

CK Series

According to ISO 6432 standards



ISO 9001
BUREAU VERITAS
Certification

N° IT275286





Cylinders according to ISO 6432 standards - Series CK

Bores Ø : 12 - 16 - 20 - 25 mm.

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PNEUMATIC ACTUATORS

SERIES CK



According to ISO 6432 standards

Elastic stroke cushioning

Anodized aluminium alloy end caps

Stainless steel AISI 303 rolled piston rod

Profiled tube in anodized aluminium, internally gauged

End caps screwed on the tube in order to have a easier maintenance

Pneumatic end of stroke cushions for the bores 20 and 25.

Piston in aluminium anodized with magnetic ring

Sensors and mounting accessories

Available with ATEX certification

TECHNICAL FEATURES

Construction	Caps screwed on profiled tube
Function	CK: Double acting, standard piston rod, not magnetic, not cushioning, elastic end of stroke cushioning. CKP: Double acting, ended piston rod, not magnetic, not cushioning, elastic end of stroke cushioning. CKS: Single acting in push, standard piston rod, not magnetic, not cushioning, elastic end of stroke cushioning.
Standard materials	Caps in anodized aluminium alloy, stainless steel AISI 303 rolled piston rod Profiled tube in anodized aluminium, internally gauged, piston in aluminium anodized, seals in NBR
Note about the materials	According to REACH (1907/2006/EC and s.a.s.)
Bores	Ø 12, 16, 20, 25 mm
Standard strokes	See the standard strokes table
Special strokes (on request)	To be agreed with the Commercial Department
Working temperature	0 ÷ 80°C (standard seals, -20°C with dry air, in order to avoid formation of ice)
Working pressure	0,5 ÷ 10 bar (2 ÷ 10 bar for single action version)
Fluid	Filtered air without lubrication , according to ISO 8573-1:2010 [7:4:4]
Speed	10 ÷ 1000 mm/sec

ATEX CERTIFICATION

Cylinder marking	CE Ex II 2G Ex h IIC T6 Gb (Zona 1 e Zona 2) CE Ex II 2D Ex h IIIC 85°C Db (Zona 21 e Zona 22)
Operating pressure in ATEX environment	0,5 ÷ 10 bar
Temperature in ATEX environment	-20°C ≤ Ta ≤ +60°C
CE marking	According to Directive 2014/34/EU (see declaration of conformity)

TECHNICAL DATA

	12	16	20	25	
Bore Ø (mm)	12	16	20	25	
Ports (gas)	M5	M5	1/8"	1/8"	
Piston rod Ø (mm)	6	6	8	10	
Thread of the piston rod (male)	M6	M6	M8	M10 x 1,25	
Theoretical push thrust at 6 bar (N) ⁽¹⁾	68	121	189	295	
Theoretical pull thrust at 6 bar (N)	51	104	158	247	
Theoretical spring thrust in pull (N)	Stroke 10 mm	F1= 7,6 F2= 8,2	F1= 12,7 F2= 13,9	F1= 20,4 F2= 22,5	F1= 24,1 F2= 26,1
	Stroke 25 mm	F1= 6,8 F2= 8,2	F1= 10,9 F2= 13,9	F1= 17,4 F2= 22,5	F1= 21,1 F2= 26,1
	Stroke 50 mm	F1= 5,5 F2= 8,2	F1= 7,8 F2= 13,9	F1= 12,3 F2= 22,5	F1= 16,1 F2= 26,1
Air consumption at 6 bar in push (Nl/cm)	0,009	0,014	0,021	0,034	
Air consumption at 6 bar in pull (Nl/cm)	0,006	0,012	0,018	0,028	

⁽¹⁾ For the double ended piston rod: please consider the thrust in pull also in push - F1= Extended spring - F2 = Compresses spring

ORDERING CODE

Series	Piston rod options	Magnetic ring	Bore	Piston rod stroke	End of stroke cushions	According to directive 2014/34/EU - ATEX	Rod lock version
CK	<input type="checkbox"/>	M	16	100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	P = Double ended = Standard rod	M = With magnetic ring = Without magnetic ring	12 = Ø 12 mm 16 = Ø 16 mm 20 = Ø 20 mm 25 = Ø 25 mm	See table "standard strokes" Other strokes available on request	-A = Adjustable cushions (only for Ø20, Ø25) = Elastic bumpers	EX = According to directive 2014/34/EU = Without certifications	B = Extended rod for rod locker = Standard rod
CK = Double acting, standard rod, not magnetic, not adjustable cushioning, elastic end of stroke cushioning. CKS = Single acting, standard rod, not magnetic, not adjustable cushioning, elastic end of stroke cushioning.							

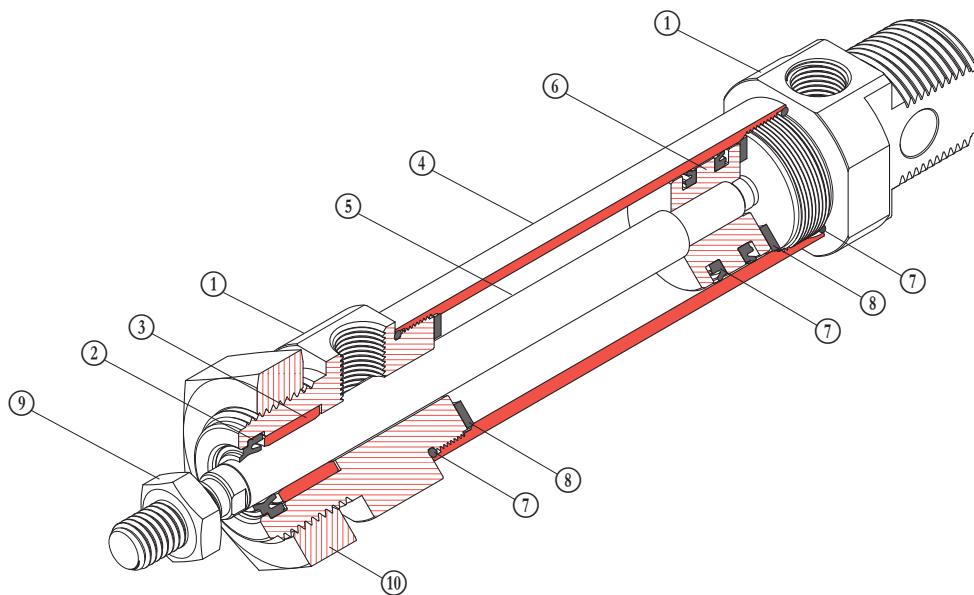
STANDARD STROKES

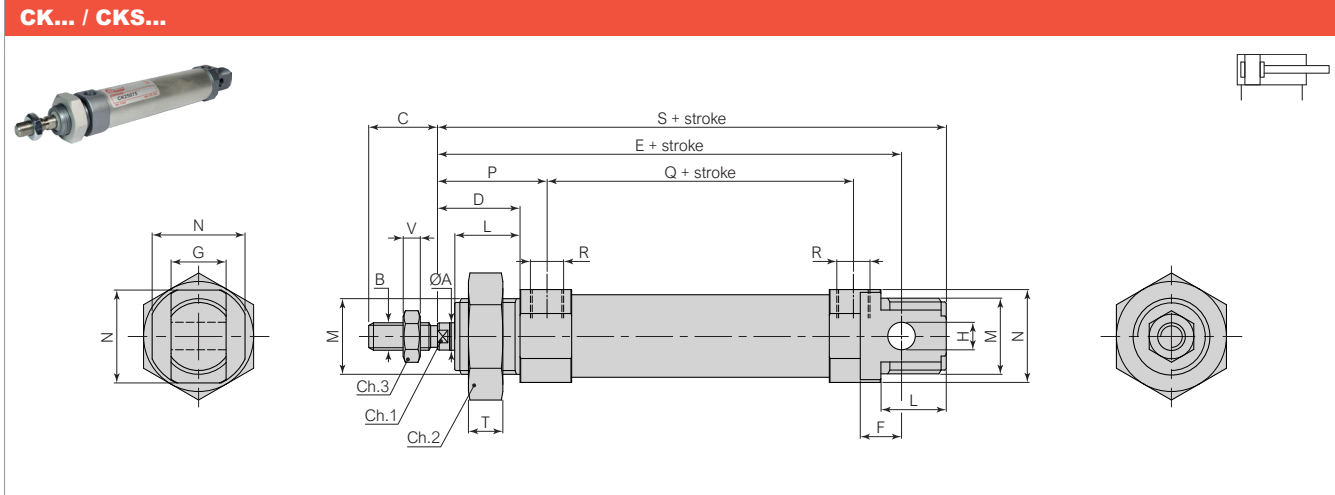
Ø	10	25	50	75	100	125	150	200	250	300 (mm)
12	D - S	D - S	D - S	D	D	D	D	D		
16	D - S	D - S	D - S	D	D	D	D	D		
20	D - S	D - S	D - S	D	D	D	D	D	D	D
25	D - S	D - S	D - S	D	D	D	D	D	D	D

D = Double acting - S = Single acting

STANDARD MATERIALS

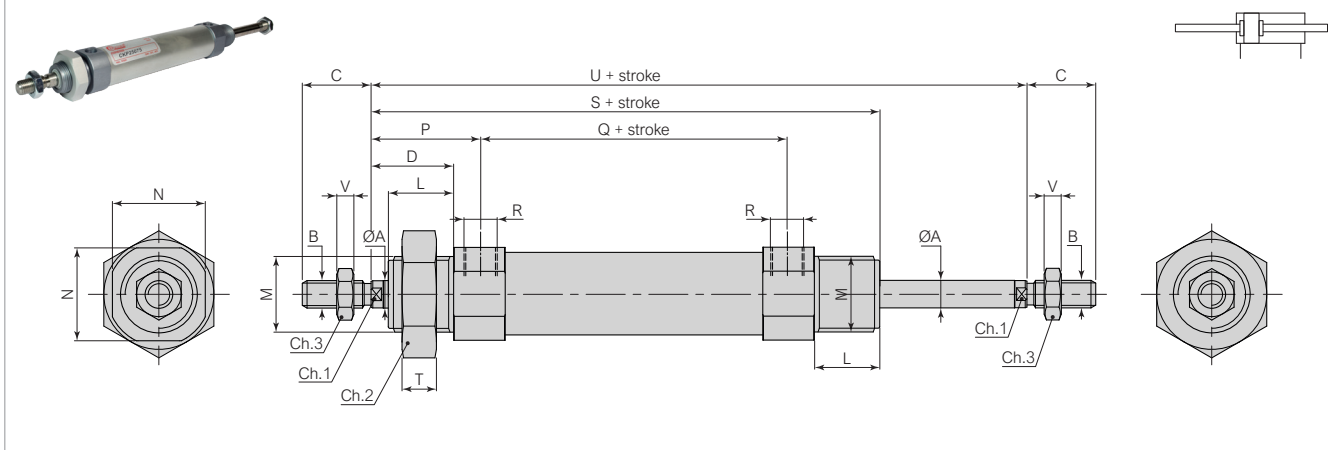
POS	DESCRIPTION	MATERIAL	POS	DESCRIPTION	MATERIAL
①	Caps	Aluminium alloy fumè anodized	⑥	Piston	Aluminium alloy anodized
②	Piston rod seal	Poliurethane (PUR)	⑦	Cap seal	Nitril rubber (NBR)
③	Guide bushing	Sintered bronze	⑧	Elastic bumper	Poliurethane (PU)
④	Profiled tube	Extruded aluminum EN AW-6060 T6	⑨	Rod nut	Zinc-plated steel
⑤	Rod	Rolled stainless steel AISI 303	⑩	Rod front cap	Aluminium alloy anodized



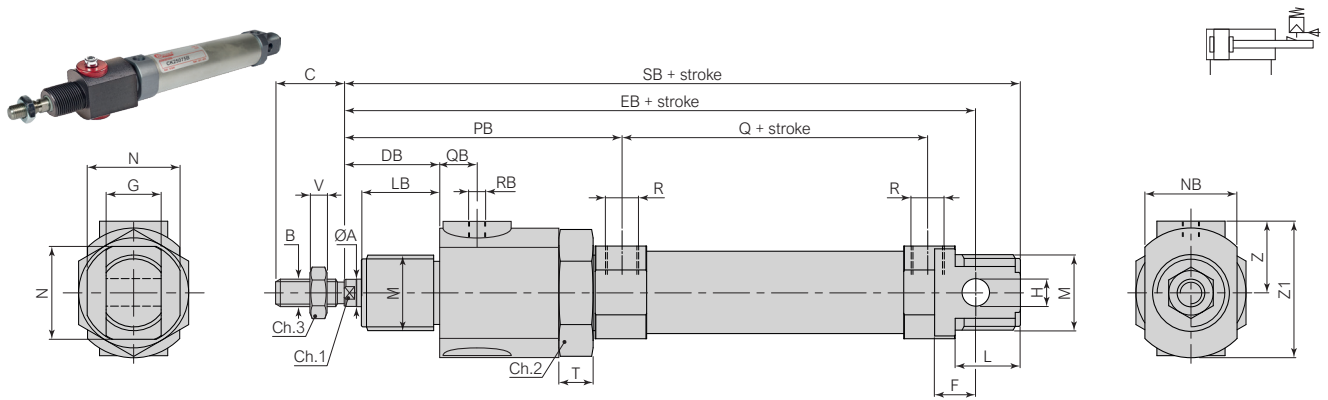


Bore	ØA	B	C	D	E+	F	G	H	L	M	N	P	Q+	R	S+	T	V	Ch1	Ch2	Ch3
mm	f7		⁰ / _{-0,20}		±1		d13	H9												
12	6	M6	16	21,5	75	9	12	6	17	M16 x 1,5	18	27,5	35,5	M5	86	6	4	5	24	10
16	6	M6	16	22	82	9	12	6	17	M16 x 1,5	20	28	42	M5	93	6	4	5	24	10
20	8	M8	20	24	95	12	16	8	19	M22 x 1,5	27	32	49	Gas 1/8"	108	10	5	7	32	13
25	10	M10 x 1,25	22	28	104	12	16	8	22	M22 x 1,5	30	36	54	Gas 1/8"	120	10	6	9	32	17

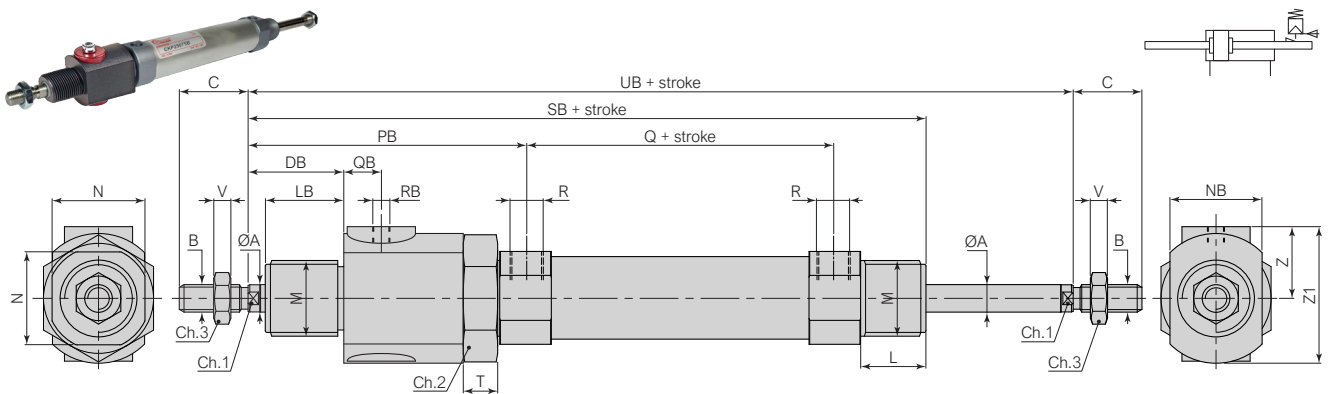
CKP... / CKSP...



Bore	ØA	B	C	D	L	M	N	P	Q+	R	S+	T	U+	V	Ch1	Ch2	Ch3
mm	f7		⁰ / _{-0,20}														
12	6	M6	16	21,5	17	M16 x 1,5	18	27,5	35,5	M5	86	6	91	4	5	24	10
16	6	M6	16	22	17	M16 x 1,5	20	28	42	M5	93	6	98	4	5	24	10
20	8	M8	20	24	19	M22 x 1,5	27	32	49	Gas 1/8"	108	10	113	5	7	32	13
25	10	M10 x 1,25	22	28	22	M22 x 1,5	30	36	54	Gas 1/8"	120	10	126	6	9	32	17

CK...B / CKS...B


Bore	ØA	B	C	DB	EB+	F	G	H	L	LB	M	N	NB	PB	Q+	QB	R	RB	SB+	T	V	Z	Z1	Ch1	Ch2	Ch3
mm	f7		⁰ _{-0,20}		±1		d13	H9																		
12	6	M6	16	15	109	9	12	6	17	12	M16 x 1,5	18	20	61,2	35,5	9	M5	M5	120	6	4	25	35	5	24	10
16	6	M6	16	15	115,5	9	12	6	17	12	M16 x 1,5	20	20	61,2	42	9	M5	M5	126,5	6	4	25	35	5	24	10
20	8	M8	20	27	144	12	16	8	19	23	M22 x 1,5	27	27	81	49	11	Gas 1/8"	M5	157	10	5	21	40	7	32	13
25	10	M10 x 1,25	22	29	153	12	16	8	22	23	M22 x 1,5	30	27	85	54	11	Gas 1/8"	M5	169	10	6	45	62	9	32	17

CKP...B / CKSP...B


Bore	ØA	B	C	DB	L	LB	M	N	NB	PB	Q+	QB	R	RB	SB+	T	UB+	V	Z	Z1	Ch1	Ch2	Ch3	
mm	f7		⁰ _{-0,20}																					
12	6	M6	16	15	17	12	M16 x 1,5	18	20	61,2	35,5	9	M5	M5	120	6	112	4	25	35	5	24	10	
16	6	M6	16	15	17	12	M16 x 1,5	20	20	61,2	42	9	M5	M5	126,5	6	119	4	25	35	5	24	10	
20	8	M8	20	27	19	23	M22 x 1,5	27	27	81	49	11	Gas 1/8"	M5	157	10	150	5	21	40	7	32	13	
25	10	M10 x 1,25	22	29	22	23	M22 x 1,5	30	27	85	54	11	Gas 1/8"	M5	169	10	160	6	45	62	9	32	17	

Cylinders with round profile end cap - Series CT

Bores Ø : 12 - 16 - 20 - 25 mm.

1

PNEUMATIC ACTUATORS

SERIES CT



Elastic stroke cushioning

Anodized aluminium alloy end caps

Stainless steel AISI 303 rolled piston rod

Profiled tube in anodized aluminium, internally gauged

End caps screwed on the tube in order to have a easier maintenance

Piston in aluminium anodized with magnetic ring

Sensors and mounting accessories

Available with ATEX certification

TECHNICAL FEATURES

Construction	Caps screwed on profiled tube
Function	CT: Double acting, standard piston rod, not magnetic, not cushioning, elastic end of stroke cushioning. CTS: Single acting in push, standard piston rod, not magnetic, not cushioning, elastic end of stroke cushioning.
Standard materials	Caps in anodized aluminium alloy, stainless steel AISI 303 rolled piston rod Profiled tube in anodized aluminium, internally gauged, piston in aluminium anodized, seals in NBR
Note about the materials	According to REACH (1907/2006/EC and s.a.s.)
Bores	Ø 12, 16, 20, 25 mm
Standard strokes	See the standard strokes table
Special strokes (on request)	To be agreed with the Commercial Department
Working temperature	0 ÷ 80°C (standard seals, -20°C with dry air, in order to avoid formation of ice)
Working pressure	0,5 ÷ 10 bar (2 ÷ 10 bar for single action version)
Fluid	Filtered air without lubrication , according to ISO 8573-1:2010 [7:4:4]
Speed	10 ÷ 1000 mm/sec

ATEX CERTIFICATION

Cylinder marking	CE Ex II 2G Ex h IIC T6 Gb (Zona 1 e Zona 2) CE Ex II 2D Ex h IIIC 85°C Db (Zona 21 e Zona 22)
Operating pressure in ATEX environment	0,5 ÷ 10 bar
Temperature in ATEX environment	-20°C ≤ Ta ≤ +60°C
CE marking	According to Directive 2014/34/EU (see declaration of conformity)

TECHNICAL DATA

	12	16	20	25	
Bore Ø (mm)	12	16	20	25	
Ports (gas)	M5	M5	1/8"	1/8"	
Piston rod Ø (mm)	6	6	8	10	
Thread of the piston rod (male)	M6	M6	M8	M10 x 1,25	
Theoretical push thrust at 6 bar (N) ⁽¹⁾	68	121	189	295	
Theoretical pull thrust at 6 bar (N)	51	104	158	247	
Theoretical spring thrust in pull (N)	Stroke 10 mm	F1= 7,6 F2= 8,2	F1= 12,7 F2= 13,9	F1= 20,4 F2= 22,5	F1= 24,1 F2= 26,1
	Stroke 25 mm	F1= 6,8 F2= 8,2	F1= 10,9 F2= 13,9	F1= 17,4 F2= 22,5	F1= 21,1 F2= 26,1
	Stroke 50 mm	F1= 5,5 F2= 8,2	F1= 7,8 F2= 13,9	F1= 12,3 F2= 22,5	F1= 16,1 F2= 26,1
Air consumption at 6 bar in push (Nl/cm)	0,009	0,014	0,021	0,034	
Air consumption at 6 bar in pull (Nl/cm)	0,006	0,012	0,018	0,028	

⁽¹⁾ For the double ended piston rod: please consider the thrust in pull also in push - F1= Extended spring - F2 = Compresses spring

ORDERING CODE

Series	Magnetic ring	Bore	Piston rod stroke	According to directive 2014/34/EU - ATEX	Rod lock version	Rear supply port
CT	M	16	100			
CT = Double acting, standard rod, not magnetic, not adjustable cushioning, elastic end of stroke cushioning. CTS = Single acting, standard rod, not magnetic, not adjustable cushioning, elastic end of stroke cushioning.	M = With magnetic ring = Without magnetic ring	12 = Ø 12 mm 16 = Ø 16 mm 20 = Ø 20 mm 25 = Ø 25 mm	See table "standard strokes" Other strokes available on request	EX = According to directive 2014/34/EU = Without certifications	B = Extended rod for rod locker = Standard rod	-1 = Longitudinal port -2 = Radial port

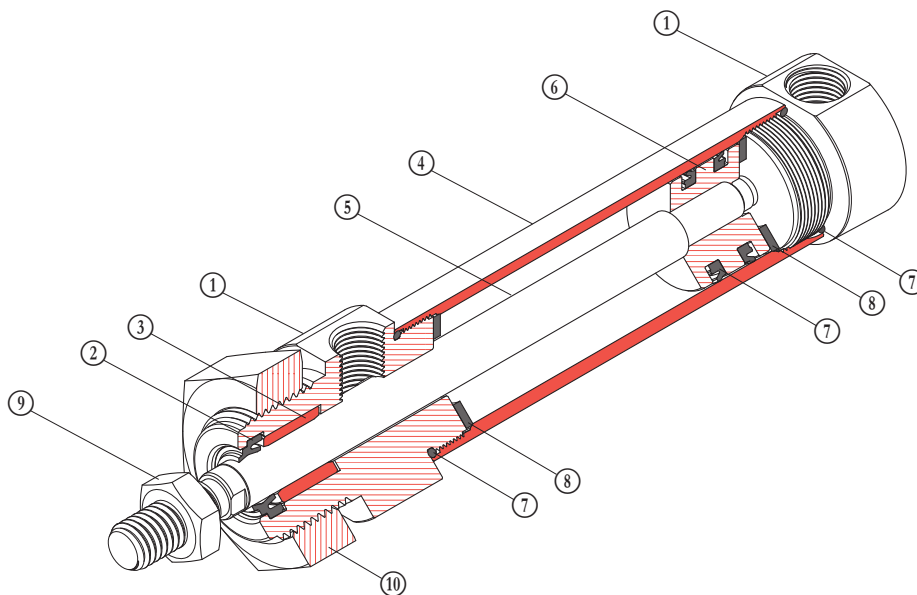
STANDARD STROKES

Ø	10	25	50	75	100	125	150	200	250	300 (mm)
12	D - S	D - S	D - S	D	D	D	D	D		
16	D - S	D - S	D - S	D	D	D	D	D		
20	D - S	D - S	D - S	D	D	D	D	D	D	D
25	D - S	D - S	D - S	D	D	D	D	D	D	D

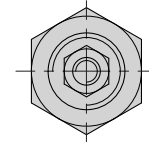
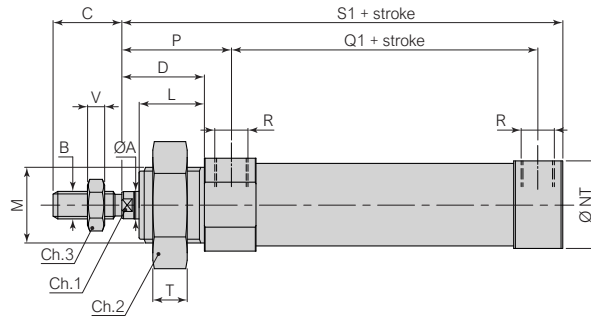
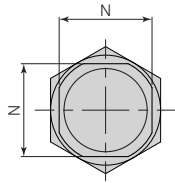
D = Double acting - S = Single acting

STANDARD MATERIALS

POS	DESCRIPTION	MATERIAL	POS	DESCRIPTION	MATERIAL
①	Caps	Aluminium alloy fumè anodized	⑥	Piston	Aluminium alloy anodized
②	Piston rod seal	Poliurethane (PUR)	⑦	Cap seal	Nitril rubber (NBR)
③	Guide bushing	Sintered bronze	⑧	Elastic bumper	Poliurethane (PU)
④	Profiled tube	Extruded aluminum EN AW-6060 T6	⑨	Rod nut	Zinc-plated steel
⑤	Rod	Rolled stainless steel AISI 303	⑩	Front cap nut	Aluminium alloy anodized

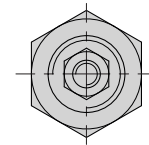
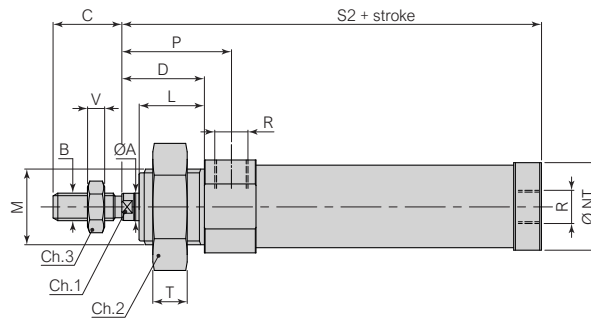
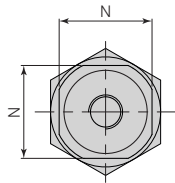


CT...-1 / CTS...-1

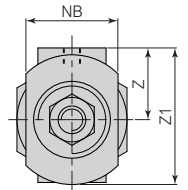
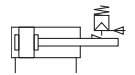
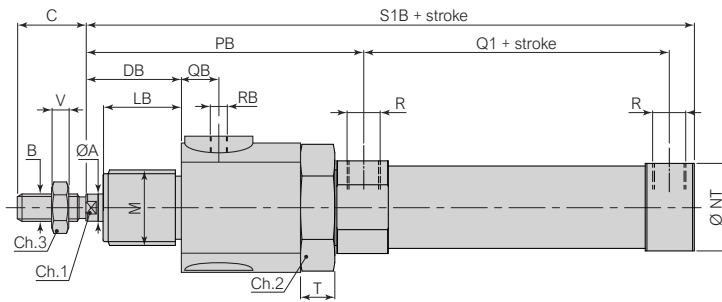
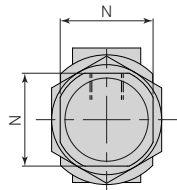


Bore mm	ØA f7	B	C ⁰ _{-0,20}	D	L	M	N	ØNT	P	Q1+	R	S1+	T	V	Ch1	Ch2	Ch3
12	6	M6	16	21,5	17	M16 x 1,5	18	16	27,5	36,5	M5	69	6	4	5	24	10
16	6	M6	16	22	17	M16 x 1,5	20	20	28	43	M5	48	6	4	5	24	10
20	8	M8	20	24	19	M22 x 1,5	27	24	32	50	Gas 1/8"	58	10	5	7	32	13
25	10	M10 x 1,25	22	28	22	M22 x 1,5	30	30	36	55	Gas 1/8"	63	10	6	9	32	17

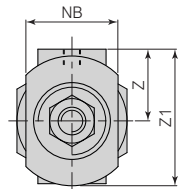
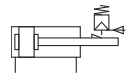
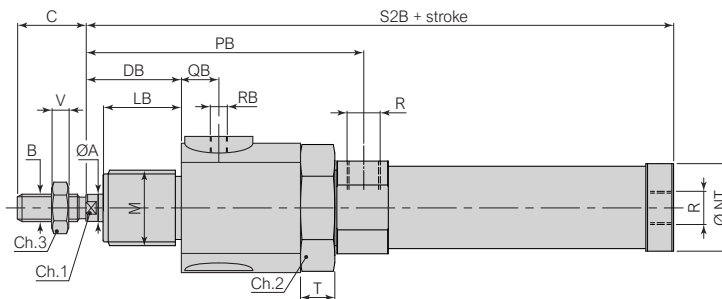
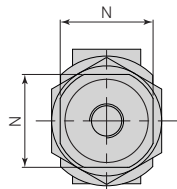
CT...-2 / CTS...-2



Bore mm	ØA f7	B	C ⁰ _{-0,20}	D	L	M	N	ØNT	P	R	S2+	T	V	Ch1	Ch2	Ch3
12	6	M6	16	21,5	17	M16 x 1,5	18	16	27,5	M5	69	6	4	5	24	10
16	6	M6	16	22	17	M16 x 1,5	20	20	28	M5	76	6	4	5	24	10
20	8	M8	20	24	19	M22 x 1,5	27	24	32	Gas 1/8"	82,5	10	5	7	32	13
25	10	M10 x 1,25	22	28	22	M22 x 1,5	30	30	36	Gas 1/8"	91,5	10	6	9	32	17

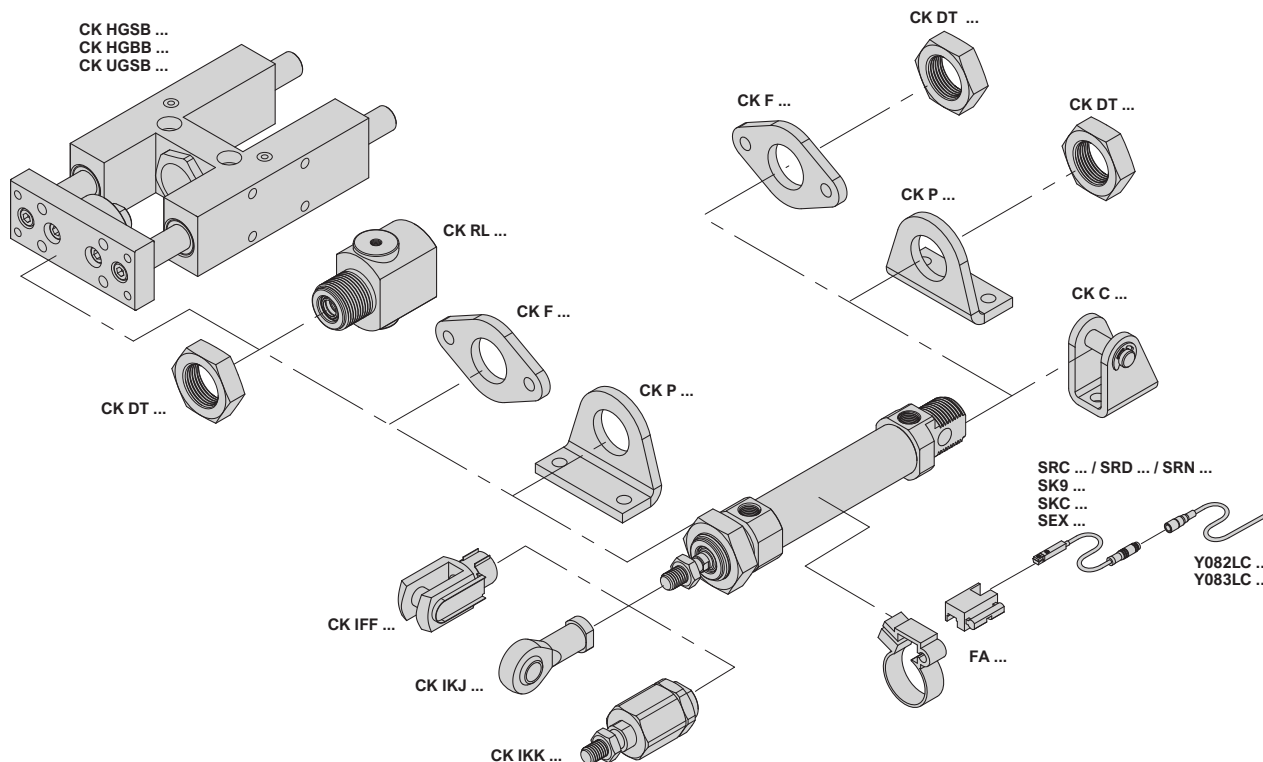
CT...B-1 / CTS...B-1


Bore mm	ØA f7	B	C 0 -0,20	DB	LB	M	NB	N	ØNT	PB	Q1+	QB	R	RB	S1B+	T	V	Z	Z1	Ch1	Ch2	Ch3
12	6	M6	16	15	12	M16 x 1,5	20	18	16	61,2	36,5	9	M5	M5	102,7	6	4	25	35	5	24	10
16	6	M6	16	15	12	M16 x 1,5	20	20	20	61,2	43	9	M5	M5	109,2	6	4	25	35	5	24	10
20	8	M8	20	27	23	M22 x 1,5	27	27	24	81	50	11	Gas 1/8"	M5	139	10	5	21	40	7	32	13
25	10	M10 x 1,25	22	29	23	M22 x 1,5	27	30	30	85	55	11	Gas 1/8"	M5	148	10	6	45	62	9	32	17

CT...B-2 / CTS...B-2


Bore mm	ØA f7	B	C 0 -0,20	DB	LB	M	NB	N	ØNT	PB	QB	R	RB	S2B+	T	V	Z	Z1	Ch1	Ch2	Ch3
12	6	M6	16	16,5	12	M16 x 1,5	20	18	16	61,2	9	M5	M5	102,7	6	4	25	35	5	24	10
16	6	M6	16	17	12	M16 x 1,5	20	20	20	61,2	9	M5	M5	109,2	6	4	25	35	5	24	10
20	8	M8	20	28	23	M22 x 1,5	27	27	24	81	11	Gas 1/8"	M5	131,5	10	5	21	40	7	32	13
25	10	M10 x 1,25	22	29	23	M22 x 1,5	27	30	30	85	11	Gas 1/8"	M5	140,5	10	6	45	62	9	32	17

ACCESSORIES



All mounting accessories are supplied complete with screws for fixing to cylinder

The sensors must be purchased with FA .. bracket to mounting on the cylinder (Page 1.1.05.17)

	CK FF ... Female clevis	CK KJ ... Self-lubricating oscillating joint	CK KK ... Self-aligning joint angular and radial	CK DT ... Front cap nut	CK C ... Rear pivot with pin	CK P ... Foot	CK F ... Flange	CK RL ... Static locking unit	CK SG ... Standard seals kit
Ø	Page 1.1.05.10	Page 1.1.05.10	Page 1.1.05.10	Page 1.1.05.11	Page 1.1.05.11	Page 1.1.05.11	Page 1.1.05.11	Page 1.1.05.14	
12	CK FF 12	CK KJ 12	CK KK 12	CK DT 12	CK C 12	CK P 12	CK F 12	CK RL 12	
16	CK FF 16	CK KJ 16	CK KK 16	CK DT 16	CK C 16	CK P 16	CK F 16	CK RL 16	
20	CK FF 20	CK KJ 20	CK KK 20	CK DT 20	CK C 20	CK P 20	CK F 20	CK RL 20	
25	CK FF 25	CK KJ 25	CK KK 25	CK DT 25	CK C 25	CK P 25	CK F 25	CK RL 25	
	Clevis and lockable pins in white galvanized steel	Joint: White galvanized steel Bush: sinterized bronze	Joint and nut in galvanized steel, Pin in blacked steel	Anodized aluminium alloy	Rear pivot and pin: Galvanized steel Seeger: phosphated steel	White galvanized steel	White galvanized steel	Body: Anodised aluminium Jaws: Brass Springs: Spring steel	Rod seals: Polyurethane Other seals: NBR
	CK HGSB ... Piston rod guide H shape with slide bearings support	CK HGGB ... Piston rod guide H shape with ball bearings support	CK UGSB ... Piston rod guide U shape with slide bearings support	SR ... NC sensors REED / HALL	SK9 ... IP69K sensor PNP	SKC ... Precise position sensor PNP	SEX ... ATEX II3G sensor PNP	Y082LC/Y083LC Straight connectors	FA ... Bracket for sensor
Ø	Page 1.1.05.12	Page 1.1.05.12	Page 1.1.05.13	Page 1.1.05.15	Page 1.1.05.16	Page 1.1.05.16	Page 1.1.05.16	Page 1.1.05.17	Page 1.1.05.17
12	CK HGSB 12	CK HGGB 12	CK UGSB 12						FA 12
16	CK HGSB 16	CK HGGB 16	CK UGSB 16						FA 16
20	CK HGSB 20	CK HGGB 20	CK UGSB 20						FA 20
25	CK HGSB 25	CK HGGB 25	CK UGSB 25						FA 25
	Body: Anodised aluminium Rods: Chrome plated steel Bush: Sinterized bronze	Body: Anodised aluminium Rods: Chrome plated steel Bush: Spherical bearings	Body: Anodised aluminium Rods: Chrome plated steel Bush: Sinterized bronze	Sensor: PA6 Cable: PUR	Sensor: PA12 Cable: PUR	Sensor: PA Cable: PUR	Sensor: PA Cable: PVC	Connector: PVC Contacts: Gilded brass Cable: PVC	Bracket: Nylon Screw: White galvanized steel

PISTON ROD ACCESSORIES

CK FF ... Female clevis	Bore mm	Code	AA	AB	ØAC	AD	AE	AF	AG	AH	AL
					h11	h11	±0,5	±0,5		+0,30 -0,16	
	12	CK FF 12	6	M6	6	12	12	31	24	±0,3	12 2
	16	CK FF 16	6	M6	6	12	12	31	24		12 2
	20	CK FF 20	8	M8	8	16	16	42	32	±0,4	16 3
	25	CK FF 25	10	M10 x 1,25	10	20	20	52	40		20 3

CK FF ... Clevis and clip in zinc plated steel / 1 piece each package

CK KJ ... Self-lubricating oscillating joint	Bore mm	Code	AB	ØAC	AM	AN	AO	AP	AQ	ØAR	ØAS	ØAT	AU	AV	AZ
				H7		Ch									
	12	CK KJ 12	M6	6	12	11	20	9	6,75	8,9	10	13	5	30	40
	16	CK KJ 16	M6	6	22	11	20	9	6,75	8,9	10	13	5	30	40
	20	CK KJ 20	M8	8	28	14	24	12	9	10,4	12,5	16	5	36	48
	25	CK KJ 25	M10 x 1,25	10	28	17	28	14	10,5	12,9	15	19	6,5	43	57

CK KJ ... Joint in zinc plated steel, bush in sintered bronze, ring in hardened bearing steel / 1 piece each package

CK KK ... Self-aligning joint angular and radial	Bore mm	Code	A	B	C	D	E	ØF	ØG	ØH	L	M	Ch1	Ch2	Ch3	°β	Static load daN
	12	CK KK 12	M6	35	11	2,5	17,5	6	8,5	14,5	1	12,5	5	7	13	6	120
	16	CK KK 16	M6	35	11	2,5	17,5	6	8,5	14,5	1	12,5	5	7	13	6	120
	20	CK KK 20	M8	57	21	5	26	8	12,5	19	2	16	7	11	17	8	250
	25	CK KK 25	M10 x 1,25	71,5	20	7,5	35	14	22	32	2	22	12	19	30	8	500

CK KK ... Joint and nut in zinc plated steel, pin in burnished steel / 1 piece each package

MOUNTING ACCESSORIES

CK DT ... Front cap nut	Bore mm	Code	M	T	Ch2
	12	CK KK 12	M16 x 1,5	6	24
	16	CK KK 16	M16 x 1,5	6	24
	20	CK KK 20	M22 x 1,5	10	32
	25	CK KK 25	M22 x 1,5	10	32

CK DT ... Front cap nut in anodized aluminium alloy / 1 piece each package

CK C ... Rear pivot with pin	Bore mm	Code	C ±0,2	ØD H13	E + ±1	E1	F1	G ±0,2	G1 ^{+0,20} ₀	ØH1 f8	N1	R1	U JS13	V
	12	CK C 12	27	5,5	75	25	5	2,5	12,1	6	18	7	15	18
	16	CK C 16	27	5,5	82	25	5	2,5	12,1	6	18	7	15	18
	20	CK C 20	30	6,6	95	32	6	3	16,1	8	24	10	20	22
	25	CK C 25	30	6,6	104	32	6	3	16,1	8	24	10	20	22

CK C ... Rear pivot and pin in zinc plated steel , seeger in phosphated steel / 1 piece each package

CK P ... Foot	Bore mm	Code	A JS13	B	C2 ±0,2	ØD H13	E	F	G2 ±0,2	H	L +	M	S
	12	CK P 12	32	31,5	20	5,5	20	6	4	42	75,5	7,5	13
	16	CK P 16	32	32	20	5,5	20	6	4	42	82	8	13
	20	CK P 20	40	36	25	6,6	25	8	5	54	99	7	20
	25	CK P 25	40	40	25	6,6	25	8	5	54	104	11	20

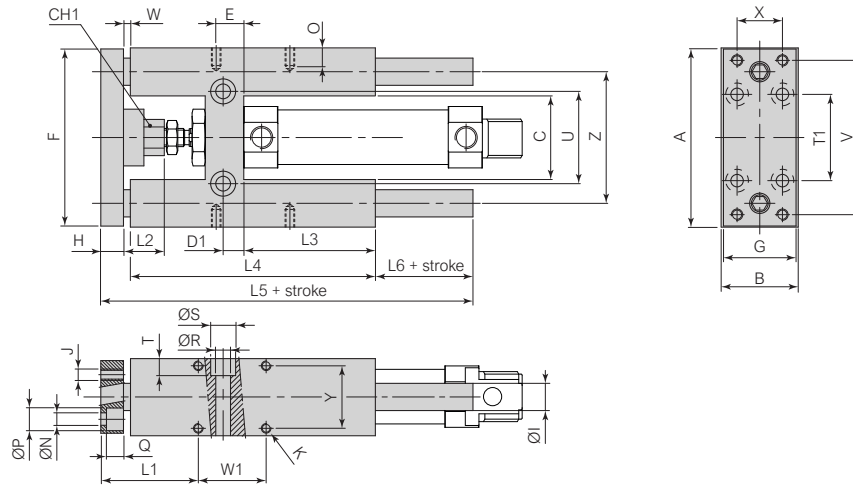
CK P ... Foot in zinc plated steel / 1 piece each package

CK F ... Flange	Bore mm	Code	D H13	N	O JS13	P	Q	R ±0,2	T +
	12	CK F 12	5,5	52	40	52	17,5	4	73,5
	16	CK F 16	5,5	52	40	52	18	4	80
	20	CK F 20	6,6	66	50	66	19	5	94
	25	CK F 25	6,6	66	50	66	23	5	103

CK F ... Flange in zinc plated steel / 1 piece each package

GUIDE UNITS
CK HGSB ...

Piston rod guide H shape with slide bearings support



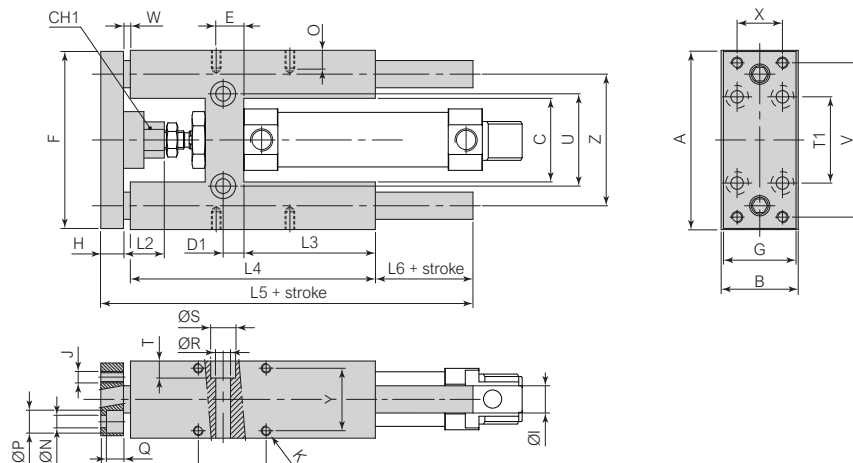
Bore mm	Code	A	B	C	Ch1	D	D1	E	F	G	H	ØI	J	K	L1	L2	L3	L4
16	CK HGSB 16 ...	69	30	30	8	12	6	8	66	29	10	10	M4	M4	-	18	46	68
20	CK HGSB 20 ...	79	34	37	12	17	8,5	15	78	32	12	12	M5	M6	50	18	58	108
25	CK HGSB 25 ...	79	34	37	12	17	8,5	15	78	32	12	12	M5	M6	50	18	58	108

Bore mm	Code	L5+	L6+	N	O	P	Q	ØR	ØS	T	T1	U	V	W	W1	X	Y	Z
16	CK HGSB 16 ...	123,5	73	4,5	6	8	4,5	5,5	9	5,5	32	24	58	2,5	18	74	22	49,5
20	CK HGSB 20 ...	166	43	5,5	9	10	7,5	6,5	11	6,5	38	38	68	3	32,5	87	23	58
25	CK HGSB 25 ...	166	43	5,5	9	10	7,5	6,5	11	6,5	38	38	68	3	32,5	104	23	58

CK HGSB ... Body and plate in anodized aluminium, piston rods in chromium plated steel, joint in stainless steel, bushes in sintered bronze, seals in NBR / 1 piece each package

CK HGBB ...

Piston rod guide H shape with ball bearings support



Bore mm	Code	A	B	C	Ch1	D	D1	E	F	G	H	ØI	J	K	L1	L2	L3	L4
16	CK HGBB 16 ...	69	30	30	8	12	6	8	66	29	10	8	M4	M4	-	18	46	68
20	CK HGBB 20 ...	79	34	37	12	17	8,5	15	78	32	12	10	M5	M6	50	18	58	108
25	CK HGBB 25 ...	79	34	37	12	17	8,5	15	78	32	12	10	M5	M6	50	18	58	108

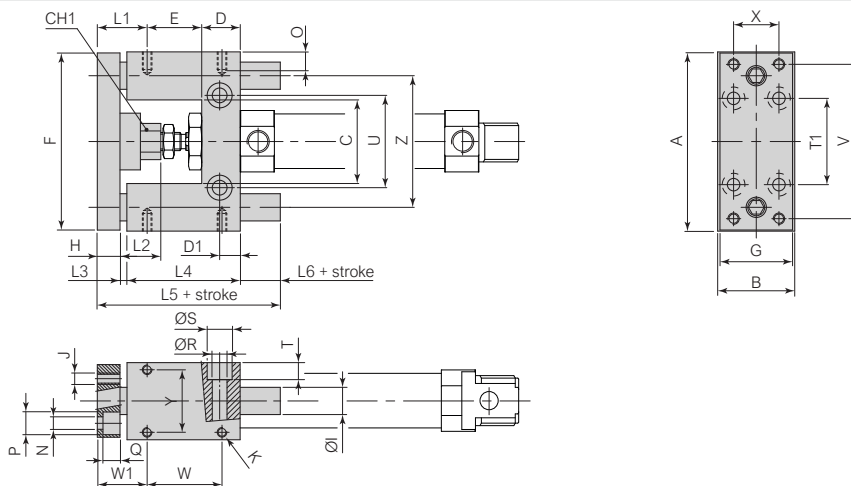
Bore mm	Code	L5+	L6+	N	O	P	Q	ØR	ØS	T	T1	U	V	W	W1	X	Y	Z
16	CK HGBB 16 ...	123,5	73	4,5	6	8	4,5	5,5	9	5,5	32	24	58	2,5	18	74	22	49,5
20	CK HGBB 20 ...	166	43	5,5	9	10	7,5	6,5	11	6,5	38	38	68	3	32,5	87	23	58
25	CK HGBB 25 ...	166	43	5,5	9	10	7,5	6,5	11	6,5	38	38	68	3	32,5	104	23	58

CK HGBB ... Body and plate in anodized aluminium, piston rods in chromium plated steel, joint in stainless steel, bushes in steel, seals in NBR / 1 piece each package

GUIDE UNITS

CK UGSB ...

Piston rod guide U shape with slide bearings support

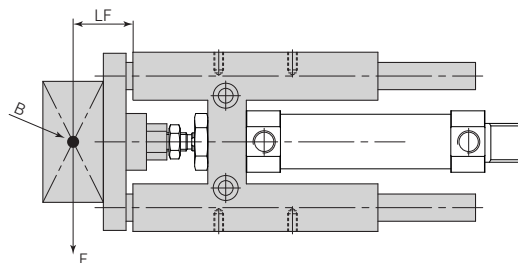
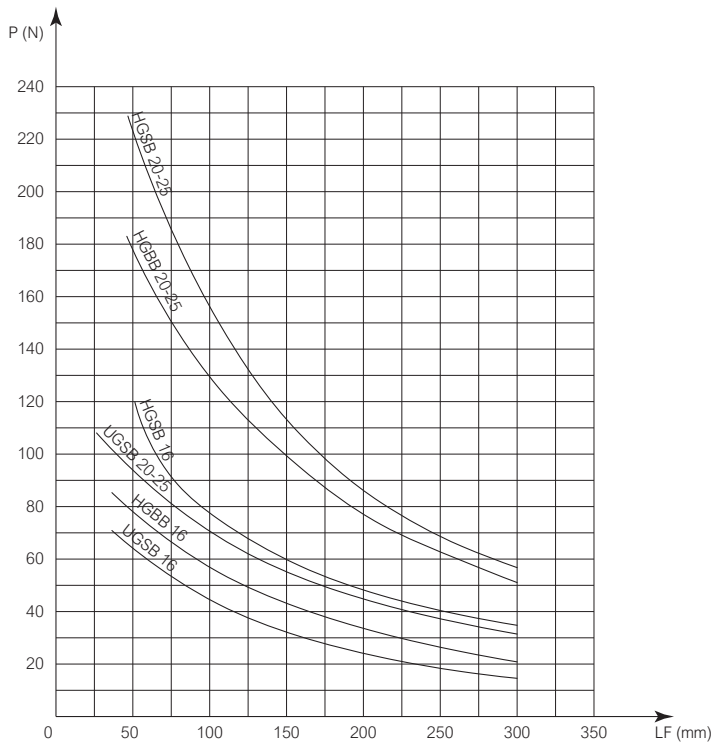


Bore mm	Code	A	B	C	Ch1	D	D1	E	F	G	H	ØI	J	K	L1	L2	L3	L4+
16	CK UGSB 16 ...	69	30	30	8	12	6	20	66	29	10	10	M4	M4	3	15	38	66,5
20	CK UGSB 20 ...	79	34	37	12	17	8,5	24	78	32	12	12	M5	M6	3	18	48	83
25	CK UG SB 25 ...	79	34	37	12	17	8,5	24	78	32	12	12	M5	M6	3	18	48	83

Bore mm	Code	L5+	N	O	P	Q	ØR	ØS	T	T1	U	V	W	W1	X	Y	Z
16	CK UGSB 16 ...	15,5	4,5	6	7,5	4,5	5,5	9	5,5	32	24	58	25	19,5	18	22	49,5
20	CK UGSB 20 ...	20	5,5	9	10	7,5	6,5	11	6,5	38	38	68	33	21,8	20	23	58
25	CK UGSB 25 ...	20	5,5	9	10	7,5	6,5	11	6,5	38	38	68	33	21,8	20	23	58

CK UGSB ... Body and plate in anodized aluminium, piston rods in chromium plated steel, joint in stainless steel, bushes in steel, seals in NBR / 1 piece each package

ALLOWABLE LOAD



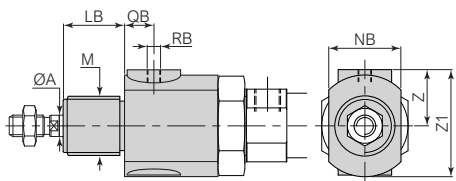
ORDERING CODE

Series	Type	Bore	Standard strokes
CK	HGSB	20	100
		16 = Ø 16 mm 20 = Ø 20 mm 25 = Ø 25 mm	10 = 10 mm 25 = 25 mm 50 = 50 mm 75 = 75 mm 100 = 100 mm 125 = 125 mm 150 = 150 mm 200 = 200 mm 250 = 250 mm 300 = 300 mm
	HGSB = Piston rod guide "H" shape Bushes in sintered bronze For high load		
	HGBB = Piston rod guide "H" shape Bushes in steel For high speed		
	UGSB = Piston rod guide "U" shape Bushes in sintered bronze For low speed and load		

Special strokes: To be agreed with the Commercial Department

LOCKING UNIT

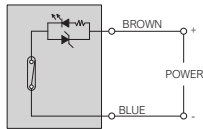
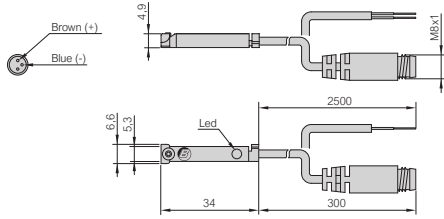
CK RL ... Static locking unit	Bore mm	Code	ØA H7	LB	M	NB	QB	RB	Z	Z1
	12	CK RL 12	6	12	M16 x 1,5	20	9	M5	25	35
	16	CK RL 16	6	12	M16 x 1,5	20	9	M5	25	35
	20	CK RL 20	8	23	M22 x 1,5	27	11	M5	21	40
	25	CK RL 25	10	23	M22 x 1,5	27	11	M5	45	62



Body in anodized aluminium, jaws in brass , springs in spring steel / 1 piece each package

END OF STROKE SENSORS TYPE SR

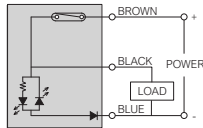
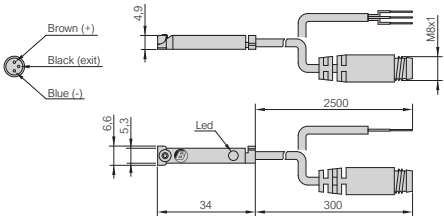
SRC-61, SRC-21, SRC-27
End of stroke sensor REED - 2 poles N.O.



Technical features			
Code	SRC-61	SRC-21	SRC-27
Version	Cable 2 x 0,14 mm ²	Cable 2 x 0,14 mm ²	Connector M8 x 1 - 2 pin
Cable length	2500 mm	2500 mm	300 mm
Sensor	REED		
Output	Pure contact, normally open		
Operating voltage	5 ÷ 230 Vac / Vdc	5 ÷ 130 Vac / Vdc	5 ÷ 50 Vac / Vdc
Switching current (max.)	200 mA	200 mA	200 mA
Contact rating (max.)	10 W	6 W	6 W
Voltage drop (max.)	3 V	3 V	3 V
Visual indicator	LED yellow diode		
Operating frequency	1000 Hz		
Working temperature	-15 ÷ +70 °C		
Protection class (IEC 60529)	IP67		
Protection circuit	Power source reverse polarity		
Mounting	Only on bracket FA... type - See page 1.1.05.17		

SRC-61, SRC-21, SRC-27 / Sensor in PA6, cable in PUR - 1 piece each package

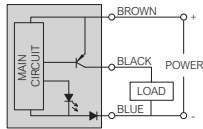
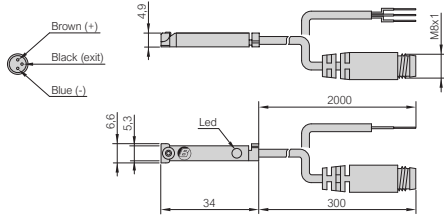
SRD-21, SRD-27
End of stroke sensor REED - 3 poles N.O.



Technical features		
Code	SRD-21	SRD-27
Version	Cable 3 x 0,14 mm ²	Connector M8 x 1 - 3 pin
Cable length	2500 mm	300 mm
Sensor	REED	
Output	PNP, normally open	
Operating voltage	5 ÷ 30 Vac / Vdc	
Switching current (max.)	200 mA	
Contact rating (max.)	6 W	
Voltage drop (max.)	0,7 V	
Visual indicator	LED yellow diode	
Operating frequency	1000 Hz	
Working temperature	-15 ÷ +70 °C	
Protection class (IEC 60529)	IP67	
Protection circuit	Power source reverse polarity	
Mounting	Only on bracket FA... type - See page 1.1.05.17	

SRD-21, SRD-27 / Sensor in PA6, cable in PUR - 1 piece each package

SRN-21, SRN-27
End of stroke sensor HALL PNP - 3 poles N.O.

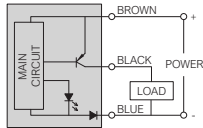
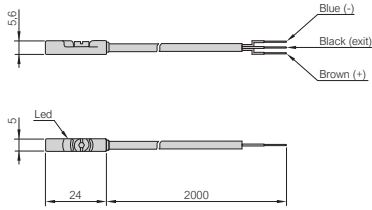


Technical features		
Code	SRN-21	SRN-27
Version	Cable 3 x 0,14 mm ²	Connector M8 x 1 - 3 pin
Cable length	2000 mm	300 mm
Sensor	HALL	
Output	PNP, normally open	
Operating voltage	10 ÷ 30 Vdc	
Switching current (max.)	200 mA	
Contact rating (max.)	4 W	
Voltage drop (max.)	0,7 V	
Visual indicator	LED yellow diode	
Operating frequency	1000 Hz	
Working temperature	-15 ÷ +70 °C	
Protection class (IEC 60529)	IP67	
Protection circuit	Power source reverse polarity	
Mounting	Only on bracket FA... type - See page 1.1.05.17	

SRN-21, SRN-27 / Sensor in PA6, cable in PUR - 1 piece each package

END OF STROKE SENSORS TYPE SK9 with enclosure classification IP69K
SK9-21

End of stroke sensor HALL PNP - 3 poles N.O.

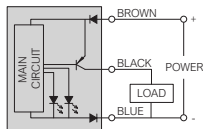
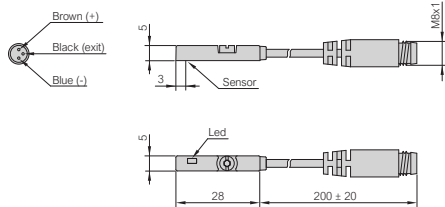

Technical features

Code	SK9-21
Version	Cable 3 x 0,14 mm ²
Cable length	2000 mm
Sensor	HALL
Output	PNP, normally open
Operating voltage	10 ÷ 30 Vdc
Switching current (max.)	200 mA
Contact rating (max.)	6 W
Current consumption	10 mA (without load)
Voltage drop (max.)	2,2 V
Visual indicator	LED yellow diode: flashing (instable position) permanently light (stable position)
Operating frequency	1000 Hz
Temperature range	-30 ÷ +80 °C
Enclosure classification (DIN 40050)	IP69K
Protection circuit	Short-circuit, power source reverse polarity, power-up pulse
Mounting	Only on bracket FA... type - See page 1.1.05.17

SK9-21 / Sensor in PA12, cable in PUR - 1 piece each package

END OF STROKE SENSORS TYPE SKC with precise positioning sistem
SKC-27

End of stroke sensor HALL PNP - 3 poles N.O.

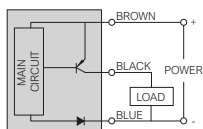
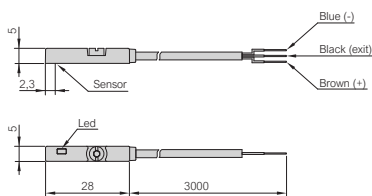

Technical features

Code	SKC-27
Version	Connector M8 x 1 - 3 pin
Cable length	200 mm
Sensor	HALL
Output	PNP, normally open
Operating voltage	10 ÷ 28 Vdc
Switching current (max.)	80 mA
Contact rating (max.)	2 W
Current consumption	10 mA (24 Vdc)
Voltage drop (max.)	1,5 V
Leakage current (max.)	0,05 mA
Visual indicator	Two colors LED diode: red (instable position) green (stable position)
Operating frequency	1000 Hz
Temperature range	-10 ÷ +60 °C
Enclosure classification (DIN 40050)	IP67
Protection circuit	Short-circuit, power source reverse polarity, power-up pulse
Mounting	Only on bracket FA... type - See page 1.1.05.17

SKC-27 / Sensor in PA, cable in PUR - 1 piece each package

END OF STROKE SENSORS TYPE SEX for potentially explosive environment ATEX
SEX-21

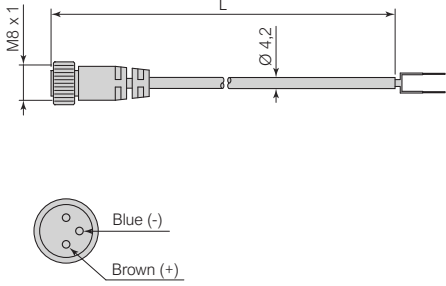
End of stroke sensor HALL PNP - 3 poles N.O.


Technical features

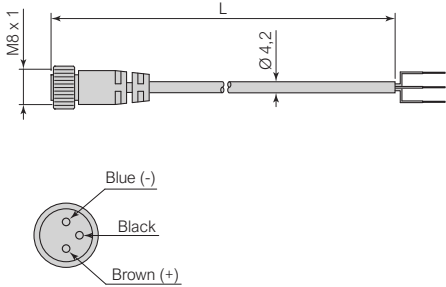
Code	SEX-21
Version	Cable 3 x 0,14 mm ²
Cable length	3000 mm
Sensor	HALL
Output	PNP, normally open
Operating voltage	10 ÷ 28 Vdc
Switching current (max.)	200 mA
Contact rating (max.)	5,5 W
Current consumption	10 mA (24 Vdc)
Voltage drop (max.)	1,5 V
Leakage current (max.)	0,05 mA
Visual indicator	LED yellow diode
Operating frequency	1000 Hz
Temperature range	-10 ÷ +70 °C
Enclosure classification (IEC 60529)	IP67
Protection circuit	Short-circuit, power source reverse polarity, power-up pulse
Mounting	Only on bracket FA... type - See page 1.1.05.17
ATEX marking (2014/34/EU)	II 3GD Ex ic IIB T4 Gc Ex ic IIIC T135°C Dc

SEX-21 / Sensor in PA, cable PVC - 1 piece each package

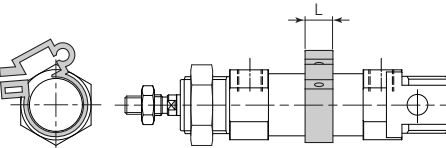
THREADED CONNECTORS TYPE Y082LC suitable for SRC-27

Y082LC ... Threaded connectors - 2 poles 	Technical features		
	Code	Y082LC250C	Y082LC500C
	Threaded connector	M8 x 1	
	End connector	Open	
	Cable	2 x 0,14 mm ²	
	Cable length (L)	2500 mm	5000 mm
	Operating voltage (max.)	50 Vac / 60 Vdc	
	Current (max.)	3000 mA	
	Working temperature	-25 ÷ +75 °C	
	Protection class (IEC 60529)	IP67	
Y082LC ... / Connector in PVC, contacts in gilded brass, cable in PVC - 1 piece each package			

THREADED CONNECTORS TYPE Y083LC suitable for SRD-27, SRN-27, SKC-27

Y083LC ... Threaded connectors - 3 poles 	Technical features		
	Code	Y083LC250D	Y083LC500D
	Threaded connector	M8 x 1	
	End connector	Open	
	Cable	3 x 0,14 mm ²	
	Cable length (L)	2500 mm	5000 mm
	Operating voltage (max.)	50 Vac / 60 Vdc	
	Current (max.)	3000 mA	
	Working temperature	-25 ÷ +75 °C	
	Protection class (IEC 60529)	IP67	
Y083LC ... / Connector in PVC, contacts in gilded brass, cable in PVC - 1 piece each package			

BRACKET FOR SENSOR

FA ... Bracket for sensor 	Bore mm	Code	L
	12	FA 12	10
	16	FA 16	10
	20	FA 20	10
	25	FA 25	10
FA... / Bracket in Nylon, screw in white galvanized steel - 1 piece each package			



BONESI PNEUMATIK realizza tutti i suoi prodotti in Italia



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