

# STAINLESS STEEL CYLINDERS

## SERIES 90

Single- and double-acting, cushioned, magnetic  
 ø 32, 40, 50, 63, 80, 100 and 125 mm



- In compliance with ISO 15552 standard and with the previous DIN/ISO 6431 - VDMA 24562 standard
- Clean design
- Stainless steel AISI 316
- End-stroke cushioning

The Series 90 cylinders can be used in critical applications in which a high corrosion resistance is required (for example off-shore, marine, food).

This series of cylinders is normally equipped with end of stroke buffers with adjustable pneumatic cushioning. Moreover, they are equipped with a mechanical cushioning that makes the impact of the piston less noisy as it reaches the end of the stroke.

### GENERAL DATA

<b>Construction</b>	with tie-rods
<b>Operation</b>	single-acting or double-acting
<b>Design</b>	ISO 15552
<b>Materials</b>	- end blocks, barrel and rod in stainless steel AISI 316 - seals in NBR - plastic guiding element, NSF H1-certified lubricant
<b>Mountings</b>	several types of cylinders mounting brackets available
<b>Strokes min. max</b>	
<b>Operating temperature</b>	0°C ÷ 80°C (with dry air - 20°C)
<b>Operating pressure</b>	1 ÷ 10 bar
<b>Speed</b>	10 ÷ 1000 mm/sec (no load)
<b>Fluid</b>	Filtered air, without lubrication. If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted.

STAINLESS STEEL CYLINDERS  
SERIES 90 - STANDARD STROKES

PNEUMATIC ACTUATION

1

Standard strokes

✕ = Double-acting  
● = Single-acting

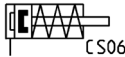
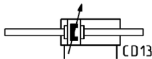
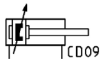
Ø	25	50	80	100	125	150	160	200	250	300	320	400	500
32	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
40	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
50	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
63	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
80	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
100	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
125		✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕

CODING EXAMPLE

90	M	2	A	050	A	0200
90	SERIES					
M	VERSION M = standard, magnetic					
2	OPERATION 1 = single-acting, front spring 2 = double-acting, front and rear cushions 6 = double-acting, through-rod, front and rear cushions					PNEUMATIC SYMBOLS CS06 CD09 CD13
A	MATERIALS A = stainless steel AISI 316, seals in NBR V = stainless steel AISI 316, all seals in FKM (150°C)					
050	BORE 052 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm 080 = 80 mm 100 = 100 mm 125 = 125 mm					
A	TYPE OF DESIGN A = standard with piston rod lock nut Mod. U					
0200	STROKE (see the table)					
	= standard V = rod seal in FKM					

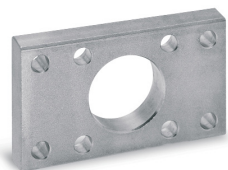
Pneumatic symbols

The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.



## Accessories

**Foot mount Mod. B**

**Front and rear flange Mod. D-E**

**Rear trunnion, female Mod. C-H**

**Rear trunnion, male Mod. L**

**Tight rear female tr. bracket Mod. CR**

**Male tr. bracket with swivel ball joint Mod. R**

**90° male tr. bracket + sw. ball joint Mod. ZCR**

**90° male trunnion Mod. ZC**

**Rod fork end Mod. G-90**

**Anti-rotation clevis pin Mod. SR-90**

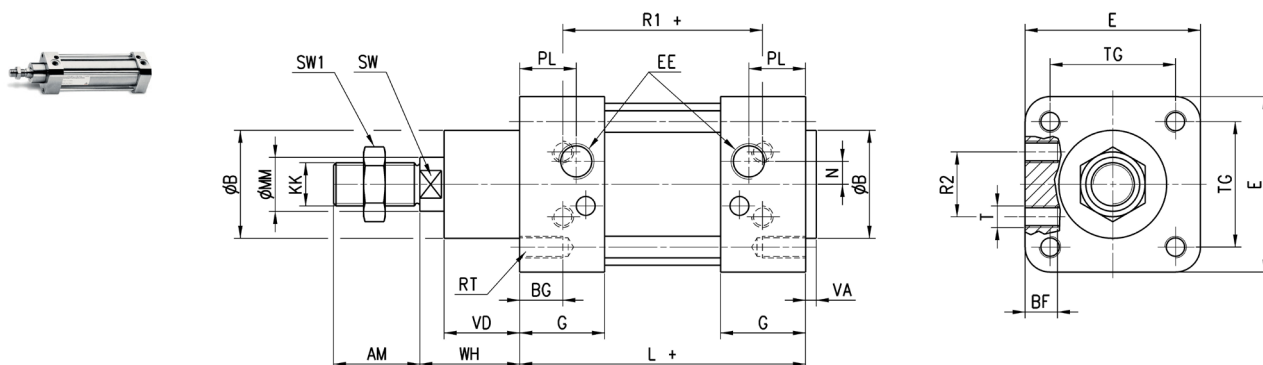
**Clevis pin Mod. S-90**


STAINLESS STEEL CYLINDERS  
SERIES 90 - DIMENSIONAL CHARACTERISTICS

Cylinders Series 90

PNEUMATIC ACTUATION

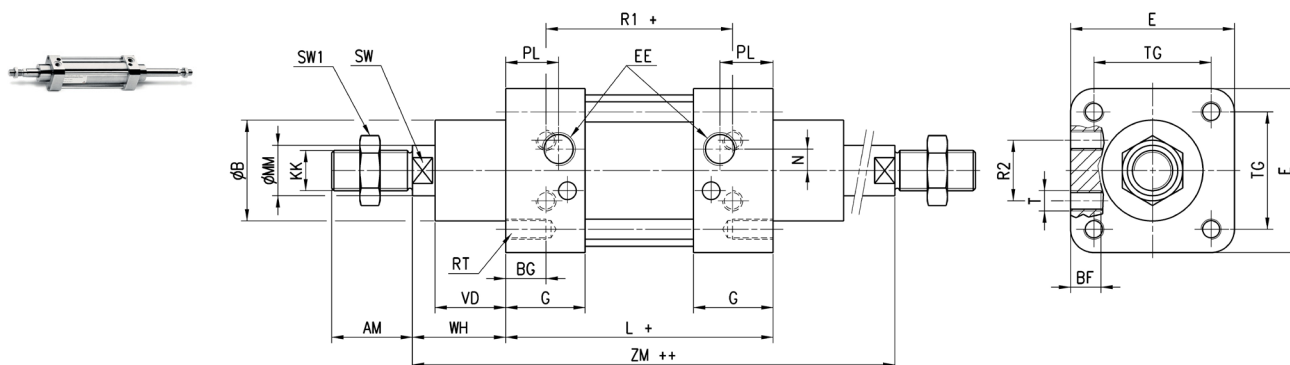
1



+ = add the stroke

Ø	AM	B	BF	BG	E	EE	G	KK	L	MM	N	PL	RT	R1	R2	SW	SW1	T	TG	VA	VD	WH
32	22	30	10	16	45	G1/8	28	M10x1,25	94	12	4,5	14	M6	64	16	10	17	M5	32,5	4	20	26
40	24	35	10	16	55	G1/4	31,5	M12x1,25	105	16	5,5	16	M6	70	21	13	19	M6	38	4	22	30
50	32	40	12	16	65	G1/4	31,5	M16x1,5	106	20	8,5	21	M8	74	24	17	24	M8	46,5	4	28	37
63	32	45	12	16	80	G3/8	35	M16x1,5	121	20	8,5	22	M8	85	33	17	24	M8	56,5	4	28	37
80	40	45	15	16	95	G3/8	36	M20x1,5	128	25	8,5	23	M10	92	34	21	30	M10	72	4	34	46
100	40	55	15	16	115	G1/2	41	M20x1,5	138	25	10	26	M10	100	58	21	30	M10	89	4	38	51
125	54	60	24	20	140	G1/2	45	M27x2	160	32	12,5	30	M12	110	65	27	41	M12	110	5	50	65

Cylinders Series 90 - through-rod



+ = add the stroke once  
++ = add the stroke twice

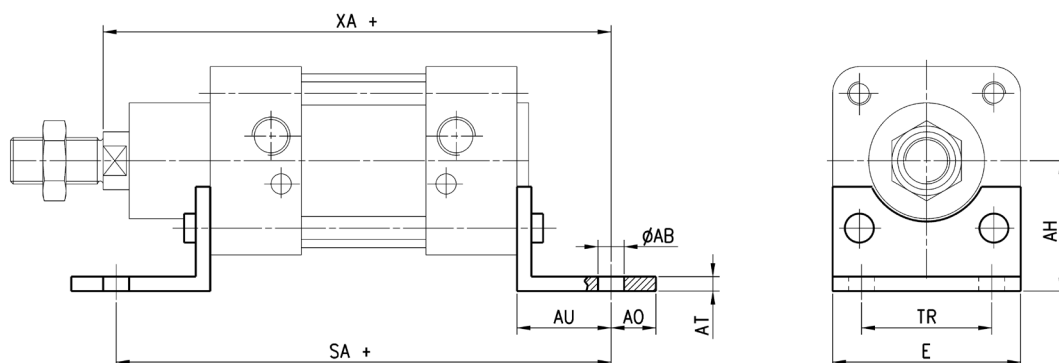
Ø	AM	B	BF	BG	E	EE	G	KK	L	MM	N	PL	RT	R1	R2	SW	SW1	T	TG	VD	WH	ZM
32	22	30	10	16	45	G1/8	28	M10x1,25	94	12	4,5	14	M6	64	16	10	17	M5	32,5	20	26	146
40	24	35	10	16	55	G1/4	31,5	M12x1,25	105	16	5,5	16	M6	70	21	13	19	M6	38	22	30	165
50	32	40	12	16	65	G1/4	31,5	M16x1,5	106	20	8,5	21	M8	74	24	17	24	M8	46,5	28	37	180
63	32	45	12	16	80	G3/8	35	M16x1,5	121	20	8,5	22	M8	85	33	17	24	M8	56,5	28	37	195
80	40	45	15	16	95	G3/8	36	M20x1,5	128	25	8,5	23	M10	92	34	21	30	M10	72	34	46	220
100	40	55	15	16	115	G1/2	41	M20x1,5	138	25	10	26	M10	100	58	21	30	M10	89	38	51	240
125	54	60	24	20	140	G1/2	45	M27x2	160	32	12,5	30	M12	110	65	27	41	M12	110	50	65	290

## Foot mount Mod. B INOX



**Material: Stainless steel 316**

Supplied with:  
2x feet  
4x screws



+ = add the stroke

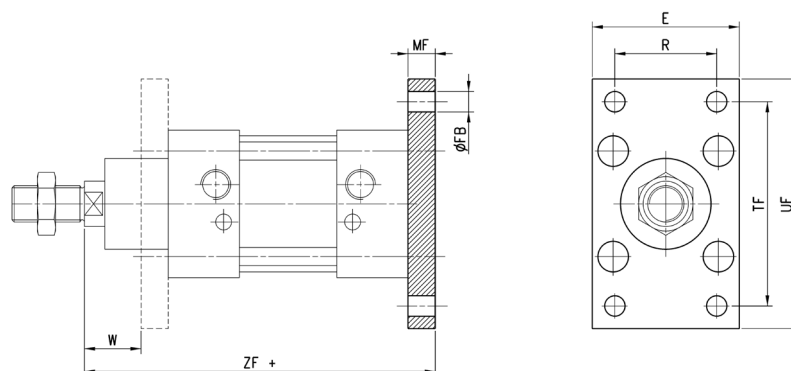
Mod.	$\phi$	$\phi AB$	AH	AO	AT	AU	E	TR	SA+	XA+
B-90-32	32	7	32	11	4	24	45	32	142	144
B-90-40	40	9	36	8	4	28	52	36	161	163
B-90-50	50	9	45	15	5	32	65	45	170	175
B-90-63	63	9	50	13	5	32	75	50	185	190
B-90-80	80	12	63	14	6	41	95	63	210	215
B-90-100	100	14	75	16	6	41	115	75	220	230
B-90-125	125	16	90	25	8	45	140	90	250	270

## Front and rear flange Mod. D-E INOX



**Material: Stainless steel 316**

Supplied with:  
1x flange  
4x screws



+ = add the stroke

Mod.	$\phi$	E	$\phi FB$	MF	TF	UF	W	ZF+	R
D-E-90-32	32	45	7	10	64	80	16	130	32
D-E-90-40	40	52	9	10	72	90	20	145	36
D-E-90-50	50	65	9	12	90	110	25	155	45
D-E-90-63	63	75	9	12	100	120	25	170	50
D-E-90-80	80	95	12	15	126	150	30	190	63
D-E-90-100	100	115	14	15	150	170	35	205	75
D-E-90-125	125	140	16	20	180	205	45	245	90

STAINLESS STEEL CYLINDERS  
SERIES 90 - ACCESSORIES

PNEUMATIC ACTUATION

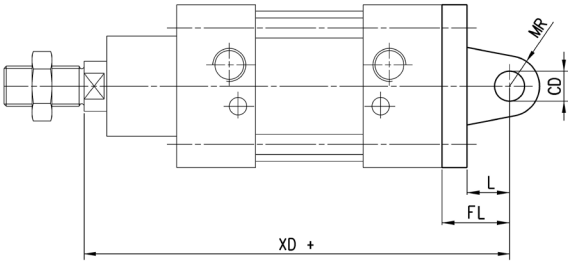
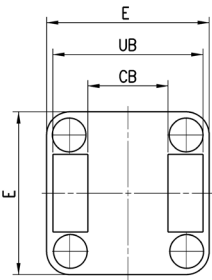
1

Front or rear female trunnion Mod. C-H INOX



Material: Stainless steel 316

Supplied:  
1x female trunnion  
4x screws



+ = add the stroke

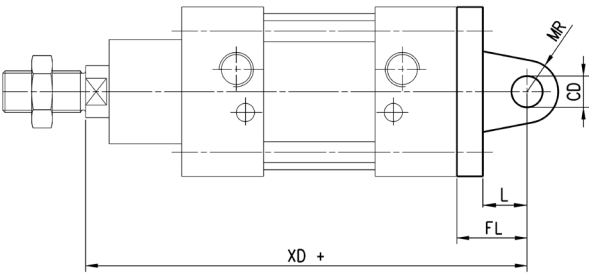
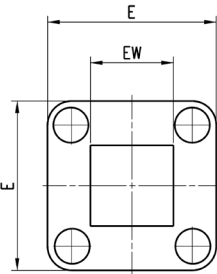
Mod.	Ø	CB	CD	E	FL	L	MR	UB	XD+
C-H-90-32	32	26	10	45	22	12	10	45	142
C-H-90-40	40	28	12	55	25	15	12	52	161
C-H-90-50	50	32	12	65	27	17	12	60	170
C-H-90-63	63	40	16	75	32	20	16	70	185
C-H-90-80	80	50	16	95	36	22	16	90	210
C-H-90-100	100	60	20	115	41	25	20	110	230
C-H-90-125	125	70	25	140	50	30	25	130	275

Male trunnion bracket Mod. L INOX



Material: Stainless Steel 316

Supplied:  
1x male trunnion  
4x screws



+ = add the stroke

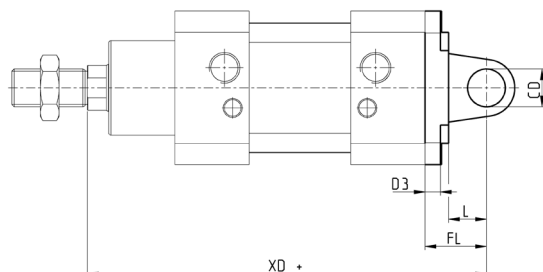
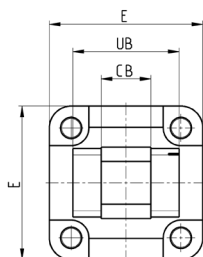
Mod.	Ø	EW	CD	E	FL	L	MR	XD+
L-90-32	32	26	10	45	22	12	10	142
L-90-40	40	28	12	55	25	15	12	161
L-90-50	50	32	12	65	27	17	12	170
L-90-63	63	40	16	75	32	20	16	185
L-90-80	80	50	16	95	36	22	16	210
L-90-100	100	60	20	115	41	25	20	230
L-90-125	125	70	25	140	50	30	25	275

## Tight rear female trunnion bracket Mod. CR



**Material: Stainless Steel 316**

Supplied with:  
1x female trunnion bracket  
4x screws



+ = add the stroke

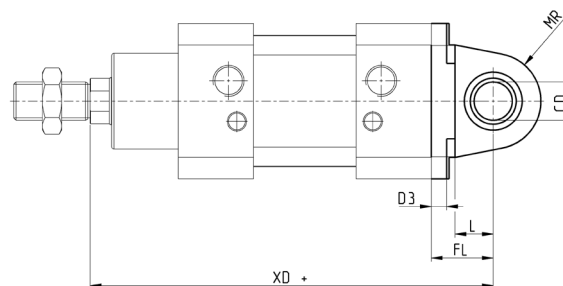
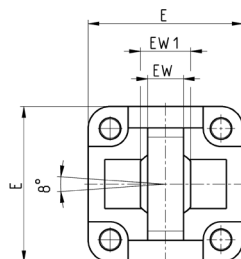
Mod.	Ø	CB	CD	E	FL	L	UB	XD	D3
CR-90-32	32	14	10	45	22	12	34	142	5,5
CR-90-40	40	16	12	55	25	25	40	161	5,5
CR-90-50	50	21	16	65	27	27	45	170	6,5
CR-90-63	63	21	16	75	32	32	51	185	6,5
CR-90-80	80	25	20	95	36	36	65	210	10
CR-90-100	100	25	20	114	41	41	75	230	10
CR-90-125	125	37	30	140	50	50	97	275	10

## Male trunnion bracket with swivel ball joint Mod. R



**Material: Stainless Steel 316**

Supplied with:  
1x male trunnion bracket  
4x screws



+ = add the stroke

Mod.	Ø	EW	EW1	CD	E	FL	L	MR	XD	D3
R-90-32	32	10,5	14	10	45	22	12	15	142	5,5
R-90-40	40	12	16	12	55	25	15	18	161	5,5
R-90-50	50	15	21	16	65	27	17	20	170	6,5
R-90-63	63	15	21	16	75	32	20	23	185	6,5
R-90-80	80	18	25	20	95	36	22	27	210	10
R-90-100	100	18	25	20	115	41	25	30	230	10
R-90-125	125	25	37	30	140	50	30	40	275	10

**STAINLESS STEEL CYLINDERS**  
**SERIES 90 - ACCESSORIES**

**90° male trunnion bracket with swivel ball joint Mod. ZCR**

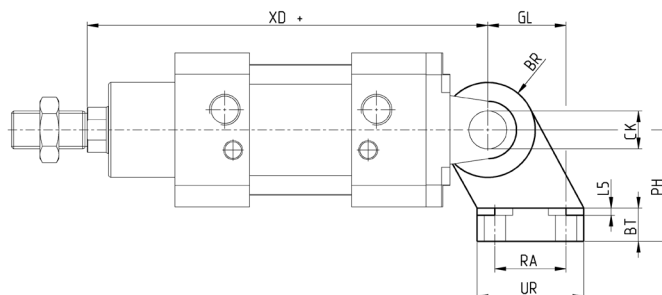
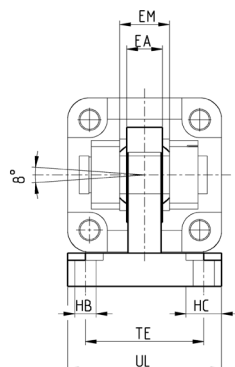
PNEUMATIC ACTUATION

1



**Material: Stainless Steel 316**

Supplied with:  
1x male trunnion bracket  
4x screws



+ = add the stroke

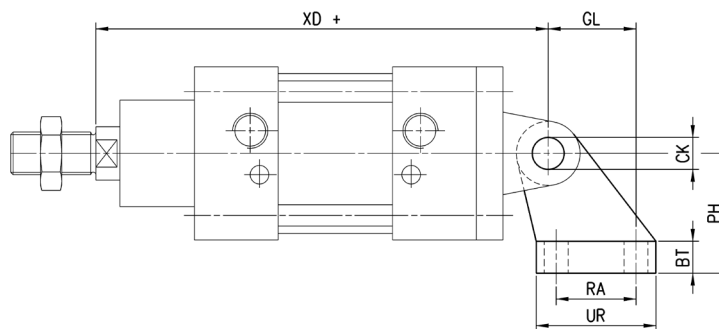
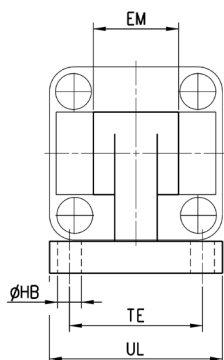
Mod.	Ø	UL	TE	EA	EM	XD	GL	BR	CK	PH	L5	BT	HB	RA	UR	HC
ZCR-90-32	32	51	38	10,5	14	142	21	15	10	32	1,5	10	6,6	18	31	11
ZCR-90-40	40	54	41	12	16	160	24	18	12	36	1,5	10	6,6	22	35	11
ZCR-90-50	50	65	50	15	21	170	33	20	16	45	1,5	12	9	30	45	15
ZCR-90-63	63	67	52	15	21	190	37	23	16	50	1,5	12	9	35	50	15
ZCR-90-80	80	86	66	18	25	210	47	27	20	63	2,5	14	11	40	60	18
ZCR-90-100	100	96	76	18	25	230	55	30	20	71	2,5	15	11	50	70	18
ZCR-90-125	125	124	94	25	37	275	70	40	30	90	3	20	13,5	60	90	20

**90° male trunnion Mod. ZC**



**Material: Stainless Steel 316**

Supplied with:  
1x male support



+ = add the stroke

Mod.	Ø	BT	CK	EM	GL	ØHB	PH	RA	TE	UL	UR	XD+
ZC-90-32	32	8	10	26	21	6,6	32	18	38	51	31	142
ZC-90-40	40	10	12	28	24	6,6	36	22	41	54	35	161
ZC-90-50	50	12	12	32	33	9	45	30	50	65	45	170
ZC-90-63	63	12	16	40	37	9	50	35	52	67	50	185
ZC-90-80	80	14	16	50	47	11	63	40	66	86	60	210
ZC-90-100	100	15	20	60	55	11	71	50	76	96	70	230
ZC-90-125	125	20	25	70	70	14	90	60	94	124	90	275

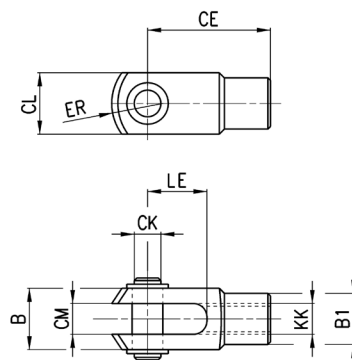


## Rod fork end INOX Mod. G


**ISO 8140**

Material: Stainless Steel 303

Mod.	Ø	CK	LE	CM	CL	ER	CE	KK	B	B1
G-90-25-32	32	10	20	10	20	12	40	M10x1,25	26	18
G-90-40	40	12	24	12	24	14	48	M12x1,25	31	20
G-90-50-63	50-63	16	32	16	32	19	64	M16x1,5	39	26
G-90-80-100	80-100	20	40	20	40	25	80	M20x1,5	50	34
G-90-125	125	30	54	30	55	38	110	M27x2	67	48



PNEUMATIC ACTUATION

**1**

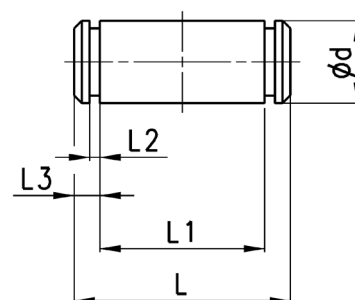
## Clevis pin Mod. S INOX



Material: Stainless Steel 303

 Supplied with:  
 1x clevis pin  
 2x seeger (steel)

Mod.	Ø	D	L	L1	L2	L3
S-90-32	32	10	53	46	1,1	3
S-90-40	40	12	60	53	1,1	3
S-90-50	50	12	68	61	1,1	3
S-90-63	63	16	78	71	1,1	3
S-90-80	80	16	98	91	1,1	3
S-90-100	100	20	118	111	1,3	5
S-90-125	125	25	139	132	1,3	4,2



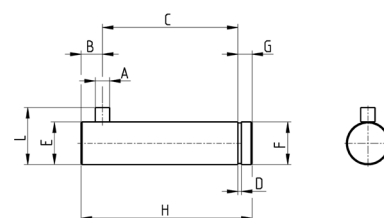
## Antirrotating clevis pin Mod. SR INOX



Material: Stainless Steel 316

 Supplied with:  
 1x antirrotating clevis pin  
 1x seeger (steel)

Mod.	Ø	A	B	C	D	E	F	G	H	L
SR-90-32	32	3	4,5	32,5	1,1	10	9,6	4	41	14
SR-90-40	40	4	6	38	1,1	12	11,5	4	48	46
SR-90-50	50	4	6	43	1,1	16	15,2	5	54	20
SR-90-63	63	4	6	49	1,1	16	15,2	5	60	20
SR-90-80	80	4	6	63	1,3	20	19	6	75	24
SR-90-100	100	4	6	73	1,3	20	19	6	85	24
SR-90-125	125	6	9	94	1,6	30	28,6	7	110	36



**STAINLESS STEEL CYLINDERS**  
**SERIES 90 - ACCESSORIES**

PNEUMATIC ACTUATION

1

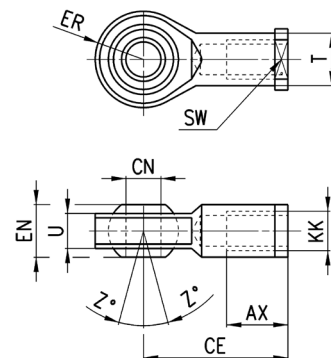
## Swivel ball joint Mod. GA INOX



### ISO 8139

Materials:  
- stainless steel 304 bracket  
- stainless steel 420  
spherical ring  
- sintered bronze bushing

Mod.	Ø	Ø <sub>CN</sub>	U	EN	ER	AX	CE	KK	Ø <sub>T</sub>	Z	SW
GA-90-32	32	10	10,5	14	14	20	43	M10x1,25	15	6,5	17
GA-90-40	40	12	12	16	16	22	50	M12x1,25	17,5	6,5	19
GA-90-50-63	50-63	16	15	21	21	28	64	M16x1,5	22	7,5	22
GA-90-80-100	80-100	20	18	25	21	33	77	M20x1,5	27,5	7	30
GA-90-125	125	30	25	35	35	51	110	M27x2	40	7,5	41



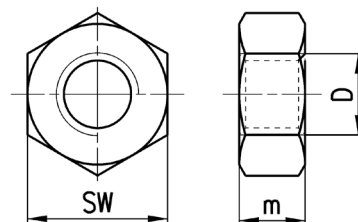
## Piston rod lock nut Mod. U INOX



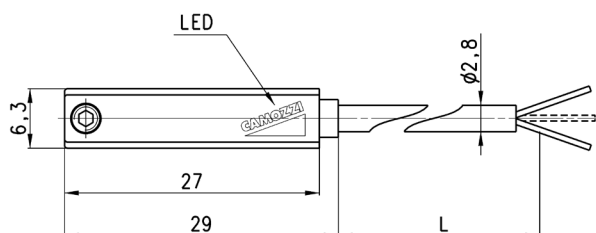
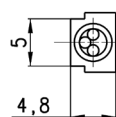
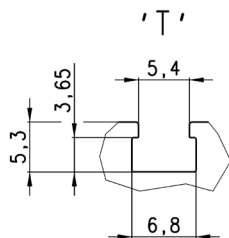
### ISO 4035

Material: Stainless Steel 304

Mod.	Ø	D	M	SW
U-90-25-32	32	M10x1,25	6	17
U-90-40	40	M12x1,25	7	19
U-90-50-63	50-63	M16x1,5	8	24
U-90-80-100	80-100	M20x1,5	9	30
U-90-125	125	M27x2	12	41



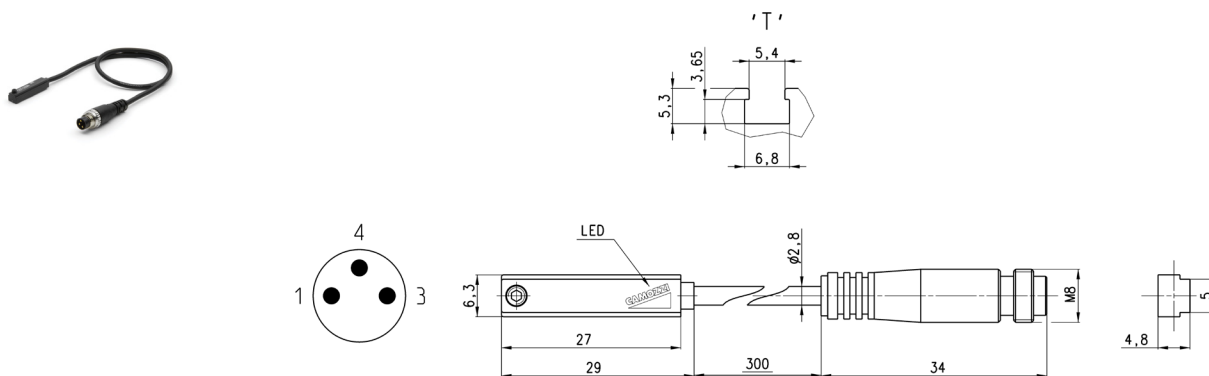
## Magnetic proximity switches with 2 or 3 wire cable for T-slot



Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L = length cable
CST-220	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	2 m
CST-220-5	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m
CST-220-12	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	12 m
CST-220EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	2 m
CST-220-5EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m
CST-220-12EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	12 m
CST-232	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-232-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-232EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-232-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	5 m
CST-332	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-332-5	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-332EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-332-5EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-432	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-432-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-432EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-432-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-532	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-532-5	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-532EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-532-5EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m

Note for 2-wire switches Mod. CST-220, CST-220-5:  
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

## Magnetic proximity switches with M8 3-pin connector for T-slot



Cable length: 0,3 m

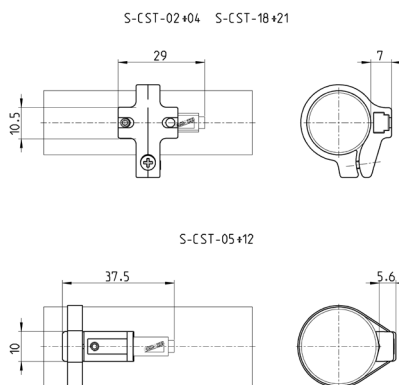
Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection
CST-250N	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None
CST-250NEX	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None
CST-262	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CST-262EX	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CST-362	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
CST-362EX	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
CST-562	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
CST-562EX	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage

Note for 2-wire switch Mod. CST-250N:  
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on

## Adapters for Series CST-CSH-CSG sensors

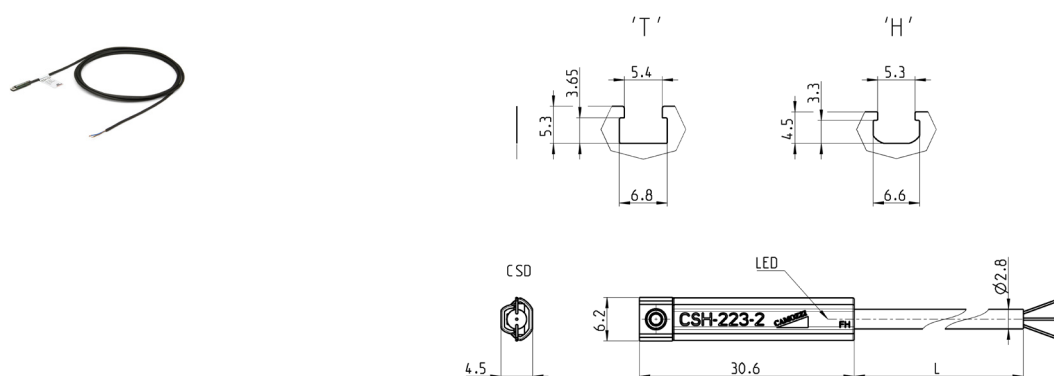


Materials:  
technopolymer  
(S-CST-02÷04)



Mod.	Cylinders Series	Ø
S-CST-02	23, 24, 25, 27	16
S-CST-03	23, 24, 25, 27	20
S-CST-04	23, 24, 25, 27	25
S-CST-05	94, 95	16-20-25 (94), 16-20 (95)
S-CST-06	90, 97, 95	32 (90-97), 25 (95)
S-CST-07	90, 97	40
S-CST-08	90, 97	50
S-CST-09	90, 97	63
S-CST-10	90	80
S-CST-11	90	100
S-CST-12	90	125
S-CST-18	27, 42	32
S-CST-19	27, 42	40
S-CST-20	27, 42	50
S-CST-21	27, 42	63
S-CST-16	63	32

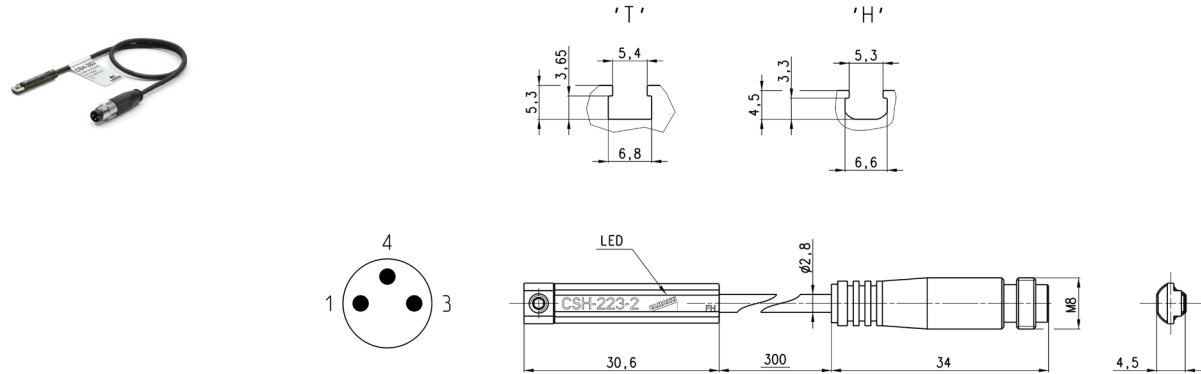
## Magnetic proximity switches with 2 or 3 wire cable for H-slot



Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection	L = cable length
CSH-223-2	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-223-5	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-223-10	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	10 m
CSH-223-2EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	2 m
CSH-223-5EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-223-10EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	10 m
CSH-221-2	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-221-5	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-221-2EX	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-221-5EX	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-233-2	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-233-5	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-233-2EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-233-5EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-334-2	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	2 m
CSH-334-5	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	5 m
CSH-334-2EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	2 m
CSH-334-5EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	5 m
CSH-433-2	Reed NC	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	2 m
CSH-433-5	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-433-2EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-433-5EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m

Note for 2-wire switches Mod. CSH-223-2, CSH-223-5, CSH-221-2, CSH-221-5:  
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

Magnetic proximity switches with M8 3-pin connector for H-slot



Cable length: 0,3 m

Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection
CSH-253	Reed NO	2 wires M8 male 3 pin	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing
CSH-253EX	Reed NO	2 wires M8 male 3 pin	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing
CSH-263	Reed NO	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-263EX	Reed NO	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-364	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage
CSH-364EX	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage
CSH-463	Reed NC	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-463EX	Reed NC	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing

Note for 2-wire switch Mod. CSH-253:  
in case of polarity reversing the sensor will still be operating, but LED diode won't turn on.

# STAINLESS STEEL MINI-CYLINDERS

## SERIES 94 AND 95

Single-acting and double-acting, magnetic  
 Series 94:  $\varnothing$  16, 20, 25 mm  
 Series 95:  $\varnothing$  25 mm, cushioned



- In compliance with ISO 6432
- Clean design
- Stainless steel AISI 316

The Series 94 and 95 cylinders can be used in critical applications in which a high corrosion resistance is required (for example off-shore, marine, food).

Their construction enables the replacement of all seals.

Series 95 is normally equipped with adjustable end-stroke cushioning by means of a screw on the end block.

In addition both Series 94 and 95 are equipped with a mechanical cushioning in order to make the impact of the piston less noisy as it reaches the end of the stroke.

### GENERAL DATA

<b>Construction</b>	End blocks secured to the tube
<b>Operation</b>	Single-acting and double-acting
<b>Design</b>	ISO 6432
<b>Materials</b>	End caps, rod and tube in stainless steel AISI 316, seals in NBR, plastic guiding element, NSF H1-certified lubricant
<b>Mounting</b>	Several types of cylinders clamps available
<b>Strokes min - max</b>	10 ÷ 500 mm
<b>Operating temperature</b>	0° - 80°C (with dry air -20°C)
<b>Operating pressure</b>	1 ÷ 10 bar
<b>Speed</b>	10 ÷ 1000 mm/sec (without load)
<b>Fluid</b>	Clean air, without lubrication. If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted.

STAINLESS STEEL MINI-CYLINDERS  
SERIES 94 AND 95 - STANDARD STROKES

PNEUMATIC ACTUATION

1

Standard strokes

- = single-acting  
✕ = double-acting

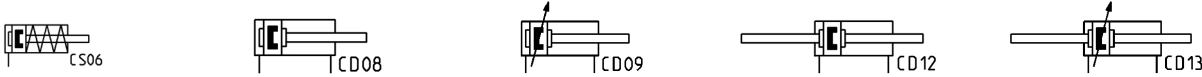
∅	10	25	40	50	80	100	125	160	200	250	300	320	400	500
16	●✕	●✕	●✕	●✕	✕	✕	✕	✕	✕					
20	●✕	●✕	●✕	●✕	✕	✕	✕	✕	✕	✕	✕			
25	●✕	●✕	●✕	●✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
25	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕

CODING EXAMPLE

94	N	2	A	16	A	100
94	SERIES 94 = magnetic 95 = magnetic, cushioned					
N	VERSION N = standard					
2	OPERATION 1 = single-acting, front spring 2 = double-acting 3 = double-acting, through-rod					PNEUMATIC SYMBOLS CS06 (S. 94) CD08 (S. 94) - CD09 (S. 95) CD12 (S. 94) - CD13 (S. 95)
A	MATERIALS A = stainless steel, seals in NBR V = stainless steel, all seals in FKM (150°C)					
16	BORE 16 = 16 mm 20 = 20 mm 25 = 25 mm					
A	TYPE OF DESIGN A = standard with locking ring for end cap Mod. V and piston rod lock nut Mod. U					
100	STROKE (see the table)					
	= standard V = rod seal in FKM					

Pneumatic symbols

The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.





## STAINLESS STEEL MINI-CYLINDERS SERIES 94 AND 95 - OVERVIEW ACCESSORIES

### Accessories

Foot mount Mod. B



Flange bracket Mod. E



Trunnion bracket Mod. I



Rod fork end Mod. G



Swivel ball joint Mod. GA-94/90



Piston rod lock nut Mod. U-94/90



Nose nut Mod. V-94 and Mod. U-90



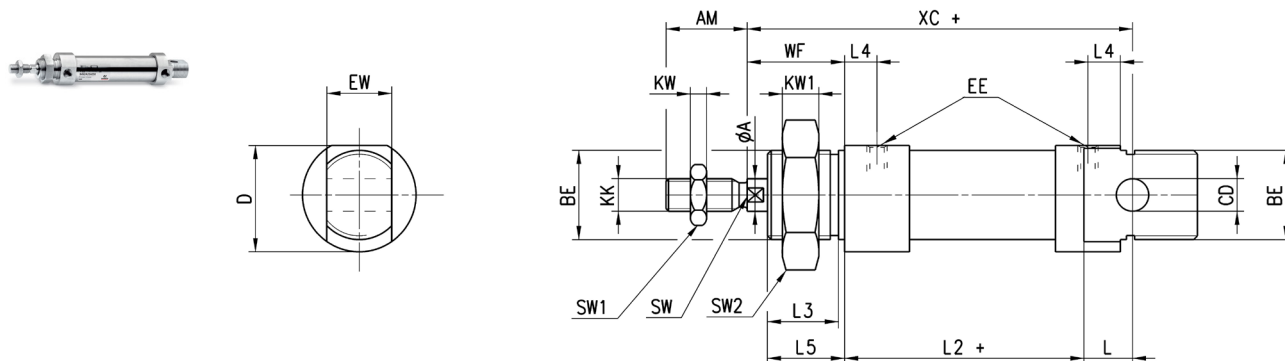
PNEUMATIC ACTUATION

1

All accessories are supplied separately, except for piston rod lock nut Mod. U

## Cylinders Series 94 and 95

With threaded front and rear end blocks

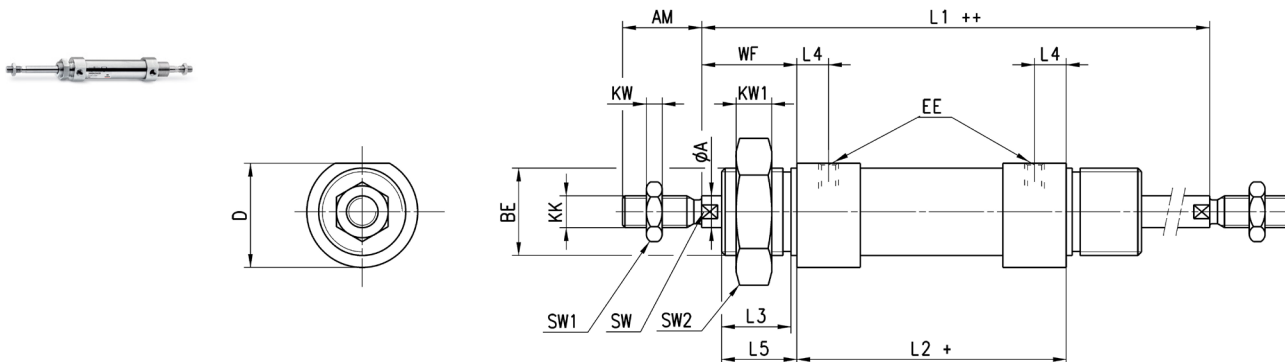


+ = add the stroke

Mod.	Ø	$\frac{A}{6}$	AM	BE	CD	D	EE	EW	KK	KW	KW1	L	L2+	L3	L4	L5	SW	SW1	SW2	WF	XC+
94	16	6	16	M16x1,5	6	21,2	M5	12	M6	4	5	9	51	14	5,5	15	5	10	24	22	82
94	20	8	20	M22x1,5	8	26,2	G1/8	16	M8	5	5	12	59	17,5	8	19	7	13	32	24	95
94-95	25	10	22	M22x1,5	8	32,5	G1/8	16	M10x1,25	6	5	12	64	18,5	7,5	20	8	17	32	28	104

## Cylinders Series 94 and 95 - through-rod

With threaded end blocks



+ = add the stroke once  
++ = add the stroke twice

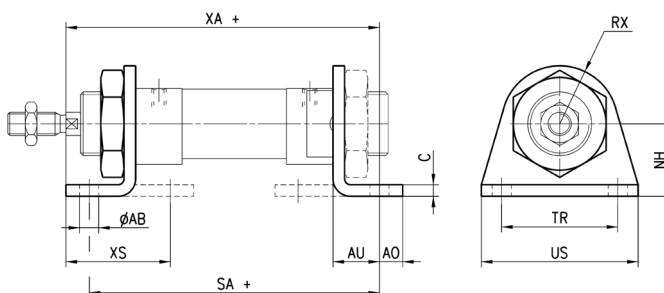
Mod.	Ø	$\frac{A}{6}$	AM	BE	D	EE	KK	KW	KW1	L1++	L2+	L3	L4	L5	SW	SW1	SW2	WF
94	16	6	16	M16x1,5	21,2	M5	M6	4	5	100	56	14	5,5	15	5	10	24	22
94	20	8	20	M22x1,5	26,2	G1/8	M8	5	5	116	68	17,5	8	19	7	13	32	24
94-95	25	10	22	M22x1,5	32,5	G1/8	M10x1,25	6	5	125	69	18,5	7,5	20	8	17	32	28

## Foot mount Mod. B INOX



**Material: Stainless Steel 304**

Supplied with:  
2x feet  
1x nut



+ = add the stroke

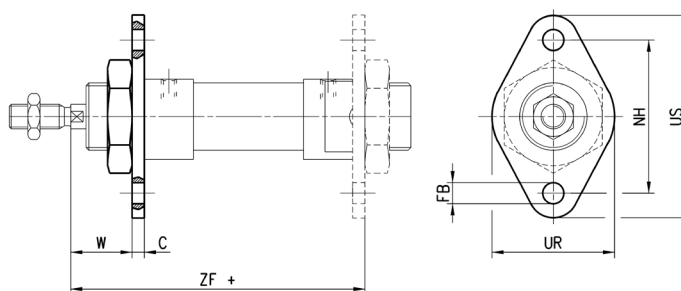
Mod.	Ø	AB	XS	XA+	SA+	AO	AU	C	RX	TR	US	NH
B-94-12-16	16	5,5	32	91	82	6	13	3	13	32	42	20
B-94-20-25	20	6,6	36	108	100	8	16	4	20	40	54	25
B-94-20-25	25	6,6	40	113	101	8	16	4	20	40	54	25

## Flange bracket Mod. E INOX



**Material: Stainless Steel 304**

Supplied with:  
1x flange



+ = add the stroke

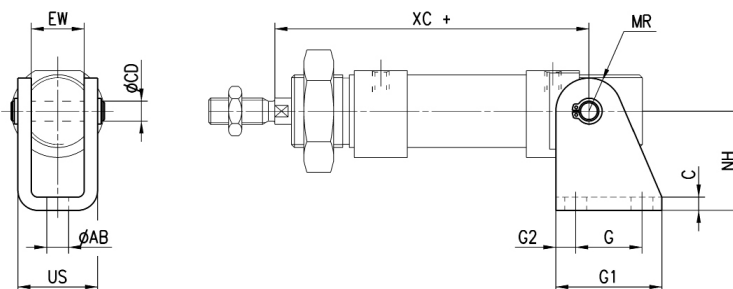
Mod.	Ø	W	C	ZF+	FB	UR	TF	UF
E-94-12-16	16	19	3	81	5,5	30	40	53
E-94-20-25	20	20	4	96	6,6	40	50	66
E-94-20-25	25	24	4	101	6,6	40	50	66

## Rear trunnion bracket Mod. I INOX



**Material: Stainless Steel 304**

Supplied with:  
1x swivel joint  
1x bolt  
2x seeger



+ = add the stroke

Mod.	Ø	AB	C	CD	EW	G	G1	G2	MR	NH	US	XC+
I-94-12-16	16	5,5	3	6	12	15	25	5	7	27	18,1	82
I-94-20-25	20	6,6	4	8	16	20	32	6	10	30	24,1	95
I-94-20-25	25	6,6	4	8	16	20	32	6	10	30	24,1	104

STAINLESS STEEL MINI-CYLINDERS  
SERIES 94 AND 95 - ACCESSORIES

## Rod fork end INOX Mod. G

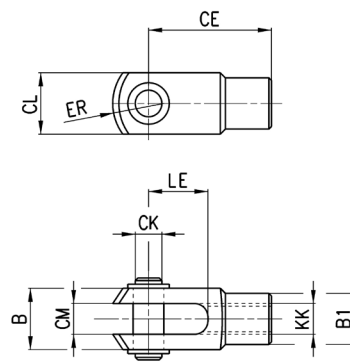
PNEUMATIC ACTUATION

1



**ISO 8140**  
Material: Stainless Steel 303

Mod.	Ø	CK	LE	KK	CM	ER	CE	CL	B	B1
<b>G-94-12-16</b>	16	6	12	M6x1	6	7	24	12	16	10
<b>G-94-20</b>	20	8	16	M8x1,25	8	10	32	16	22	14
<b>G-90-25-32</b>	25	10	20	M10x1,25	10	12	40	20	26	18

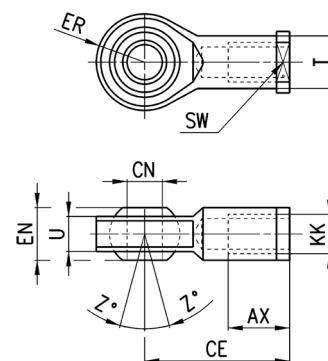


## Swivel ball joint Mod. GA INOX



**ISO 8139**  
Materials:  
- stainless steel 304 bracket  
- stainless steel 420 spherical ring  
- sintered bronze bushing

Mod.	Ø	CN	U	EN	ER	AX	CE	KK	T	Z	SW
<b>GA-94-12-16</b>	16	6	7	9	10	12	30	M6x1	10	6,5	11
<b>GA-94-20</b>	20	8	9	12	12	16	36	M8x1,25	12,5	6,5	14
<b>GA-90-32</b>	25	10	10,5	14	14	20	43	M10x1,25	15	6,5	17

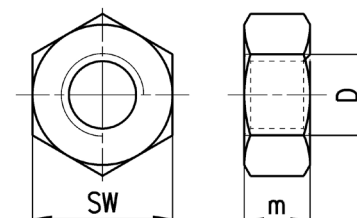


## Piston rod lock nut Mod. U INOX



**ISO 4035**  
Material: Stainless Steel 304

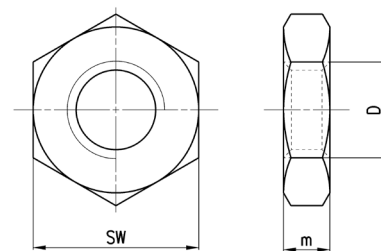
Mod.	Ø	D	M	SW
<b>U-94-12-16</b>	16	M6x1	4	10
<b>U-94-20</b>	20	M8x1,25	5	13
<b>U-90-25-32</b>	25	M10x1,25	6	17



## Nose Nut Mod. V INOX



**ISO 4035**  
Material: Stainless Steel 304

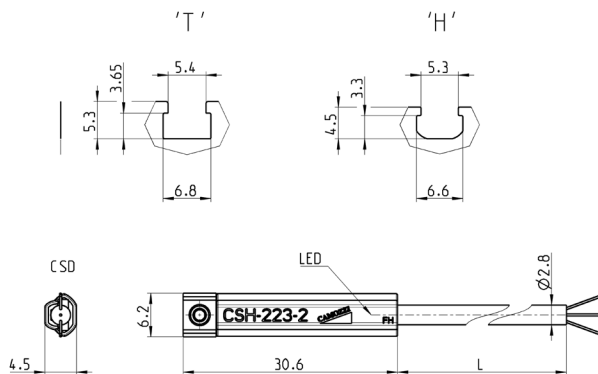


Mod.	Ø	D	M	SW
U-90-50-63	16	M16x1,5	8	24
V-94-20-25	20-25	M22x1,5	10	32

PNEUMATIC ACTUATION

1

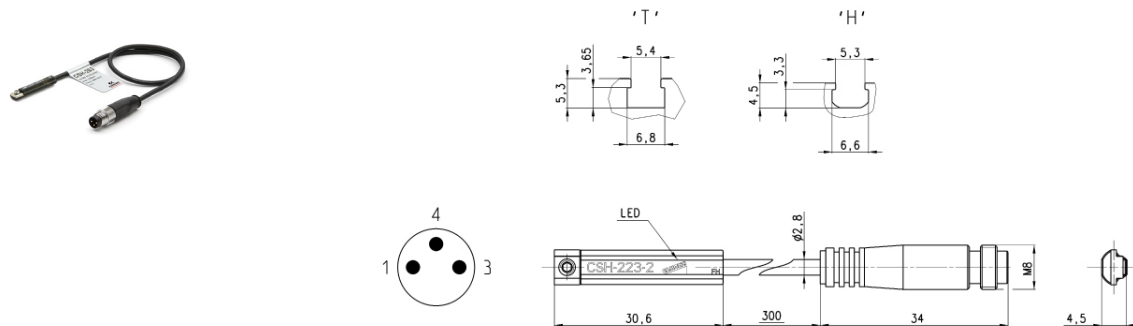
## Magnetic proximity switches with 2 or 3 wire cable for H-slot



Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection	L = cable length
CSH-223-2	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-223-5	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-223-10	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	10 m
CSH-223-2EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	2 m
CSH-223-5EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-223-10EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	10 m
CSH-221-2	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-221-5	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-221-2EX	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-221-5EX	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-233-2	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-233-5	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-233-2EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-233-5EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-334-2	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	2 m
CSH-334-5	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	5 m
CSH-334-2EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	2 m
CSH-334-5EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	5 m
CSH-433-2	Reed NC	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	2 m
CSH-433-5	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-433-2EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-433-5EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m

Note for 2-wire switches Mod. CSH-223-2, CSH-223-5, CSH-221-2, CSH-221-5:  
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

## Magnetic proximity switches with M8 3-pin connector for H-slot

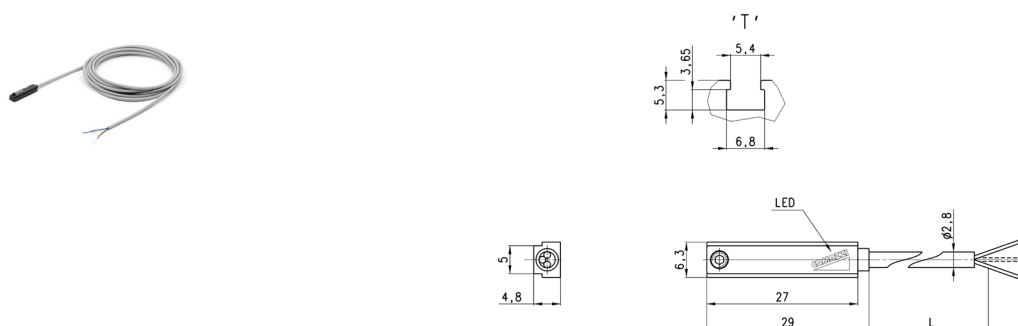


Cable length: 0,3 m

Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection
CSH-253	Reed NO	2 wires M8 male 3 pin	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing
CSH-253EX	Reed NO	2 wires M8 male 3 pin	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing
CSH-263	Reed NO	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-263EX	Reed NO	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-364	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage
CSH-364EX	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage
CSH-463	Reed NC	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-463EX	Reed NC	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing

Note for 2-wire switch Mod. CSH-253:  
in case of polarity reversing the sensor will still be operating, but LED diode won't turn on.

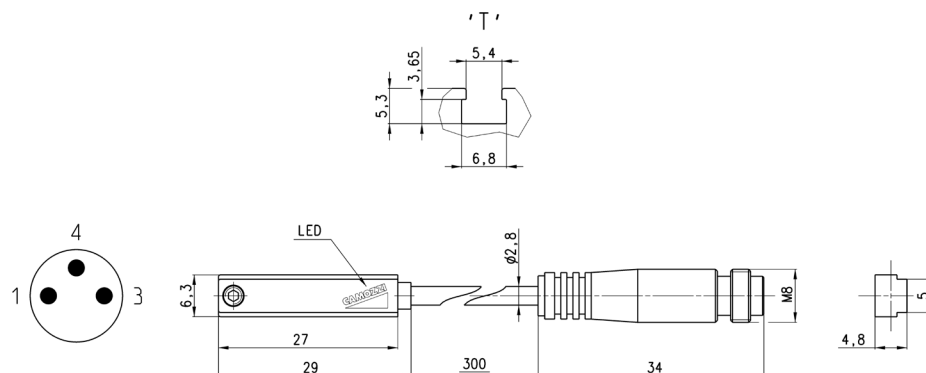
## Magnetic proximity switches with 2- or 3-wire cable for T-slot



Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L = length cable
CST-220	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	2 m
CST-220-5	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m
CST-220-12	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	12 m
CST-220EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	2 m
CST-220-5EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m
CST-220-12EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	12 m
CST-232	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-232-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-232EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-232-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	5 m
CST-332	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-332-5	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-332EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-332-5EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-432	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-432-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-432EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-432-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-532	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-532-5	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-532EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-532-5EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m

Note for 2-wire switches Mod. CST-220, CST-220-5:  
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

## Magnetic proximity switches with M8 3-pin connector for T-slot



Cable length: 0,3 m

Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection
<b>CST-250N</b>	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None
<b>CST-250NEX</b>	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None
<b>CST-262</b>	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
<b>CST-262EX</b>	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
<b>CST-362</b>	Magneto-resistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
<b>CST-362EX</b>	Magneto-resistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
<b>CST-562</b>	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
<b>CST-562EX</b>	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage

Note for 2-wire switch Mod. CST-250N:

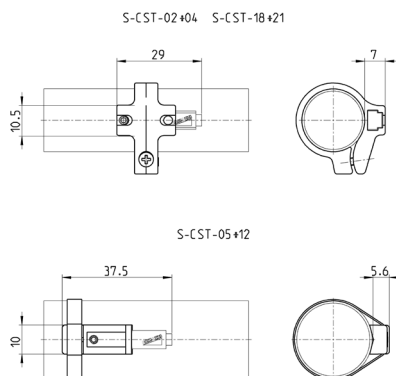
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on

## Adapters for Series CST-CSH-CSG sensors



### Materials:

technopolymer (S-CST-02÷04)



Mod.	Ø
<b>S-CST-05</b>	16, 20
<b>S-CST-06</b>	25

# STAINLESS STEEL CYLINDERS

## SERIES 97

Single- and double-acting, cushioned, magnetic.  
ø 32, 40, 50, 63 mm



- Clean design
- Stainless steel AISI 304
- Adjustable endstroke cushioning

Series 97 stainless steel cylinders can be used in critical applications where a high level of corrosion resistance is required (for example: offshore, naval, food industries).

These cylinders are normally equipped with end-stroke cushioning which can be adjusted through a screw on the end block. In order to quieten the impact of the piston on the end block, these cylinders are also equipped with mechanical cushioning.

### GENERAL DATA

Type of construction	The end blocks are screwed to the tube with an intermediate Teflon ring
Operation	Single-acting and double-acting
Materials	End blocks, tube, rod in stainless steel AISI 304 rod seals in PU, piston seals in NBR plastic guiding element, NSF H1-certified lubricant
Type of mounting	Threaded front and rear locking ring pins on front cap ends rear male hinge articulated rear male hinge rear female hinge
Stroke min-max	25 ÷ 800 mm
Operating temperature	0°C ÷ 80°C (with dry air - 20°C)
Operating pressure	1 ÷ 10 bar
Speed	10 ÷ 1000 mm/sec (without load)
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted.



STAINLESS STEEL CYLINDERS  
SERIES 97 - STANDARD STROKES

PNEUMATIC ACTUATION

1

Standard strokes

- = single-acting  
✕ = double-acting

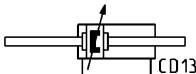
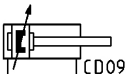
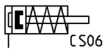
∅	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
40	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
50	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕
63	✕●	✕●	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕

CODING EXAMPLE

97	M	2	A	050	A	0200
97	SERIES					
M	VERSIONS M = rear male hinge S = articulated rear male hinge F = rear female hinge T = front and rear threaded end blocks A = front end block with pin					
2	OPERATION 1 = single-acting, front spring 2 = double-acting, front and rear cushions 6 = double-acting, through-rod, front and rear cushions (T and A versions only)					PNEUMATIC SYMBOLS CS06 CD09 CD13
A	MATERIALS A = stainless steel AISI 304 - PU seals V = stainless steel AISI 304 - FKM seals (150°C)					
050	BORE 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm					
A	TYPE OF DESIGN A = standard (locking ring for end cap V + lock nut for rod U)					
0200	STROKE (see the table)					
	= standard V = rod seal in FKM					

Pneumatic symbols

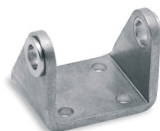
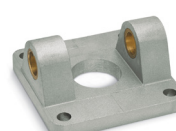
The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.



## Accessories

**Foot mount Mod. B INOX**

**Male tr. bracket with swivel ball joint Mod. R**

**Trunnion bracket Mod. I INOX**

**Rear female trunnion bracket Mod. C-H**

**Tight rear female tr. bracket Mod. CR**

**90° male tr. bracket + sw. ball joint Mod. ZCR**

**Rod fork end Mod. G INOX**

**Piston rod lock nut Mod. U-94/90**

**Nose nut Mod. V-97**

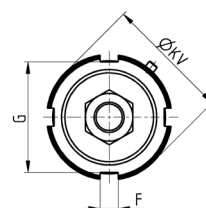
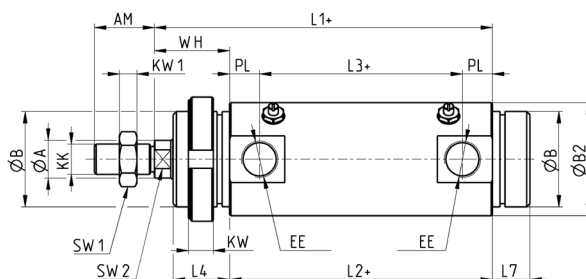
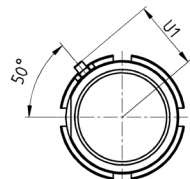
**Anti-rotation clevis pin Mod. SR-90**

**Clevis pin Mod. S-90**


STAINLESS STEEL CYLINDERS  
**SERIES 97 - DIMENSIONAL CHARACTERISTICS**

## Cylinders Series 97, Mod. T

With threaded front and rear end blocks

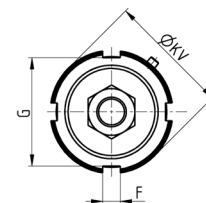
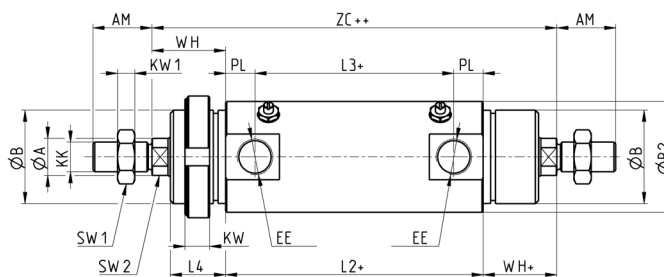
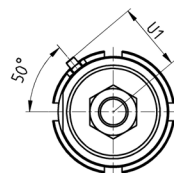


+ = add the stroke

Ø	gA	AM	gB	gB2	EE	F	G	KK	PL	SW1	KW1	SW2	U1	WH	L1+	L2+	L3+	L4	L7	KW	gKV
32	12	22	M30x1,5	36	G1/8	5	38	M10x1,25	9	17	6	10	23	26	120	94	76	19,5	15	7	42
40	16	24	M38x1,5	45	G1/4	6	50	M12x1,25	12	19	7	13	27	30	135	105	81	22,5	15	8	55
50	20	32	M45x1,5	55	G1/4	6	53	M16x1,5	12	24	8	17	33	37	143	106	82	28	18	10	60
63	20	32	M45x1,5	68	G3/8	6	53	M16x1,5	13	24	8	17	40	37	158	121	95	28	18	10	60

## Cylinders Series 97, Mod. T - through-rod

With threaded end blocks



+ = add the stroke once  
++ = add the stroke twice

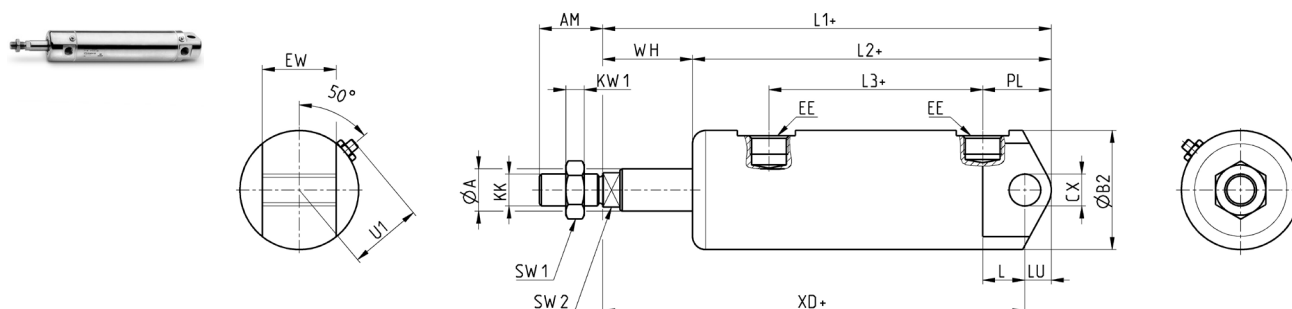
Ø	gA	AM	gB	gB2	EE	F	G	KK	PL	SW1	KW1	SW2	U1	WH	L2+	L3+	L4	KW	gKV	ZC++
32	12	22	M30x1,5	36	G1/8	5	38	M10x1,25	9	17	6	10	23	26	94	76	19,5	7	42	146
40	16	24	M38x1,5	45	G1/4	6	50	M12x1,25	12	19	7	13	27	30	105	81	22,5	8	55	165
50	20	32	M45x1,5	55	G1/4	6	53	M16x1,5	12	24	8	17	33	37	106	82	28	10	60	180
63	20	32	M45x1,5	68	G3/8	6	53	M16x1,5	13	24	8	17	40	37	121	95	28	10	60	195

## STAINLESS STEEL CYLINDERS

### SERIES 97 - DIMENSIONAL CHARACTERISTICS

#### Cylinders Series 97, Mod. M

With rear male trunnion bracket

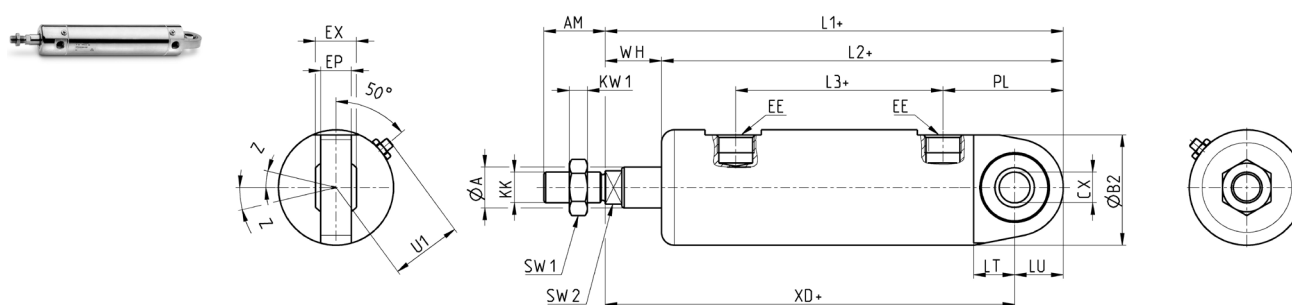


+ = add the stroke

Ø	gA	AM	gB2	CX	EE	EW	KK	PL	SW1	KW1	SW2	U1	WH	L1+	L2+	L3+	L	LU	XD+
32	12	22	36	10	G1/8	26	M10x1,25	23	17	6	10	23	26	151	125	76	13	9	142
40	16	24	45	12	G1/4	28	M12x1,25	26	19	7	13	27	34	170	136	81	16	10	160
50	20	32	55	12	G1/4	32	M16x1,5	32	24	8	17	33	37	182	145	82	16,5	12	170
63	20	32	68	16	G3/8	40	M16x1,5	29,5	24	8	17	40	50	202	152	95	21	12	190

#### Cylinders Series 97, Mod. S

With articulated rear male trunnion bracket



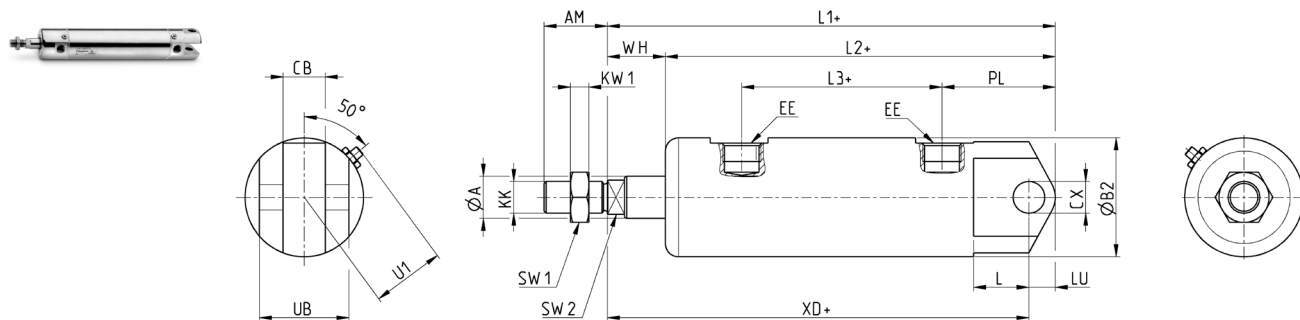
+ = add the stroke

Ø	gA	AM	gB2	CX	EE	EP	EX	KK	PL	SW1	KW1	SW2	U1	WH	L1+	L2+	L3+	LT	LU	XD+	Z
32	12	22	36	10	G1/8	10,5	14	M10x1,25	37	17	6	10	23	18	157	139	76	13	15	142	13
40	16	24	45	12	G1/4	12	16	M12x1,25	47	19	7	13	27	22	179	157	81	16	19	160	13
50	20	32	55	16	G1/4	15	21	M16x1,5	49	24	8	17	33	28,5	190,5	162	82	16,5	20,5	170	15
63	20	32	68	16	G3/8	15	21	M16x1,5	60	24	8	17	40	31,5	214	182,5	95	21	24	190	15

**STAINLESS STEEL CYLINDERS**  
**SERIES 97 - DIMENSIONAL CHARACTERISTICS**

**Cylinders Series 97, Mod. F**

With rear female trunnion bracket

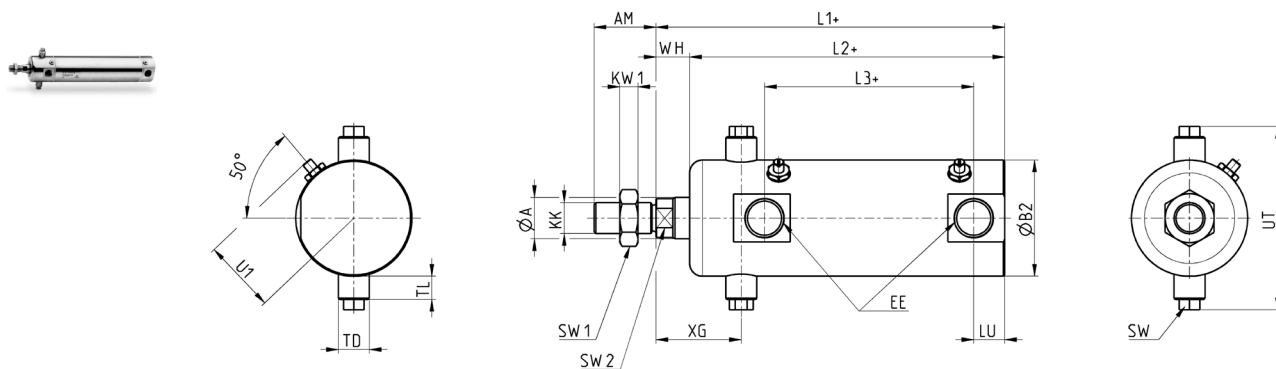


+ = add the stroke

Ø	gA	AM	gB2	CB	CX	EE	KK	PL	SW1	KW1	SW2	U1	WH	L1+	L2+	L3+	L	LU	XD+	UB
32	12	22	36	14	10	G1/8	M10x1,25	31	17	6	10	23	18	151	133	76	13	9	142	34
40	16	24	45	16	12	G1/4	M12x1,25	38	19	7	13	27	22	170	148	81	16	10	160	40
50	20	32	55	21	16	G1/4	M16x1,5	45,5	24	8	17	33	28,5	182	153,5	82	21	12	170	45
63	20	32	68	21	16	G3/8	M16x1,5	48	24	8	17	40	31,5	202	170,5	95	21	12	190	51

**Cylinders Series 97, Mod. A**

With front end block with pins



+ = add the stroke

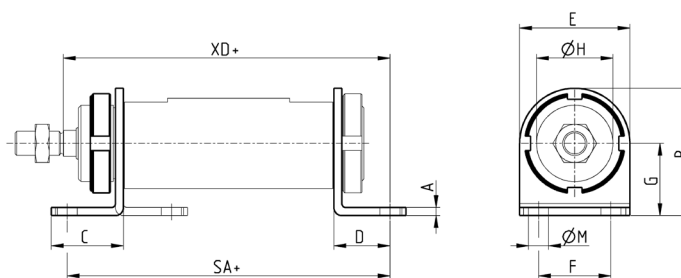
Ø	gA	AM	gB2	EE	KK	SW	SW1	KW1	SW2	U1	WH	L1+	L2+	L3+	LU	XG	TD	TL	UT
32	12	22	36	G1/8	M10x1,25	8	17	6	10	23	9	120	111	76	9	27	10	7	58
40	16	24	45	G1/4	M12x1,25	8	19	7	13	27	13	135	122	81	12	33	12	9	71
50	20	32	55	G1/4	M16x1,5	8	24	8	17	33	18	143	125	82	12	40	14	9	81
63	20	32	68	G3/8	M16x1,5	12	24	8	17	40	22,5	158	135,5	95	13	45	16	12	104

## Foot mount Mod. B INOX



**Material: Stainless Steel 304**

Supplied with:  
1x nut  
2x single feet



+ = add the stroke

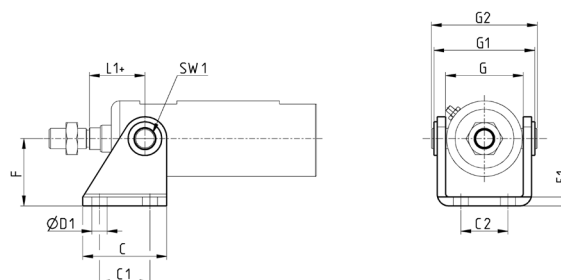
Mod.	Ø	A	B	C	D	E	SA+	F	G	ØH	ØM	XD+
B-97-32	32	4	53	35	24	42	142	32	32	30	7	142
B-97-40	40	4	63,5	36	28	55	161	36	36	38	10	160
B-97-50	50	5	77,5	47	32	65	170	45	45	45	10	170
B-97-63	63	5	82,5	45	32	65	185	50	50	45	10	190

## Trunnion bracket Mod. I INOX



**Material: Stainless Steel 304**

Supplied with:  
1x female trunnion  
2x cartridges



+ = add the stroke

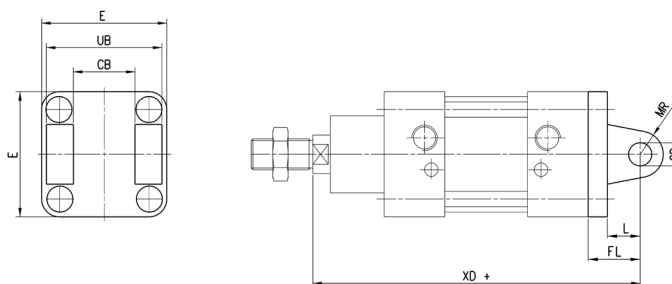
Mod.	Ø	C	C1	C2	ØD1	E1	F	G	G1	G2	L1+	SW1
I-97-32	32	40	24	20	7	4	35	38	50	58	27	8
I-97-40	40	50	30	28	9	5	40	46	60	71	33	8
I-97-50	50	54	34	36	9	6	45	57	74	81	40	8
I-97-63	63	65	35	43	9	6	50	70	88	104	45	12

## Front or rear female trunnion Mod. C-H



**Material: Stainless Steel 316**

Supplied:  
1x female trunnion  
4x screws



+ = add the stroke

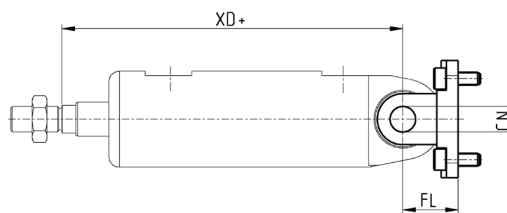
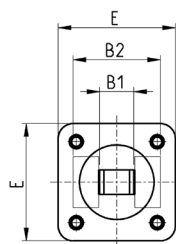
Mod.	Ø	CB	CD	E	FL	L	MR	UB	XD+
C-H-90-32	32	26	10	45	22	12	10	45	142
C-H-90-40	40	28	12	55	25	15	12	52	161
C-H-90-50	50	32	12	65	27	17	12	60	170
C-H-90-63	63	40	16	75	32	20	16	70	185

## Tight rear female trunnion bracket



**Material: Stainless Steel 316**

Supplied with:  
1x female trunnion bracket  
4x screws



+ = add the stroke

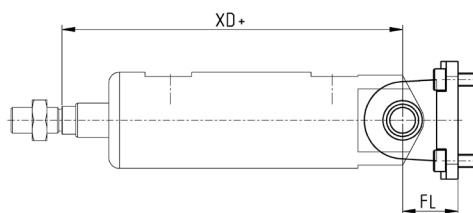
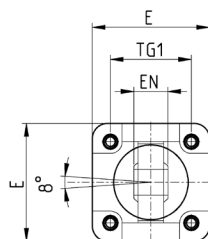
Mod.	Ø	B1	B2	E	CN	FL	XD+
CR-90-32	32	14	34	45	10	22	142
CR-90-40	40	16	40	55	12	25	160
CR-90-50	50	21	45	65	16	27	170
CR-90-63	63	21	51	75	16	32	190

## Male trunnion bracket with swivel ball joint Mod. R



**Material: Stainless Steel 316**

Supplied with:  
1x male trunnion bracket  
4x screws



+ = add the stroke

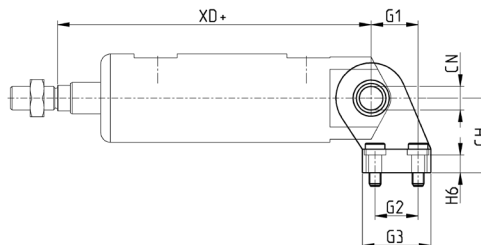
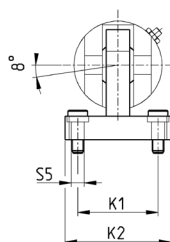
Mod.	Ø	E	EN	FL	TG1	XD+
R-90-32	32	45	14	22	32,5	142
R-90-40	40	55	16	25	38	160
R-90-50	50	65	21	27	46,5	170
R-90-63	63	75	21	32	56,5	190

## 90° male trunnion bracket with swivel ball joint Mod. ZCR



**Material: Stainless Steel 316**

Supplied with:  
1x male trunnion bracket  
4x screws



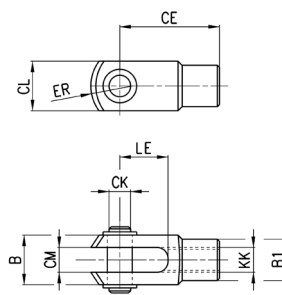
+ = add the stroke

Mod.	Ø	CH	CN	G1	G2	G3	H6	K1	K2	S5	XD+
ZCR-90-32	32	32	10	21	18	31	10	38	51	6,6	142
ZCR-90-40	40	36	12	24	22	35	10	41	54	6,6	160
ZCR-90-50	50	45	16	33	30	45	12	50	65	9	170
ZCR-90-63	63	50	16	37	35	50	12	52	67	14	190

## Rod fork end INOX Mod. G



**ISO 8140**  
Material: Stainless Steel 303

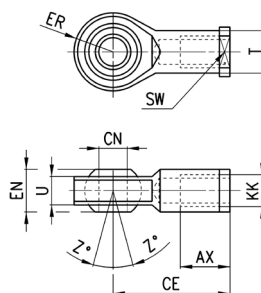


Mod.	Ø	CK	LE	CM	CL	ER	CE	KK	B	B1
<b>G-90-25-32</b>	32	10	20	10	20	12	40	M10x1,25	26	18
<b>G-90-40</b>	40	12	24	12	24	14	48	M12x1,25	31	20
<b>G-90-50-63</b>	50-63	16	32	16	32	19	64	M16x1,5	39	26

## Swivel ball joint Mod. GA INOX



**ISO 8139**  
Materials:  
- stainless steel 304 bracket  
- stainless steel 420  
spherical ring  
- sintered bronze bushing

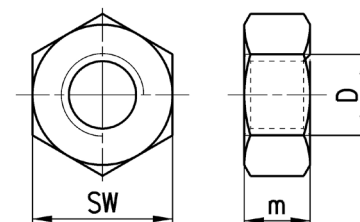


Mod.	Ø	CN	U	EN	ER	AX	CE	KK	T	Z	SW
<b>GA-90-32</b>	32	10	10,5	14	14	20	43	M10x1,25	15	6,5	17
<b>GA-90-40</b>	40	12	12	16	16	22	50	M12x1,25	17,5	6,5	19
<b>GA-90-50-63</b>	50-63	16	15	21	21	28	64	M16x1,5	22	7,5	22

## Piston rod lock nut Mod. U INOX



**ISO 4035**  
Material: Stainless Steel 304



Mod.	Ø	D	M	SW
<b>U-90-25-32</b>	32	M10x1,25	6	17
<b>U-90-40</b>	40	M12x1,25	7	19
<b>U-90-50-63</b>	50-63	M16x1,5	8	24



**STAINLESS STEEL CYLINDERS**  
**SERIES 97 - ACCESSORIES**

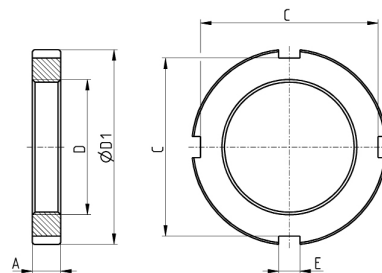
PNEUMATIC ACTUATION

1

## Nose nut Mod. V INOX



Material: Stainless Steel 304



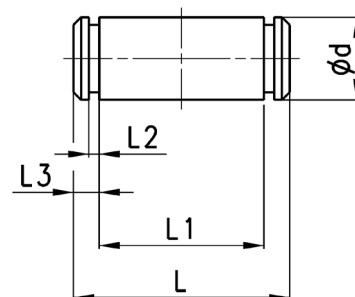
Mod.	Ø	A	D	ØD1	E	C
V-97-32	32	7	M30x1.5	42	5	38
V-97-40	40	8	M38x1.5	55	6	50
V-97-50-63	50-63	10	M45x1.5	60	6	53

## Clevis pin Mod. S INOX



Material: Stainless Steel 303

Supplied with:  
1x clevis pin  
2x seeger (steel)



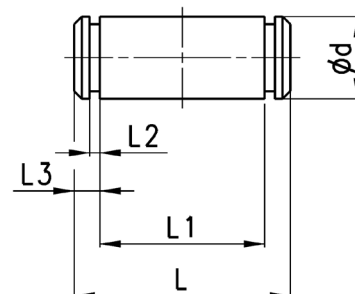
Mod.	Ø	Ød	L	L1	L2	L3
S-90-32	32	10	53	46	1,1	3
S-90-40	40	12	60	53	1,1	3
S-90-50	50	12	68	61	1,1	3
S-90-63	63	16	78	71	1,1	3

## Clevis pin Mod. S



**Materials:**  
Stainless steel Clevis pin, Steel Seeger

Supplied with:  
1x clevis pin  
2x seeger in steel



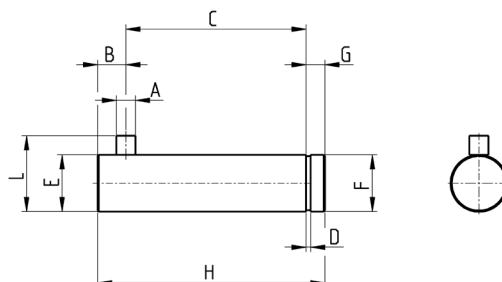
Mod.	Ø	Ød	L	L1	L2	L3
S-32	32	10	53	46	1.1	3
S-40	40	12	60	53	1.1	3
S-50	50	12	68	61	1.1	3
S-63	63	16	78	71	1.1	3

## Antirotating clevis pin Mod. SR INOX



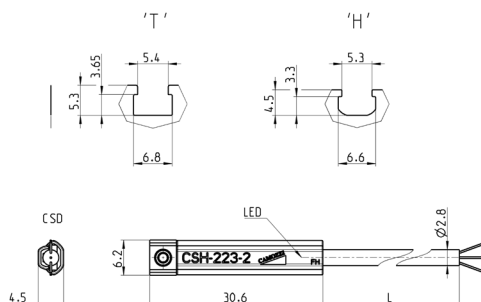
**Material: Stainless Steel 316**

Supplied with:  
1x antirotating clevis pin  
1x seeger (steel)



Mod.	Ø	A	B	C	D	E	F	G	H	L
SR-90-32	32	3	4,5	32,5	1,1	10	9,6	4	41	14
SR-90-40	40	4	6	38	1,1	12	11,5	4	48	16
SR-90-50	50	4	6	43	1,1	16	15,2	5	54	20
SR-90-63	63	4	6	49	1,1	16	15,2	5	60	20

## Magnetic proximity switches with 2 or 3 wire cable for H-slot

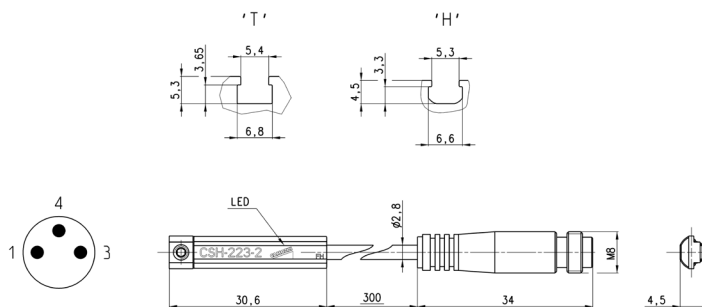


Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection	L = cable length
CSH-223-2	Reed	2 wires	10 + 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-223-5	Reed	2 wires	10 + 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-223-10	Reed	2 wires	10 + 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	10 m
CSH-223-2EX	Reed	2 wires	10 + 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	2 m
CSH-223-5EX	Reed	2 wires	10 + 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-223-10EX	Reed	2 wires	10 + 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	10 m
CSH-221-2	Reed	2 wires	30 + 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-221-5	Reed	2 wires	30 + 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-221-2EX	Reed	2 wires	30 + 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-221-5EX	Reed	2 wires	30 + 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-233-2	Reed	3 wires	10 + 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-233-5	Reed	3 wires	10 + 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-233-2EX	Reed	3 wires	10 + 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-233-5EX	Reed	3 wires	10 + 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-334-2	Magnetoresistive	3 wires	10 + 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	2 m
CSH-334-5	Magnetoresistive	3 wires	10 + 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	5 m
CSH-334-2EX	Magnetoresistive	3 wires	10 + 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	2 m
CSH-334-5EX	Magnetoresistive	3 wires	10 + 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	5 m
CSH-433-2	Reed NC	3 wires	10 + 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	2 m
CSH-433-5	Reed	3 wires	10 + 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-433-2EX	Reed	3 wires	10 + 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-433-5EX	Reed	3 wires	10 + 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m

Note for 2-wire switches Mod. CSH-223-2, CSH-223-5, CSH-221-2, CSH-221-5:  
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

STAINLESS STEEL CYLINDERS  
SERIES 97 - ACCESSORIES

## Magnetic proximity switches with M8 3-pin connector for H-slot

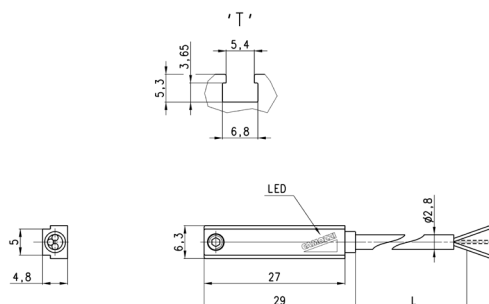


Cable length: 0,3 m

Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection
CSH-253	Reed NO	2 wires M8 male 3 pin	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing
CSH-253EX	Reed NO	2 wires M8 male 3 pin	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing
CSH-263	Reed NO	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-263EX	Reed NO	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-364	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage
CSH-364EX	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage
CSH-463	Reed NC	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-463EX	Reed NC	3 wires M8 male 3 pin	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing

Note for 2-wire switch Mod. CSH-253:  
in case of polarity reversing the sensor will still be operating, but LED diode won't turn on.

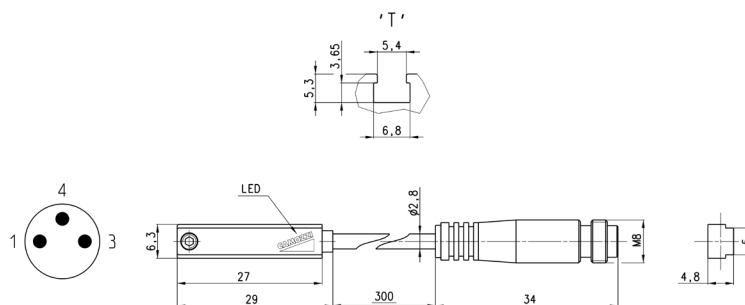
## Magnetic proximity switches with 2- or 3-wire cable for T-slot



Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L = length cable
CST-220	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	2 m
CST-220-5	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m
CST-220-12	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	12 m
CST-220EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	2 m
CST-220-5EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m
CST-220-12EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	12 m
CST-232	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-232-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-232EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-232-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	5 m
CST-332	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-332-5	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-332EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-332-5EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-432	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-432-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-432EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-432-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-532	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-532-5	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-532EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-532-5EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m

Note for 2-wire switches Mod. CST-220, CST-220-5:  
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

## Magnetic proximity switches with M8 3-pin connector for T-slot



Cable length: 0,3 m

Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection
<b>CST-250N</b>	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None
<b>CST-250NEX</b>	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None
<b>CST-262</b>	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
<b>CST-262EX</b>	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
<b>CST-362</b>	Magnetostrictive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
<b>CST-362EX</b>	Magnetostrictive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
<b>CST-562</b>	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
<b>CST-562EX</b>	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage

Note for 2-wire switch Mod. CST-250N:

in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on

## Adapters for Series CST-CSH-CSG sensors



### Materials:

technopolymer (S-CST-02÷04)

Mod.	Ø
<b>S-CST-06</b>	32
<b>S-CST-07</b>	40
<b>S-CST-08</b>	50
<b>S-CST-09</b>	63

