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Operation by double acting pneumatic or hydraulic cylinder. The cylinder is fixed and can therefore benefit from rigid piping.

Eleven different sizes for clamping forces between 80 and 10000 daN.

Self-maintaining of the clamping force by a toggle system, when the locked position is reached, it is not necessary to maintain the cylinder under pressure.

A housing protects the mechanism against the projection of impurities. The addition of rubber bellows make this cover completely waterproof.

Two position sensors signal the locked and unlocked position. These sensors are placed inside the housing as close as possible to the clamping device so that a tightening defect resulting from the breakage of a part of the mechanism can be processed by the control system.

Two fixing methods for the hydraulic toggle clamp, either a wider lateral mounting base or a narrower longitudinal mounting base.

The clamping force is obtained with precision by adjusting the thickness dimension of a stack of spring washers.

Carbon steel or stainless steel construction.

The shafts are mounted on needle bearings greased for life.

The operating temperature is between -10 and +70°C.

150°C operating temperature is possible using VITON seals and bellows as well as high temperature position sensors.

Three clamping modes are proposed. The most common is a U-bolt which engages on a latch plate. A hook can be used to clamp a cylindrical bar.

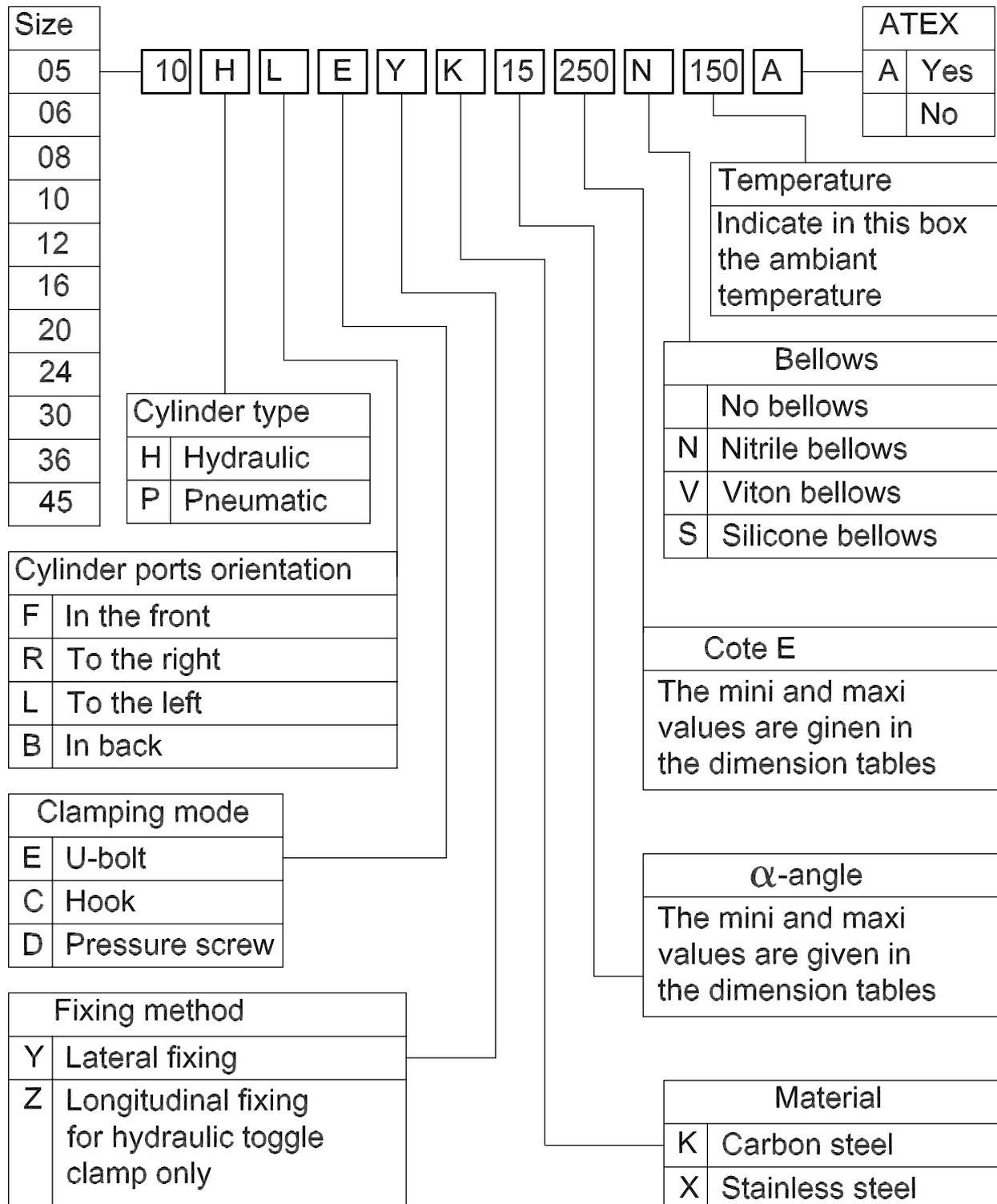
The third option is a pressure screw which applies a force to a flat surface of the part to be clamped.

The maximum tilting angle of the clamping device is 40°, this angle is limited to 15° when the toggle clamp is equipped with bellows.

The mounting position is indifferent, all mounting positions can be used.

For operation in an explosive atmosphere, position sensors in accordance with ATEX standard are available.

Patent No. FR2201025

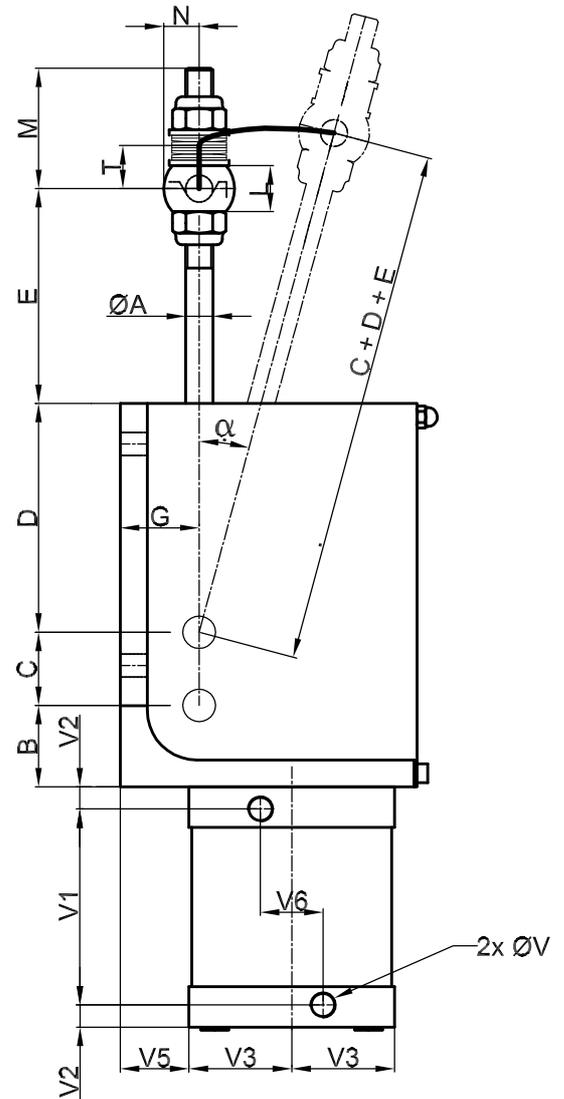
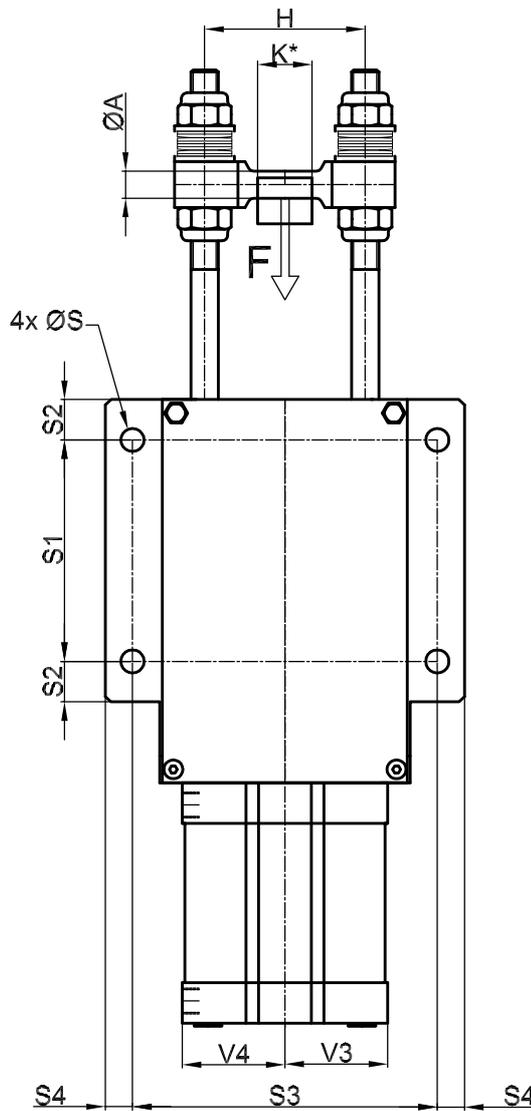
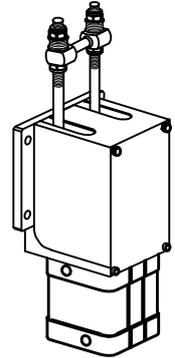
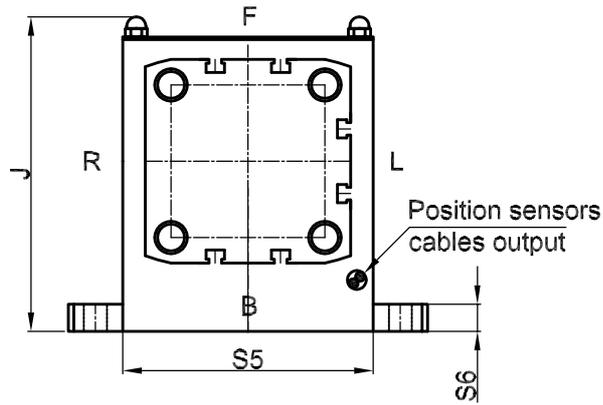


Exemple: Toggle clamp size 12, hydraulic, cylinder ports on the left, U-bolt style, lateral fixing, carbon steel,  $\alpha = 15^\circ$ , E = 120 mm, without bellows, temperature 150°C, non-explosive atmosphere:  
Code: 12.H.L.E.Y.K.15.120.150

Price upon request

Pneumatic toggle clamp  
U - bolt style

# LOCKAMAX



\*: K = latch plate width

Pneumatic toggle clamp  
U - bolt style

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics				Dimensions			
Size Ø A	Clamping force F in daN	Pneumatic pressure in bar	Weight in kg	α mini	α maxi	E mini	E maxi
05	80	10	2	0	40	15	110
06	150	10	2.5	0	40	20	130
08	250	10	4	0	40	25	150
10	350	10	6.5	0	40	30	160
12	650	10	12	0	40	35	190
16	1000	10	18	0	40	40	250
20	1500	10	29	0	40	50	280

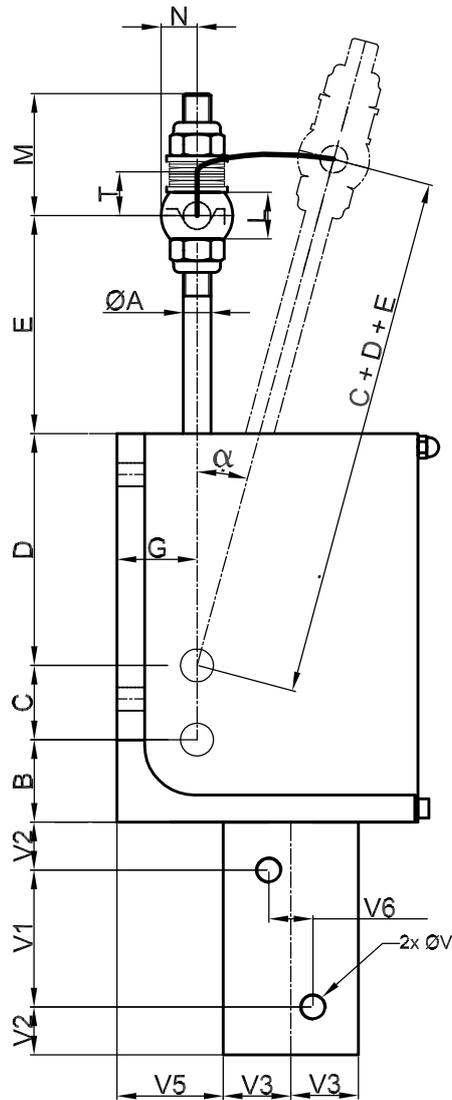
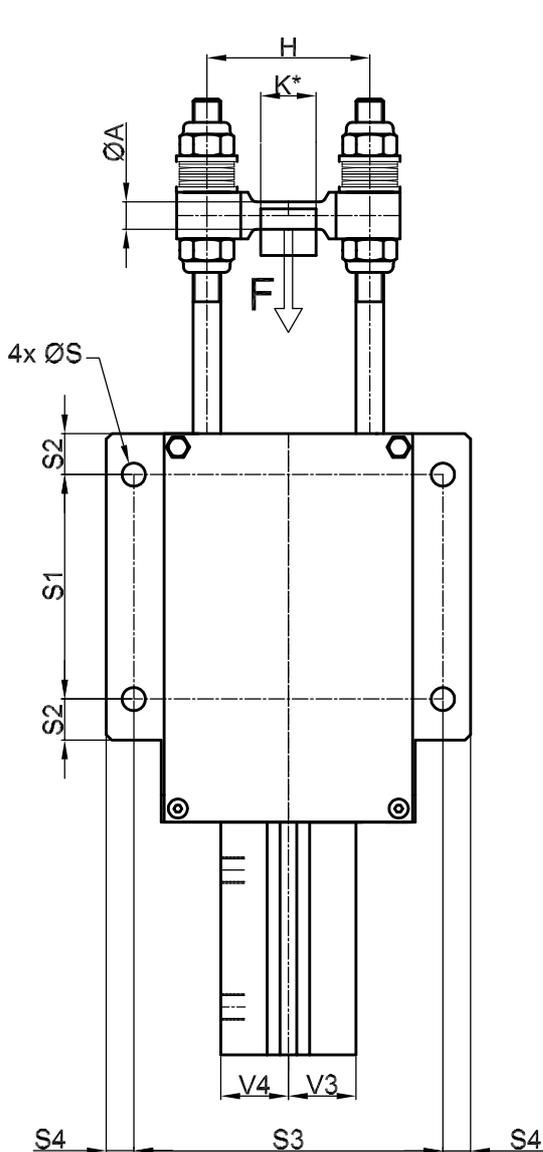
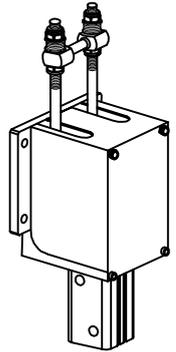
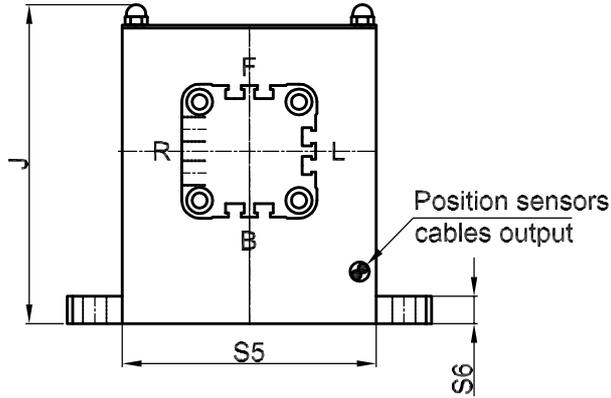
Dimensions										
Ø A	B	C	D	G	H	J	K	L	M	N
05	25.6	21.5	56.9	21	38	79	17	8	24	6
06	25.1	26.2	64.7	24	45	89	19	10	30	7.5
08	28.1	28	69.9	27	53	97	23	13	40	10
10	29.2	35.9	87.9	33	64	121	28	16	46	12.5
12	35.2	42	101.8	38	80	142	32	19	55	14.5
16	41.2	47.6	115.2	46	94	162	33	25	73	18.5
20	47.3	51.9	136.8	54	115	190	50	31	87	23

Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	54.6	8.2	23.5	23.5	18.5	12	G1/8
06	80	8	91	7	73	7	5.5	58.6	8.2	27.25	27.25	19.75	16	G1/8
08	81	10	104	7	86	8	6.5	60.6	8.2	32.75	32.75	19.25	16	G1/8
10	93	15	122	10	100	10	8.5	72.6	8.2	37.75	37.75	25.25	23	G1/8
12	113	18	154	12	126	12	10.5	87.6	8.2	47.75	47.75	28.25	23	G1/8
16	120	22	181	15	146	15	13	99	10.5	56.75	56.75	30.25	40	G1/8
20	153	24	210	16	174	16	15	120	10.5	67.3	67.3	34.7	42.3	G1/4

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	

Hydraulic toggle clamp  
 U - bolt style  
 Lateral fixing

# LOCKAMAX



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Hydraulic toggle clamp  
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In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm3		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	40	15	110
06	150	50	6	9.4	2.5	0	40	20	130
08	250	80	7	11	3.5	0	40	25	150
10	350	80	13.5	19.6	6	0	40	30	160
12	600	80	27.5	40.2	11	0	40	35	190
16	1000	80	52.6	75.4	18	0	40	40	250
20	1400	80	94.3	137.4	28	0	40	50	280
24	2700	80	167.9	249.4	48	0	40	60	350
30	4200	80	309.2	452.4	82	0	40	70	360
36	6000	80	539.1	785.4	129	0	40	85	390
45	10000	100	673.9	981.7	225	0	40	110	510

Dimensions										
Ø A	B	C	D	G	H	J	K	L	M	N
05	25.6	21.5	56.9	21	38	79	17	8	24	6
06	25.1	26.2	64.7	24	45	89	19	10	30	7.5
08	28.1	28	69.9	27	53	97	23	13	40	10
10	29.2	35.9	87.9	33	64	121	28	16	46	12.5
12	35.2	42	101.8	38	80	142	32	19	55	14.5
16	41.2	47.6	115.2	46	94	162	33	25	73	18.5
20	47.3	51.9	136.8	54	115	190	50	31	87	23
24	56.3	69.3	164.4	62	140	225	60	38	105	28
30	67.4	80.7	196.9	74	166	267	66	46	130	35
36	77.5	93.9	223.6	86	188	310	70	56	153	41.5
45	99.5	112.5	282	105	226	380	88	70	195	53

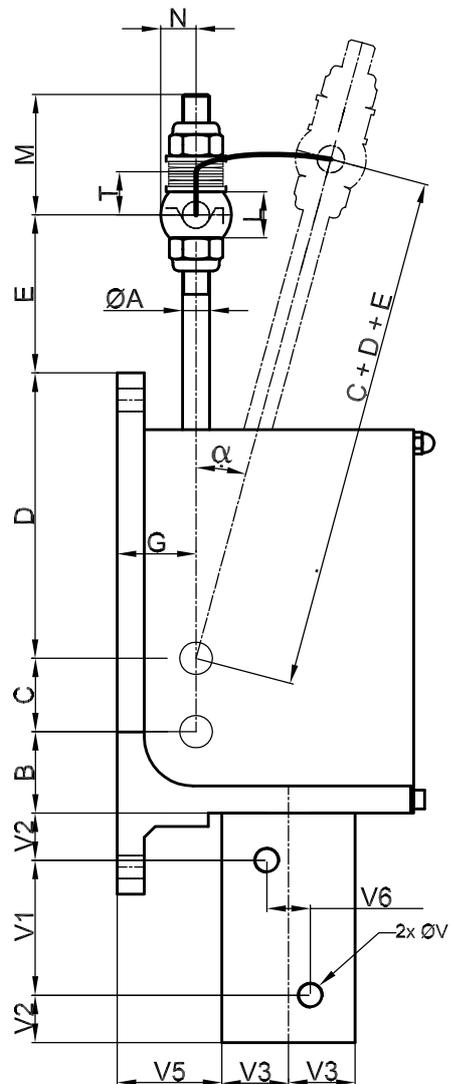
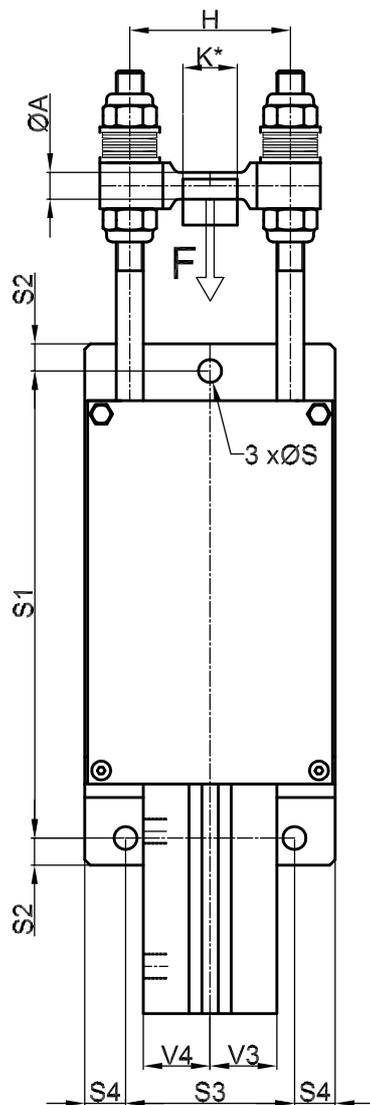
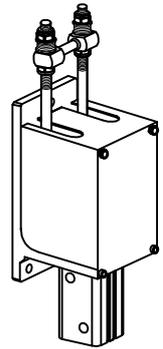
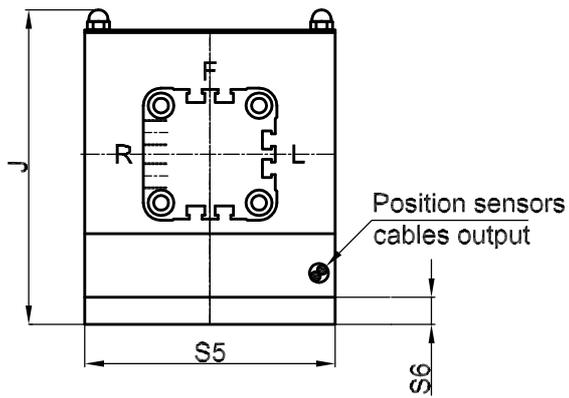
Dimensions														
	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	80	8	91	7	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	81	10	104	7	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	93	15	122	10	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	113	18	154	12	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	120	22	181	15	146	15	13	66	21	35	35	52	24	G1/4
20	153	24	210	16	174	16	15	75	22.5	40	40	62	28	G1/4
24	198	26	248	16	208	20	17	90	26	47	47	73	34	G1/4
30	234	28	294	20	248	25	19	104	29.5	57	57	85	40	G3/8
36	265	30	330	20	280	30	21	126	35	69	69	95	50	G3/8
45	334	35	398	25	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	
24	69.3	52	45.3	40.2	36	32.4	29	25.9	22.9	
30	80.7	61.1	53.4	47.7	43	38.8	35	31.5	28.1	
36	93.9	71	62.1	55.4	49.9	45	40.6	36.5	32.5	
45	112.5	85.3	74.7	66.8	60.3	54.6	49.3	44.4	39.7	

LOCKAMAX reserves the right to make technical changes without prior notice

Hydraulic toggle clamp  
 U - bolt style  
 Longitudinal fixing

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\*: K = latch plate width

Hydraulic toggle clamp  
U - bolt style  
Longitudinal fixing

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In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm3		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	40	5	100
06	150	50	6	9.4	2.5	0	40	5	120
08	250	80	7	11	3.5	0	40	10	140
10	350	80	13.5	19.6	6	0	40	10	140
12	600	80	27.5	40.2	11	0	40	10	170
16	1000	80	52.6	75.4	18	0	40	10	220
20	1400	80	94.3	137.4	28	0	40	15	250
24	2700	80	167.9	249.4	48	0	40	25	310
30	4200	80	309.2	452.4	83	0	40	30	320
36	6000	80	539.1	785.4	131	0	40	35	340
45	10000	100	673.9	981.7	228	0	40	50	460

Dimensions										
Ø A	B	C	D	G	H	J	K	L	M	N
05	25.6	21.5	71.9	21	38	79	17	8	24	6
06	25.1	26.2	79.7	24	45	89	19	10	30	7.5
08	28.1	28	85.9	27	53	97	23	13	40	10
10	29.2	35.9	108.9	33	64	121	28	16	46	12.5
12	35.2	42	127.8	38	80	142	32	19	55	14.5
16	41.2	47.6	147.2	46	94	162	33	25	73	18.5
20	47.3	51.9	172.8	54	115	190	50	31	87	23
24	56.3	69.3	200.4	62	140	225	60	38	105	28
30	67.4	80.7	240.9	74	166	267	66	46	130	35
36	77.5	93.9	273.6	86	188	310	70	56	153	41.5
45	99.5	112.5	342	105	226	380	88	70	195	53

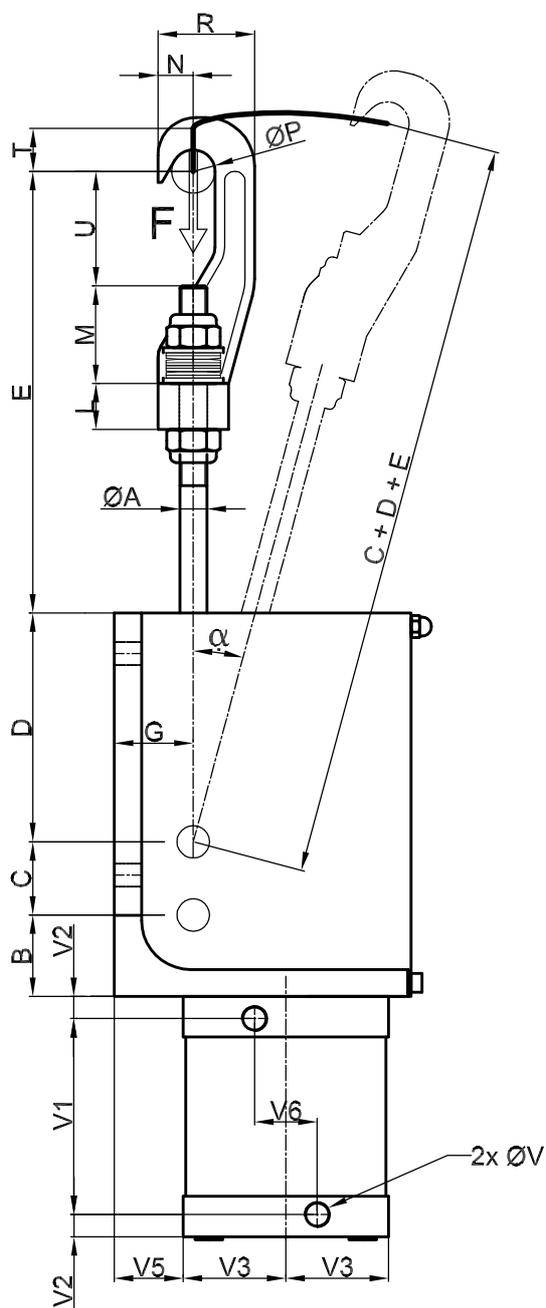
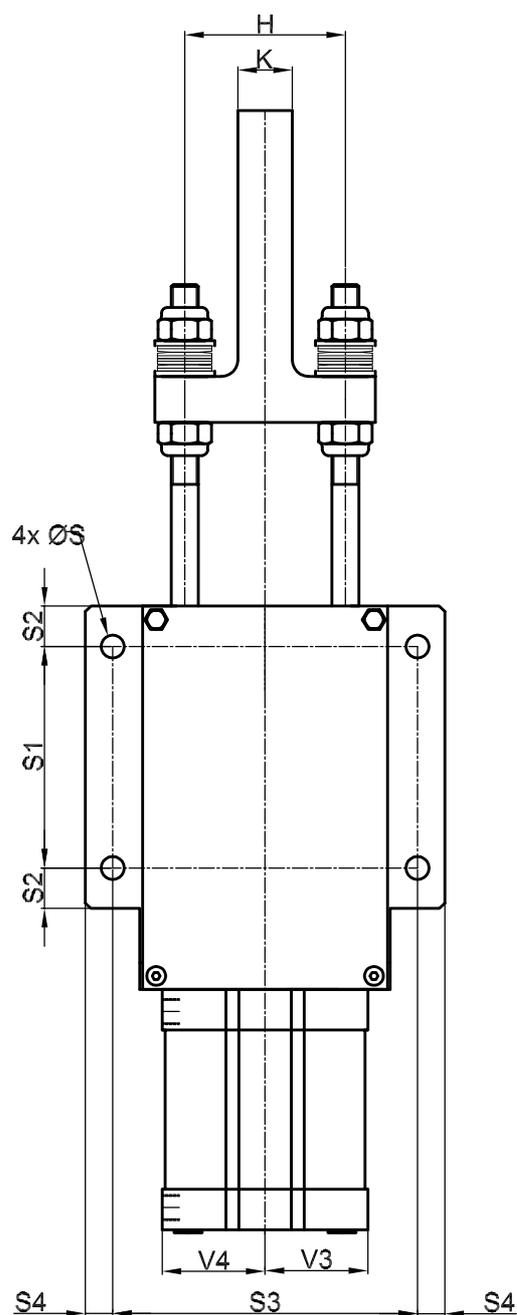
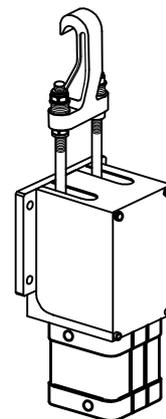
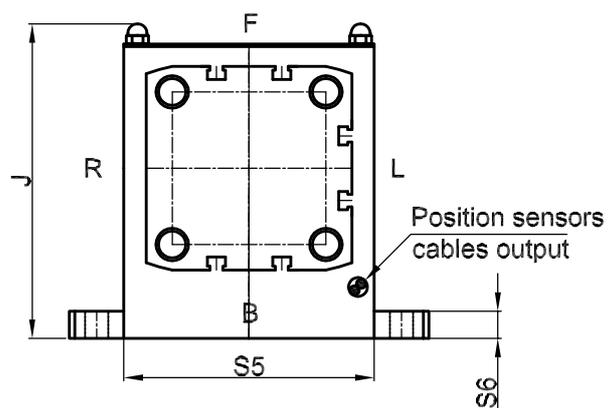
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	126	7	44	9	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	140	7	55	9	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	151	7	66	10	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	184	10	76	12	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	216	12	94	16	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	249	15	106	20	146	15	13	66	21	35	35	52	24	G1/4
20	290	16	134	20	174	16	15	75	22.5	40	40	62	28	G1/4
24	345	16	168	20	208	20	17	90	26	47	47	73	34	G1/4
30	411	20	198	25	248	25	19	104	29.5	57	57	85	40	G3/8
36	473	22	230	25	280	30	21	126	35	69	69	95	50	G3/8
45	583	28	268	35	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	
24	69.3	52	45.3	40.2	36	32.4	29	25.9	22.9	
30	80.7	61.1	53.4	47.7	43	38.8	35	31.5	28.1	
36	93.9	71	62.1	55.4	49.9	45	40.6	36.5	32.5	
45	112.5	85.3	74.7	66.8	60.3	54.6	49.3	44.4	39.7	

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Pneumatic toggle clamp  
Hook style

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Pneumatic toggle clamp  
Hook style

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In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics				Dimensions			
Size Ø A	Clamping force F in daN	Pneumatic pressure in bar	Weight in kg	α mini	α maxi	E mini	E maxi
05	80	10	2	0	40	60	155
06	150	10	3	0	40	75	185
08	250	10	4	0	40	90	215
10	350	10	7	0	40	105	235
12	600	10	12	0	40	130	285
16	1000	10	20	0	40	170	380
20	1400	10	31	0	40	200	430

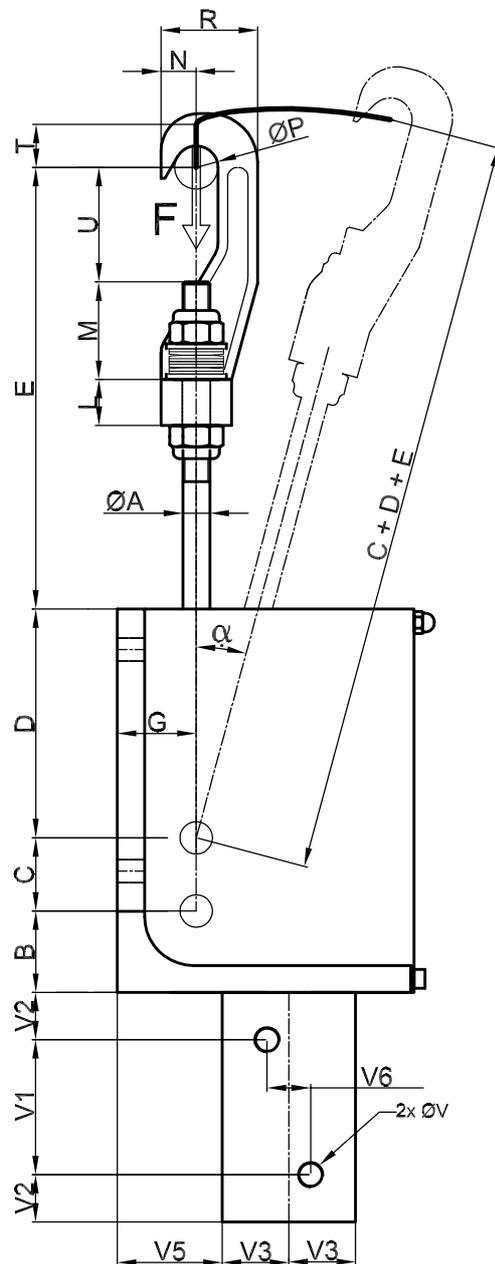
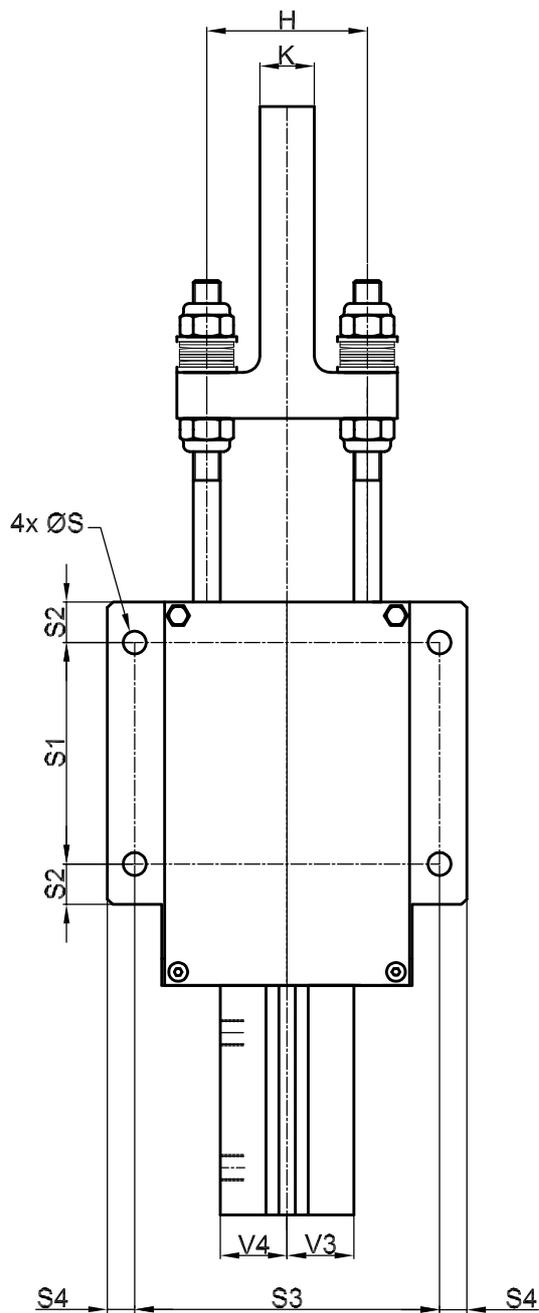
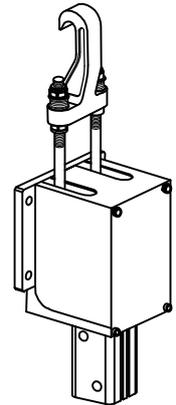
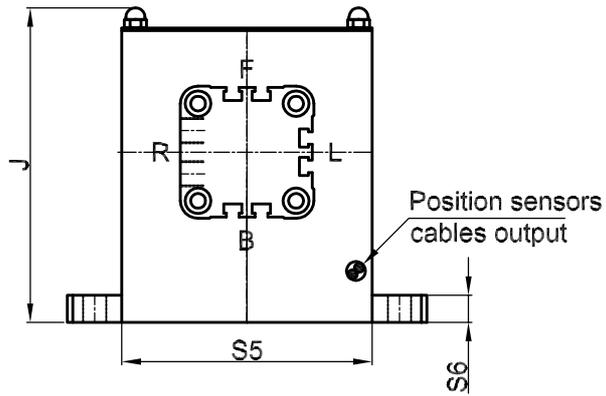
Dimensions													
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	R	U
05	25.6	21.5	56.9	21	38	79	12	8	20	6.5	8	19	23
06	25.1	26.2	64.7	24	45	89	16	10	25	8	10	24	26
08	28.1	28	69.9	27	53	97	17	13	32	9	10	26	30
10	29.2	35.9	87.9	33	64	121	21	16	38	11	12	32	33
12	35.2	42	101.8	38	80	142	28	19	46	13	16	41	44
16	41.2	47.6	115.2	46	94	162	30	25	60	18	20	53	52
20	47.3	51.9	136.8	54	115	190	32	31	72	21	24	63	59

Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	54.6	8.2	23.5	23.5	18.5	12	G1/8
06	80	8	91	7	73	7	5.5	58.6	8.2	27.25	27.25	19.75	16	G1/8
08	81	10	104	7	86	8	6.5	60.6	8.2	32.75	32.75	19.25	16	G1/8
10	97	15	122	10	100	10	8.5	72.6	8.2	37.75	37.75	25.25	23	G1/8
12	113	18	154	12	126	12	10.5	87.6	8.2	47.75	47.75	28.25	23	G1/8
16	120	22	181	15	146	15	13	99	10.5	56.75	56.75	30.25	40	G1/8
20	153	24	210	16	174	16	15	120	10.5	67.3	67.3	34.7	42.3	G1/4

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	

Hydraulic toggle clamp  
 Hook style  
 Lateral fixing

# LOCKAMAX



# Hydraulic toggle clamp

## Hook style

## Lateral fixing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm3		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	40	60	155
06	150	50	6	9.4	3	0	40	75	185
08	250	80	7	11	4	0	40	90	215
10	350	80	13.5	19.6	6.5	0	40	105	235
12	600	80	27.5	40.2	11.5	0	40	130	285
16	1000	80	52.6	75.4	19	0	40	170	380
20	1400	80	94.3	137.4	30	0	40	200	430
24	2700	80	167.9	249.4	52	0	40	240	530
30	4200	80	309.2	452.4	89	0	40	285	575
36	6000	80	539.1	785.4	139	0	40	335	640
45	10000	100	673.9	981.7	244	0	40	430	830

Dimensions													
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	R	U
05	25.6	21.5	56.9	21	38	79	12	8	20	6.5	8	19	23
06	25.1	26.2	64.7	24	45	89	16	10	25	8	10	24	26
08	28.1	28	69.9	27	53	97	17	13	32	9	10	26	30
10	29.2	35.9	87.9	33	64	121	21	16	38	11	12	32	33
12	35.2	42	101.8	38	80	142	28	19	46	13	16	41	44
16	41.2	47.6	115.2	46	94	162	30	25	60	18	20	53	52
20	47.3	51.9	136.8	54	115	190	32	31	72	21	24	63	59
24	56.3	69.3	164.4	62	140	225	38	38	87	25	28	73	74
30	67.4	80.7	196.9	74	166	267	54	47	106	31	34	90	83
36	77.5	93.9	223.6	86	188	310	67	56	125	36	40	102	94
45	99.5	112.5	282	105	226	380	72	70	160	45	50	130	122

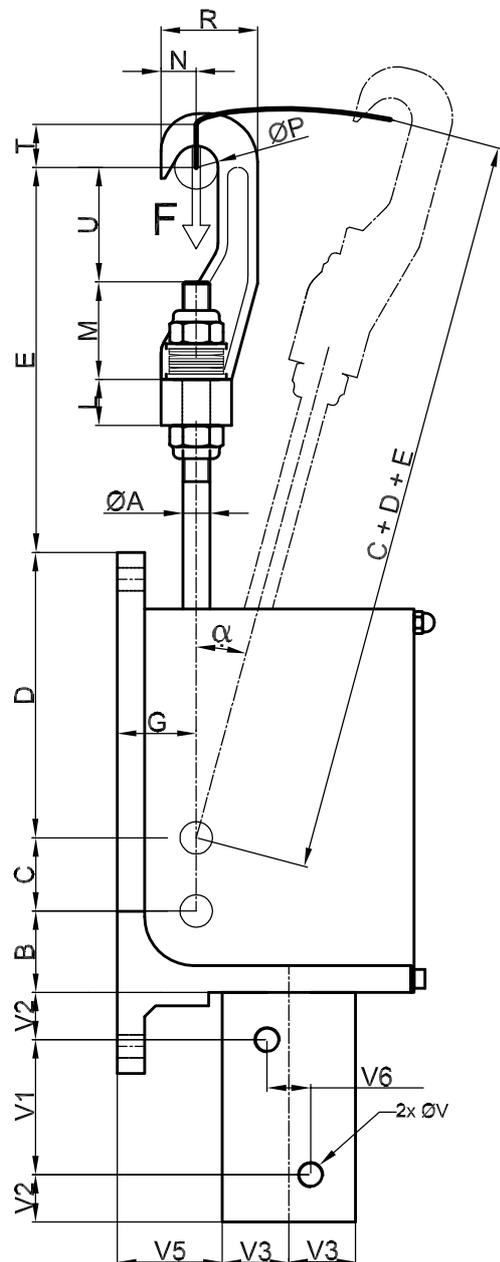
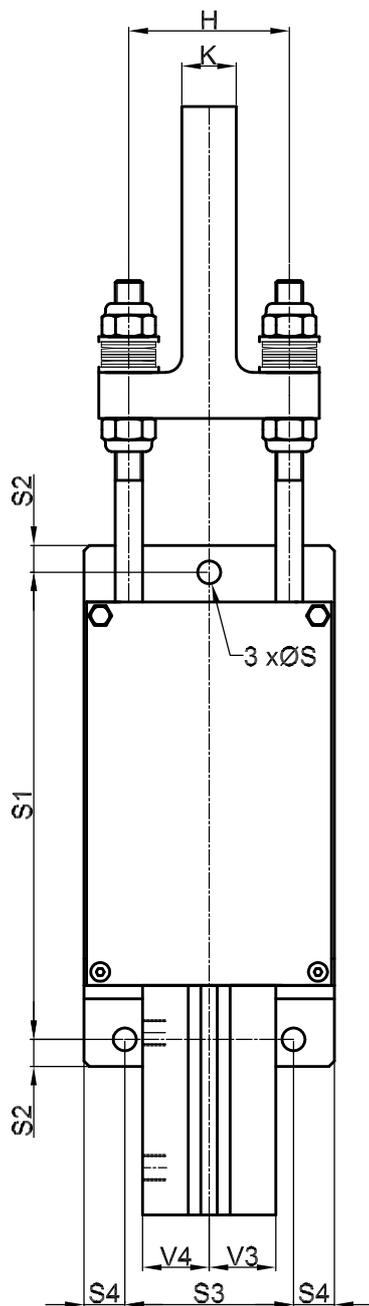
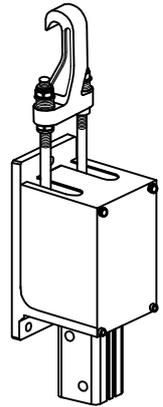
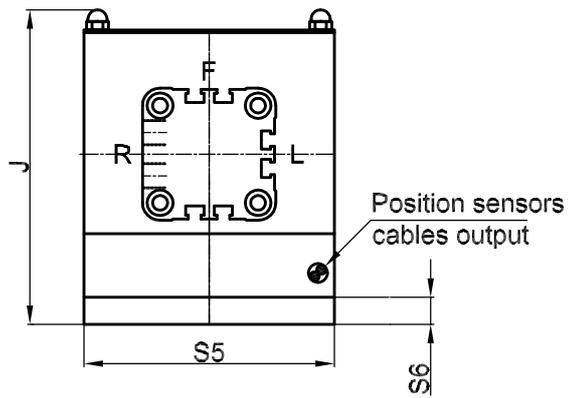
Dimensions														
	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	80	8	91	7	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	81	10	104	7	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	97	15	122	10	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	113	18	154	12	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	120	22	181	15	146	15	13	66	21	35	35	52	24	G1/4
20	153	24	210	16	174	16	15	75	22.5	40	40	62	28	G1/4
24	198	26	248	16	208	20	17	90	26	47	47	73	34	G1/4
30	234	28	294	20	248	25	19	104	29.5	57	57	85	40	G3/8
36	265	30	330	20	280	30	21	126	35	69	69	95	50	G3/8
45	334	35	398	25	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	
24	69.3	52	45.3	40.2	36	32.4	29	25.9	22.9	
30	80.7	61.1	53.4	47.7	43	38.8	35	31.5	28.1	
36	93.9	71	62.1	55.4	49.9	45	40.6	36.5	32.5	
45	112.5	85.3	74.7	66.8	60.3	54.6	49.3	44.4	39.7	

LOCKAMAX reserves the right to make technical changes without prior notice

Hydraulic toggle clamp  
 Hook style  
 Longitudinal fixing

# LOCKAMAX



# Hydraulic toggle clamp

## Hook style

## Longitudinal fixing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm3		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	40	45	150
06	150	50	6	9.4	3	0	40	60	180
08	250	80	7	11	4	0	40	75	215
10	350	80	13.5	19.6	6.5	0	40	85	230
12	600	80	27.5	40.2	11.5	0	40	105	270
16	1000	80	52.6	75.4	19	0	40	135	350
20	1400	80	94.3	137.4	30	0	40	160	410
24	2700	80	167.9	249.4	52	0	40	205	510
30	4200	80	309.2	452.4	90	0	40	240	560
36	6000	80	539.1	785.4	141	0	40	285	620
45	10000	100	673.9	981.7	246	0	40	370	810

Dimensions													
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	R	U
05	25.6	21.5	71.9	21	38	79	12	8	20	6.5	8	19	23
06	25.1	26.2	79.7	24	45	89	16	10	25	8	10	24	26
08	28.1	28	85.9	27	53	97	17	13	32	9	10	26	30
10	29.2	35.9	108.9	33	64	121	21	16	38	11	12	32	33
12	35.2	42	127.8	38	80	142	28	19	46	13	16	41	44
16	41.2	47.6	147.2	46	94	162	30	25	60	18	20	53	52
20	47.3	51.9	172.8	54	115	190	32	31	72	21	24	63	59
24	56.3	69.3	200.4	62	140	225	38	38	87	25	28	73	74
30	67.4	80.7	240.9	74	166	267	54	47	106	31	34	90	83
36	77.5	93.9	273.6	86	188	310	67	56	125	36	40	102	94
45	99.5	112.5	342	105	226	380	72	70	160	45	50	130	122

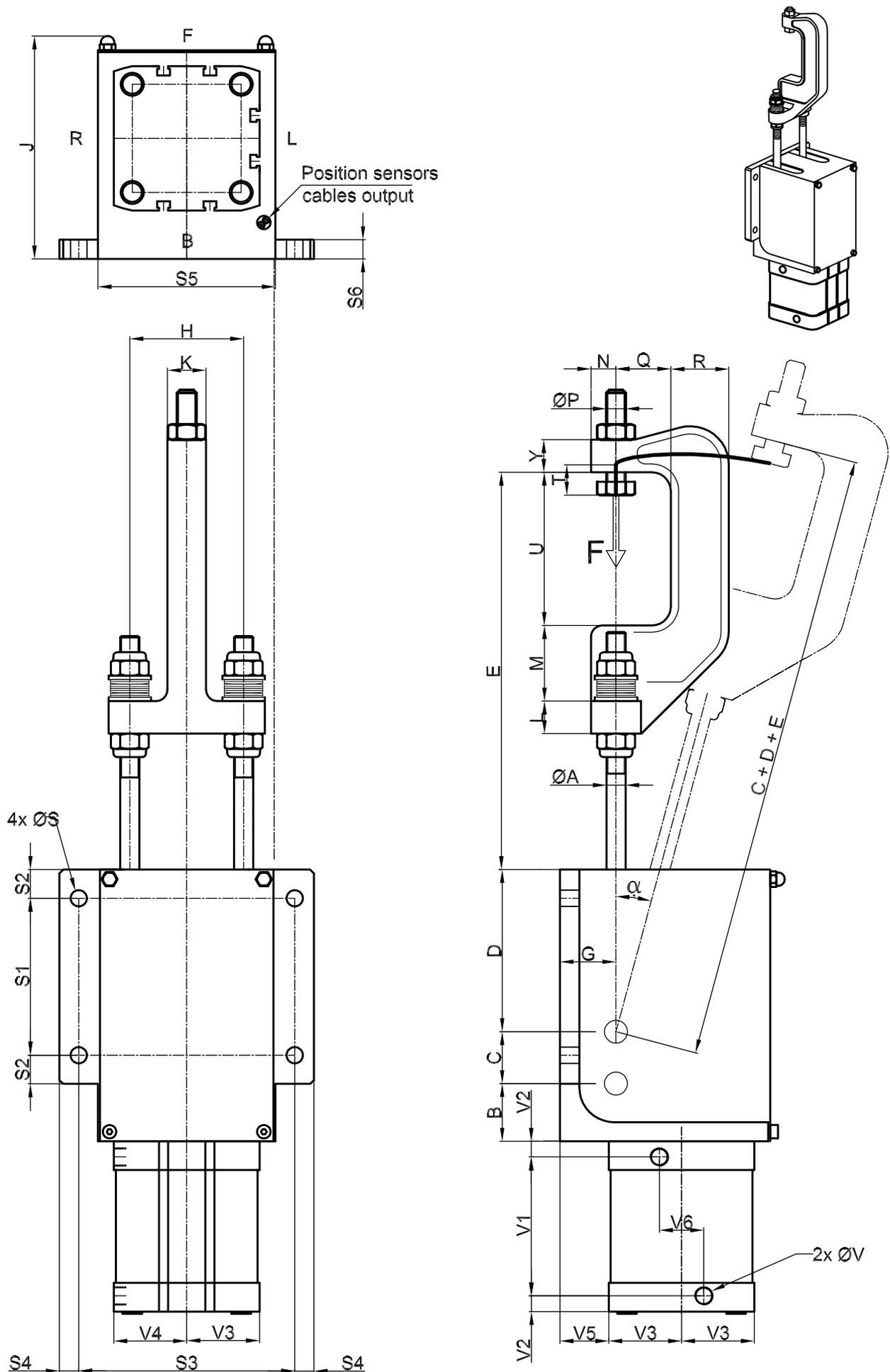
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	126	7	44	9	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	140	7	55	9	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	151	7	66	10	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	184	10	76	12	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	216	12	94	16	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	249	15	106	20	146	15	13	66	21	35	35	52	24	G1/4
20	290	16	134	20	174	16	15	75	22.5	40	40	62	28	G1/4
24	345	16	168	20	208	20	17	90	26	47	47	73	34	G1/4
30	411	20	198	25	248	25	19	104	29.5	57	57	85	40	G3/8
36	473	22	230	25	280	30	21	126	35	69	69	95	50	G3/8
45	583	28	268	35	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	
24	69.3	52	45.3	40.2	36	32.4	29	25.9	22.9	
30	80.7	61.1	53.4	47.7	43	38.8	35	31.5	28.1	
36	93.9	71	62.1	55.4	49.9	45	40.6	36.5	32.5	
45	112.5	85.3	74.7	66.8	60.3	54.6	49.3	44.4	39.7	

LOCKAMAX reserves the right to make technical changes without prior notice

Pneumatic toggle clamp  
Pressure screw

# LOCKAMAX



Pneumatic toggle clamp  
Pressure screw

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics				Dimensions			
Size Ø A	Clamping force F in daN	Pneumatic pressure in bar	Weight in kg	α mini	α maxi	E mini	E maxi
05	80	10	2	0	40	80	180
06	150	10	3	0	40	95	210
08	250	10	4	0	40	125	250
10	350	10	7	0	40	155	290
12	600	10	13	0	40	185	350
16	1000	10	21	0	40	245	460
20	1400	10	33	0	40	300	530

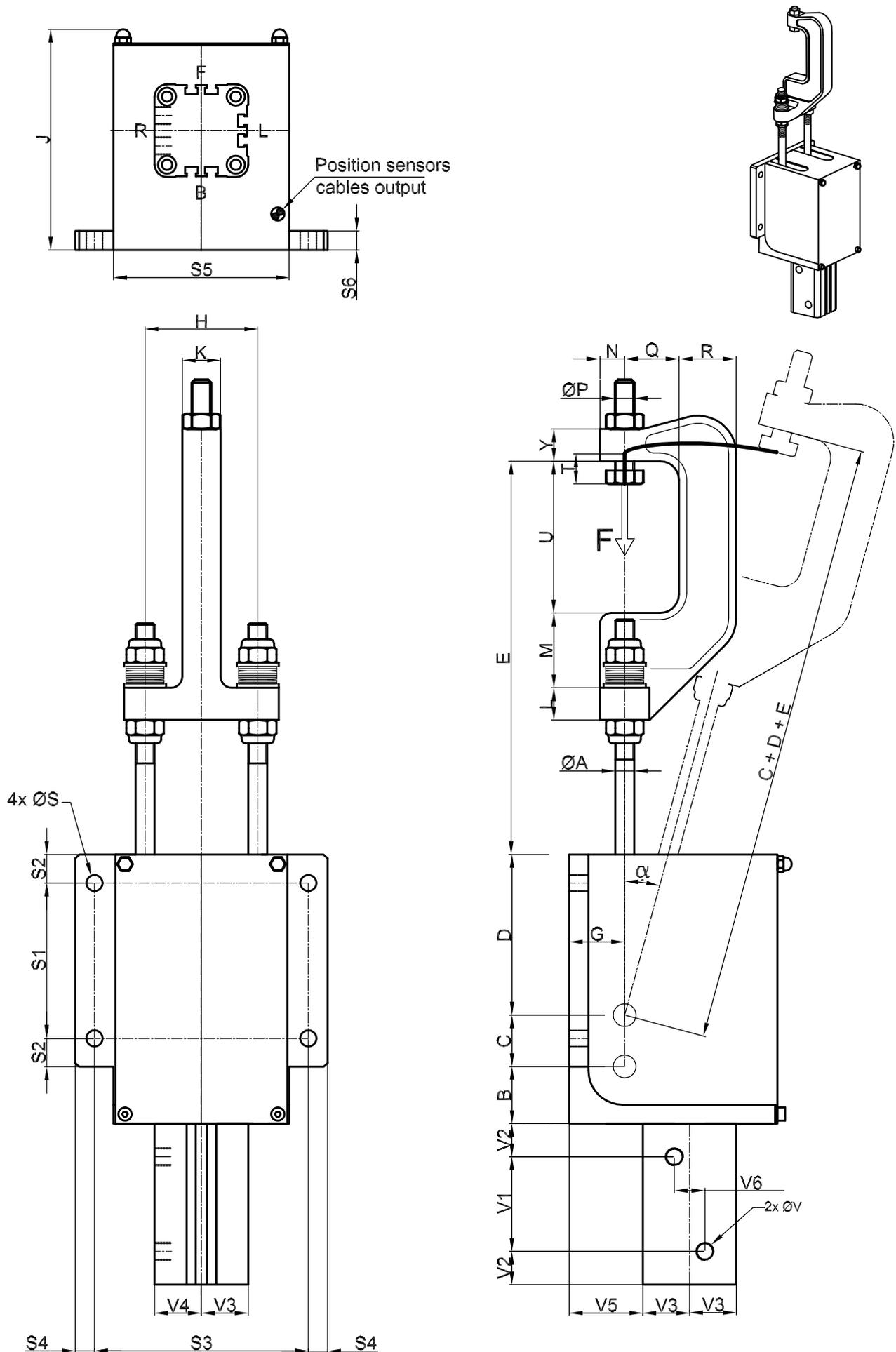
Dimensions															
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	Q	R	U	Y
05	25.6	21.5	56.9	21	38	79	12	8	21	6	M5	14.5	15	40	8.5
06	25.1	26.2	64.7	24	45	89	16	10	26	8	M6	17	18	48	11
08	28.1	28	69.9	27	53	97	17	13	34	8.5	M8	22.5	24	64	14
10	29.2	35.9	87.9	33	64	121	21	16	41	10.5	M8	28.5	30	80	17
12	35.2	42	101.8	38	80	142	28	19	49	14	M10	35	36	96	21
16	41.2	47.6	115.2	46	94	162	30	25	63	15	M12	45	48	128	28
20	47.3	51.9	136.8	54	115	190	32	31	76	16	M16	57	60	160	32

Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	54.6	8.2	23.5	23.5	18.5	12	G1/8
06	80	8	91	7	73	7	5.5	58.6	8.2	27.25	27.25	19.75	16	G1/8
08	81	10	104	7	86	8	6.5	60.6	8.2	32.75	32.75	19.25	16	G1/8
10	97	15	122	10	100	10	8.5	72.6	8.2	37.75	37.75	25.25	23	G1/8
12	113	18	154	12	126	12	10.5	87.6	8.2	47.75	47.75	28.25	23	G1/8
16	120	22	181	15	146	15	13	99	10.5	56.75	56.75	30.25	40	G1/8
20	153	24	210	16	174	16	15	120	10.5	67.3	67.3	34.7	42.3	G1/4

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	

Hydraulic toggle clamp  
 Pressure screw  
 Lateral fixing

# LOCKAMAX



Hydraulic toggle clamp  
Pressure screw  
Lateral fixing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm <sup>3</sup>		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	40	80	180
06	150	50	6	9.4	3	0	40	95	210
08	250	80	7	11	4	0	40	125	250
10	350	80	13.5	19.6	7	0	40	155	290
12	600	80	27.5	40.2	12	0	40	185	350
16	1000	80	52.6	75.4	20	0	40	245	460
20	1400	80	94.3	137.4	32	0	40	300	530
24	2700	80	167.9	249.4	55	0	40	360	650
30	4200	80	309.2	452.4	98	0	40	455	740
36	6000	80	539.1	785.4	156	0	40	540	850
45	10000	100	673.9	981.7	269	0	40	680	1080

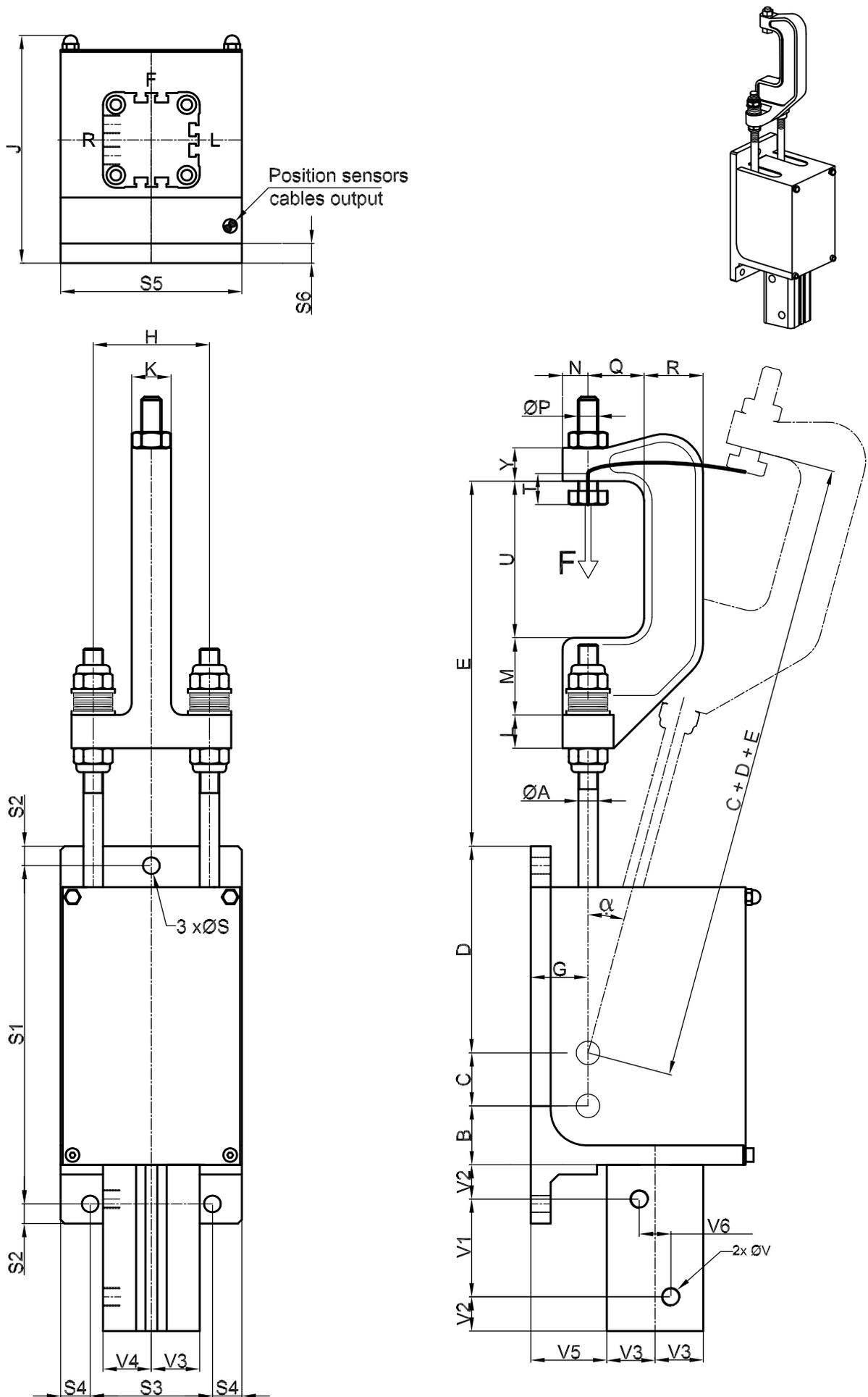
Dimensions															
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	Q	R	U	Y
05	25.6	21.5	56.9	21	38	79	12	8	21	6	M5	14.5	15	40	8.5
06	25.1	26.2	64.7	24	45	89	16	10	26	8	M6	17	18	48	11
08	28.1	28	69.9	27	53	97	17	13	34	8.5	M8	22.5	24	64	14
10	29.2	35.9	87.9	33	64	121	21	16	41	10.5	M8	28.5	30	80	17
12	35.2	42	101.8	38	80	142	28	19	49	14	M10	35	36	96	21
16	41.2	47.6	115.2	46	94	162	30	25	63	15	M12	45	48	128	28
20	47.3	51.9	136.8	54	115	190	32	31	76	16	M16	57	60	160	32
24	56.3	69.3	164.4	62	140	225	38	38	90	19	M20	68	72	190	38
30	67.4	80.7	196.9	74	166	267	54	47	120	27	M24	90	90	240	50
36	77.5	93.9	223.6	86	188	310	67	56	138	33.5	M30	108	108	290	60
45	99.5	112.5	282	105	226	380	72	70	175	36	M36	134	135	360	76

Dimensions														
	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	80	8	91	7	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	81	10	104	7	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	97	15	122	10	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	113	18	154	12	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	120	22	181	15	146	15	13	66	21	35	35	52	24	G1/4
20	153	24	210	16	174	16	15	75	22.5	40	40	62	28	G1/4
24	198	26	248	16	208	20	17	90	26	47	47	73	34	G1/4
30	234	28	294	20	248	25	19	104	29.5	57	57	85	40	G3/8
36	265	30	330	20	280	30	21	126	35	69	69	95	50	G3/8
45	334	35	398	25	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	
24	69.3	52	45.3	40.2	36	32.4	29	25.9	22.9	
30	80.7	61.1	53.4	47.7	43	38.8	35	31.5	28.1	
36	93.9	71	62.1	55.4	49.9	45	40.6	36.5	32.5	
45	112.5	85.3	74.7	66.8	60.3	54.6	49.3	44.4	39.7	

Hydraulic toggle clamp  
 Pressure screw  
 Longitudinal fixing

# LOCKAMAX



Hydraulic toggle clamp  
Pressure screw  
Longitudinal fixing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm <sup>3</sup>		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	40	65	160
06	150	50	6	9.4	3	0	40	80	200
08	250	80	7	11	4	0	40	110	240
10	350	80	13.5	19.6	7	0	40	135	270
12	600	80	27.5	40.2	12	0	40	160	320
16	1000	80	52.6	75.4	20	0	40	215	420
20	1400	80	94.3	137.4	33	0	40	265	500
24	2700	80	167.9	249.4	56	0	40	325	610
30	4200	80	309.2	452.4	99	0	40	410	700
36	6000	80	539.1	785.4	158	0	40	490	800
45	10000	100	673.9	981.7	271	0	40	625	1020

Dimensions															
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	Q	R	U	Y
05	25.6	21.5	71.9	21	38	79	12	8	21	6	M5	14.5	15	40	8.5
06	25.1	26.2	79.7	24	45	89	16	10	26	8	M6	17	18	48	11
08	28.1	28	85.9	27	53	97	17	13	34	8.5	M8	22.5	24	64	14
10	29.2	35.9	108.9	33	64	121	21	16	41	10.5	M8	28.5	30	80	17
12	35.2	42	127.8	38	80	142	28	19	49	14	M10	35	36	96	21
16	41.2	47.6	147.2	46	94	162	30	25	63	15	M12	45	48	128	28
20	47.3	51.9	172.8	54	115	190	32	31	76	16	M16	57	60	160	32
24	56.3	69.3	200.4	62	140	225	38	38	90	19	M20	68	72	190	38
30	67.4	80.7	240.9	74	166	267	54	47	120	27	M24	90	90	240	50
36	77.5	93.9	273.6	86	188	310	67	56	138	33.5	M30	108	108	290	60
45	99.5	112.5	342	105	226	380	72	70	175	36	M36	134	135	360	76

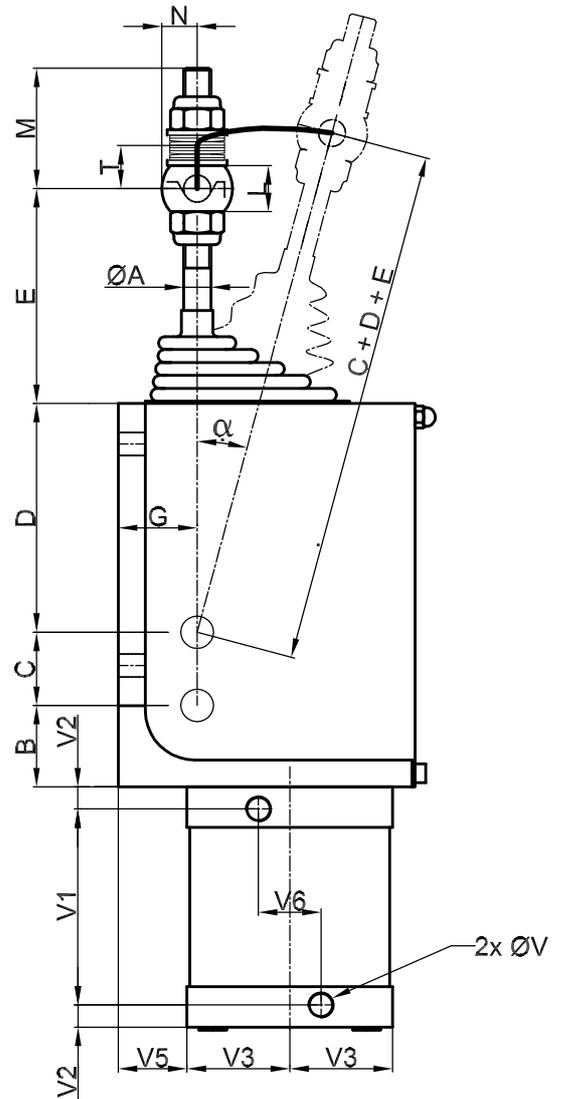
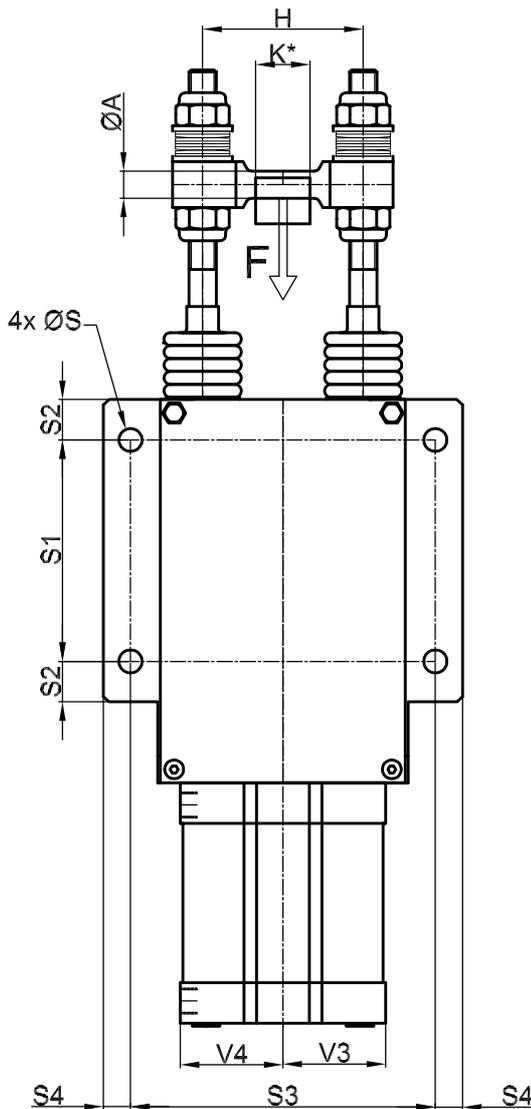
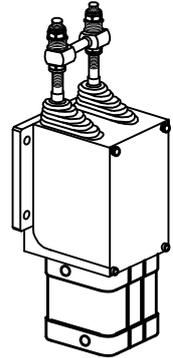
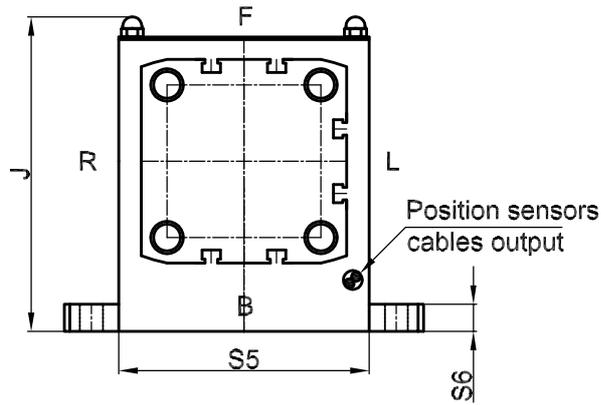
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	126	7	44	9	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	140	7	55	9	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	151	7	66	10	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	184	10	76	12	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	216	12	94	16	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	249	15	106	20	146	15	13	66	21	35	35	52	24	G1/4
20	290	16	134	20	174	16	15	75	22.5	40	40	62	28	G1/4
24	345	16	168	20	208	20	17	90	26	47	47	73	34	G1/4
30	411	20	198	25	248	25	19	104	29.5	57	57	85	40	G3/8
36	473	22	230	25	280	30	21	126	35	69	69	95	50	G3/8
45	583	28	268	35	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α										
Ø A \ α	0	5	10	15	20	25	30	35	40	
05	21.5	15.6	13.3	11.6	10.2	8.9	7.8	6.7	5.7	
06	26.2	19.3	16.6	14.6	13	11.5	10.2	9	7.8	
08	28	20.8	18	15.9	14.1	12.6	11.2	9.9	8.6	
10	35.9	26.4	22.7	20	17.7	15.7	13.9	12.2	10.5	
12	42	31.2	27	23.9	21.3	19	16.9	15	13.1	
16	47.6	36.5	30.7	27.2	24.3	21.7	19.4	17.2	15.1	
20	51.9	39.5	34.6	31	28	25.4	23	20.8	18.6	
24	69.3	52	45.3	40.2	36	32.4	29	25.9	22.9	
30	80.7	61.1	53.4	47.7	43	38.8	35	31.5	28.1	
36	93.9	71	62.1	55.4	49.9	45	40.6	36.5	32.5	
45	112.5	85.3	74.7	66.8	60.3	54.6	49.3	44.4	39.7	

LOCKAMAX reserves the right to make technical changes without prior notice

Pneumatic toggle clamp  
 U - bolt style  
 Waterproof housing

# LOCKAMAX



\*: K = latch plate width

Pneumatic toggle clamp  
U - bolt style  
Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics				Dimensions			
Size Ø A	Clamping force F in daN	Pneumatic pressure in bar	Weight in kg	α mini	α maxi	E mini	E maxi
05	80	10	2	0	15	45	110
06	150	10	2.5	0	15	55	130
08	250	10	4	0	15	65	150
10	350	10	6.5	0	15	75	160
12	600	10	12	0	15	95	190
16	1000	10	18	0	15	115	250
20	1400	10	29	0	15	140	280

Dimensions										
Ø A	B	C	D	G	H	J	K	L	M	N
05	25.6	21.5	56.9	21	38	79	17	8	24	6
06	25.1	26.2	64.7	24	45	89	19	10	30	7.5
08	28.1	28	69.9	27	53	97	23	13	40	10
10	29.2	35.9	87.9	33	64	121	28	16	46	12.5
12	35.2	42	101.8	38	80	142	32	19	55	14.5
16	41.2	47.6	115.2	46	94	162	33	25	73	18.5
20	47.3	51.9	136.8	54	115	190	50	31	87	23

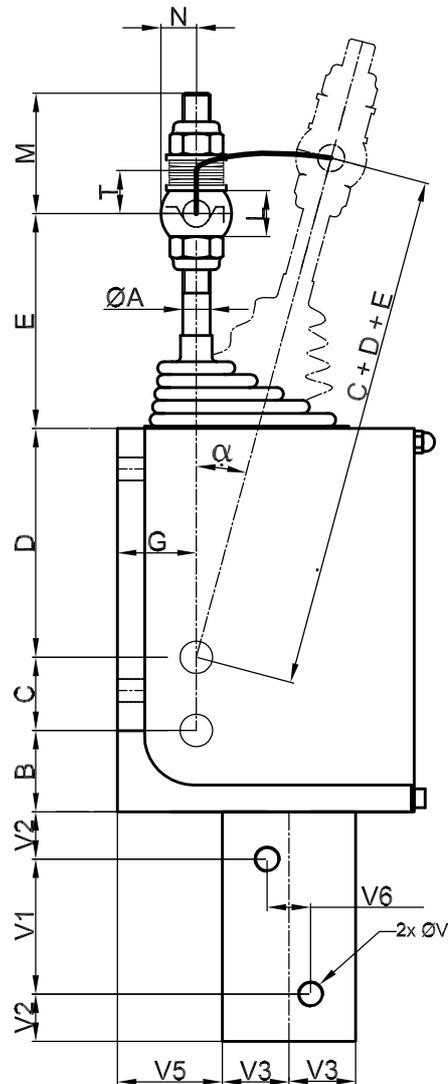
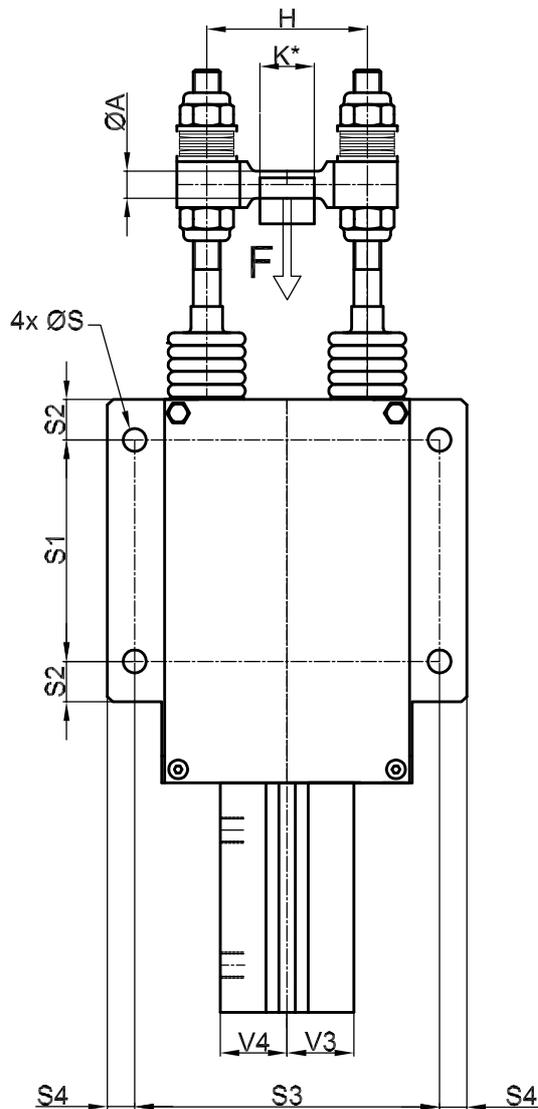
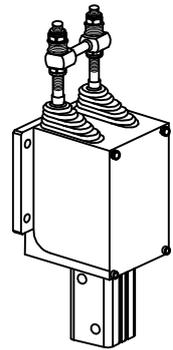
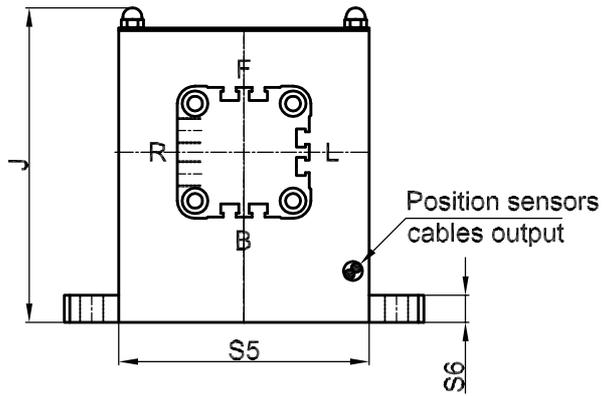
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	54.6	8.2	23.5	23.5	18.5	12	G1/8
06	80	8	91	7	73	7	5.5	58.6	8.2	27.25	27.25	19.75	16	G1/8
08	81	10	104	7	86	8	6.5	60.6	8.2	32.75	32.75	19.25	16	G1/8
10	97	15	122	10	100	10	8.5	72.6	8.2	37.75	37.75	25.25	23	G1/8
12	113	18	154	12	126	12	10.5	87.6	8.2	47.75	47.75	28.25	23	G1/8
16	120	22	181	15	146	15	13	99	10.5	56.75	56.75	30.25	40	G1/8
20	153	24	210	16	174	16	15	120	10.5	67.3	67.3	34.7	42.3	G1/4

### Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31

Hydraulic toggle clamp  
 U - bolt style, Lateral fixing  
 Waterproof housing

# LOCKAMAX



\*: K = latch plate width

Hydraulic toggle clamp  
U - bolt style, Lateral fixing  
Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm <sup>3</sup>		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	15	45	110
06	150	50	6	9.4	2.5	0	15	55	130
08	250	80	7	11	3.5	0	15	65	150
10	350	80	13.5	19.6	6	0	15	75	160
12	600	80	27.5	40.2	11	0	15	95	190
16	1000	80	52.6	75.4	18	0	15	115	250
20	1400	80	94.3	137.4	28	0	15	140	280
24	2700	80	167.9	249.4	48	0	15	160	350
30	4200	80	309.2	452.4	82	0	15	200	360
36	6000	80	539.1	785.4	129	0	15	235	390
45	10000	100	673.9	981.7	225	0	15	295	510

Dimensions										
Ø A	B	C	D	G	H	J	K	L	M	N
05	25.6	21.5	56.9	21	38	79	17	8	24	6
06	25.1	26.2	64.7	24	45	89	19	10	30	7.5
08	28.1	28	69.9	27	53	97	23	13	40	10
10	29.2	35.9	87.9	33	64	121	28	16	46	12.5
12	35.2	42	101.8	38	80	142	32	19	55	14.5
16	41.2	47.6	115.2	46	94	162	33	25	73	18.5
20	47.3	51.9	136.8	54	115	190	50	31	87	23
24	56.3	69.3	164.4	62	140	225	60	38	105	28
30	67.4	80.7	196.9	74	166	267	66	46	130	35
36	77.5	93.9	223.6	86	188	310	70	56	153	41.5
45	99.5	112.5	282	105	226	380	88	70	195	53

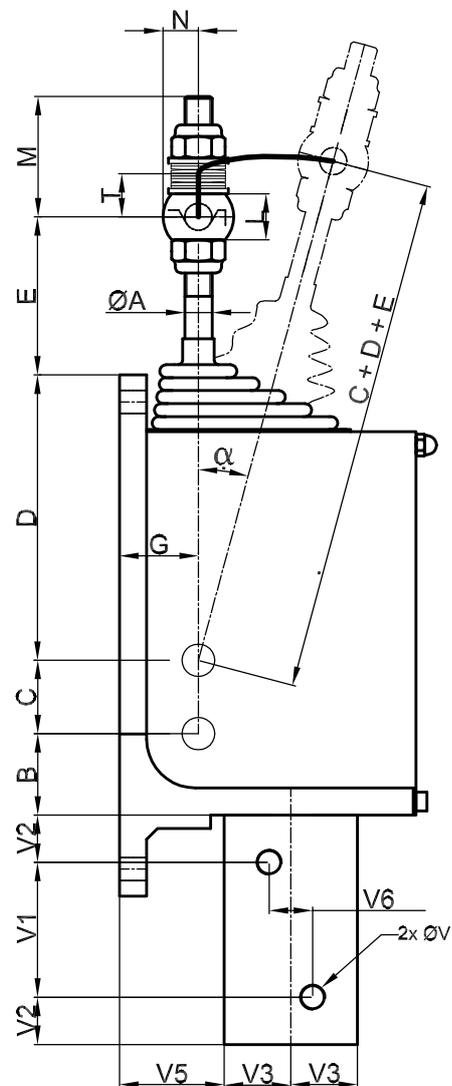
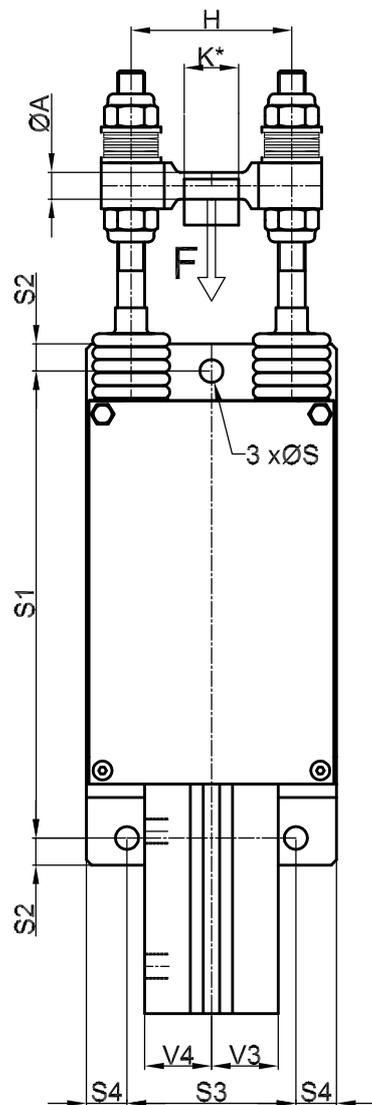
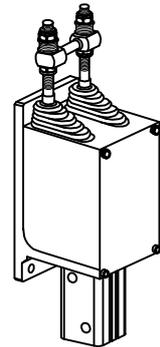
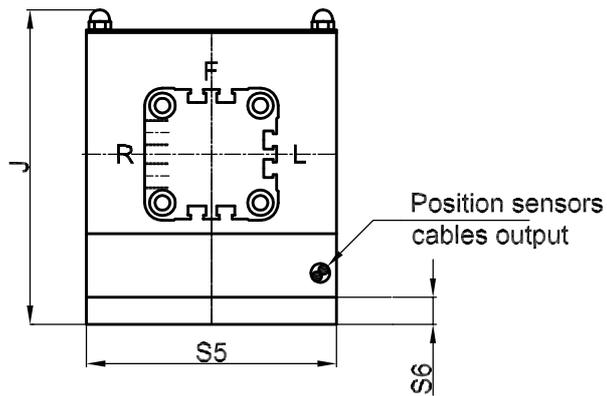
Dimensions														
	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	80	8	91	7	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	81	10	104	7	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	97	15	122	10	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	113	18	154	12	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	120	22	181	15	146	15	13	66	21	35	35	52	24	G1/4
20	153	24	210	16	174	16	15	75	22.5	40	40	62	28	G1/4
24	198	26	248	16	208	20	17	90	26	47	47	73	34	G1/4
30	234	28	294	20	248	25	19	104	29.5	57	57	85	40	G3/8
36	265	30	330	20	280	30	21	126	35	69	69	95	50	G3/8
45	334	35	398	25	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31
24	69.3	52	45.3	40.2
30	80.7	61.1	53.4	47.7
36	93.9	71	62.1	55.4
45	112.5	85.3	74.7	66.8

Hydraulic toggle clamp  
 U - bolt style, Longitudinal fixing  
 Waterproof housing

# LOCKAMAX



\*: K = latch plate width

Hydraulic toggle clamp  
U - bolt style, Longitudinal fixing  
Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm <sup>3</sup>		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	15	30	100
06	150	50	6	9.4	2.5	0	15	40	120
08	250	80	7	11	3.5	0	15	50	140
10	350	80	13.5	19.6	6	0	15	55	140
12	600	80	27.5	40.2	11	0	15	70	170
16	1000	80	52.6	75.4	18	0	15	85	220
20	1400	80	94.3	137.4	28	0	15	105	250
24	2700	80	167.9	249.4	48	0	15	125	320
30	4200	80	309.2	452.4	83	0	15	155	320
36	6000	80	539.1	785.4	131	0	15	185	340
45	10000	100	673.9	981.7	228	0	15	235	460

Dimensions										
Ø A	B	C	D	G	H	J	K	L	M	N
05	25.6	21.5	71.9	21	38	79	17	8	24	6
06	25.1	26.2	79.7	24	45	89	19	10	30	7.5
08	28.1	28	85.9	27	53	97	23	13	40	10
10	29.2	35.9	108.9	33	64	121	28	16	46	12.5
12	35.2	42	127.8	38	80	142	32	19	55	14.5
16	41.2	47.6	147.2	46	94	162	33	25	73	18.5
20	47.3	51.9	172.8	54	115	190	50	31	87	23
24	56.3	69.3	200.4	62	140	225	60	38	105	28
30	67.4	80.7	240.9	74	166	267	66	46	130	35
36	77.5	93.9	273.6	86	188	310	70	56	153	41.5
45	99.5	112.5	342	105	226	380	88	70	195	53

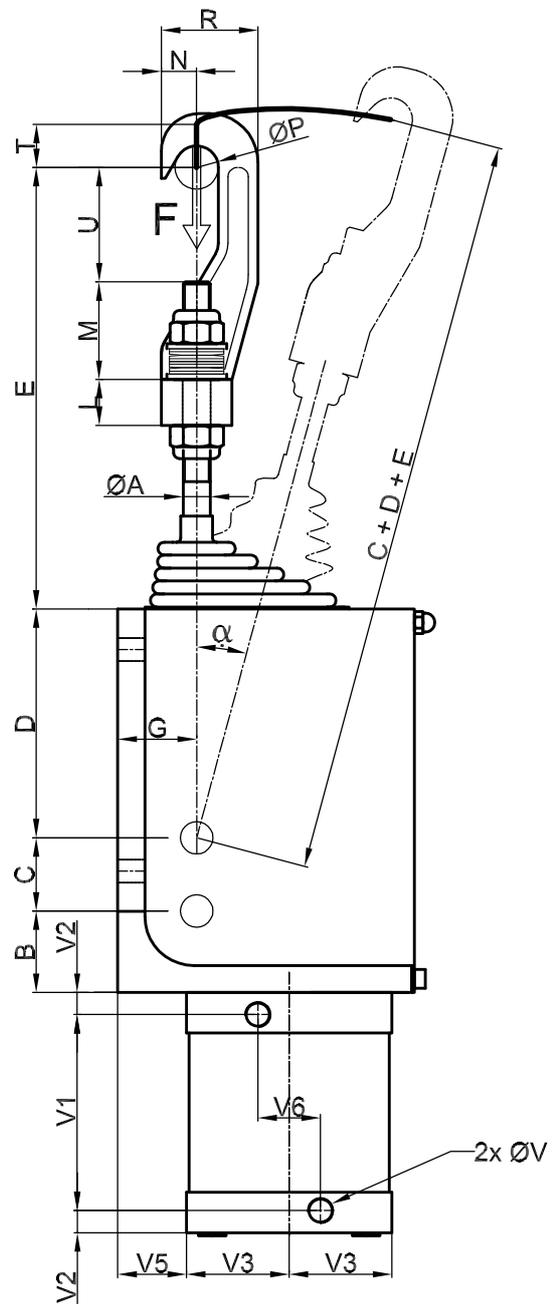
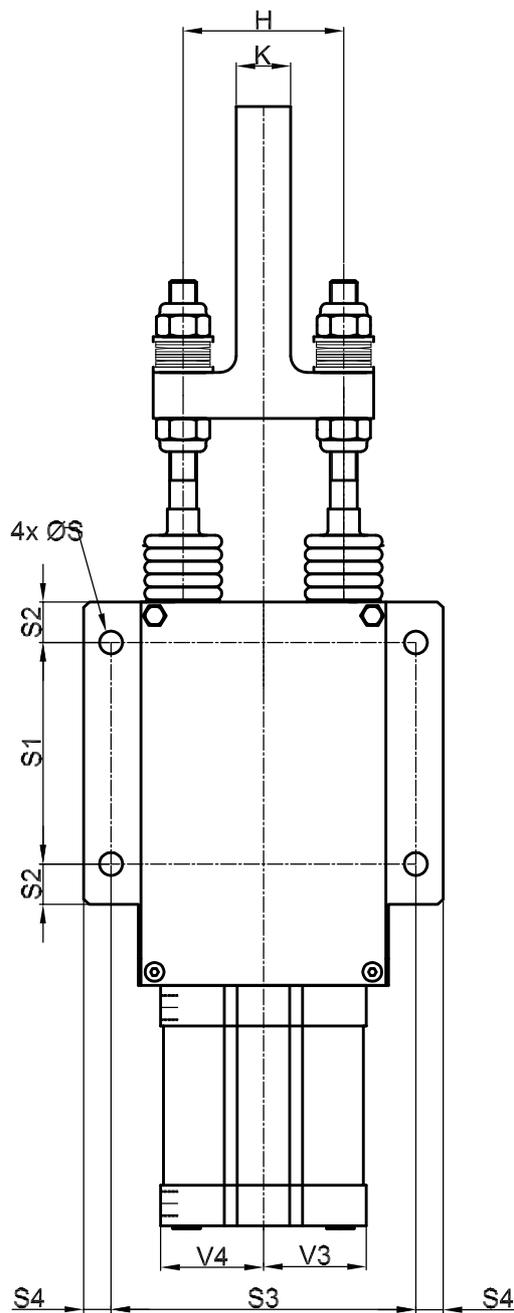
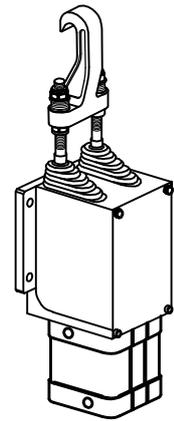
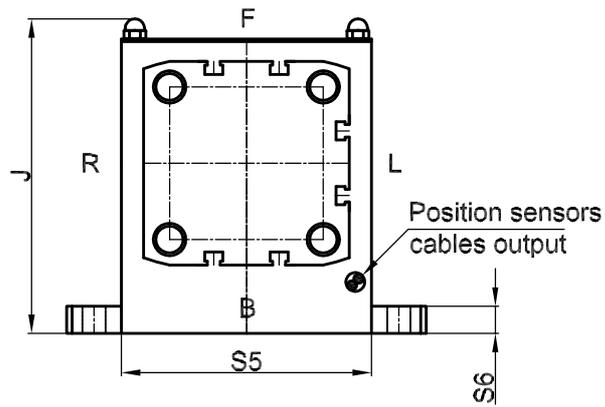
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	126	7	44	9	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	140	7	55	9	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	151	7	66	10	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	184	10	76	12	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	216	12	94	16	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	249	15	106	20	146	15	13	66	21	35	35	52	24	G1/4
20	290	16	134	20	174	16	15	75	22.5	40	40	62	28	G1/4
24	345	16	168	20	208	20	17	90	26	47	47	73	34	G1/4
30	411	20	198	25	248	25	19	104	29.5	57	57	85	40	G3/8
36	473	22	230	25	280	30	21	126	35	69	69	95	50	G3/8
45	583	28	268	35	338	35	25	156	35	69	69	138	50	G3/8

### Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31
24	69.3	52	45.3	40.2
30	80.7	61.1	53.4	47.7
36	93.9	71	62.1	55.4
45	112.5	85.3	74.7	66.8

Pneumatic toggle clamp  
 Hook style  
 Waterproof housing

# LOCKAMAX



Pneumatic toggle clamp  
Hook style  
Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics				Dimensions			
Size Ø A	Clamping force F in daN	Pneumatic pressure in bar	Weight in kg	α mini	α maxi	E mini	E maxi
05	80	10	2	0	15	90	160
06	150	10	3	0	15	115	190
08	250	10	4	0	15	135	225
10	350	10	7	0	15	155	250
12	600	10	12	0	15	195	295
16	1000	10	20	0	15	240	380
20	1400	10	31	0	15	285	440

Dimensions													
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	R	U
05	25.6	21.5	56.9	21	38	79	12	8	20	6.5	8	19	23
06	25.1	26.2	64.7	24	45	89	16	10	25	8	10	24	26
08	28.1	28	69.9	27	53	97	17	13	32	9	10	26	30
10	29.2	35.9	87.9	33	64	121	21	16	38	11	12	32	33
12	35.2	42	101.8	38	80	142	28	19	46	13	16	41	44
16	41.2	47.6	115.2	46	94	162	30	25	60	18	20	53	52
20	47.3	51.9	136.8	54	115	190	32	31	72	21	24	63	59

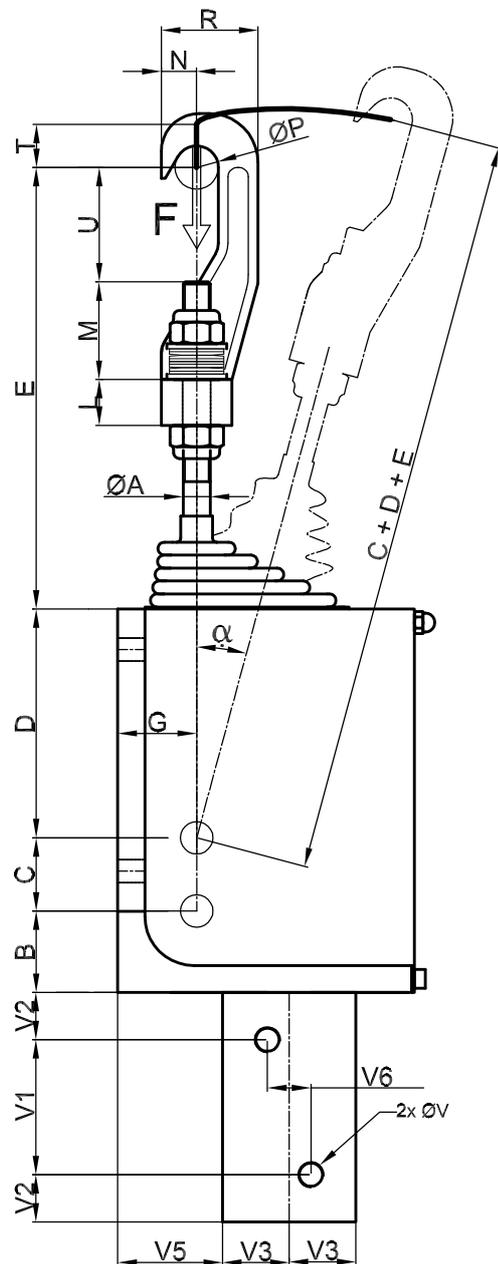
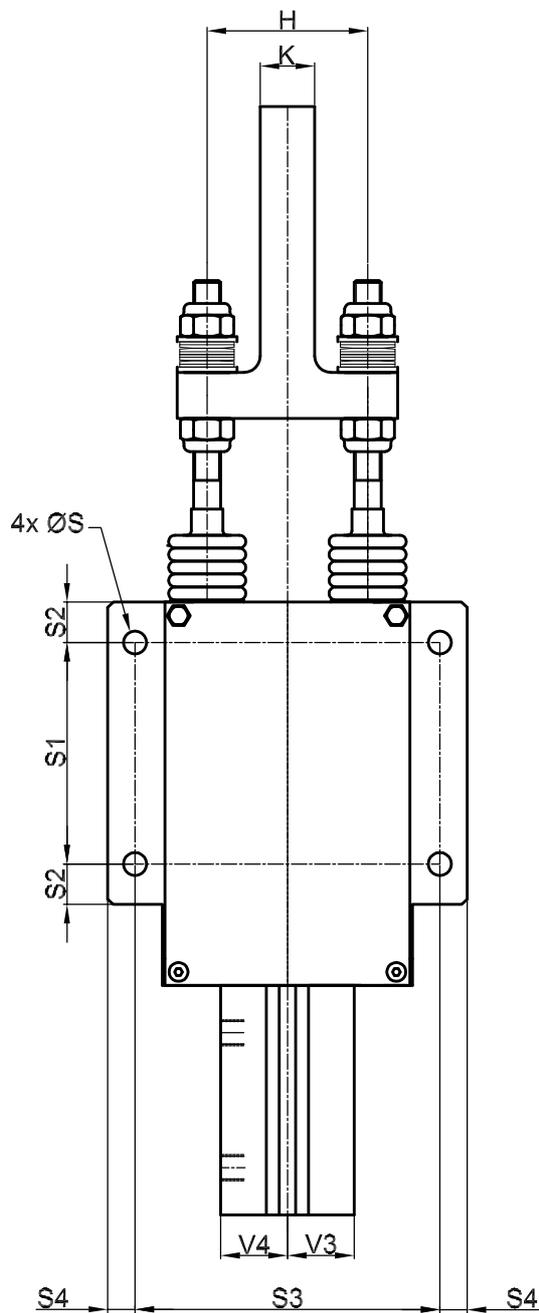
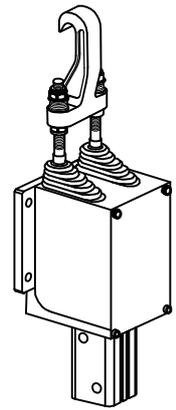
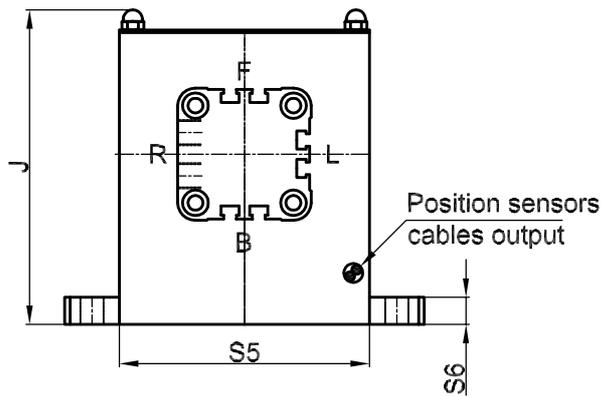
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	54.6	8.2	23.5	23.5	18.5	12	G1/8
06	80	8	91	7	73	7	5.5	58.6	8.2	27.25	27.25	19.75	16	G1/8
08	81	10	104	7	86	8	6.5	60.6	8.2	32.75	32.75	19.25	16	G1/8
10	97	15	122	10	100	10	8.5	72.6	8.2	37.75	37.75	25.25	23	G1/8
12	113	18	154	12	126	12	10.5	87.6	8.2	47.75	47.75	28.25	23	G1/8
16	120	22	181	15	146	15	13	99	10.5	56.75	56.75	30.25	40	G1/8
20	153	24	210	16	174	16	15	120	10.5	67.3	67.3	34.7	42.3	G1/4

Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31

Hydraulic toggle clamp  
 Hook style, Lateral fixing  
 Waterproof housing

# LOCKAMAX



Hydraulic toggle clamp  
Hook style, Lateral fixing  
Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm <sup>3</sup>		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	15	90	160
06	150	50	6	9.4	3	0	15	115	190
08	250	80	7	11	4	0	15	135	225
10	350	80	13.5	19.6	6.5	0	15	155	250
12	600	80	27.5	40.2	11.5	0	15	195	295
16	1000	80	52.6	75.4	19	0	15	240	380
20	1400	80	94.3	137.4	30	0	15	285	440
24	2700	80	167.9	249.4	52	0	15	340	540
30	4200	80	309.2	452.4	89	0	15	415	600
36	6000	80	539.1	785.4	139	0	15	485	665
45	10000	100	673.9	981.7	244	0	15	615	860

Dimensions													
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	R	U
05	25.6	21.5	56.9	21	38	79	12	8	20	6.5	8	19	23
06	25.1	26.2	64.7	24	45	89	16	10	25	8	10	24	26
08	28.1	28	69.9	27	53	97	17	13	32	9	10	26	30
10	29.2	35.9	87.9	33	64	121	21	16	38	11	12	32	33
12	35.2	42	101.8	38	80	142	28	19	46	13	16	41	44
16	41.2	47.6	115.2	46	94	162	30	25	60	18	20	53	52
20	47.3	51.9	136.8	54	115	190	32	31	72	21	24	63	59
24	56.3	69.3	164.4	62	140	225	38	38	87	25	28	73	74
30	67.4	80.7	196.9	74	166	267	54	46	106	31	34	90	83
36	77.5	93.9	223.6	86	188	310	67	56	125	36	40	102	94
45	99.5	112.5	282	105	226	380	72	70	160	45	50	130	122

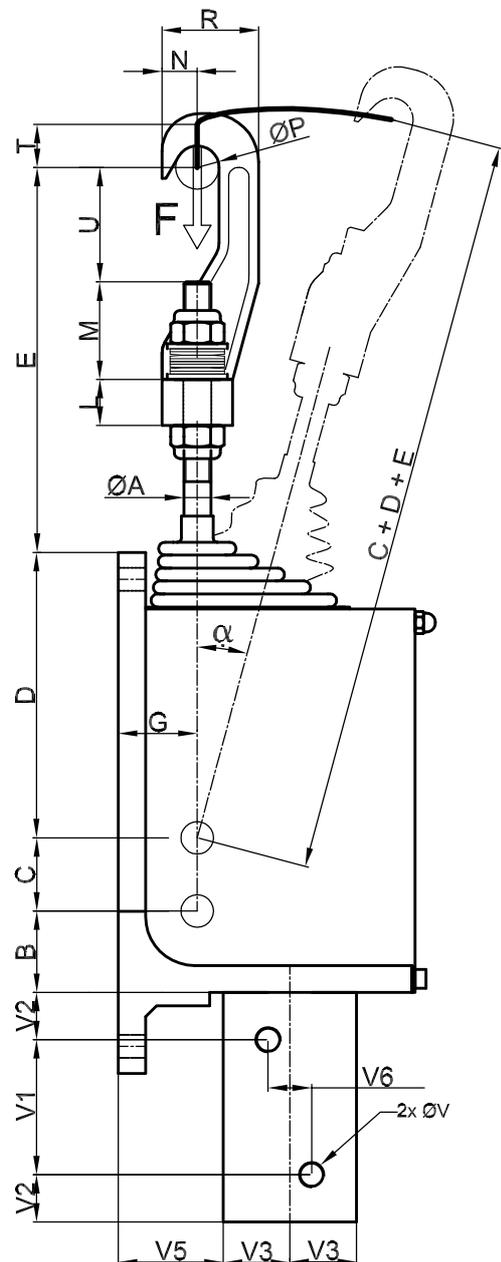
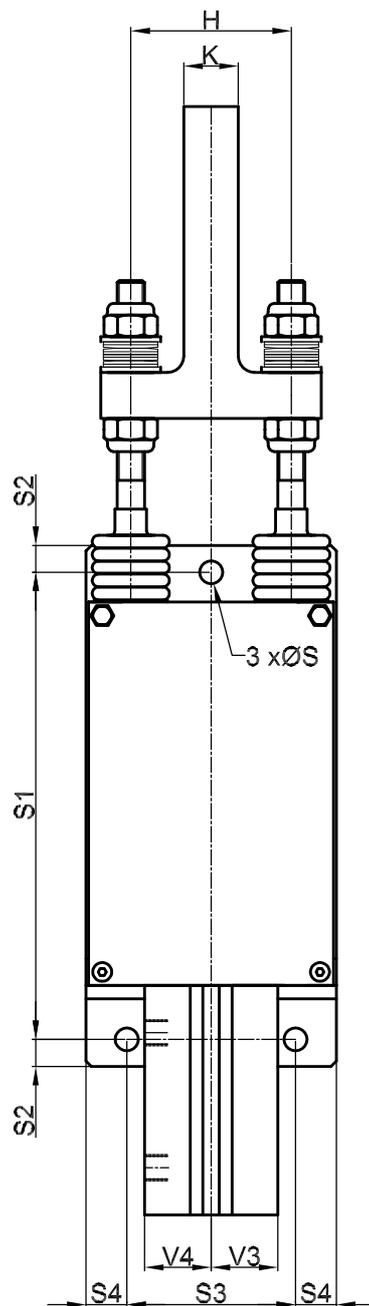
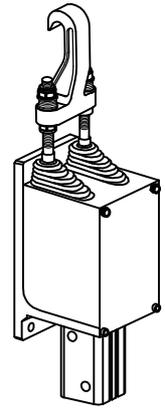
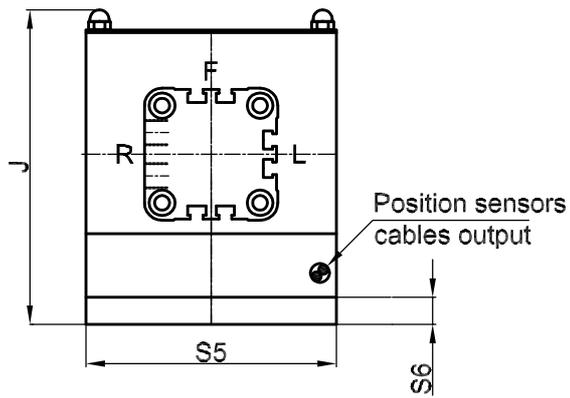
Dimensions														
	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	80	8	91	7	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	81	10	104	7	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	97	15	122	10	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	113	18	154	12	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	120	22	181	15	146	15	13	66	21	35	35	52	24	G1/4
20	153	24	210	16	174	16	15	75	22.5	40	40	62	28	G1/4
24	198	26	248	16	208	20	17	90	26	47	47	73	34	G1/4
30	234	28	294	20	248	25	19	104	29.5	57	57	85	40	G3/8
36	265	30	330	20	280	30	21	126	35	69	69	95	50	G3/8
45	334	35	398	25	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31
24	69.3	52	45.3	40.2
30	80.7	61.1	53.4	47.7
36	93.9	71	62.1	55.4
45	112.5	85.3	74.7	66.8

Hydraulic toggle clamp  
 Hook style, Longitudinal fixing  
 Waterproof housing

# LOCKAMAX



Hydraulic toggle clamp  
Hook style, Longitudinal fixing  
Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm3		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	15	75	150
06	150	50	6	9.4	3	0	15	100	180
08	250	80	7	11	4	0	15	120	210
10	350	80	13.5	19.6	6.5	0	15	135	230
12	600	80	27.5	40.2	11.5	0	15	165	270
16	1000	80	52.6	75.4	19	0	15	210	350
20	1400	80	94.3	137.4	30	0	15	250	410
24	2700	80	167.9	249.4	52	0	15	305	510
30	4200	80	309.2	452.4	90	0	15	370	560
36	6000	80	539.1	785.4	141	0	15	435	620
45	10000	100	673.9	981.7	246	0	15	555	810

Dimensions													
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	R	U
05	25.6	21.5	71.9	21	38	79	12	8	20	6.5	8	19	23
06	25.1	26.2	79.7	24	45	89	16	10	25	8	10	24	26
08	28.1	28	85.9	27	53	97	17	13	32	9	10	26	30
10	29.2	35.9	108.9	33	64	121	21	16	38	11	12	32	33
12	35.2	42	127.8	38	80	142	28	19	46	13	16	41	44
16	41.2	47.6	147.2	46	94	162	30	25	60	18	20	53	52
20	47.3	51.9	172.8	54	115	190	32	31	72	21	24	63	59
24	56.3	69.3	200.4	62	140	225	38	38	87	25	28	73	74
30	67.4	80.7	240.9	74	166	267	54	46	106	31	34	90	83
36	77.5	93.9	273.6	86	188	310	67	56	125	36	40	102	94
45	99.5	112.5	342	105	226	380	72	70	160	45	50	130	122

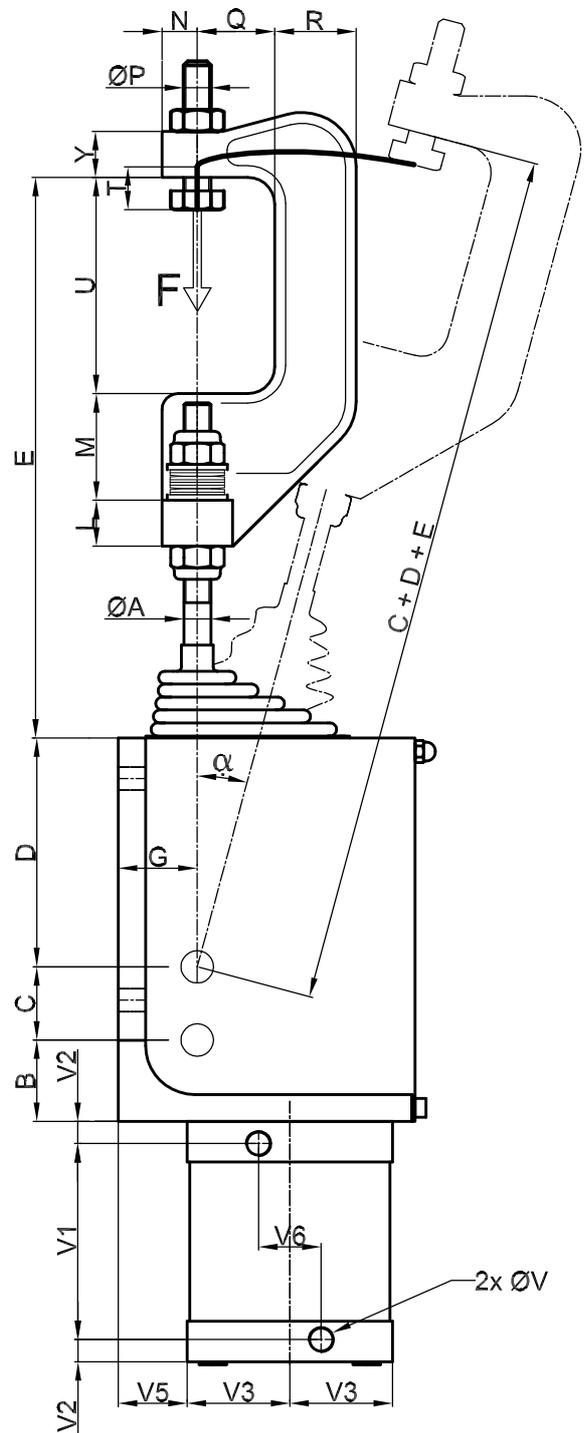
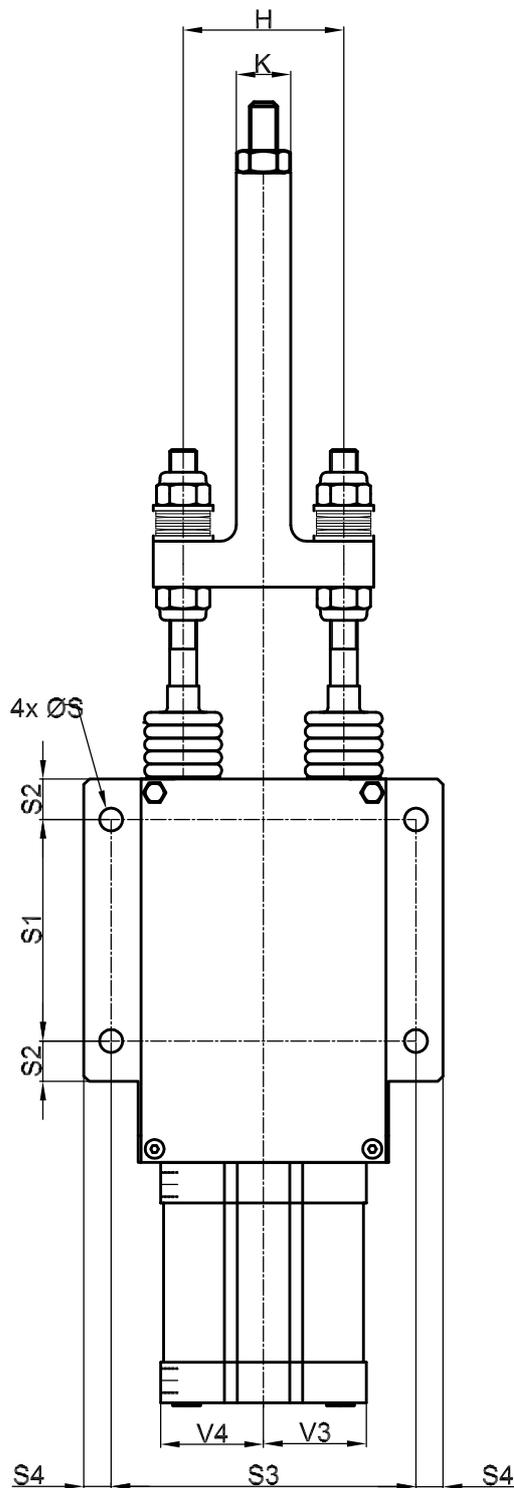
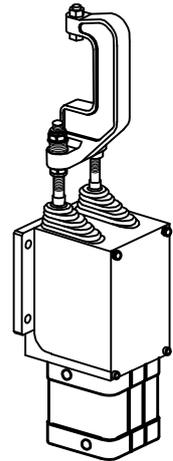
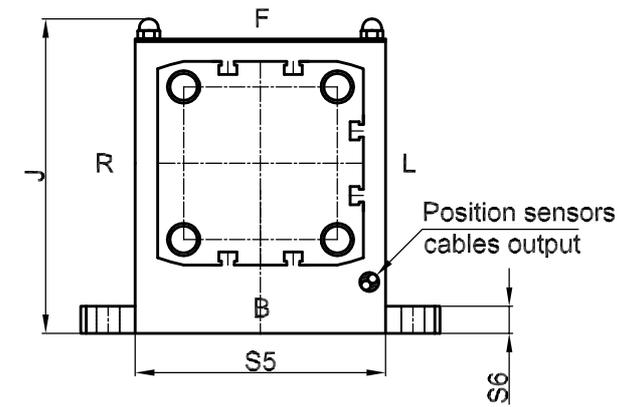
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	126	7	44	9	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	140	7	55	9	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	151	7	66	10	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	184	10	76	12	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	216	12	94	16	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	249	15	106	20	146	15	13	66	21	35	35	52	24	G1/4
20	290	16	134	20	174	16	15	75	22.5	40	40	62	28	G1/4
24	345	16	168	20	208	20	17	90	26	47	47	73	34	G1/4
30	411	20	198	25	248	25	19	104	29.5	57	57	85	40	G3/8
36	473	22	230	25	280	30	21	126	35	69	69	95	50	G3/8
45	583	28	268	35	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31
24	69.3	52	45.3	40.2
30	80.7	61.1	53.4	47.7
36	93.9	71	62.1	55.4
45	112.5	85.3	74.7	66.8

Pneumatic toggle clamp  
 Pressure screw  
 Waterproof housing

# LOCKAMAX



Pneumatic toggle clamp  
 Pressure screw  
 Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics				Dimensions			
Size Ø A	Clamping force F in daN	Pneumatic pressure in bar	Weight in kg	α mini	α maxi	E mini	E maxi
05	80	10	2	0	15	110	180
06	150	10	3	0	15	130	210
08	250	10	4	0	15	170	250
10	350	10	7	0	15	205	290
12	600	10	13	0	15	250	350
16	1000	10	21	0	15	320	460
20	1400	10	33	0	15	390	530

Dimensions															
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	Q	R	U	Y
05	25.6	21.5	56.9	21	38	79	12	8	21	6	M5	14.5	15	40	8.5
06	25.1	26.2	64.7	24	45	89	16	10	26	8	M6	17	18	48	11
08	28.1	28	69.9	27	53	97	17	13	34	8.5	M8	22.5	24	64	14
10	29.2	35.9	87.9	33	64	121	21	16	41	10.5	M8	28.5	30	80	17
12	35.2	42	101.8	38	80	142	28	19	49	14	M10	35	36	96	21
16	41.2	47.6	115.2	46	94	162	30	25	63	15	M12	45	48	128	28
20	47.3	51.9	136.8	54	115	190	32	31	76	16	M16	57	60	160	32

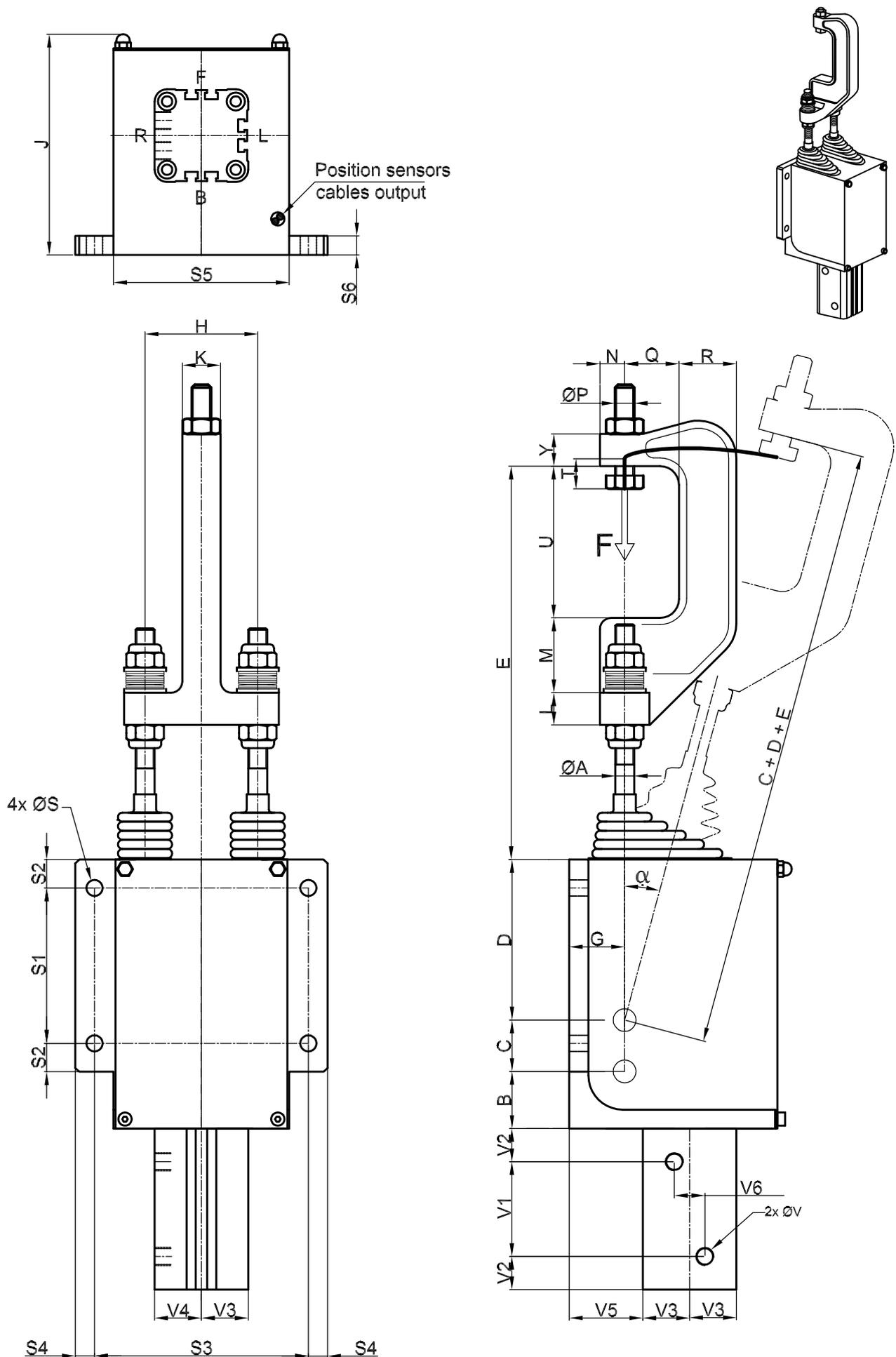
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	54.6	8.2	23.5	23.5	18.5	12	G1/8
06	80	8	91	6	73	7	5.5	58.6	8.2	27.25	27.25	19.75	16	G1/8
08	81	10	104	7	86	8	6.5	60.6	8.2	32.75	32.75	19.25	16	G1/8
10	93	15	122	10	100	10	8.5	72.6	8.2	37.75	37.75	25.25	23	G1/8
12	113	18	154	12	126	12	10.5	87.6	8.2	47.75	47.75	28.25	23	G1/8
16	120	22	181	15	146	15	13	99	10.5	56.75	56.75	30.25	40	G1/8
20	153	24	210	16	174	16	15	120	10.5	67.3	67.3	34.7	42.3	G1/4

Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31

Hydraulic toggle clamp  
 Pressure screw. Lateral fixing  
 Waterproof housing

# LOCKAMAX



Hydraulic toggle clamp  
Pressure screw. Lateral fixing  
Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm <sup>3</sup>		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	15	110	180
06	150	50	6	9.4	3	0	15	130	210
08	250	80	7	11	4	0	15	170	250
10	350	80	13.5	19.6	7	0	15	205	290
12	600	80	27.5	40.2	12	0	15	250	350
16	1000	80	52.6	75.4	20	0	15	320	460
20	1400	80	94.3	137.4	32	0	15	390	530
24	2700	80	167.9	249.4	55	0	15	460	650
30	4200	80	309.2	452.4	98	0	15	585	740
36	6000	80	539.1	785.4	156	0	15	690	850
45	10000	100	673.9	981.7	269	0	15	870	1080

Dimensions															
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	Q	R	U	Y
05	25.6	21.5	56.9	21	38	79	12	8	21	6	M5	14.5	15	40	8.5
06	25.1	26.2	64.7	24	45	89	16	10	26	8	M6	17	18	48	11
08	28.1	28	69.9	27	53	97	17	13	34	8.5	M8	22.5	24	64	14
10	29.2	35.9	87.9	33	64	121	21	16	41	10.5	M8	28.5	30	80	17
12	35.2	42	101.8	38	80	142	28	19	49	14	M10	35	36	96	21
16	41.2	47.6	115.2	46	94	162	30	25	63	15	M12	45	48	128	28
20	47.3	51.9	136.8	54	115	190	32	31	76	16	M16	57	60	160	32
24	56.3	69.3	164.4	62	140	225	38	38	90	19	M20	68	72	190	38
30	67.4	80.7	196.9	74	166	267	54	47	120	27	M24	90	90	240	50
36	77.4	93.9	223.7	86	188	310	67	56	138	33.5	M30	108	108	290	60
45	99.6	112.5	281.9	105	226	380	72	70	175	36	M36	134	135	360	76

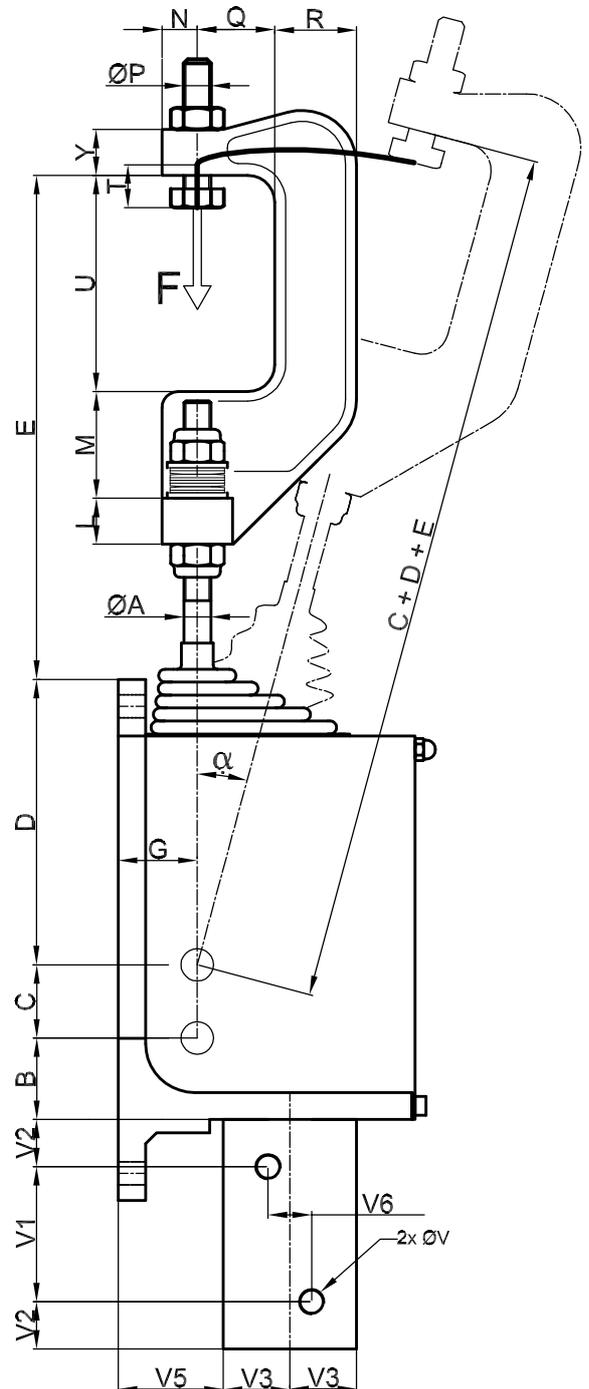
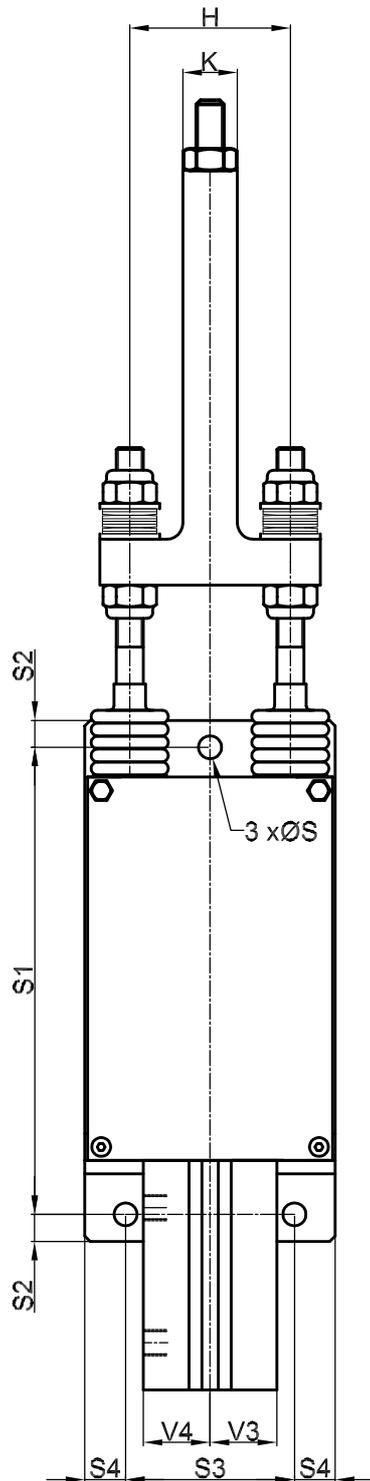
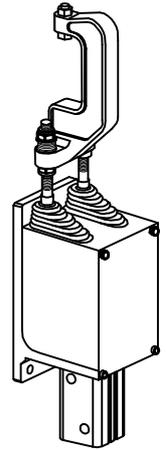
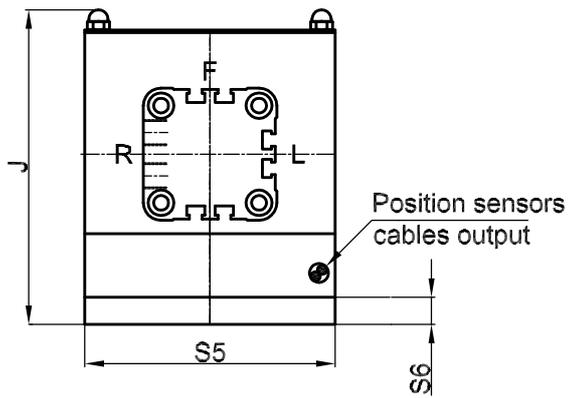
Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	71	8	77	6	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	80	8	91	6	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	81	10	104	7	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	93	15	122	10	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	113	18	154	12	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	120	22	181	15	146	15	13	66	21	35	35	52	24	G1/4
20	153	24	210	16	174	16	15	75	22.5	40	40	62	28	G1/4
24	198	26	248	16	208	20	17	90	26	47	47	73	34	G1/4
30	234	28	294	20	248	25	20	104	29.5	57	57	85	40	G3/8
36	265	30	330	20	280	30	21	126	35	69	69	95	50	G3/8
45	334	35	398	25	338	35	25	156	35	69	69	138	50	G3/8

Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31
24	69.3	52	45.3	40.2
30	80.7	61.1	53.4	47.7
36	93.9	71	62.1	55.4
45	112.5	85.3	74.7	66.8

Hydraulic toggle clamp  
 Pressure screw, Longitudinal fixing  
 Waterproof housing

# LOCKAMAX



Hydraulic toggle clamp

Pressure screw, Longitudinal fixing

Waterproof housing

# LOCKAMAX

In the tables below, the dimensions are in millimeters, the angles in degrees

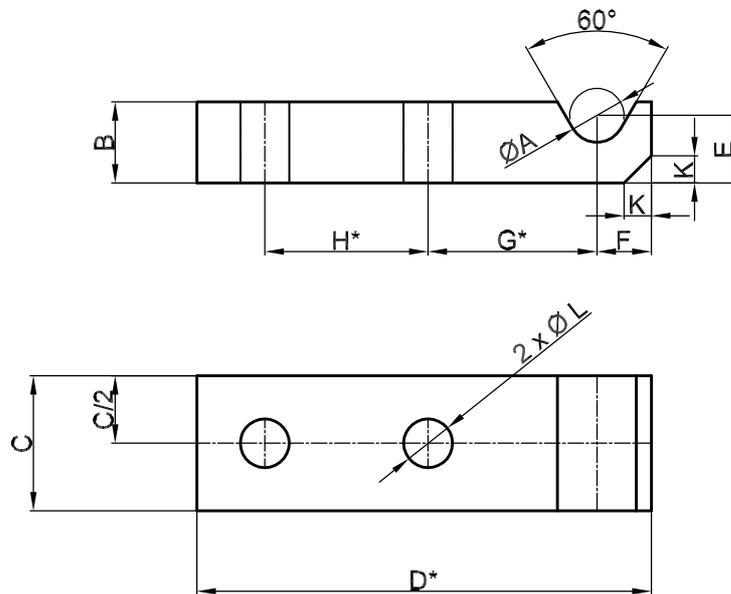
Characteristics						Dimensions			
Size Ø A	Clamping force F in daN	Hydr. pressure mini in bar	Cylinder capacity in cm <sup>3</sup>		Weight in kg	α mini	α maxi	E mini	E maxi
			pulling	pushing					
05	80	30	5	7.8	2	0	15	95	160
06	150	50	6	9.4	3	0	15	120	200
08	250	80	7	11	4	0	15	155	240
10	350	80	13.5	19.6	7	0	15	185	270
12	600	80	27.5	40.2	12	0	15	225	320
16	1000	80	52.6	75.4	20	0	15	290	420
20	1400	80	94.3	137.4	33	0	15	355	500
24	2700	80	167.9	249.4	56	0	15	425	610
30	4200	80	309.2	452.4	99	0	15	540	700
36	6000	80	539.1	785.4	158	0	15	645	800
45	10000	100	673.9	981.7	271	0	15	810	1020

Dimensions															
Ø A	B	C	D	G	H	J	K	L	M	N	ØP	Q	R	U	Y
05	25.6	21.5	56.9	21	38	79	12	8	21	6	M5	14.5	15	40	8.5
06	25.1	26.2	64.7	24	45	89	16	10	26	8	M6	17	18	48	11
08	28.1	28	69.9	27	53	97	17	13	34	8.5	M8	22.5	24	64	14
10	29.2	35.9	87.9	33	64	121	21	16	41	10.5	M8	28.5	30	80	17
12	35.2	42	101.8	38	80	142	28	19	49	14	M10	35	36	96	21
16	41.2	47.6	115.2	46	94	162	30	25	63	15	M12	45	48	128	28
20	47.3	51.9	136.8	54	115	190	32	31	76	16	M16	57	60	160	32
24	56.3	69.3	164.4	62	140	225	38	38	90	19	M20	68	72	190	38
30	67.4	80.7	196.9	74	166	267	54	47	120	27	M24	90	90	240	50
36	77.4	93.9	223.7	86	188	310	67	56	138	33.5	M30	108	108	290	60
45	99.6	112.5	281.9	105	226	380	72	70	175	36	M36	134	135	360	76

Dimensions														
Ø A	S1	S2	S3	S4	S5	S6	ØS	V1	V2	V3	V4	V5	V6	ØV BSP
05	126	7	44	9	62	6	5.5	37	16.5	21.5	23.5	20.5	12	G1/8
06	140	7	55	9	73	7	5.5	40	16.5	21.5	23.5	25.5	12	G1/8
08	151	7	66	10	86	8	6.5	42	16.5	21.5	23.5	30.5	12	G1/8
10	184	10	76	12	100	10	8.5	50	17.5	24.5	24.5	39.5	16	G1/8
12	216	12	94	16	126	12	10.5	60	20.5	31	31	45	22	G1/4
16	249	15	106	20	146	15	13	66	21	35	35	52	24	G1/4
20	290	16	134	20	174	16	15	75	22.5	40	40	62	28	G1/4
24	345	16	168	20	208	20	17	90	26	47	47	73	34	G1/4
30	411	20	198	25	248	25	20	104	29.5	57	57	85	40	G3/8
36	473	22	230	25	280	30	21	126	35	69	69	95	50	G3/8
45	583	28	268	35	338	35	25	156	35	69	69	138	50	G3/8

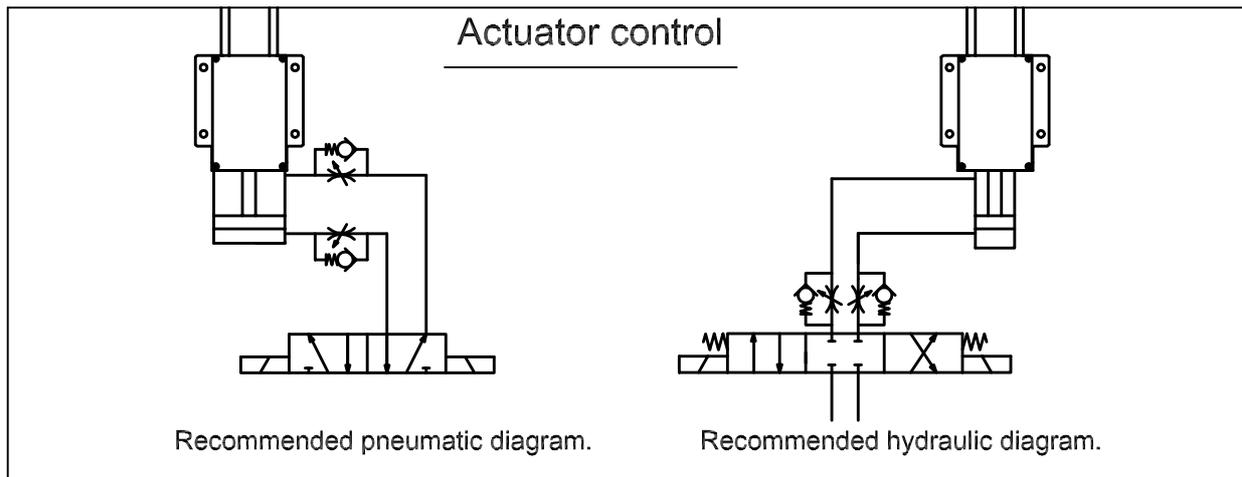
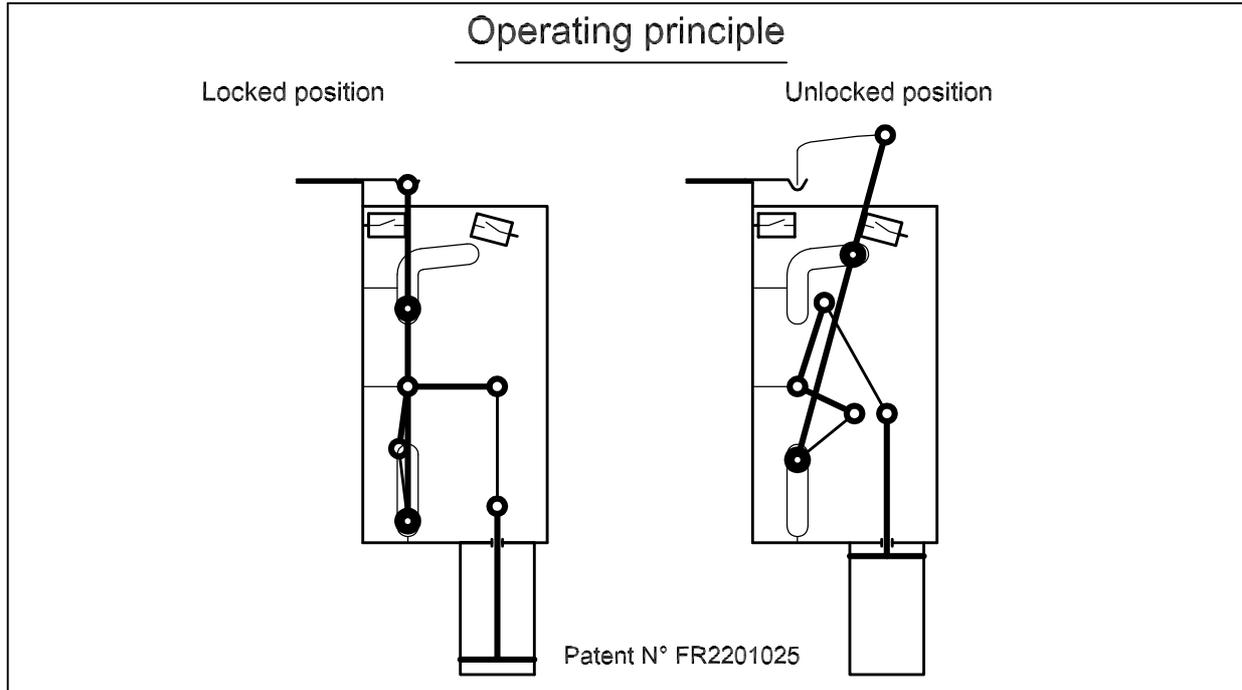
### Value of straight stroke T as a function of α

Ø A \ α	0	5	10	15
05	21.5	15.6	13.3	11.6
06	26.2	19.3	16.6	14.6
08	28	20.8	18	15.9
10	35.9	26.4	22.7	20
12	42	31.2	27	23.9
16	47.6	36.5	30.7	27.2
20	51.9	39.5	34.6	31
24	69.3	52	45.3	40.2
30	80.7	61.1	53.4	47.7
36	93.9	71	62.1	55.4
45	112.5	85.3	74.7	66.8



\*: Other dimensions on request

Latch plates dimensions									
Ø A	B	C	D	E	F	G	H	K	Ø L
05	9	17	53	7.5	5	18	20	3	5.3
06	10	19	56	8.5	6	20	20	3.5	5.3
08	13	23	68	11	8	24	24	5	6.3
10	15	28	83	12.5	10	28	30	5	8.4
12	18	32	100	15	12	34	36	6	10.5
16	23	33	118	19	16	42	40	8	12.5
20	28	50	140	23	20	53	45	9	14.5
24	33	60	162	27	24	63	50	11	16.5
30	40	66	186	33	30	73	55	12	19
36	47	70	208	38	36	82	60	16	21
45	60	88	250	50	45	100	70	20	25



Characteristics of position sensors:

Type: Inductive proximity sensor DC 3 fils.  
 Operating voltage: 10 to 30 VDC.  
 Output state: NO.  
 Logic output: NPN.  
 Cable length: 2 m

