

CTLA

CTLA HIGH PRESSURE HYDRAULIC SWING CLAMP



CTLA-0402CR

CTLA	Series	CTLA	
0402	Body size	0402: $\varnothing D=28.5\text{mm}$	1002: $\varnothing D=43\text{mm}$
		0602: $\varnothing D=33\text{mm}$	1602: $\varnothing D=46\text{mm}$
		0802: $\varnothing D=36\text{mm}$	2502: $\varnothing D=63\text{mm}$
			4002: $\varnothing D=90\text{mm}$
C	Piping Method	B: G Thread Piping Option(No Gasket Port) C: Gasket Option(With G Thread Plug)	
R	Swing direction when Clamping	R: Turn right L: Turn left	

Note: Speed control valve(CZT) is sold separately.

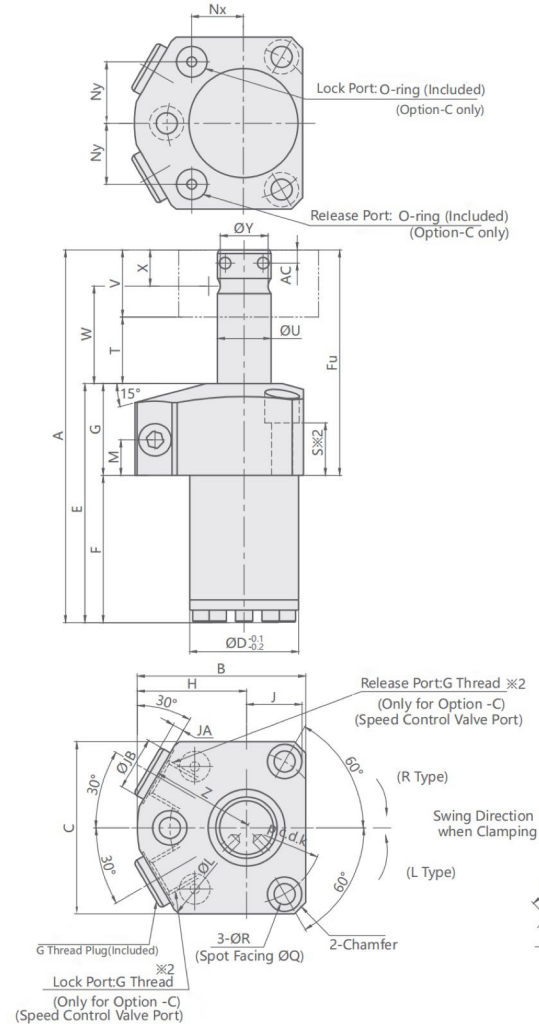
SPECIFICATIONS

MODEL	CLAMPING FORCE(350kgf/cm ² (kgf))	CLAMPING STROKE(mm)	EXTRA STROKE(mm)	TOTAL STROKE(mm)	CYLINDER CAPACITY UNCLAMP(cm ³)	CYLINDER CAPACITY CLAMP(cm ³)	EFF.PISTON AREA UNCLAMP(cm ²)	EFF.PISTON AREA CLAMP(cm ²)	RANGE OF TEMPERATURE(°C)
CTLA-0402	350	8	6	14	3.6	1.4	2.545	1.005	0~+70°C
CTLA-0602	508	8	7	15	5.2	2.2	3.463	1.453	0~+70°C
CTLA-0802	690	10	8	18	8.1	3.6	4.524	1.979	0~+70°C
CTLA-1002	980	10	9.5	19.5	12.9	5.5	6.605	2.804	0~+70°C
CTLA-1602	1459	13	11	24	21.8	10	9.079	4.17	0~+70°C
CTLA-2502	2869	16	16	32	57.9	26.2	18.096	8.198	0~+70°C
CTLA-4002	4329	16	19.5	35.5	100.4	43.9	28.274	12.37	0~+70°C

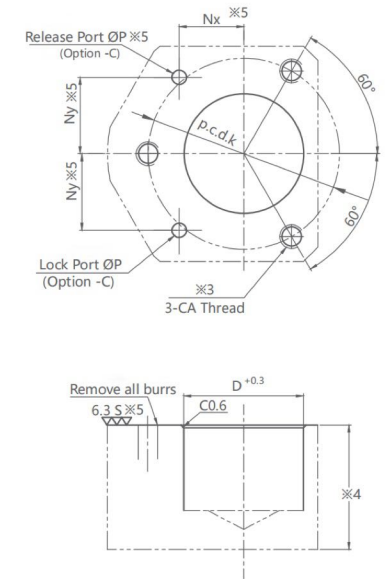
External Dimensions

C: Gasket Option(With G Thread Plug)

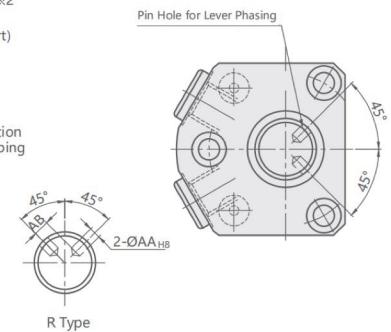
※The drawing shows the released state of CTLA-2CL.



Machining Dimensions of Mounting Area



Lock State



NOTE

- ※1. Mounting bolts are not provided. Please prepare them according to the mounting height referring to dimension "S".
- ※2. Speed control valve is sold separately.
- ※3. CA tapping depth of the mounting bolt should be decided according to the mounting height referring to dimension "S".
- ※4. The depth of the body mounting hole $\varnothing D$ should be decided according to the mounting height referring to dimension "F".
- ※5. The machining dimension is for -C: Gasket option.

Unit:mm

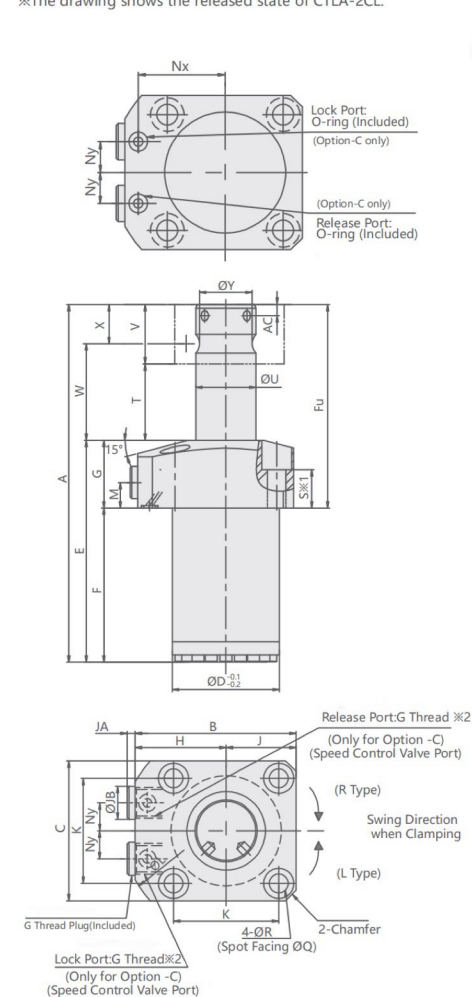
MODEL NO	CTLA-0402□□	CTLA-0602□□	CTLA-0802□□	CTLA-1002□□	CTLA-1602□□
Full Stroke	14	15	18	19.5	24
Swing Stroke	6	7	8	9.5	11
Lock Stroke	8	8	10	10	13
A	97.5	105	119	134.5	159.5
B	44	48	50.5	59.5	62
C	45	52	54	65	68
D	28.5	33	36	43	46
E	62.5	66	74	83	99.5
F	38.5	41	49	55	69.5
Fu	59	64	70	79.5	90
G	24	25	25	28	30
H	28.5	30	31.5	36.5	38
J	15.5	18	19	23	24
K	40	45	48	57	60
L	57	60	63	73	76
M	10	10	10	10	10
Nx	13.5	15	16	18	20
Ny	16	17.5	18.5	22	22
P	3	3	3	3	3
Q	9	11	11	14	14
R	5.5	6.8	6.8	9	9
S	14.5	14	14	14.5	16
T	16	17	20	21.5	26
U	14	16	18	22	25
V	19	22	25	30	34
W	25.5	28	32.5	36.5	43
X	9.5	11	12.5	15	17
Y	12.5	14	16	19.5	22
Z	27	28.5	30	33	35
AA	3 ^{+0.014} ₀	4 ^{+0.018} ₀	4 ^{+0.018} ₀	4 ^{+0.018} ₀	4 ^{+0.018} ₀
AB	4	4	5	7	8.5
AC	3.5	4.5	4.5	4.5	5
CA(Nominal X Pitch)	M5×0.8	M6×1	M6×1	M8×1.25	M8×1.25
JA	3	3	3	3	3
JB	14	14	14	14	14
Chamfer	3	(Φ60)	(Φ63)	(Φ73)	(Φ76)
G Thread	G1/8	G1/8	G1/8	G1/8	G1/8
O-ring(Option-C)	1BP5	1BP5	1BP5	1BP5	1BP5
(Lever Phasing Pin Included)	Φ3×6	Φ4×8	Φ4×8	Φ4×8	Φ4×8

External Dimensions

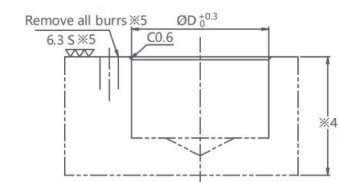
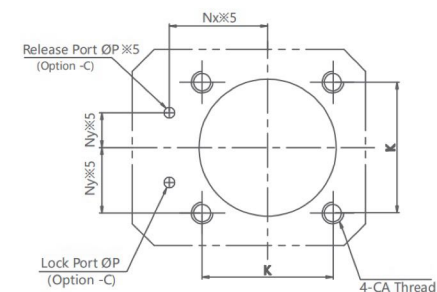
CTLA-2502/CTLA-4002

C: Gasket Option(With G Thread Plug)

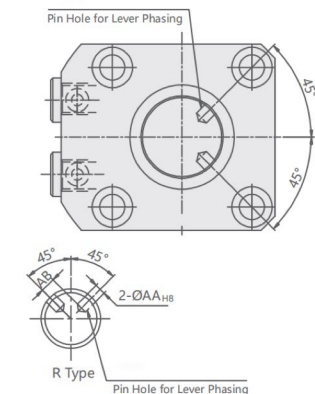
※The drawing shows the released state of CTLA-2CL.



Machining Dimensions of Mounting Area



Lock State



NOTE

- ※1.Mounting bolts are not provided . Please prepare them according to the mounting height referring to dimension"S".
- ※2.Speed control valve is sold separately.
- ※3.CA tapping depth of the mounting bolt should be decided according to the mounting height referring to dimension"S".
- ※4.The depth of the body mounting hole ØD should be decided according to the mounting height referring to dimension"F".
- ※5.The machining dimension is for -C:Gasket option.

Unit:mm

MODEL NO	CTLA-2502□□	CTLA-4002□□
Full Stroke	32	35.5
Swing Stroke	16	19.5
Lock Stroke	16	16
A	211	241
B	92	114
C	80	102
D	63	90
E	131	148.5
F	91	98.5
Fu	120	142.5
G	40	50
H	52	63
J	40	51
K	60	80
L	118	146
M	15	17
Nx	45	56
Ny	16	21
P	5	5
Q	17.5	20
R	11	14
S	22.5	27.5
T	34	37.5
U	35.5	45
V	46	55
W	57	65
X	23	27.5
Y	31	39.5
AA	$6^{+0.018}_0$	$8^{+0.018}_0$
AB	11.75	14.5
AC	6.5	9
CA	M10	M12
JA	4.5	4.5
JB	19	19
Chamfer	C6	C6
G Thread	G1/4	G1/4
O-ring(Optional-C)	1BP7	1BP7
(Lever Phasing Pin Included)	Φ6×12	Φ8×16

