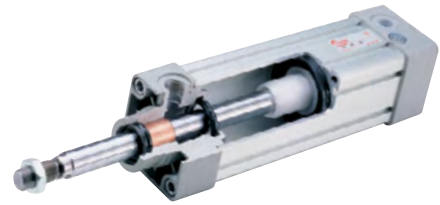


SERIES CX

Bore size | mm 32-40-50-63-80-100-125

Light alloy end caps painted gray.
Clean profile aluminium body gauged inside and outside.

Available with ATEX certification



SERIES CD

Bore size | mm 160-200-250-320

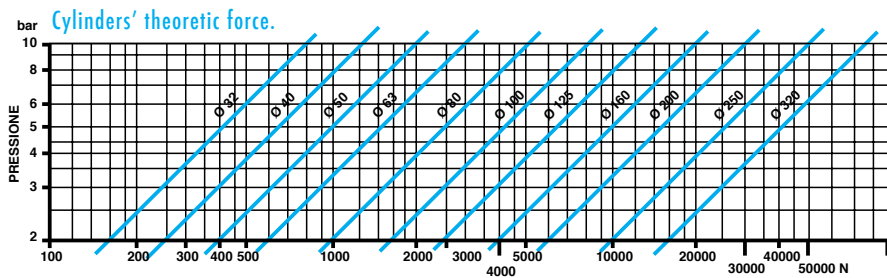
Light alloy end caps painted gray.
Clean profile aluminium body gauged inside and outside.
Tie rods in zinc plated steel.

Available with ATEX certification



TECHNICAL DATA

Max. pressure: 10 bar
Power fluid: filtered air with or without lubrication.
Temperature range :
-20°C to +70°C.



AVAILABLE STANDARD STROKES

Bore size mm	25	50	75	80	100	125	150	160	200	250	300	350	400	500	600	700	800	1000	
32
40
50
63
80
100
125
160
200
250
320

Strokes till 4000 mm by request

MANUFACTURING VARIANTS

- Aisi 304 stainless steel piston rod (X5 CrNi 1810)
- Piston rod - tie rods - nuts in Aisi 304 stainless steel - Epox painting
- With seals for high temperatures (max 180°)
- Tandem thrust cylinders
- Opposed tandem cylinders

PRODUCT FEATURES



End caps in light anodized alloy, slide bush for piston rod in acetalic resins plated steel.



Nitrile rubber and polyurethane seals.

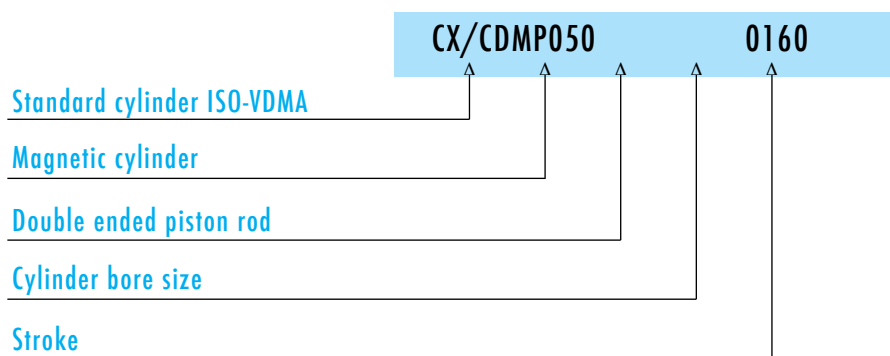


Cushion regulation screw with triangular mill and self adjusting seal.

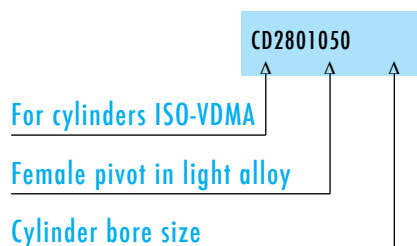


Piston rod in steel C45, grounded and hard chromium plated.

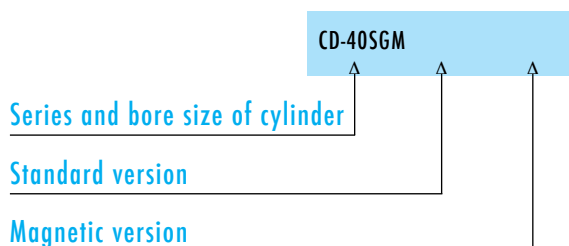
ORDER CODE FOR CYLINDERS



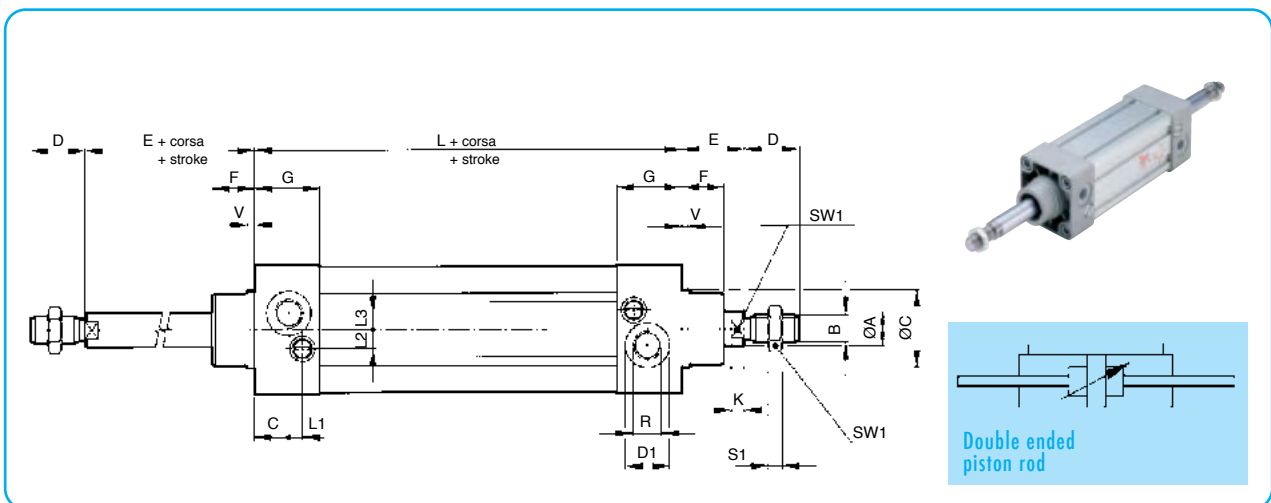
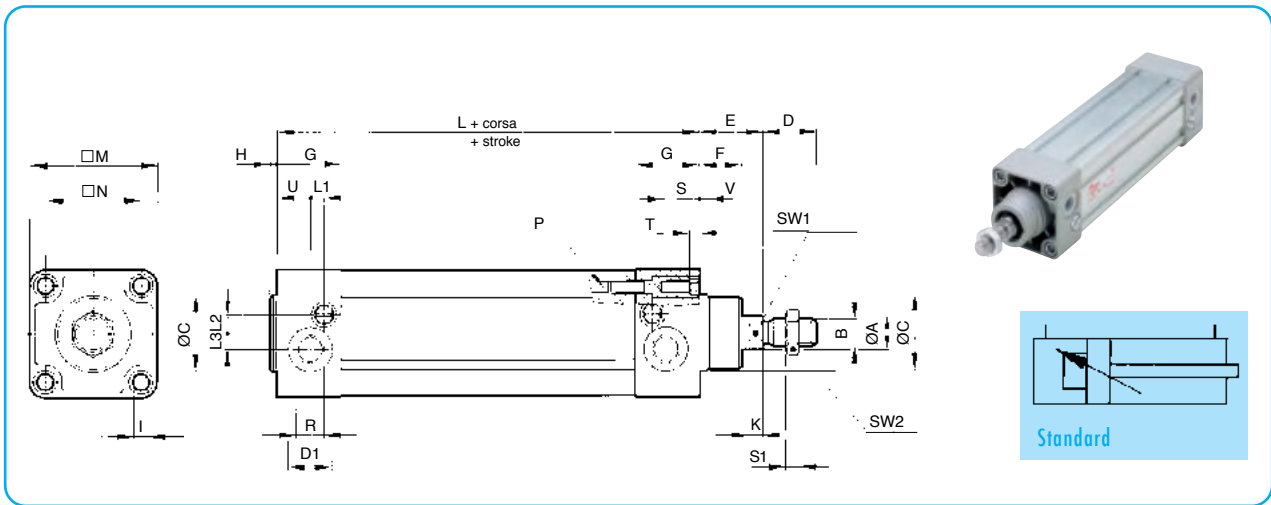
ORDER CODE FOR FIXINGS



ORDER CODE FOR SEALS KIT

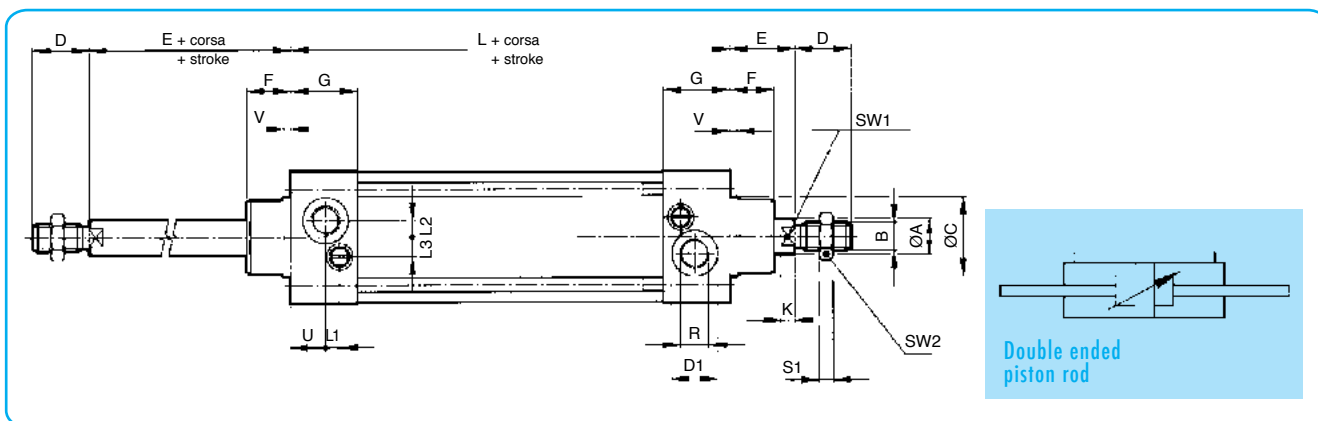
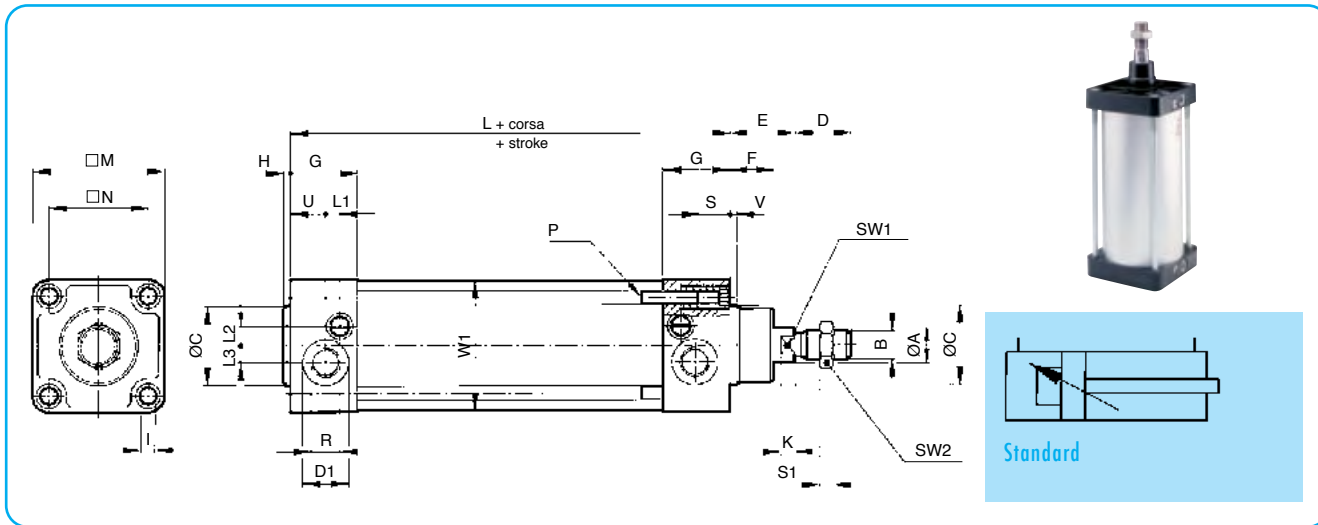


DIMENSIONAL FEATURES



Bore size mm	A f7	B	C e11	D	E	F	G	H	I	K	L	M	N	P	R	S	T
32	12	M 10 x 1,25	30	22	26	16	33	4	M 6	6	94 ±0,4	47	32,5 ±0,5	M 6	G 1/8	16	5
40	16	M 12 x 1,25	35	24	30	20	33,5	4	M 6	6,5	105 ±0,7	52	38 ±0,5	M 6	G 1/4	16	5
50	20	M 16 x 1,5	40	32	37	25	34	4	M 8	8	106 ±0,7	65	46,5 ±0,6	M 8	G 1/4	16	6
63	20	M 16 x 1,5	45	32	37	25	38	4	M 8	8	121 ±0,8	75	56,5 ±0,7	M 8	G 3/8	16	6
80	25	M 20 x 1,5	45	40	46	30	41,5	4	M 10	10	128 ±0,8	95	72 ±0,7	M 10	G 3/8	16	6
100	25	M 20 x 1,5	55	40	51	35	41,5	4	M 10	10	138 ±1	115	89 ±0,7	M 10	G 1/2	16	6
125	32	M 27 x 2	60	54	65	40	45	5	M 12	13	160 ±1	140	110 ±1,1	M 12	G 1/2	20	8
160	40	M 36 x 2	65	72	80	50	47,5	8	M 16	16	180 ±1,1	180	140 ±1,1	M 16	G 3/4	21	-
200	40	M 36 x 2	75	72	95	65	47,5	8	M 16	16	180 ±1,6	220	175 ±1,1	M 16	G 3/4	21	-
250	50	M 42 x 2	90	84	105	75	55	8	M 20	20	200 ±1,6	270	220 ±1,5	M 20	G 1	30	-
320	63	M 48 x 2	110	96	120	90	57	10	M 24	24	220 ±1,6	345	270 ±1,5	M 24	G 1	30	-

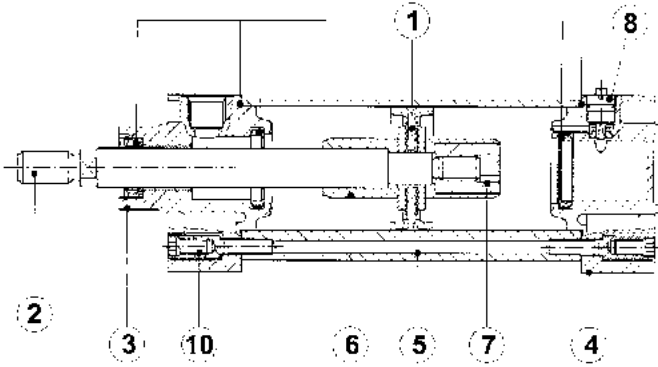
DIMENSIONAL FEATURES



U	V	W1	D1	L1	L2	L3	SW1	SW2	S1	Dampening length mm	Pulling piston area cm ²	Pushing piston area cm ²	Weight of cylinder stroke 25 mm kg	Additional weight every 100 mm of stroke kg
14	4	-	15	11	4,5	5	10	17	5	18	6,9	8	0,6	0,23
15	4	-	19	10	7	6	13	19	6	23	10,6	12,5	0,9	0,32
15	4	-	19	10	7	6	16	24	8	27	16,5	19,5	1,4	0,47
20	4	-	23	8	12,5	9,5	16	24	8	33	28	31	1,8	0,52
20	4	-	23	8	13,5	9,5	21	30	10	33	45,3	50	3,2	0,80
25	4	-	27	6	17	12	21	30	10	33	73,6	78,5	3,9	0,90
30	5	-	27	3	17	12	27	41	13,5	33	114,6	123	5,8	1,4
27,5	50	170	33	4,5	20	15	36	55	18	37	188,4	201	11,2	1,8
27,5	25	210	33	4,5	20	15	36	55	18	37	301,4	314	15,3	2,2
31	25	262	40	-	37	-	46	65	21	42	471	491	25	3,9
31	17	336	40	-	37	-	55	75	24	54	773	804,2	46	6,1

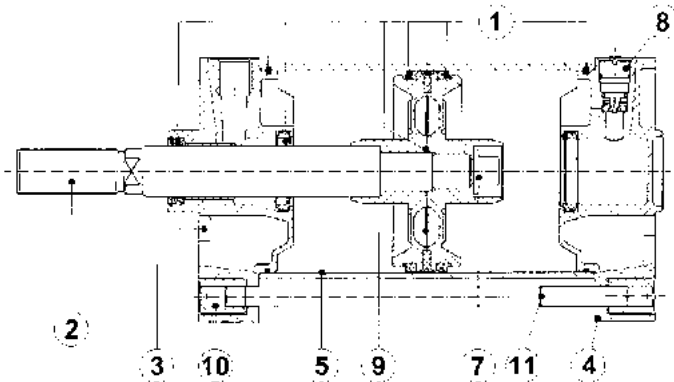
Series CX - CD

Bore size
from 32 to 100 mm



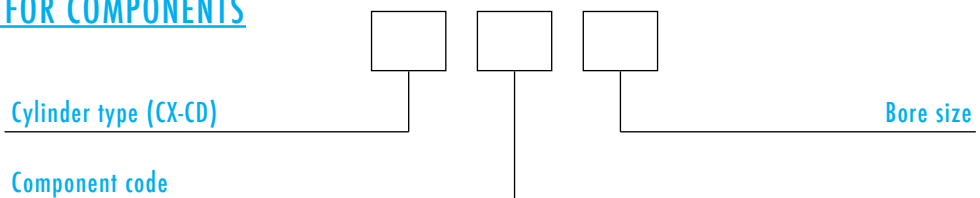
Series CX - CD

Bore size
125-160-200-250-320



Position	Quantity	Code	Description
1	1	SG	Seals
2	1	ST	Piston rod
3	1	TA	Front end cap
4	1	TP	Rear end cap
5	1	CM	Body
6	2	OG	Ogive
7	1	GD	Ring nut or screw nut
8	2	DC	Decelerator
9	1	PT	Piston
10	4	TR	Tie rod
11	4	VT	Screw

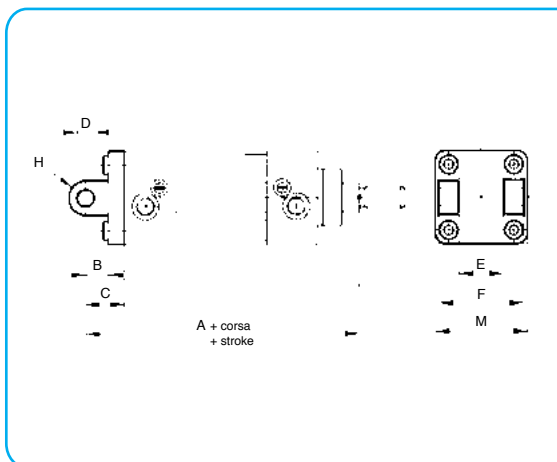
ORDERING CODE FOR COMPONENTS



Series CD/CX - ISO VDMA Fixings

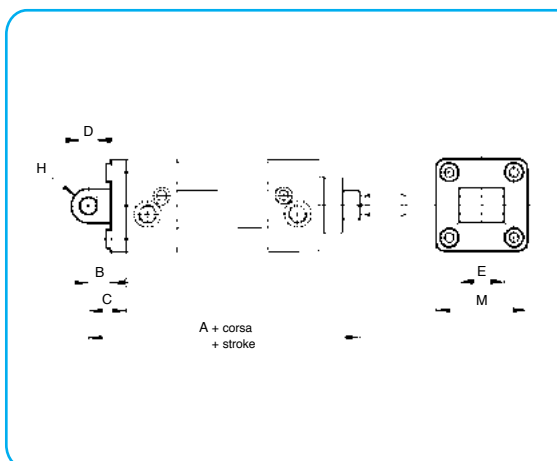


TYPE2801 Female pivot in light alloy.
TYPE2901 Female pivot in steel (for bore sizes 32-200).



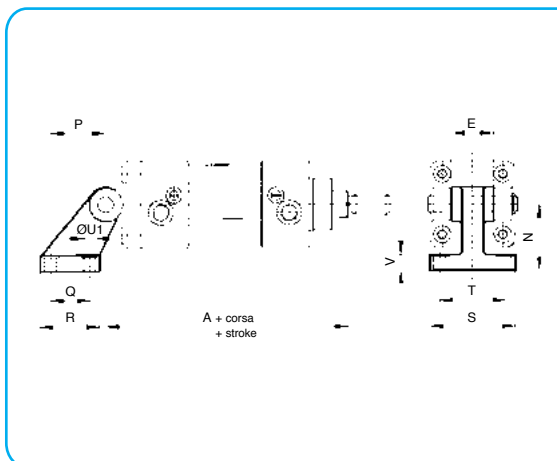
Bore size mm	A	B	C ±0,2	D H 9	E H 14	F h 14	H	M	Fixing screw UNI 5931
32	142	13	22	10	26	45	10	45	M 6x18
40	160	16	25	12	28	52	12	52	M 6x18
50	170	16	27	12	32	60	12	65	M 8x25
63	190	21	32	16	40	70	16	75	M 8x25
80	210	22	36	16	50	90	16	95	M 10x30
100	230	27	41	20	60	110	20	115	M 10x30
125	275	30	50	25	70	130	25	140	M 12x35
160	315	35	55	30	90	170	30	180	M 16x30
200	335	35	60	30	90	170	30	220	M 16x30
250	375	45	70	40	110	200	40	270	M 20x30
320	420	50	80	45	120	220	45	350	M 24x40

TYPE2802 Male pivot in light alloy.
TYPE2902 Male pivot in steel (for bore sizes 32-200).



Bore size mm	A	B	C ±0,2	D H 9	E	H	M	Fixing screw UNI 5931	
32	142	13	22	10	26	10	45	M 6x18	
40	160	16	25	12	28	12	52	M 6x18	
50	170	16	27	12	32	-0,2	12	65	M 8x25
63	190	21	32	16	40	-0,6	16	75	M 8x25
80	210	22	36	16	50		16	95	M 10x30
100	230	27	41	20	60		20	115	M 10x30
125	275	30	50	25	70		25	140	M 12x35
160	315	35	55	30	90		30	180	M 16x30
200	335	35	60	30	90	-0,5	30	220	M 16x30
250	375	45	70	40	110	-1,2	40	270	M 20x30
320	420	50	80	45	120		45	350	M 24x40

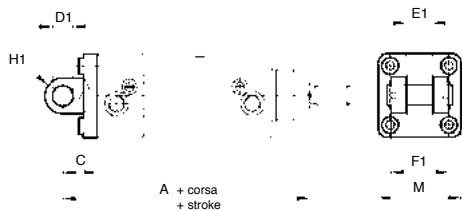
TYPE2803 Right angles joint in light alloy.
TYPE2903 Right angles joint in steel (for bore sizes 32-100).



Bore size mm	A	E	N Js 15	P Js 15	Q Js 14	R	S	T Js 14	U1	V
32	142	26	32	21	18	31	51	38	6,5	8
40	160	28	36	24	22	35	54	41	6,5	10
50	170	32	45	33	30	45	65	50	9	12
63	190	40	50	37	35	50	67	52	9	12
80	210	50	63	47	40	60	86	66	11	14
100	230	60	71	55	50	70	96	76	11	15
125	275	70	90	70	60	90	124	94	14	20
160	315	90	115	97	88	126	156	118	14	25
200	335	90	135	105	90	130	162	122	18	30
250	375	110	165	128	110	160	200	150	22	35
320	420	120	200	150	122	186	234	170	26	40

Fasteners are supplied complete with screws.

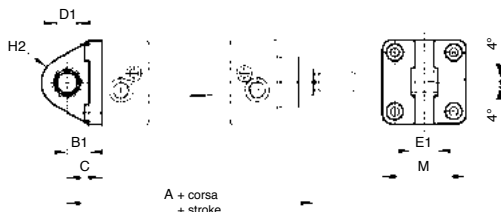
TYPE2904 Fork pivot in steel with positioning pin.



A + corsa
+ stroke

Bore size mm	A	C ±0,2	D1 F 7	E1 H 14	F1 d 12	H1 max	M	Fixing screw UNI 5931
32	142	22	10	14	34	11	45	M 6x18
40	160	25	12	16	40	13	55	M 6x18
50	170	27	16	21	45	18	65	M 8x20
63	190	32	16	21	51	18	75	M 8x20
80	210	36	20	25	65	22	95	M 10x25
100	230	41	20	25	75	22	115	M 10x25
125	275	50	30	37	97	25	140	M 12x35

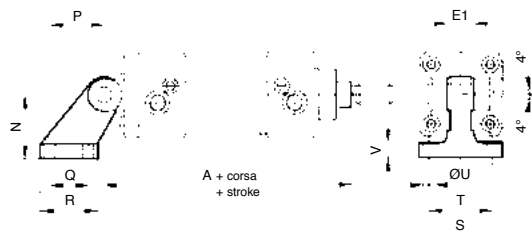
TYPE2905 Male pivot in steel with ball joint DIN 648 K.



A + corsa
+ stroke

Bore size mm	A	B1	C ±0,2	D1 H 7	E1 -0,1	H2 max	M	Fixing screw UNI 5931
32	142	12	22	10	14	15	45	M 6x18
40	160	15	25	12	16	18	52	M 6x18
50	170	17	27	16	21	20	65	M 8x20
63	190	20	32	16	21	23	75	M 8x20
80	210	20	36	20	25	27	95	M 10x25
100	230	25	41	20	25	30	115	M 10x25

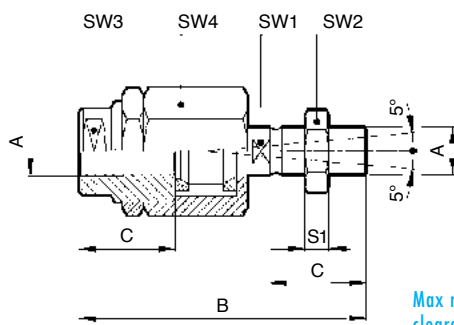
TYPE2906 Right angles pivot with ball joint DIN 648 K.



A + corsa
+ stroke

Bore size mm	A	E1 -0,1	N Js 15	P Js 15	Q Js 14	R	S	T Js 14	U	V
32	142	14	32	21	18	31	51	38	6,5	8
40	160	16	36	24	22	35	54	41	6,5	10
50	170	21	45	33	30	45	65	50	8,5	12
63	190	21	50	37	35	50	67	52	8,5	12
80	210	25	63	47	40	60	86	66	10,5	14
100	230	25	71	55	50	70	96	76	10,5	15
125	275	37	90	70	60	90	124	94	13,5	20

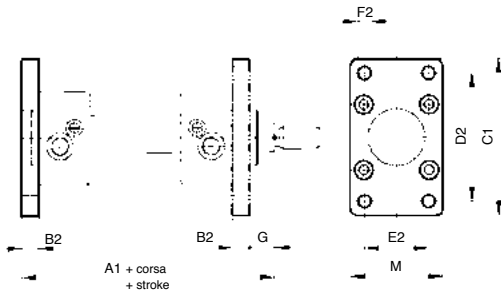
TYPEIKK End play and radial adjustment joint.



Max radial
clearance 2 mm.

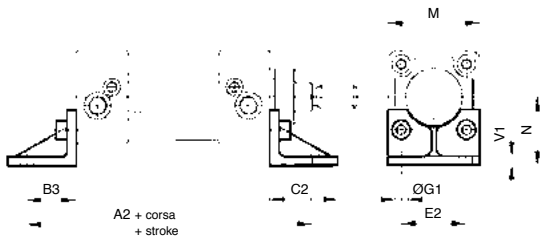
Bore size mm	A	B	C	S1	SW1	SW2	SW3	SW4
32	M 10x1,25	71	20	5	12	17	19	30
40	M 12x1,25	75	24	6	12	19	19	30
50	M 16x1,5	103	32	8	20	24	30	42
63	M 16x1,5	103	32	8	20	24	30	42
80	M 20x1,5	119	40	10	20	30	30	42
100	M 20x1,5	119	40	10	20	30	30	42

TYPE2907 Front or rear flange in zinc-plated steel.



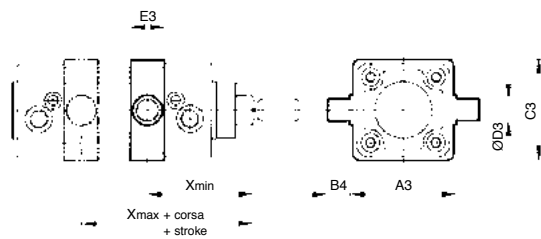
Bore size mm	A1	B2 Js 14	C1	D2 Js 14	E2 Js 14	F2 H 13	G	M	Fixing screw UNI 5931
32	130	10	80	64	32	7	16	45	M 6x18
40	145	10	90	72	36	9	20	52	M 6x18
50	155	12	110	90	45	9	25	65	M 8x20
63	170	12	120	100	50	9	25	75	M 8x20
80	190	16	150	126	63	12	30	95	M 10x20
100	205	16	170	150	75	14	35	115	M 10x20
125	245	20	205	180	90	16	45	140	M 12x30
160	280	20	260	230	115	18	60	180	M 16x30
200	300	25	310	270	135	22	70	220	M 16x30
250	330	25	390	330	165	26	80	270	M 20x30
320	370	30	460	400	200	33	90	350	M 24x40

TYPE2908 Foot mounting in zinc-plated steel.



Bore size mm	A2	B3 ±0,2	C2	E2 Js 14	G1 H 13	M	N Js 15	V1	Fixing screw UNI 5931
32	144	24	35	32	7	45	32	3,5	M 6x18
40	163	28	36	36	9	52	36	3,5	M 6x18
50	175	32	45	45	9	65	45	3,5	M 8x20
63	190	32	45	50	9	75	50	4,5	M 8x20
80	215	41	55	63	12	95	63	5	M 10x25
100	230	41	56	75	14	115	71	5	M 10x25
125	270	45	68	90	16	140	90	9	M 12x35
160	320	60	80	115	18	180	115	12	M 16x30
200	345	70	85	135	22	220	135	12	M 16x30
250	380	75	100	165	26	270	165	20	M 20x40
320	425	85	120	200	35	350	200	23	M 24x45

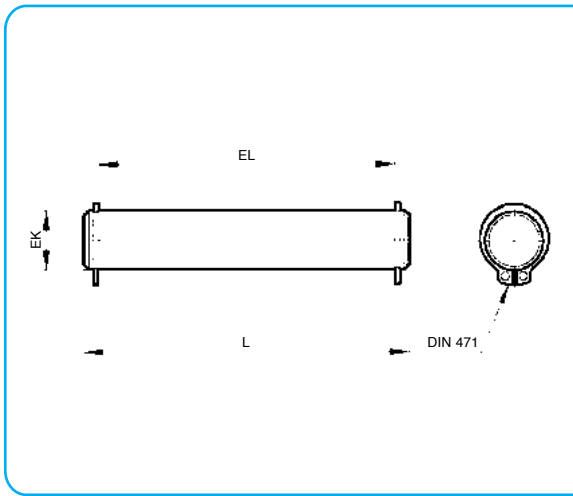
TYPE2909 Intermediate pivot in cast iron or zinc-plated steel.



Bore size mm	A3 h 14	B4 h 14	C3	D3 e 9	E3	X min.	X max.
32	50	12	57	12	15	67	79
40	63	16	59	16	20	74	91
50	75	16	71	16	20	81	99
63	90	20	86	20	25	88	107
80	110	20	106	20	25	100	120
100	132	25	128	25	30	108	132
125	160	25	155	25	32	126	164
160	200	32	190	32	40	148	193
200	250	32	240	32	40	208	163
250	320	40	300	40	50	185	225
320	400	50	380	50	60	207	253

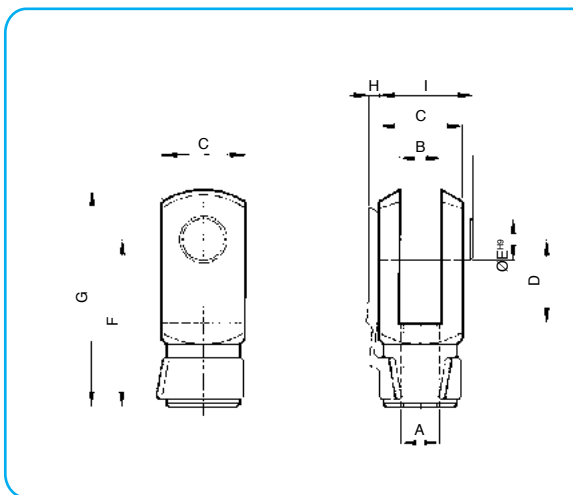
X = dimension to be specified on order.

TYPESEC Pin for pivot type 2801-2901.
In ground steel.



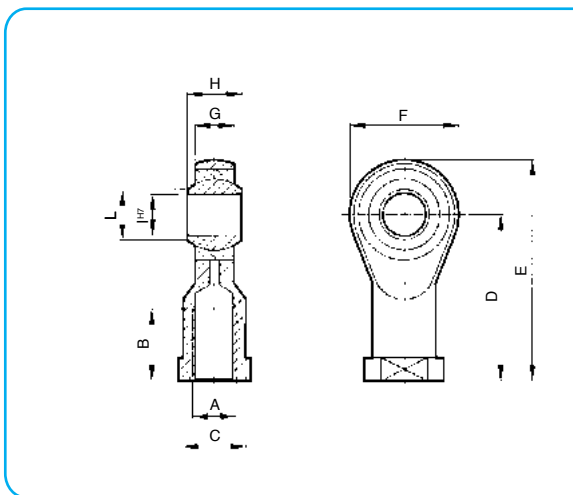
Bore size mm	EK e8	EL	L
32	10	46	52
40	12	53	59
50	12	61	67
63	16	71	77
80	16	91	97
100	20	111	118
125	25	132	138
160	30	172	180
200	30	172	180
250	40	202	210
320	45	223	235

TYPEIFF Female rod clevis in zinc-plated steel.



Bore size mm	A	B	C	D	E	F	G	H	I
32	M10x1,25	10	20	20	10	40	52	3	23
40	M12x1,25	12	24	24	12	48	62	4	28
50	M16x1,5	16	32	32	16	64	83	4	36
63	M16x1,5	16	32	32	16	64	83	4	36
80	M20x1,5	20	40	40	20	80	105	4	44
100	M20x1,5	20	40	40	20	80	105	4	44
125	M27x2	30	55	54	30	110	148	-	65
160	M36x2	35	70	72	35	144	188	-	84
200	M36x2	35	70	72	35	144	188	-	84
250	M42x2	40	85	84	40	168	232	-	96
320	M48x2	50	90	96	50	192	265	-	102

TYPE IKJ Oscillating eye in zinc-plated steel.



Bore size mm	A	B	C	D	E	F	G	H	I	L
32	M10x1,25	20	17	43	57	28	10,5	14	10	12,9
40	M12x1,25	22	19	50	66	32	12	16	12	15,4
50	M16x1,5	28	22	64	85	42	15	21	16	19,3
63	M16x1,5	28	22	64	85	42	15	21	16	19,3
80	M20x1,5	33	30	77	102	50	18	25	20	24,3
100	M20x1,5	33	30	77	102	50	18	25	20	24,3
125	M27x2	51	41	110	145	70	25	37	30	34,8
160	M36x2	56	50	125	165	80	28	43	35	37,7
200	M36x2	56	50	125	165	80	28	43	35	37,7
250	M42x2	60	55	142	187	90	33	49	40	45,2
320	M48x2	65	65	160	218	116	45	60	50	58

SERIES CU

SINGLE ACTING

Front spring



CUS...-FA 

SINGLE ACTING

Rear spring



CUS...-FP 

DOUBLE ACTING




CUD...-F 

DOUBLE ACTING

Double ended piston rod

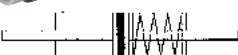


CUDP...-F 

SINGLE ACTING

Double ended piston rod



CUSP...-F 

DOUBLE ACTING

Antirotation with double slide bar




CUD...-A 

DOUBLE ACTING

Antirotation - double ended piston rod



CUDP...-A 

STANDARD EQUIPMENT

- End stroke elastic bumper
- Piston rod with female thread
- Permanent magnet on piston rod of cylinder
- Slots for assembling of proximity switches for detection of piston in intermediate or end stroke position, without contact.

COMPONENTS & ACCESSORIES

Squeeze casted end caps in black anodized light alloy, slide bush for piston rod in self-lubricating sintered bronze.



The body, aesthetic and functional component, manufactured in light alloy, honed and anodized inside and outside (class 20 micron).



Piston rod in rolled stainless steel. Piston in light alloy with a permanent magnet fixed on it.



Seals in polyurethane for high resistance to wear. After first lubrication, they can be used with only filtered air.



Fasteners for fixed or oscillating installation of cylinders.



TECHNICAL DATA

POWER FLUID: filtered air with or without lubrication.

SPEED: ≤ 1 m/sec. without load.

OPERATING PRESSURE: from 1 to 10 bar.

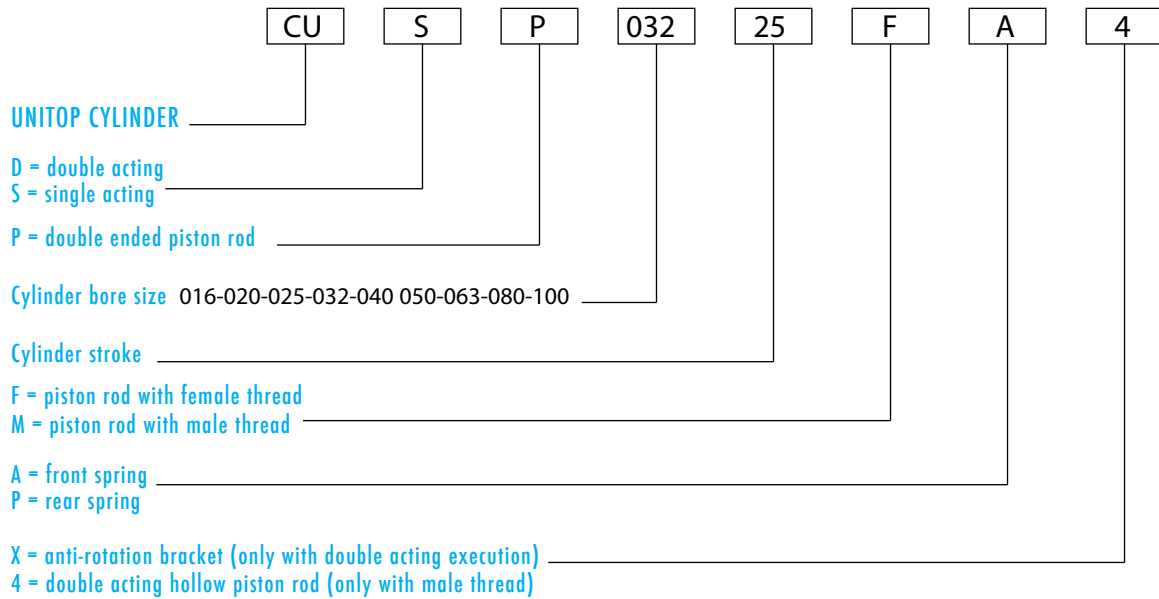
TEMPERATURE RANGE: from -20°C to $+80^{\circ}\text{C}$ (max $+60^{\circ}\text{C}$ when using magnetic switches).

AVAILABLE STROKES

Bore size Ømm	SINGLE ACTING			DOUBLE ACTING					
	Standard strokes mm	Possible strokes mm	Return force of spring*	Standard strokes mm	Possible strokes mm	Thrust force at 6 bar* N	Traction force at 6 bar* N	Weight g	Weight rise per 5mm g
16	5,10,15,20,25	1 ÷ 25	see diagram	5,10,15,20,25,30,40	1 ÷ 200	121	90	90	8
20				5,10,15,20,25,30,40,50		188	140	140	12
25				5,10,15,20,25,30,40,50,60,80		295	247	180	14
32				10,15,20,25	1 ÷ 300	see diagram	5,10,15,20,25,30,40,50,60,80	483	415
40	10,15,20,25,30	754	685				400	30	
50	40,50,60,80	1177	1057				540	37	
63	10,15,20,25	1 ÷ 400	see diagram	10,15,20,25,30	1869	1750	970	55	
80				40,50,60,80	3015	2825	1560	90	
100				40,50,60,80	4710	4415	2450	100	

*Theoretic values

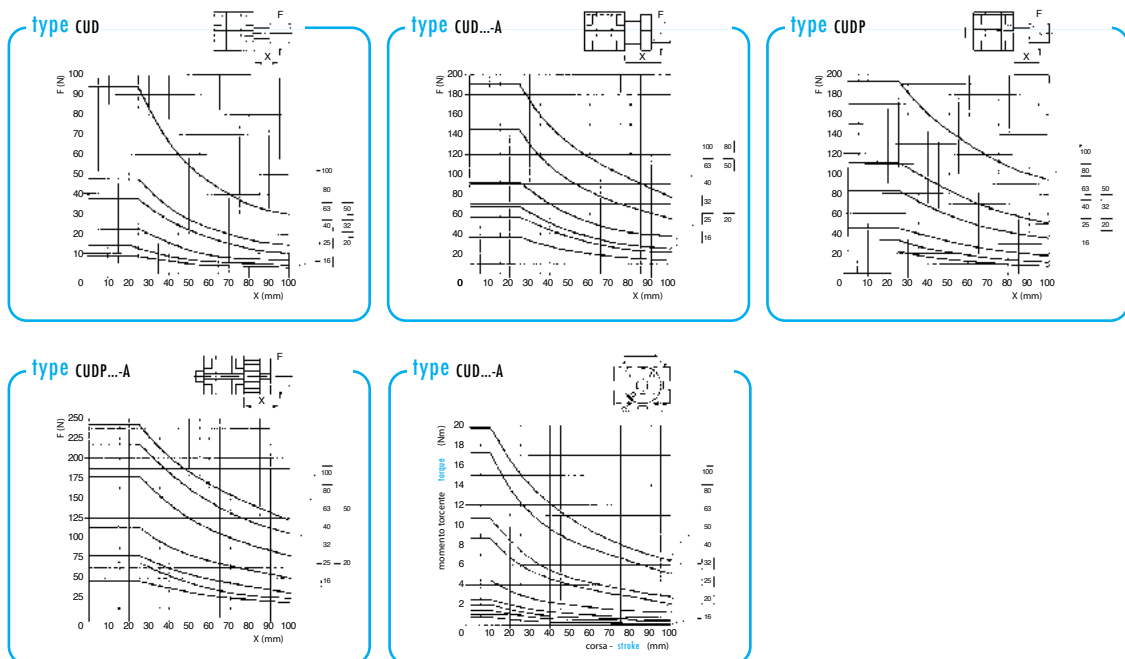
ORDER CODE FOR CYLINDERS



ORDER CODE FOR FIXING ACCESSORIES

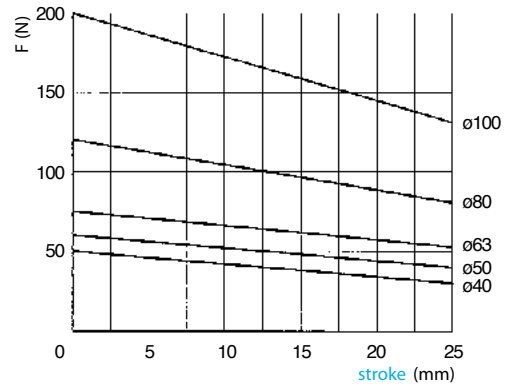
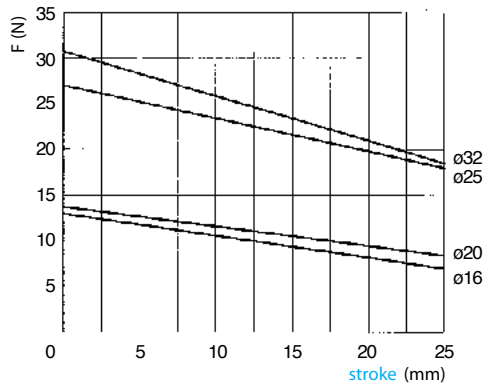


GRAPHS OF LOAD AND TORQUE as a function of protrusion of radial force F

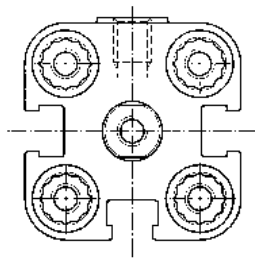


RETURN FORCE OF SPRINGS

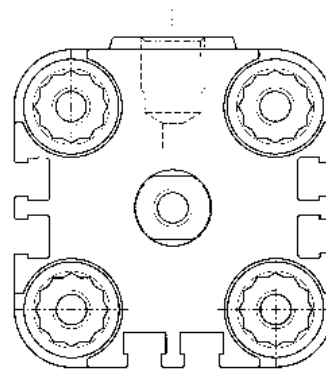
theoretic values



POSITION OF SLOTS FOR MAGNETIC SWITCHES



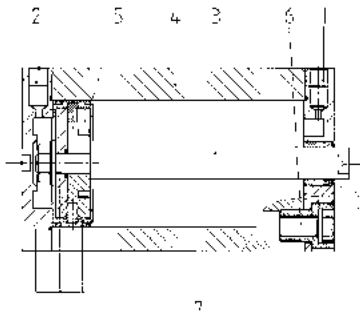
for bore size
16,20,25 mm



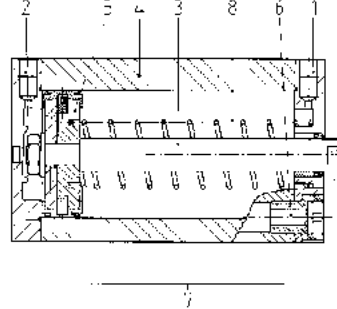
for bore size from
32 to 100 mm

SPARE PARTS

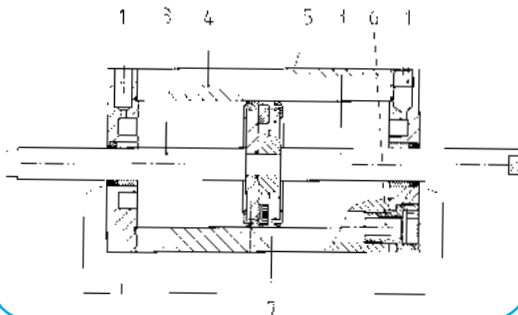
type CUD...-F; CUD...-M



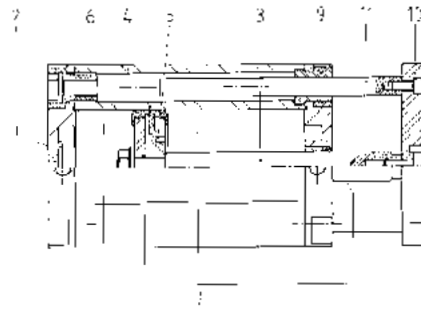
type CUS...-FA; CUS...-FP;
CUS...-MA; CUS...-MP



type CUSP...-F; CUSP...-M;
CUDP...-F; CUDP...-M;
CUSP...-M4; CUDP...-M4

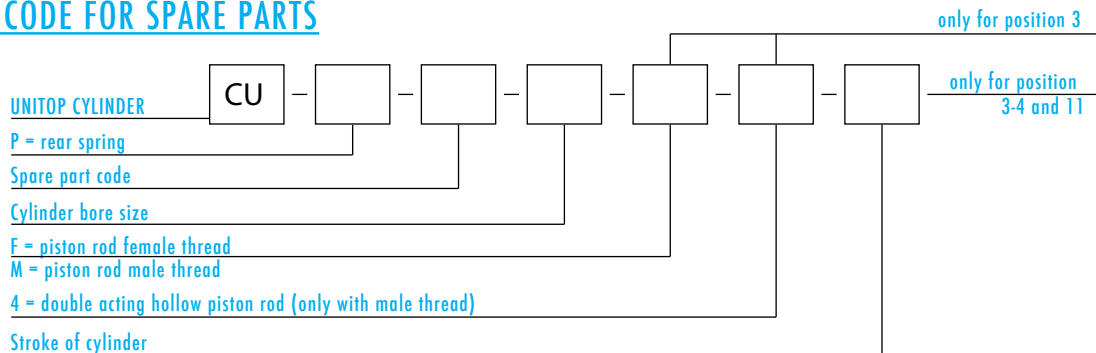


type CUD...-A; CUDP...-A

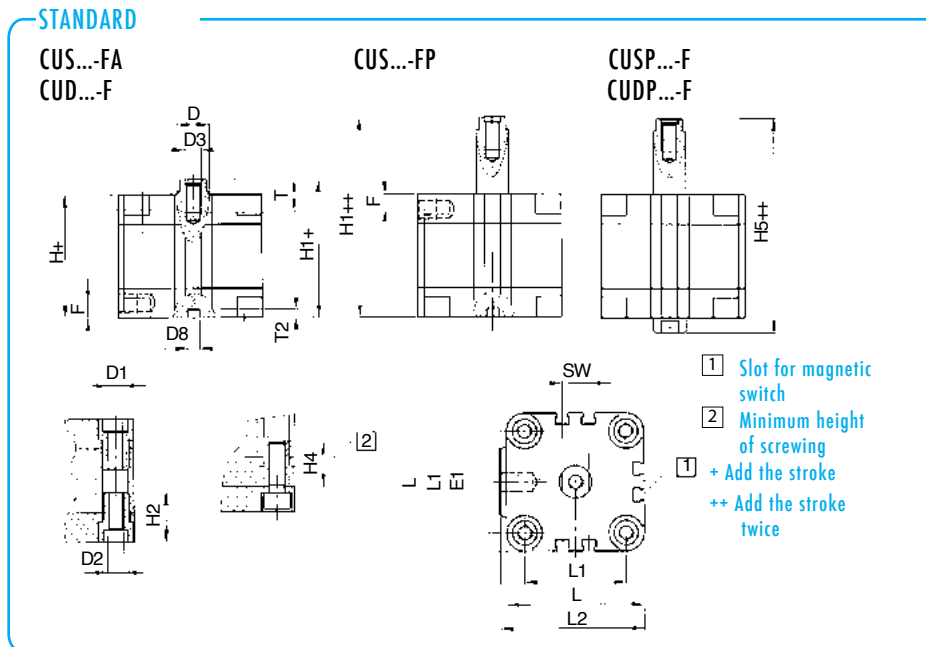
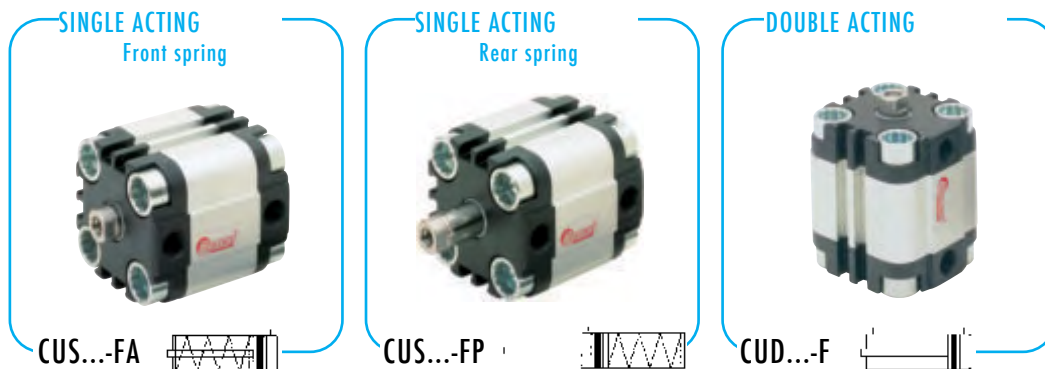


Position	Quantity	Code	Description	Position	Quantity	Code	Description
1	1	GTA	Front end cap group	6	8	VT	Screw
2	1	GTP	Rear end cap group	7	1	SGM	Seals kit
3	1	ST	Piston rod	8	1	ML	Spring
4	1	CM	Body	9	1	GTR	Antirotation front end cap
5	1	GPT	Piston group	10	1	GSA	Antirotation bracket group
				11	2	SA	Slide bars

ORDER CODE FOR SPARE PARTS

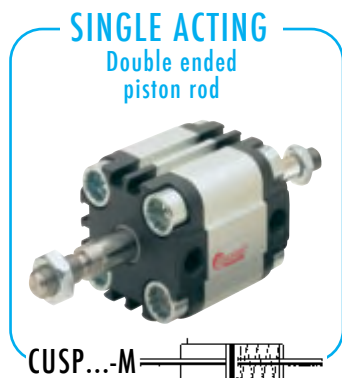


DIMENSIONAL FEATURES



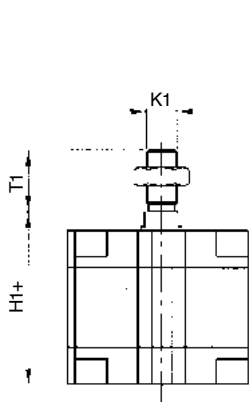
Bore size mm	Ø mm	Ø mm			Ø mm		Ø H9 mm		mm	mm	mm
16	8	3,3	M4	M4	3,2	-	6	M5	8	38	42,5
20	10	4,2	M5	M5	3,8	-	6	M5	8	38	42,5
25	10	4,2	M5	M5	3,8	-	6	M5	8	39,5	45
32	12	5,2	M6	M6	4,5	-	6	G1/8"	8	44,5	50,5
40	12	5,2	M6	M6	4,5	-	6	G1/8"	8	45,5	52
50	16	6,8	M8	M8	6	-	6	G1/8"	8	45,5	53
63	16	8,5	M10	M8	6	-	8	G1/8"	8	50	57,5
80	20	8,5	M10	M10	8	G1/8"	8	G1/8"	8,5	56	64
100	25	8,5	M10	M12	11,7	G1/4"	8	G1/4"	10,5	66,5	76,5

DIMENSIONAL FEATURES

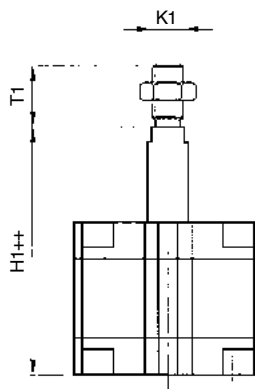


SPECIAL FEATURES

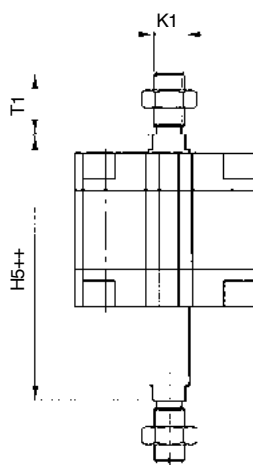
CUS...-MA
CUD...-M



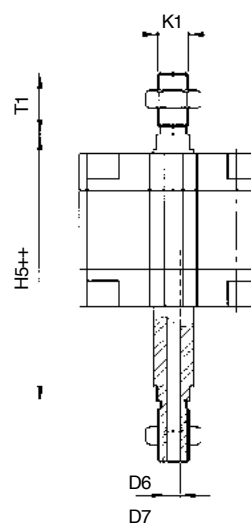
CUS...-MP



CUSP...-M
CUDP...-M



CUDP...-M4



H2 mm	H4 mm	H5 mm	K1	L mm	L1 mm	L2 mm	SW mm	T* mm	T1 mm	T2 mm
18,5	16	47	M8	29	18	30	7	10	20	4
18,5	18	47	M10x1,25	36	22	37,5	8	10	22	4
18,5	18	50,5	M10x1,25	40	26	41,5	8	10	22	4
23	20	56,5	M10x1,25	50	32	52	10	12	22	4
23	20	58,5	M10x1,25	60	42	62,5	10	12	22	4
24,5	20	60,5	M12x1,25	68	50	71	13	16	24	4
27	25	65	M12x1,25	87	62	91	13	16	24	4
27	25	72	M16x1,5	107	82	111	17	20	32	4
32,5	25	86,5	M20x1,5	128	103	133	22	24	40	4

*For versions with double ended piston rod and stroke < 5 mm, this dimension decreases of 6 mm.

DIMENSIONAL FEATURES

DOUBLE ACTING
Anti-rotation with
double slide bar



CUD...-A

DOUBLE ACTING
Anti-rotation -
double ended piston rod

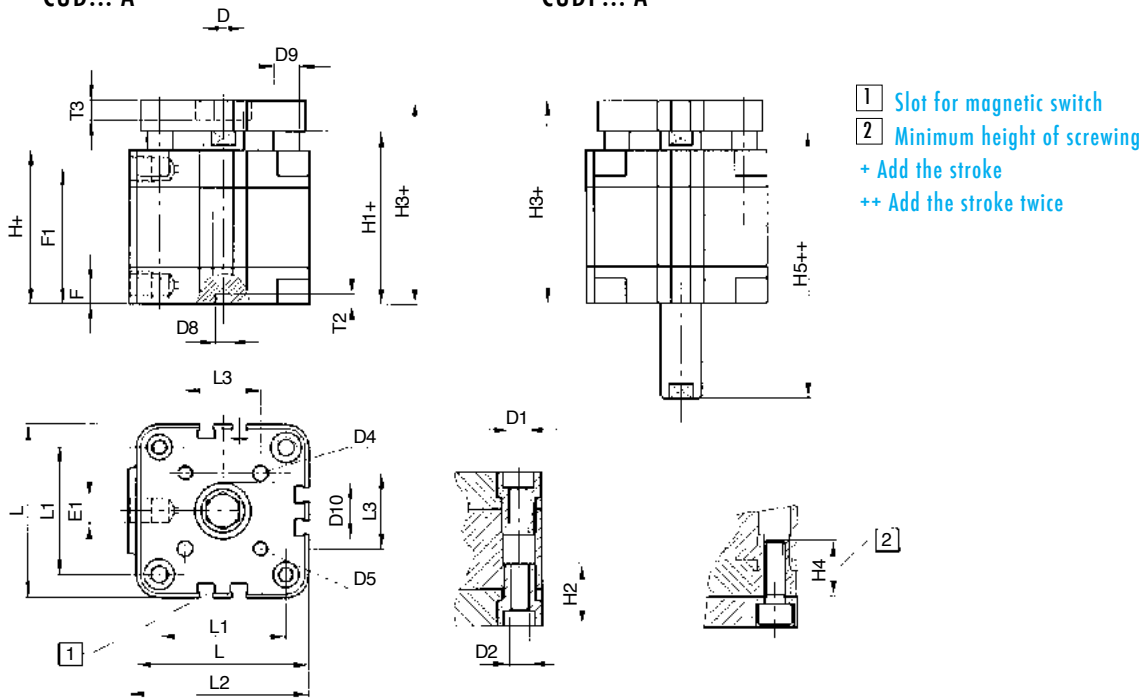


CUDP...-A

STANDARD

CUD...-A

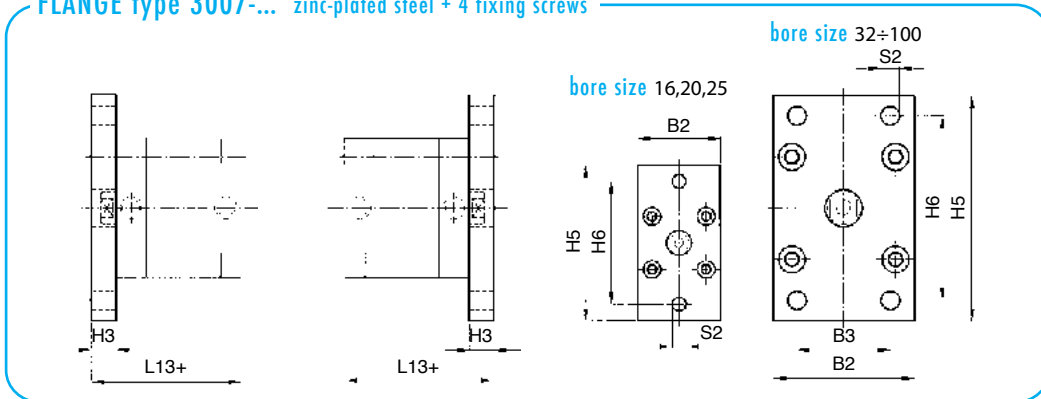
CUDP...-A



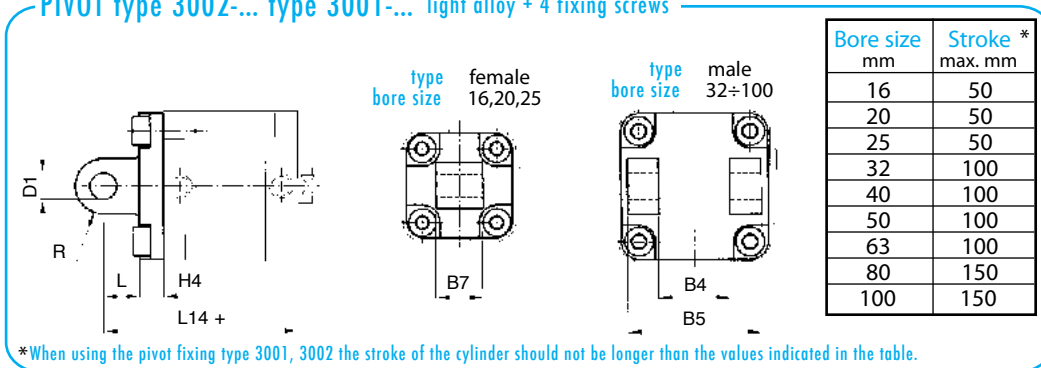
Bore size mm	D Ø mm	D1 Ø mm	D2	D4 H8 mm	D5	D8 Ø H9 mm	D9 Ø mm	D10 Ø H9 mm	E1	F mm	F1 mm	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	L mm	L1 mm	L2 mm	L3 mm	T2 mm	T3 mm
16	8	3,3	M4	3	M3	6	5	8	M5	8	30	38	42,5	18,5	48,5	16	47	29	18	30	10	4	4,2
20	10	4,2	M5	4	M4	6	6	10	M5	8	30	38	42,5	18,5	50,5	18	47	36	22	37,5	12	4	5,7
25	10	4,2	M5	5	M5	6	6	14	M5	8	31,5	39,5	45	18,5	53	18	50,5	40	26	41,5	15,6	4	4,8
32	12	5,2	M6	5	M5	6	8	17	G1/8"	8	36,5	44,5	50,5	21,5	60,5	20	56,5	50	32	52	19,8	4	6,1
40	12	5,2	M6	5	M5	6	8	17	G1/8"	8	37,5	45,5	52	21,5	62	20	58,5	60	42	62,5	23,3	4	6,1
50	16	6,8	M8	6	M6	6	10	22	G1/8"	8	37,5	45,5	53	22	65	20	60,5	68	50	71	29,7	4	7,6
63	16	8,5	M10	6	M6	8	10	22	G1/8"	8	42	50	57,5	24,5	69,5	25	65	87	62	91	35,4	4	7,6
80	20	8,5	M10	8	M8	8	12	28	G1/8"	8,5	47,5	56	64	27,5	78	25	72	107	82	111	46	4	8,7
100	25	8,5	M10	10	M10	8	12	30	G1/4"	10,5	56	66,5	76,5	32,5	90,5	25	86,5	128	103	133	56,6	4	10,3

FIXING ACCESSORIES

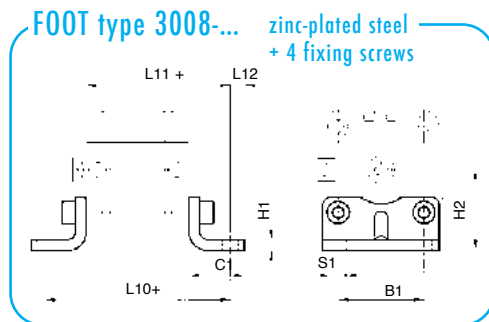
FLANGE type 3007-... zinc-plated steel + 4 fixing screws



PIVOT type 3002-... type 3001-... light alloy + 4 fixing screws

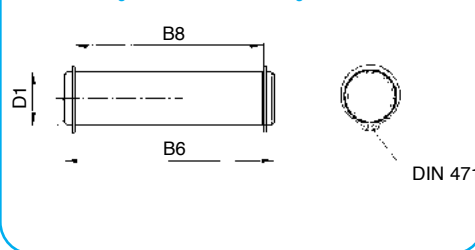


FOOT type 3008-... zinc-plated steel + 4 fixing screws



+ Add the stroke

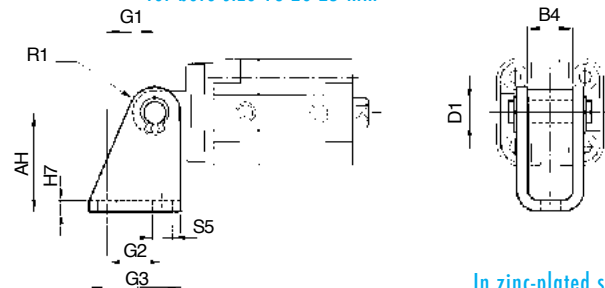
PIN FOR PIVOT type ISEC-... ground steel + 2 seeger



Bore size mm	B1 mm	B2 mm	B3 mm	B4 mm	B5 h14 mm	B6 mm	B7 h14 mm	B8 mm	C1 mm	D1 Ø H9-e8 mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	H6 mm	L mm	L10 mm	L11 mm	L12 mm	L13 mm	L14 mm	R Ø mm	S1 mm	S2 mm
16	18	29	-	12,1	-	-	12	-	17,5	6	3	22	10	6	55	43	10	64	51	4,5	48	54	6	5,5	5,5
20	22	36	-	16,1	-	-	16	-	22	8	4	27	10	6	70	55	14	70	54	6	48	58	8	6,6	6,6
25	26	40	-	16,1	-	-	16	-	22	8	4	30	10	6	76	60	14	71,5	55,5	6	49,5	59,5	8	6,6	6,6
32	32	50	32	26	45	52	-	46	26	10	5	32	10	9	80	65	13	80,5	62,5	8	54,5	66,5	10	6,6	7
40	42	60	36	28	52	59	-	53	28	12	5	42,5	10	9	102	82	16	85,5	65,5	8	55,5	70,5	12,5	9	9
50	50	68	45	32	60	67	-	61	32	12	6	47	12	11	110	90	16	93,5	69,5	8	57,5	72,5	12,5	9	9
63	62	87	50	40	70	77	-	71	39	16	6	50,5	15	11	130	110	21	104	77	12	65	82	15	11	9
80	82	107	63	50	90	97	-	91	42	16	8	65,5	15	13	160	135	23	116	86	12	71	92	15	11	12
100	103	128	75	60	110	118	-	111	45	20	8	78	15	15	190	163	26	132,5	99,5	12	81,5	107,5	20	13,5	14

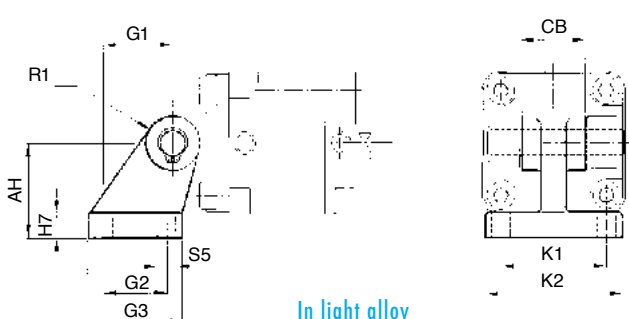
FIXING ACCESSORIES

RIGHT ANGLES JOINT type 3003 for bore size 16-20-25 mm



In zinc-plated steel

RIGHT ANGLES JOINT type 2803 for bore size from 32 to 100 mm



In light alloy

POSITIONING OF THE CYLINDER WITHOUT FIXINGS

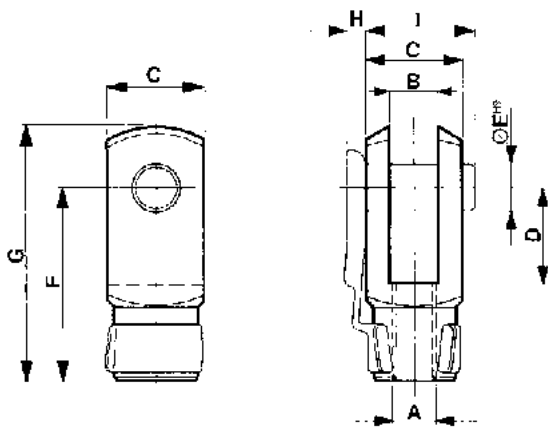


For cylinders with
bore size 16 mm
use just two screws
in diagonal or 4
anti-magneti
screws

Bore size mm	B4 mm	D1 \varnothing H9-e8 mm	AH mm	CB mm	G1 mm	G2 mm	G3 mm	H4 mm	H7 mm	K1 mm	K2 mm	R1 mm	S5 \varnothing mm
16	12,1	6	27	-	13	15	25	6	3	-	-	7	5,5
20	16,1	8	30	-	16	20	32	6	4	-	-	10	6,6
25	16,1	8	30	-	16	20	32	6	4	-	-	10	6,6
32	26	10	32	26	21	18	31	9	8	38	51	11	6,6
40	28	12	36	28	24	22	35	9	10	41	54	13	6,6
50	32	12	45	32	33	30	45	11	12	50	65	13	9
63	40	16	50	40	37	35	50	11	12	52	67	16	9
80	50	16	63	50	47	40	60	13	14	66	86	16	11
100	60	20	71	60	55	50	70	15	15	76	96	21	11

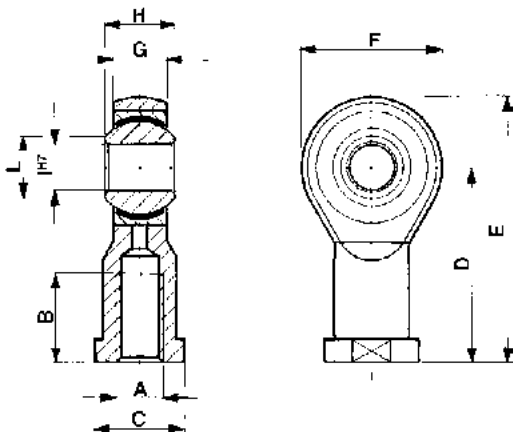
ACCESSORIES FOR PISTON ROD

ROD CLEVIS ISO 8140 - type IFF-...



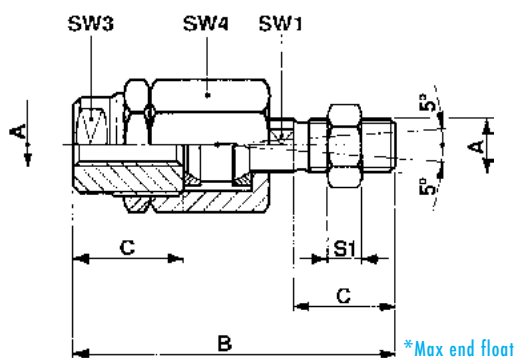
Bore size mm	A	B	C	D	E	F	G	H	I
16	M8	6	12	12	6	24	31	2	14
20	M10x1,25	8	16	16	8	32	42	3	19
25	M10x1,25	10	20	20	10	40	52	3	23
32	M10x1,25	10	20	20	10	40	52	3	23
40	M10x1,25	12	24	24	12	48	62	4	28
50	M12x1,25	16	32	32	16	64	83	4	36
63	M12x1,25	16	32	32	16	64	83	4	36
80	M16x1,5	20	40	40	20	80	105	4	44
100	M20x1,5	20	40	40	20	80	105	4	44

OSCILLATING EYE ISO 8139 - type IKJ-...



Bore size mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm
16	M8	12	11	30	40	20	6,75	9	6	8,9
20	M10x1,25	16	14	36	48	24	9	12	8	10,4
25	M10x1,25	20	17	43	57	28	10,5	14	10	12,9
32	M10x1,25	20	17	43	57	28	10,5	14	10	12,9
40	M10x1,25	22	19	50	66	32	12	16	12	15,4
50	M12x1,25	28	22	64	85	42	15	21	16	19,3
63	M12x1,25	28	22	64	85	42	15	21	16	19,3
80	M16x1,5	33	30	77	102	50	18	25	20	24,3
100	M20x1,5	33	30	77	102	50	18	25	20	24,3

AXIAL AND RADIAL COMPENSATION JOINT - type IKK-...



Bore size mm	A	B mm	C mm	S1 mm	SW1 mm	* mm	SW3 mm	SW4 mm
16	M8	35	10	4	5	1	7	13
20	M10x1,25	57	20	5	7	2	11	17
25	M10x1,25	71	20	5	12	2	19	30
32	M10x1,25	71	20	5	12	2	19	30
40	M10x1,25	75	24	6	12	2	19	30
50	M12x1,25	103	32	8	20	2	30	42
63	M12x1,25	103	32	8	20	2	30	42
80	M16x1,5	119	40	10	20	2	30	42
100	M20x1,5	119	40	10	20	2	30	42

CX 32-125



CD 160-320



COMPONENTS LIST

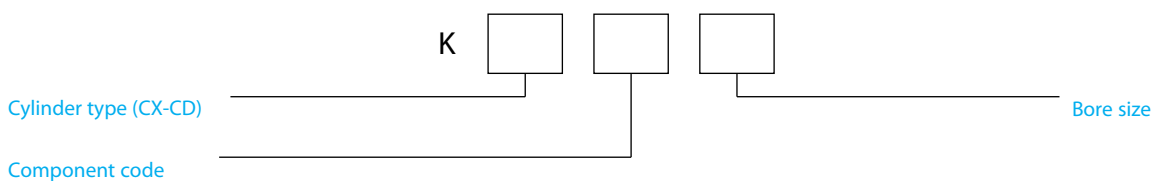
		No. of parts for kit
1) TA	Front end cap complete with seals and bushing	1
2) TP	Rear end cap complete with seals	1
3) DC	Cushion Screws	2
4) OG	Cushion Boss	2
6) DI	Piston spacer (for integral piston)	2
7) PM	Magnetic piston*	1
8) GD	Piston ring nut	1
9) VT	Fixing Screws	8
11) DS	Piston Rod Nut	1

COMPONENTS LIST

		No. of parts for kit
1) TA	Front end cap complete with seals and bushing	1
2) TP	Rear end cap complete with seals	1
3) DC	Cushion Screw	2
4) PT	Piston, complete with seals	1
5) PM	Piston, complete with seals and magnetic ring	1
6) GD	Piston ring nut	1
7) VTT	Fixing nut for tie rods	8
11) DS	Rod screw nut	1

*For bore size 125 in aluminium complete with seals.

ORDERING CODE FOR COMPONENTS





GTA	Front end cap complete with seals and bushing
GTP	Rear end cap complete with seals
GPT	Piston in aluminium complete with seals, magnet, screw nut and spacer for fixing to the piston rod
ML	Front or rear spring for strokes from 5 a 25 mm
VT	Screw for fixing end caps-body
GTR	Front end cap complete with seals and bushing for slide bar
GSA	Antirotation bracket with ring nut and anchor screw
SA	Antirotation slide bars

CYLINDER TYPE

COMPONENTS OF THE CYLINDER

Single acting cylinder - type CUS	1GTA + 1GTP + 1GPT + + 1ML + 8VT
Double acting cylinder - type CUD	1GTA + 1GTP + 1GPT + 8VT
Single acting cylinder - double ended piston rod - type CUSP	2GTA + 1GPT + 1ML + 8VT
Double acting cylinders double ended piston rod - type CUDP	2GTA + 1GPT + 8VT
Double acting cylinder - antirotation - type CUD-...-A	1GTR + 1GTP + 1GPT + 1GSA + 6VT
Double acting cylinder - antirotation - double ended piston rod - type CUDP-...-A	1GTR + 1GTA + 1GPT + 1GSA + 6VT