22 SMT-C1 SMT-C1 22	
II Proximity sensor For attachment to the sensor mounting rail 22 SMT-C1 22	
SMT-C1	
12 Cable with socket - For electrical signal transmission and power supply 22	
SIM-K CDN – With food industry approval	
13 One-way flow control valve For regulating speed 24	
CRGRLA	
14 Push-in fittings For connecting compressed air tubing with standard external diameters 23	
QS-F/QSL-F/CRQS/CRQSL	
15 Blanking screws For covering unused mounting threads 24	
DAMD-P	

	CDC	- 32	- 50	– A	– P	– AIB	– SME	- R	- K2
Туре									
Double-	acting								
CDC	Compact cylinder, Clean Design								
D		l							
Piston &	o [mm]								
Stroke [mm]								
Piston r	od thread								
А	Male thread				-				
1	Female thread								
Cushion	ing								
Р	Flexible cushioning rings/pads at both ends					-			
		I							
Position	sensing								
A	For proximity sensor								
AIB	At both ends, integrated								
AIV	Front, Integrated								
AIH	Rear, Integrated								
Proximi	ty sensor								
SME	Contacting (magnetic reed)]	
SMT	Contactless (magneto-resistive)								
		l							
Sensor	mounting rail								
R	For external position sensing								-
	(only with \varnothing 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								

Technical data

Function

-N-

-T-

Diameter

www.festo.com/en/







General technical data $\mathsf{Piston}\, \varnothing$ 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 Flexible cushioning rings/pads at both ends Cushioning Position sensing А For proximity sensor AIB At both ends, built-in AIV Front, built-in AIH Rear, built-in Via through-hole Type of mounting With female thread Via accessories Mounting position Any

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/p	ilot medi	um	Operation with lu	bricated medium	possible (in which	h case lubricated	operation will alw	ays be required)			
Operating		[bar]	0.8 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 ¹⁾	S6	[°C]	0 +120								
Suitability for use in the food industry			As per manufacturer's declaration (-> Support / Downloads)								
Corrosion resistance class CRC ²⁾			3								

1) Note operating range of proximity sensors

 Corrosion resistance class 3 to festo standard 940 070
 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

Technical data

Forces [N] and impact energy [J]									
Piston Ø 20		20	25	32	40	50	63	80	
Theoretical force at 6 bar,		188	295	483	754	1,178	1,870	3,016	
advancing S2		141	247	415	686	1,057	1,750	2,827	
Theoretical force at 6 bar,		141	247	415	686	1,057	1,750	2,827	
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:

$$v_{perm.} = \sqrt{\frac{2 \text{ x E}_{perm.}}{m_{dead} + m_{load}}}$$

 vperm.
 Permissible impact velocity

 Eperm.
 Max. impact energy

 mdead
 Moving load (drive)

 mload
 Moving work load

Note

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

FESTO

Maximum permissible load:

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

Max. lateral force Fq as a function of projection X



_____ Ø 20 ----- Ø 25

© 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	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
			<u>.</u>				·
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	igh-alloy steel						
4 Flange screws	Corrosion-resistant steel							
– Seals	Polyurethane, nitrile rubber	Fluorocarbon rubber						
 Note on materials 	Free of copper and PTFE							
	-	Contains PWIS (paint-wetting impairment substances)						

FESTO



L7

Ø	BG	D5	E	EE	G	J1	J3	L2	L3	L4
[mm]		F9				±0.1	±0.1			
20	10 5		36.8	M5	12	_	_	37		
25	17.5	Q	41.8	CIMI	12			39		
32	26	,	49.8			5.8	7	44	4.4	5
40	20		57.8		15	8		45	7.7	5
50		12	69.7	G1⁄8	15	8.5	8	45		
63	27	12	81.3			12	0	49		
80		-	100.4		16.5	15		54	8	-
Ø	L5	L6	L7	MM	PL	RT	TG	ZJ	=@	31
				Ø						
[mm]		±2		h8	±0.1			+1	h1	3
20			7	10	6	ME	22	42.7	C	
25		_	/	10	0	0.0	26	44.7	,	,
32		35	0 7	12		MG	32.5	50.2	1	0
40	10	39	0.7	12		MO	38	51.2	1	0
50	10	45	10.2	16	8.2	Mo	46.5	53.2	1	2
63	1	50	10.3	10		IVIÕ	56.5	57.2	1.	2
80	11.5	60	11.9	20	1	M10	72	63	1	7

Note

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	0		150			

FESTO



S2 – Through piston rod



K2 – Extended male piston rod thread



+ = plus stroke length

Ø	A1	AF	AM	KF	KK	T4	WH	ZJ	ZM	
[mm]		min.	-0.5				+1	+1		
20		1.4	16	MG	MQ	2.6	E 7	42.7	49.8	
25	1 20]	14	10	MO	MO	2.0 5.7	5.7	44.7	51.8
32		1 20	1 20	16	10	MR	M10x1 25	3.3	6.2	50.2
40	1 20	10	19	MO	WIIOXI.25).)	0.2	51.2	58.9	
50			22	M10	M1 2v1 25	4.7	8.2	53.2	63.1	
63		20	22	W10	W12X1.25	4.7	0.2	57.2	66.9	
80	1 30		28	M12	M16x1.5	6.1	9	63	73.5	

FESTO



K8 – Extended piston rod



= plus stroke length

Ø	AF	A2	AM	K1	K2	T4	WH	ZJ
[mm]	min.		-0.5				+1	+1
20	1.4	1 300	16	M10 M10v1 25	MS	2.6	5 7	42.7
25	14	14 1	10	M10, M10/1.29	CINI	2.0	5.7	44.7
32	16		19	M10 M12	M6	3 3	6.2	50.2
40	10	1 400	19	MIO, MIZ	MO	5.5	0.2	51.2
50		1 400	22	M12 M12	MR	4.7	8.2	53.2
63	20	20		10112,10112	WO	4.7	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.

Contraction of the second

Technical data						
General information						
Design		Integrated				
Based on standard		N 60947-5-2				
CE mark (see declaration of conformit	ty)	To EU EMC Directive				
Note on materials		Free of copper and PTFE				
Input signal/measuring element						
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				
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	erials	Gold-plated brass				

FESTO

Technical data								
Mechanical components	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 ¹⁾		3						

1) Corrosion resistance class 3 according to 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.

Note

Proximity sensor,

magneto-resistive (order code SMT)



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.

Contraction of the second

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		
Measuring principle		Magneto-resistive
Ambient temperature	[°C]	-20 +60
Switching output		
Switching output		PNP
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]	100
Max. switching capacity DC	[W]	3
Voltage drop	[V]	<2
Inductive protective circuit		Adapted to MZ, MY, ME coils
Residual current	[µA]	<10
Output, further data		
Protection against short circuit		Yes
Protection against overloading		Yes
Electronic components		
Operating voltage range	[V DC]	5 30
Residual ripple	[%]	10
Protection against polarity reversal		Yes
Electromechanical components		
Electrical connection		Plug, M8x1, 3-pin
Connection direction		Lateral
Information on crimp connector mate	erials	Gold-plated brass

FESTO

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 ¹⁾		3

1) Corrosion resistance class 3 according to 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.

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

Module No.	Function			Stroke				Cushion	ing		
	Piston Ø			Pisto	n rod thread]	Positio	on sensing		
		T				T					
543 305	CDC	20		1 50	0	А		Р		-	
43 306		25				1				А	
43 307		32								AIB	
43 308		40								AIV	
43 309		50								AIH	
543 310		63									
543 311		80									
)rder											
xample											
543 306	CDC	- 25		- 225		– A		– P		-	
543 306	CDC	- 25		- 225		- A		- P		-	
643 306 dering table	CDC	- 25		- 225	1] – A		- P		-	
dering table	CDC	- 25	25	- 225	40	50	63	- P	Condition s	- Code	Enter
43 306 lering table e Module No.	CDC	 - 25 20 543 305 	25 543 306	 225 32 543 307 	40 543 308	50 543 309	63 543 310	 – P 80 543 311 	Condition s	- Code	Enter code
43 306 dering table e Module No. Function	CDC	- 25 20 543 305 Standard	25 543 306 cylinder, dou	- 225 32 543 307 ble-acting, b	40 543 308 based on ISO	50 543 309 21287 (Clea	63 543 310 an Design)	 P 80 543 311 	Condition S	- Code	Enter code CDC
dering table e Module No. Function Piston ∅	CDC [mn	- 25 20 543 305 5tandard 32 1] 20	25 543 306 cylinder, dou 25	- 225 32 543 307 ble-acting, b 32	40 543 308 based on ISO 40	A 50 543 309 21287 (Clea 50	63 543 310 an Design) 63	 P 80 543 311 80 	Condition s	- Code	Enter code CDC
43 306 lering table e Module No. Function Piston Ø Stroke	CDC [mn [mn	 20 543 305 5tandard 20 1 300 	25 543 306 cylinder, dou 25	 225 32 543 307 ble-acting, b 32 1 400 	40 543 308 based on ISO 40	- A 50 543 309 21287 (Cleat 50	63 543 310 an Design) 63	 P 80 543 311 80 1 500 	Condition s	- Code	Enter code CDC
Add 306 dering table e Module No. Function Piston Ø Stroke Piston rod thro	CDC [mn [read	 20 543 305 5tandard 20 1 300 Male thread 	25 543 306 cylinder, dou 25 ad	 225 32 543 307 ble-acting, b 32 1 400 	40 543 308 based on ISO 40	- A 50 543 309 21287 (Cleating the second	63 543 310 an Design) 63	 P 80 543 311 80 1 500 	Condition s 2	- Code	Enter code
43 306 lering table e Module No. Function Piston ∅ Stroke Piston rod thro	CDC [mm read	 20 543 305 543 305 Standard 20 1 300 Male threa Female th 	25 543 306 cylinder, dou 25 ad read	 225 32 543 307 ble-acting, b 32 1 400 	40 543 308 based on ISO 40	- A 50 543 309 21287 (Cleating the second	63 543 310 an Design) 63	 P 80 543 311 80 1 500 	Condition s 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- Code	Enter code
A 3 306 dering table e Module No. Function Piston Ø Stroke Piston rod thro Cushioning	CDC [mn [read	- 25 20 543 305 543 305 Standard 1] 20 1 300 Male threat Female threat Flexible cu Flexible cu	25 543 306 cylinder, dou 25 ad read ushioning rin	 225 32 543 307 ble-acting, b 32 1 400 gs/pads at b 	40 543 308 543 40 40 50000000000000000000000000000000	- A 50 543 309 21287 (Cleating the second	63 543 310 an Design) 63	 P 80 543 311 80 1 500 	Condition s 2 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- Code CDC -A -1 -P	Enter code
43 306 dering table e Module No. Function Piston ∅ Stroke Piston rod thro Cushioning Position sensi	CDC [mn [mn read	- 25 20 543 305 543 305 Standard 1] 20 1 1] 1 300 Male three Female th Flexible cu Vithout p Without p	25 543 306 cylinder, dou 25 ad read ushioning rin osition	 225 32 543 307 ble-acting, b 32 1 400 gs/pads at b 	40 543 308 based on ISO 40 40 both ends	- A 50 543 309 21287 (Cleating the second	63 543 310 an Design) 63	 P 80 543 311 80 1 500 	Condition s 2 2 3 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 5 5 7 7 7 7	- Code Code -A -I -P	Enter code CDC
43 306 Jering table e Module No. Function Piston Ø Stroke Piston rod thro Cushioning Position sensi	CDC [mn [mn read	- 25 20 543 305 543 305 Standard 1] 20 11 300 Male threat Female the Female the Flexible cond Without p sensing	25 543 306 cylinder, dou 25 ad read ushioning rin osition	 225 32 543 307 ble-acting, b 32 1 400 gs/pads at b - 	40 543 308 based on ISO 40 toth ends -	- A 50 543 309 21287 (Cleating the second s	63 543 310 an Design) 63	 P 80 543 311 80 1 500 	Condition S 2 2 3 4 4 5 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- Code Code -A -I -P	Enter code CDC
43 306 lering table e Module No. Function Piston Ø Stroke Piston rod thro Cushioning Position sensi	CDC [mn read	- 25 20 543 305 543 305 Standard 1] 20 11	25 543 306 cylinder, dou 25 ad read ushioning rin osition	 225 32 543 307 ble-acting, b 32 1 400 gs/pads at b For proxim 	40 543 308 based on ISO 40 tooth ends - ity sensor	- A 50 543 309 21287 (Cleating 50) 50	63 543 310 an Design) 63	 P 80 543 311 80 1 500 	Condition S 2 2 3 4 4 3 4 4 5 4 5 4 5 4 5 4 5 5 5 5 7 7 7 7 7 7	- Code CDC -A -I -P -A	Enter code CDC
43 306 lering table e Module No. Function Piston Ø Stroke Piston rod thro Cushioning Position sensi	CDC [mn read	- 25 20 543 305 543 305 543 305 301 543 305 10 20 11 1 300 Male threat Female th Flexible cu Without p sensing - -	25 543 306 cylinder, dou 25 ad read ushioning rin osition - -	 225 32 543 307 ble-acting, b 32 1 400 gs/pads at b For proxim At both en 	40 543 308 based on ISO 40 both ends - ity sensor ds, integrate	- A 50 543 309 21287 (Clear 50	63 543 310 an Design) 63 -	 P 80 543 311 80 1 500 - 	Condition s 2 2 3 4 4 3 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 7 5 7 7 7 7	- Code CDC -A -I -P -A -AIB	Enter code CDC
dering table e Module No. Function Piston Ø Stroke Piston rod thro Cushioning Position sensi	CDC [mn read	- 25 20 543 305 5tandard 305 301 20 101 20 11	25 543 306 cylinder, dou 25 ad read ushioning rin osition - - - -	 225 32 543 307 ble-acting, b 32 1 400 gs/pads at b - For proxim At both en Front, inte 	40 543 308 543 308 543 308 40 40 500 40 500 500 500 500 5	- A 50 543 309 21287 (Cleating the second s	63 543 310 63 63	 P 80 543 311 80 1 500 - 	Condition s Condition s 1 2 2 2 2 2 2 2 2 2 2 2 2	- Code CDC -A -I -P -A -AIB -AIV	Enter code CDC

1 | Not with extended male thread K2 2 AIB, AIV, AIH Only with proximity sensor SME, SMT

Transfer order code CDC

– P

Ordering data – Modular products

→ O Options Proximity sensor Type of piston rod Special thread Temperature resistance Sensor mounting rail Male thread extended Piston rod extended R "...."K5 K8 SME S2 ...K2 S6 SMT S2 20K2 "M10"K5 75K8 **S6** Ordering table 20 32 40 50 80 Condition Code Size 25 63 Enter S code O Proximity sensor -SME SME (contacting) 3 -SMT SMT (contactless) 4 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 Male thread M10x1.25 M10 M12 M16 -"..."K5 special thread M10 M12 M16 M20 Female thread M5 M6 M8 M10 Piston rod extended Extended piston rod 1 ... 300 1 ... 400 1 ... 500 ·...K8 [mm] 6 Temperature resistance Heat-resistant seals for temperatures up to 120 °C -S6 7

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



FESTO

Accessories

Foot mounting HNA-...-R3

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





Dimensions and ordering data

Dimension	is and oraci												
For \varnothing	AB	AH	AO	AT	AU	SA	TR	US	XA	CRC ¹⁾	Weight	Part No.	Туре
	Ø												
[mm]	H14	JS14		±0.5	±0.2		±0.2	-0.5			[g]		
20		27	6.25			69	22	34.5	59	3	84	537 254	HNA-20-R3
25	7	29	0.2 5	h	16	71	26	38.5	61	3	90	537 255	HNA-25-R3
32		33.5	7	4		76	32	46	66	3	123	537 256	HNA-32-R3
40		38	9		18	81	36	54	69	3	157	537 257	HNA-40-R3
50	10	45	8	5	21	87	45	64	74	3	278	537 258	HNA-50-R3
63		50	0	,	21	91	50	75	78	3	328	537 259	HNA-63-R3
80	12	63	10.5	6	26	106	63	63	89	3	634	537 260	HNA-80-R3

1) Corrosion resistance class 3 according to 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.

Flange mounting CRFNG

Material: High-alloy steel Free of copper and PTFE





Dimensions and ordering data

Dimension	is and oracini	5 uata									
For Ø	E	FB	MF	R	TF	UF	ZF	CRC ¹⁾	Weight	Part No.	Туре
		Ø									
[mm]		H13							[g]		
32	45	7	10	32	64	80	54	4	225	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	540	161 848	CRFNG-50
63	75	9	12	50	100	120	61	4	680	161 849	CRFNG-63
80	93	12	16	63	126	150	70	4	1,500	161 850	CRFNG-80

1) Corrosion resistance class 4 according to 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.

FESTO

Accessories

1 - -

Trunnion flange CRZNG

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





+	=	plus	stroke	length
		pius	Stroke	i sui

Dimension	is and orde	ring data											
For \varnothing	C2	C3	TD	TK	TL	TM	US	XH	XL	CRC ¹⁾	Weight	Part No.	Туре
			Ø										
[mm]			e9										
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	285	161 853	CRZNG-40
50	99	117	16	24	16	75	64	4	57	4	473	161 854	CRZNG-50
63	116	136	20	24	20	90	75	4	61	4	687	161 855	CRZNG-63
80	136	156	20	28	20	110	93	5	81	4	1,296	161 856	CRZNG-80

1) Corrosion resistance class 4 according to 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 and PTFE RoHS-compliant





Dimension	is and ord	ering data											
For \varnothing	CR	FK	FN	FS	H1	HB	NH	TH	UL	CRC ¹⁾	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	161 874	CRLNZG-32
40,50	16	18	36	12	18	9	21	36	55	4	323	161 875	CRLNZG-40/50
63,80	20	20	40	13	20	11	23	42	65	4	435	161 876	CRLNZG-63/80

1) Corrosion resistance class 4 according to 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.

FESTO

Accessories

Swivel flange SNCB-...-R3

Material:

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





Dimension	is and orderin	ig data									
For \varnothing	CB	EK	FL	L	MR	UB	XC	CRC ¹⁾	Weight	Part No.	Туре
		Ø									
[mm]	H14	e8	±0.2			h14			[g]		
32	26	10	22	13	8.5	45	72	3	100	176 944	SNCB-32-R3
40	28	12	25	16	12	52	76	3	151	176 945	SNCB-40-R3
50	32	12	27	16	12	60	80	3	228	176 946	SNCB-50-R3
63	40	16	32	21	16	70	89	3	371	176 947	SNCB-63-R3
80	50	16	36	22	16	90	99	3	632	176 948	SNCB-80-R3

1) Corrosion resistance class 3 according to 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.

Clevis foot CRLNG

Material: High-alloy steel Free of copper and PTFE







Dimensions and ordering data

		-													
For \varnothing	BR	BT	CK	EM	GL	HB	PH	RA	TE	UL	UR	CRC ¹⁾	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	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 according to 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

Swivel flange SNCL-...-R3

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





Dimension	ns and ordering	data								
For \varnothing	CD	EW	FL	L	MR	XC	CRC ¹⁾	Weight	Part No.	Туре
	Ø									
[mm]	H9	h12	±0.2					[g]		
20	Q	16	20	1.4	Q	63	3	40	537 796	SNCL-20-R3
25	0	10	20	14	0	65	3	45	537 797	SNCL-25-R3

1) Corrosion resistance class 3 according to 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.

Clevis foot CRLBN, stainless steel

Material: High-alloy steel Free of copper and PTFE





Dimensions and ordering data

Dimension														
For \varnothing	CM EK FL GL HB LE		LE	MR	RG	UX	CRC ¹⁾	Weight	Part No.	Туре				
		Ø												
[mm]											[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 according to 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.

Ordering data - Proximity sensors for T-slot, magneto-resistive Technical data → Internet: sr										
	Type of mounting	Туре								
output				[m]						
N/O contact										
	Is mounted on the mounting rail	PNP	Cable, 3-wire	5.0	571 339	SMT-C1-PS-24V-K-5,0-OE				
			Plug M8x1, 3-pin	0.3	571 342	SMT-C1-PS-24V-K-0,3-M8D				
			Plug M12x1, 3-pin	0.3	571 341	SMT-C1-PS-24V-K-0,3-M12				

Ordering data – C	connecting cables for SMT-C1				Technical data 🗲 Internet: nebu
	Electrical connection, left	Electrical connection, right	connection, right Cable length Part No. [m]		Туре
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 333	NEBU-M8G3-K-2.5-LE3
State .			5	541 334	NEBU-M8G3-K-5-LE3
	Straight socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 363	NEBU-M12G5-K-2.5-LE3
			5	541 364	NEBU-M12G5-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3
Se la companya de la comp			5	541 341	NEBU-M8W3-K-5-LE3
	Angled socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 367	NEBU-M12W5-K-2.5-LE3
			5	541 370	NEBU-M12W5-K-5-LE3

Ordering data – Connecting cables for integrated proximity sensor Technical data → Internet: si									
	Electrical connection, left Electrical connection, right Cabl			Part No.	Туре				
	[m]								
\checkmark	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	525 259	SIM-K-GD-2,5-CDN				
S-			5	525 260	SIM-K-GD-5-CDN				
\checkmark	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	525 261	SIM-K-WD-2,5-CDN				
W			5	525 262	SIM-K-WD-5-CDN				

Note

The connecting cables SIM-... are suitable for foodstuffs, resistant to cleaning and disinfecting agents to DIN 11483.

FESTO

Ordering data	– Push-in fittings				Technic	al data 芛 Internet: 🤉	quick star
	Connection		Material	Weight [g]	Part No.	Туре	PU ³⁾
	Thread	Tubing O.D.					
With external	hex						
	M5	4	Brass, nickel-plated and	6.1	533 844	QS-F-M5-4 ¹⁾	10
		6	chrome-plated	9.3	533 845	QS-F-M5-6 ¹⁾	
-	G1⁄8	4		8	193 408	QS-F-G1⁄8-4 ¹⁾	
		6		12	193 409	QS-F-G¹⁄8-6 ¹⁾	
		8		14	193 410	QS-F-G1⁄8-81)	
	•	•		•			I
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	M5	4	Stainless steel	6	162 860	CRQS-M5-4 ¹⁾	1
		6		8.4	162 861	CRQS-M5-6 ¹⁾	
	R1/8	6		9.9	162 862	CRQS-1/8-6 ²⁾	
		8		13	162 863	CRQS-1/8-8 ²⁾	
	1	ł					
With internal	hex						
	M5	4	Brass, nickel-plated and	6	533 924	QS-F-M5-4-I ¹⁾	10
		6	chrome-plated	9	537 014	QS-F-M5-6-I ¹⁾	
~	G1⁄8	4		8.6	533 927	<b>QS-F-G¹⁄8-4-I</b> ¹⁾	
		6		13.4	533 928	<b>QS-F-G¹⁄8-6-l</b> ¹⁾	
		8		13.1	533 929	<b>QS-F-G1⁄8-8-I</b> ¹⁾	

With sealing ring
 With PTFE coating
 Packaging unit quantity

Ordering data – P	ush-in L-fittings				Technica	al data 🗲 Internet: qui	ck star
	Connection		Material	Weight [g]	Part No.	Туре	PU ³⁾
	Thread	Tubing O.D.					
With external hex							
	M5	4	Brass, nickel-plated and	10.1	533 849	QSL-F-M5-4 ¹⁾	10
		6	chrome-plated	14.7	533 850	QSL-F-M5-6 ¹⁾	1
_	G1⁄8	j ¹ /8 4		17.6	193 418	QSL-F-G1⁄8-4 ¹⁾	
		6		16	193 419	QSL-F-G1⁄8-6 ¹⁾	
		8		20	193 420	QSL-F-G1⁄8-8 ¹⁾	
	M5	4	Stainless steel	13	162 870	CRQSL-M5-4 ¹⁾	1
OD CO		6		19	162 871	CRQSL-M5-6 ¹⁾	
	R1/8	6		20	162 872	CRQSL-1/8-6 ²⁾	]
		8	]	27	162 873	CRQSL-1/8-8 ²⁾	1

With sealing ring
 With PTFE coating
 Packaging unit quantity

# FESTO

Ordering data – P	lastic tubing, standard O.D.	Technical data 🗲 Internet: tubing
		Туре
	Good resistance to chemicals and hydrolysis	PLN
6	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 → Internet: crgrla									
	Connection		Material	Weight [g]	Part No.	Туре			
	Thread	For push-in fitting							
(B)	M5	CRQS/CRQSL/CRQST,	Electrolytically polished special	14	161 403	CRGRLA-M5-B			
S.	G1/8 Quick Star		steel casting	44	161 404	CRGRLA-1/8-B			

Ordering data – B	lanking screws, cor	rrosion-resistant					
	For $\varnothing$	Material	CRC ¹⁾	Weight [g]	Part No.	Туре	PU ³⁾
~0 a	20,25	High-alloy steel	3	5.5	543 714	DAMD-P-M5-10-R1 ²⁾	4
O O O	32,40			9	543 715	DAMD-P-M6-12-R1 ²⁾	
^G OF	50,63			17.5	543 716	DAMD-P-M8-16-R1 ²⁾	
	80			30	543 717	DAMD-P-M10-16-R1 ²⁾	

1) Corrosion resistance class 3 according to 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.With sealing ringPackaging unit quantity

Ordering data – C	orrosion and acid-	resistant pis	ton rod attachments				T	echnical data → Internet: crsg
Designation	For $\varnothing$	Part No.	Туре		Designation	For $\varnothing$	Part No.	Туре
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		(CO)	32,40	13 569	CRSG-M10x1,25
Ø	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

# Product Range and Company Overview

## **A Complete Suite of Automation Services**

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



**Custom Automation Components** Complete custom engineered solutions



**Custom Control Cabinets** Comprehensive engineering support and on-site services



**Complete Systems** Shipment, stocking and storage services

## **The Broadest Range of Automation Components**

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



**Pneumatics** Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

### Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

## Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.





© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



FSC Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

# **Festo North America**

#### **Festo Regional Contact Center**

5300 Explorer Drive Mississauga, Ontario L4W 5G4 Canada

#### USA Customers:

For ordering assistance, Call: 1.800.99.FESTO (1.800.993.3786) Fax: 1.800.96.FESTO (1.800.963.3786) Email: customer.service@us.festo.com For technical support, Call: 1.866.GO.FESTO (1.866.463.3786) Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com Canadian Customers:

 Call:
 1.877.GO.FESTO (1.877.463.3786)
 Fax:
 1.877.FX.FESTO (1.877.393.3786)

 Email:
 festo.canada@ca.festo.com
 Fax:
 festo.canada@ca.festo.com

#### USA Headquarters

Festo Corporation 395 Moreland Road P.O. Box 18023 Hauppauge, NY 11788, USA www.festo.com/us

#### **USA Sales Offices**

Appleton North 922 Tower View Drive, Suite N Greenville, WI 54942, USA

**Boston** 120 Presidential Way, Suite 330 Woburn, MA 01801, USA

Chicago 1441 East Business Center Drive Mt. Prospect, IL 60056, USA Dallas

1825 Lakeway Drive, Suite 600 Lewisville, TX 75057, USA

**Detroit** – Automotive Engineering Center 2601 Cambridge Court, Suite 320 Auburn Hills, MI 48326, USA

New York 395 Moreland Road Hauppauge, NY 11788, USA Silicon Valley

4935 Southfront Road, Suite F Livermore, CA 94550, USA

#### Central USA

Festo Corporation 1441 East Business Center Drive Mt. Prospect, IL 60056, USA Phone: 1.847.759.2600 Fax: 1.847.768.9480



United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788 Phone: 1.631.435.0800; Fax: 1.631.435.8026; Email: info@festo-usa.com www.festo.com/us

#### Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4 Phone: 1.905.624.9000; Fax: 1.905.624.9001; Email: festo.canada@ca.festo.com www.festo.ca

#### Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquinahuac, 54020 Tlalnepantla, Edo. de México Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65; Email: Festo.mexico@mx.festo.com www.festo.com/mx

 Western USA

 Festo Corporation

 4935 Southfront Road,

 Suite F

 Livermore, CA 94550, USA

 Phone:
 1.925.371.1099

 Fax:
 1.925.245.1286



#### Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

#### www.festo.com