

STEERING GEAR MODEL	CYLINDER MODEL	TORQUE (T.M.)	RUDDER ANGLE (2 X CC.)	A	B	C	D	E	F	G	H	J	K	L (MIN) (MAX)	M	N	O	P	Q	R	S (kg)	T (kg)	U (SAE O-RINGS)
LA2-1.6-35	L80-262	1.6	35	170	165	89	780	120	544	218	54	169	75.5	115 - 130	151	84	62	60.4	85	M20	21,632	4,487	3/4" - 36
LA2-1.75-45	L80-409	1.75	45	191	165	89	1000	127	688	280	54	169	75.5	115 - 130	151	84	62	60.4	85	M20	19,596	4,487	3/4" - 36
LA2-2.5-35	L80-409	2.5	35	272	165	89	1000	137	778	340	54	169	74	130 - 150	174	84	62	60.4	85	M20	21,196	4,487	3/4" - 36
LA2-2.8-45	L100-419	2.8	45	195	216	111	1082	147	712	286	70	206	87	130 - 150	174	103	78.5	81	108	M24	29,000	7,020	1-1/16" - 32
LA2-4.0-35	L100-419	4.0	35	278	216	111	1082	160	836	348	70	206	102	150 - 176	203	103	78.5	81	108	M24	33,074	7,020	1-1/16" - 32
LA2-4.4-45	L100-650	4.4	45	303	216	111	1429	170	1028	444	70	206	102	150 - 176	203	103	78.5	81	108	M24	30,231	7,020	1-1/16" - 32
LA2-6.3-35	L125-424	6.3	35	280	267	142	1174	178	864	352	80	241	118	175 - 200	232	121	92	102	133	M30	49,335	10,963	1-1/16" - 32
LA2-7.0-45	L125-674	7.0	45	314	267	142	1549	200	1082	461	80	241	118	175 - 200	232	121	92	102	133	M30	43,560	10,963	1-1/16" - 32
LA2-9.0-35	L125-674	9.0	35	447	267	142	1549	290	1280	540	80	241	117	200 - 235	273	121	92	102	133	M30	49,178	10,963	1-1/16" - 32

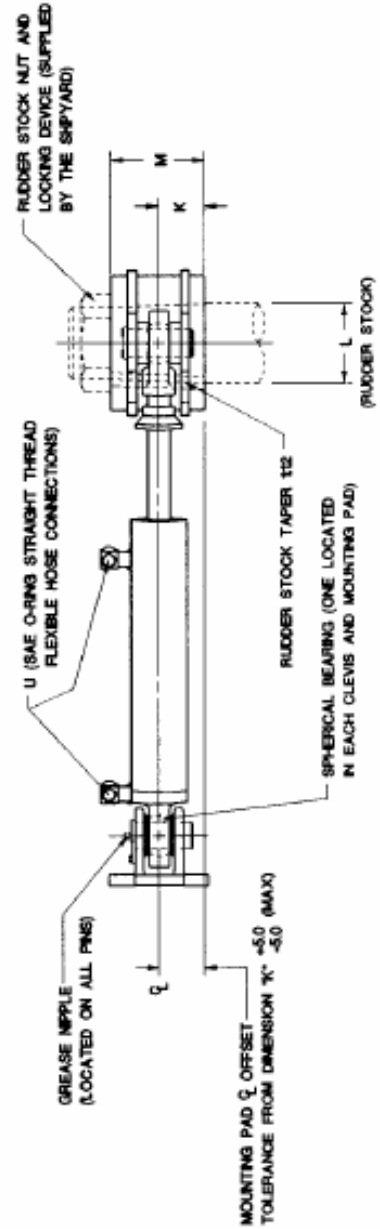
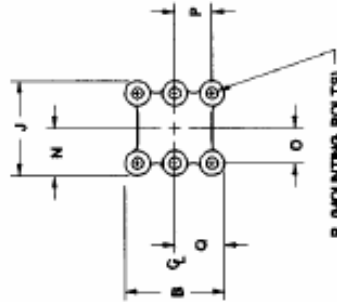
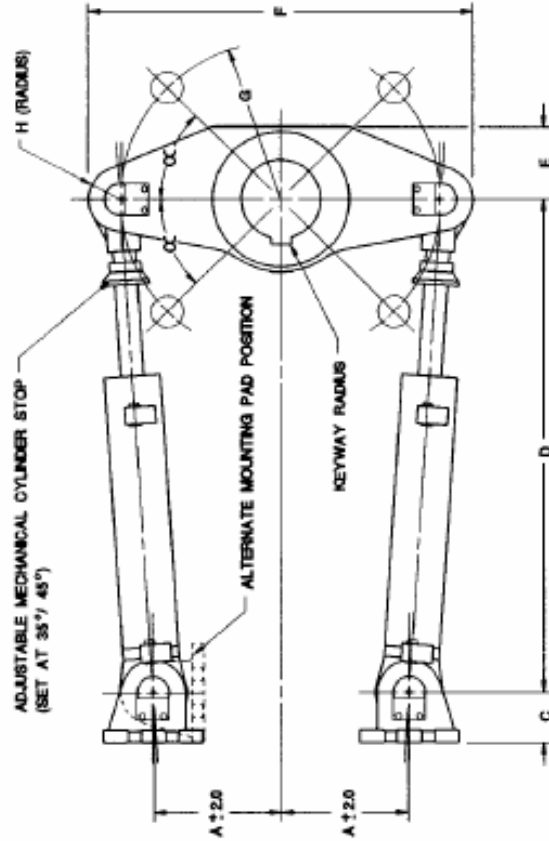
RUDDER STOCK DIAMETER RANGE (MM)	KEYSIZE	KEYWAY RADIUS
115 - 128	32 X 22	1.6
129 - 144	36 X 25	1.6
145 - 160	40 X 28	2.0
161 - 180	45 X 32	2.3
181 - 200	50 X 36	2.5
201 - 224	56 X 40	2.8
225 - 235	63 X 45	3.0

CYLINDER MODEL	MIDSTROKE
L80-262	780
L80-409	1002.5
L100-419	1082.5
L100-650	1429
L125-424	1170
L125-674	1545

NOTES

- AS THE STEERING GEAR MUST BE EQUIVALENT IN STRENGTH TO THE UPPER RUDDER STOCK EACH CYLINDER MOUNTING SEAT STRUCTURE MUST BE CAPABLE OF SUPPORTING A MAXIMUM LOAD OF 75 kg. THIS LOAD WILL CAUSE THE RUDDER STOCK TO FAIL IN TORSIONAL SHEAR. THE NORMAL LOAD DUE TO WORKING PRESSURE IS "T" KG.
- IN THE HARDOVER POSITION ONE CYLINDER WILL STOP AGAINST THE PISTON HEAD AND THE OTHER STOPS AGAINST THE ADJUSTABLE MECHANICAL STOP THEREBY PROVIDING A BALANCED TORQUE.
- SYSTEM HYDRAULIC WORKING PRESSURE 10,000 kpa (1450 psi)
- ALL DIMENSIONS ARE IN MILLIMETERS.
- MOUNTING BOLT GRADE: 8.8 OR U.S. GRADE 2 OR BETTER.
- TOLERANCES SHOWN ARE FOR SHIPYARD SEATINGS.
- METRIC TO U.S. CUSTOMARY CONVERSIONS:

25.4mm = 1 inch  
 1 Tonne Meter = 7233 Be-ft  
 1 kg = 2.2 lb



L-MODEL OVERALL DIMENSIONS FOR LA2-1.6-35 THRU LA2-10-35 STEERING



Wagner Engineering Ltd.  
 135 Riverside Dr.  
 North Vancouver, BC  
 Canada V7H 1T6  
 Tel: (604) 988-1111  
 www.wagnerengineering.ca Fax: (604) 988-0334

DRAWN BY: M.L.B. CHECKED BY: F.J.P.  
 SCALE: N.T.S.  
 DATE: MAY, 1994  
 REV. NO. REF NO.:  
**C-8-636**