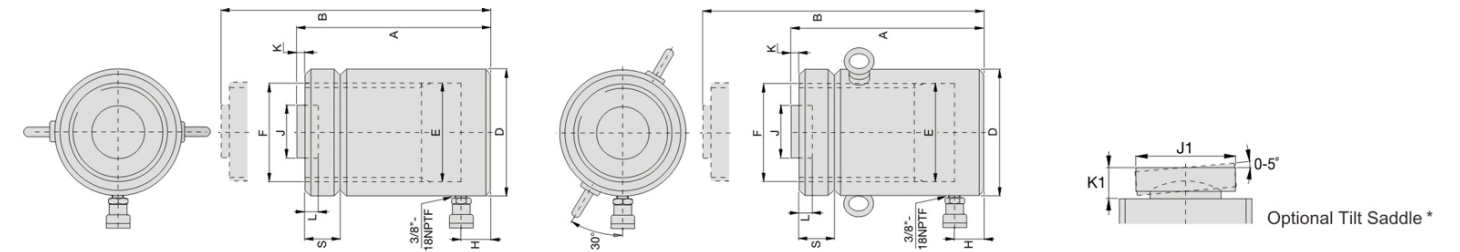


01 CYLINDERS



CLL SERIES (Locknut)



Model	Cylinder Capacity tons (kN)	Stroke		Cylinder Effective Area		Oil Capacity		A Collapsed Height		B Extended Height		D Outside Diameter		E Cylinder Bore Diameter		F Plunger Dia. (threaded)		H Base to Adv. Port		J Standard Saddle Dia.		K Saddle Protrusion from Plunger		L Depth of Plunger Hole		S Lock-nut Height		Weight	
		mm	inch	cm ²	inch ²	cm ³	inch ³	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs
CLL-502	50 (496)	50	1.97	70.9	10.99	355	21.66	164	6.46	214	8.43	125	4.92	95.0	3.74	Tr 95 x 4	30	1.18	71	2.80	2	0.08	13	0.51	36	1.42	15	33.1	
CLL-504		100	3.94	70.9	10.99	709	43.27	214	8.43	314	12.36	125	4.92	95.0	3.74	Tr 95 x 4	30	1.18	71	2.80	2	0.08	13	0.51	36	1.42	20	44.1	
CLL-506		150	5.91	70.9	10.99	1064	64.93	264	10.39	414	16.30	125	4.92	95.0	3.74	Tr 95 x 4	30	1.18	71	2.80	2	0.08	13	0.51	36	1.42	25	55.1	
CLL-508		200	7.87	70.9	10.99	1418	86.53	314	12.36	514	20.24	125	4.92	95.0	3.74	Tr 95 x 4	30	1.18	71	2.80	2	0.08	13	0.51	36	1.42	30	66.1	
CLL-510		250	9.84	70.9	10.99	1773	108.20	364	14.33	614	24.17	125	4.92	95.0	3.74	Tr 95 x 4	30	1.18	71	2.80	2	0.08	13	0.51	36	1.42	35	77.2	
CLL-512		300	11.81	70.9	10.99	2127	129.80	414	16.30	714	28.11	125	4.92	95.0	3.74	Tr 95 x 4	30	1.18	71	2.80	2	0.08	13	0.51	36	1.42	40	88.2	
CLL-1002	100 (929)	50	1.97	132.7	20.57	664	40.52	187	7.36	237	9.33	165	6.50	130.0	5.12	Tr 130 x 6	30	1.18	71	2.80	2	0.08	13	0.51	44	1.73	30	66.1	
CLL-1002		100	3.94	132.7	20.57	1327	80.98	237	9.33	337	13.27	165	6.50	130.0	5.12	Tr 130 x 6	30	1.18	71	2.80	2	0.08	13	0.51	44	1.73	39	86.0	
CLL-1004		150	5.91	132.7	20.57	1991	121.50	287	11.30	437	17.20	165	6.50	130.0	5.12	Tr 130 x 6	30	1.18	71	2.80	2	0.08	13	0.51	44	1.73	48	105.8	
CLL-1006		200	7.87	132.7	20.57	2654	161.96	337	13.27	537	21.14	165	6.50	130.0	5.12	Tr 130 x 6	30	1.18	71	2.80	2	0.08	13	0.51	44	1.73	56	123.5	
CLL-10010		250	9.84	132.7	20.57	3318	202.48	387	15.24	637	25.08	165	6.50	130.0	5.12	Tr 130 x 6	30	1.18	71	2.80	2	0.08	13	0.51	44	1.73	64	141.1	
CLL-10012		300	11.81	132.7	20.57	3981	242.94	437	17.20	737	29.02	165	6.50	130.0	5.12	Tr 130 x 6	30	1.18	71	2.80	2	0.08	13	0.51	44	1.73	73	160.9	
CLL-1502	150 (1390)	50	1.97	198.6	30.78	993	60.60	209	8.23	259	10.20	205	8.07	159.0	6.26	Tr 159 x 6	39	1.54	130	5.12	2	0.08	25	0.98	44	1.73	53	116.8	
CLL-1504		100	3.94	198.6	30.78	1986	121.19	259	10.20	359	14.13	205	8.07	159.0	6.26	Tr 159 x 6	39	1.54	130	5.12	2	0.08	25	0.98	44	1.73	66	145.5	
CLL-1506		150	5.91	198.6	30.78	2979	181.79	309	12.17	459	18.07	205	8.07	159.0	6.26	Tr 159 x 6	39	1.54	130	5.12	2	0.08	25	0.98	44	1.73	78	172.0	
CLL-1508		200	7.87	198.6	30.78	3972	242.39	359	14.13	559	22.01	205	8.07	159.0	6.26	Tr 159 x 6	39	1.54	130	5.12	2	0.08	25	0.98	44	1.73	92	202.8	
CLL-15010		250	9.84	198.6	30.78	4965	302.98	409	16.10	659	25.94	205	8.07	159.0	6.26	Tr 159 x 6	39	1.54	130	5.12	2	0.08	25	0.98	44	1.73	104	229.3	
CLL-15012		300	11.81	198.6	30.78	5958	363.58	459	18.07	759	29.88	205	8.07	159.0	6.26	Tr 159 x 6	39	1.54	130	5.12	2	0.08	25	0.98	44	1.73	117	257.9	
CLL-2002	200 (1859)	50	1.97	265.6	41.17	1330	81.16	243	9.57	293	11.54	235	9.25	184.0	7.24	Tr 184 x 6	50	1.97	130	5.12	2	0.08	25	0.98	50	1.97	83	183.0	
CLL-2006		150	5.91	265.6	41.17	3989	243.42	343	13.50	493	19.41	235	9.25	184.0	7.24	Tr 184 x 6	50	1.97	130	5.12	2	0.08	25	0.98	50	1.97	117	257.9	
CLL-20012		300	11.81	265.6	41.17	7995	487.88	493	19.41	793	31.22	235	9.25	184.0	7.24	Tr 184 x 6	50	1.97	130	5.12	2	0.08	25	0.98	50	1.97	170	374.8	
CLL-2502	250 (2562)	50	1.97	366.1	56.75	1832	111.80	249	9.80	299	11.77	275	10.83	216.0	8.50	Tr 116 x 6	50	1.97	150	5.91	2	0.08	25	0.98	56	2.20	116	255.7	
CLL-2506		150	5.91	366.1	56.75	5496	335.39	349	13.74	499	19.65	275	10.83	216.0	8.50	Tr 116 x 6	50	1.97	150	5.91	2	0.08	25	0.98	56	2.20	162	357.1	
CLL-25012		300	11.81	366.1	56.75	10995	670.96	499	19.65	799	31.46	275	10.83	216.0	8.50	Tr 116 x 6	50	1.97	150	5.91	2	0.08	25	0.98	56	2.20	234	515.9	
CLL-3002	300 (3193)	50	1.97	456.2	70.71	2281	139.20	295	11.61	345	13.58	310	12.20	241.0	9.49	Tr 241 x 6	59	2.32	139	5.47	5	0.20	25	0.98	60	2.36	173	381.4	
CLL-3006		150	5.91	456.2	70.71	6843	417.59	395	15.55	545	21.46	310	12.20	241.0	9.49	Tr 241 x 6	59	2.32	139	5.47	5	0.20	25	0.98	60	2.36	233	513.7	
CLL-30012		300	11.81	456.2	70.71	13740	838.47	545	21.46	845	33.27	310	12.20	241.0	9.49	Tr 241 x 6	59	2.32	139	5.47	5	0.20	25	0.98	60	2.36	323	712.1	
CLL-4002	400 (3919)	50	1.97	559.9	86.78	2800	170.87	335	13.19	385	15.16	350	13.78	267.0	10.51	Tr 266 x 6	70	2.76	159	6.26	5	0.20	25	0.98	70	2.76	250	551.2	
CLL-4006		150	5.91	559.9	86.78	8399	512.54	435	17.13	585	23.03	350	13.78	267.0	10.51	Tr 266 x 6	70	2.76	159	6.26	5	0.20	25	0.98	70	2.76	327	720.9	
CLL-40012		300	11.81	559.9	86.78	16800	1025.20	585	23.03	885	34.84	350	13.78	267.0	10.51	Tr 266 x 6	70	2.76	159	6.26	5	0.20	25	0.98	70	2.76	441	972.2	
CLL-5002	500 (5118)	50	1.97	731.1	113.32	3653	222.92	375	14.76	425	16.73	400	15.75	305.0	12.01	Tr 305 x 6	80	3.15	179	7.05	5	0.20	25	0.98	80	3.15	367	809.1	
CLL-5006		150	5.91	731.1	113.32	10959	668.76	475	18.70	625	24.61	400	15.75	305.0	12.01	Tr 305 x 6	80	3.15	179	7.05	5	0.20	25	0.98	80	3.15	466	1027.4	
CLL-50012		300	11.81	731.1	113.32	21930	1338.25	625	24.61	925	36.42	400	15.75	305.0	12.01	Tr 305 x 6	80	3.15	179	7.05	5	0.20	25	0.98	80	3.15	617	1360.3	
CLL-6002	600 (5983)	50	1.97	854.8	132.49	4277	261.00	395	15.55	445	17.52	430	16.93	330.0	12.99	Tr 330 x 6	85	3.35	194	7.64	5	0.20	25	0.98	85	3.35	446	983.3	
CLL-6006		150	5.91	854.8	132.49	12830	782.93	495	19.49	645	25.39	430	16.93	330.0	12.99	Tr 330 x 6	85	3.35	194	7.64	5	0.20	25	0.98	85	3.35	562	1239.0	
CLL-60012		300	11.81	854.8	132.49	25650	1565.26	645	25.39	945	37.20	430	16.93	330.0	12.99	Tr 330 x 6	85	3.35	194	7.64	5	0.20	25	0.98	85	3.35	737	1624.8	
CLL-8002	800 (8238)	50	1.97	1176.9	182.42	5882	358.94	455	17.91	505	19.88	505	19.88	387.0	15.24	Tr 387 x 6	100	3.94	224	8.82	5	0.20	25	0.98	100	3.94	709	1563.1	
CLL-8006		150	5.91	1176.9	182.42	17645	1076.76	555	21.85	705	27.76	505	19.88	387.0	15.24	Tr 387 x 6	100	3.94	224	8.82	5	0.20	25	0.98	100	3.94	870	1918.0	
CLL-80012		300	11.81	1176.9	182.42	35370	2158.41	705	27.76	1005	39.57	505	19.88	387.0	15.24	Tr 387 x 6	100	3.94	224	8.82	5	0.20	25	0.98	100	3.94	1110	2447.1	
CLL-10002	1000 (10260)	50	1.97	1466.4	227.29	7329	447.24	495	19.49	545	21.46	560	22.05	432.0	17.01	Tr 432 x 6	110	4.33	249	9.80	5	0.20	25	0.98	110	4.33	949	2092.2	
CLL-10006		150	5.91	1466.4	227.29	21986	1341.67	595	23.43	745	29.33	560	22.05	432.0	17.01	Tr 432 x 6	110	4.33	249	9.80	5	0.20	25	0.98	110	4.33	1141	2515.5	
CLL-100012		300	11.81	1466.4	227.29	43980	2683.82	745	29.33	1045	41.14	560	22.05	432.0	17.01	Tr 432 x 6	110	4.33	249	9.80	5	0.20	25	0.98	110	4.33	1430	3152.6	