



Enriching Lives

VERTICAL INLINE LONG COUPLED PUMP

TYPE: KW-LC



KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

PERFORMANCE RANGE:

Delivery Size	: up to 250 mm
Discharge Capacity (Q)	: 800 m ³ /hr
Total Head	: 60 meter
Speed (Nominal)	: 1450, 2950 RPM at 50 Hz
Maximum Working Pressure	: 16 bar
Suction Pressure	: 12 bar subject to maximum working pressure is 16 bar
Temperature	: maximum up to 90° C

Applications:

These pumps are design pumping clear or turbid water up to 3000 ppm. These are widely used for water supply schemes, Potable Water, circulation of chilled water in HVAC, Air conditioning plants, Water boosting systems, Irrigation and sprinkler systems, bottling plants, circulation system in Industries, for Fire Fighting Applications etc.

- Water supply
- HVAC
- Air conditioning
- Hot water up to 90°C
- Drinking water
- Cooling water
- Fire Fighting applications

FEATURES:

- Vertical inline long coupled through axially split rigid coupling
- Suction and Delivery nozzle are cast integral with volute and are in-line. Suction and delivery flanges are cast integral
- Volute is designed with smooth fluid flow passages.
- Machined surface and mounting holes are provided on pump casing for ease of pump installation.
- Impeller is enclosed type. It is dynamically balanced which ensures smooth operation of the pump.
- Pump Shaft is designed for toughest service. The critical speed of shaft is sufficiently above the operating speed.
- Axially split rigid spacer type rigid coupling produced in high tensile aluminum material.
- The pump is supplied with mechanical seal as a standard scope of supply.
- The mechanical seal can be replaced only by removing the coupling and without disturbing suction & delivery piping, & without removing the motor.
- Motor stool is produced in gray cast iron with integral ribs. It is robust design ensures more reliable and maintenance free operation.
- Coupling guard is in two halves and fully encloses the accessible openings
- Maximum allowable suction pressure is 12 bar.
- Efficient water pump with MEI of over 0.7, in accordance with Eco-design requirements.
- Testing complying to ISO 9906 Gr2B

COMPONENTS:

Pump Casing:

The pump casing is made of cast iron. Casing suction & discharge branches are in-line and displayed at 180°C cast integral with volute casing with flanges to suit ASME/ANSI 125# and BSEN 1092 PN16. Smooth hydraulic passage ensures high efficiency.

Impeller:

The impellers are of enclosed type. Hydraulic balancing of impellers is achieved by balancing holes or back vanes depending upon magnitude of axial thrust. The impellers are statically and dynamically balanced.

Pump Shaft:

It is designed for toughest service. The critical speed of shaft is sufficiently above the operating speed.

Casing Wear Ring:

Replaceable wear rings are provided on pump casing.

Coupling:

Axially Split rigid coupling produced in high tensile aluminum material.

Direction of Rotation:

Clockwise when viewed from top / driver end.

Motor:

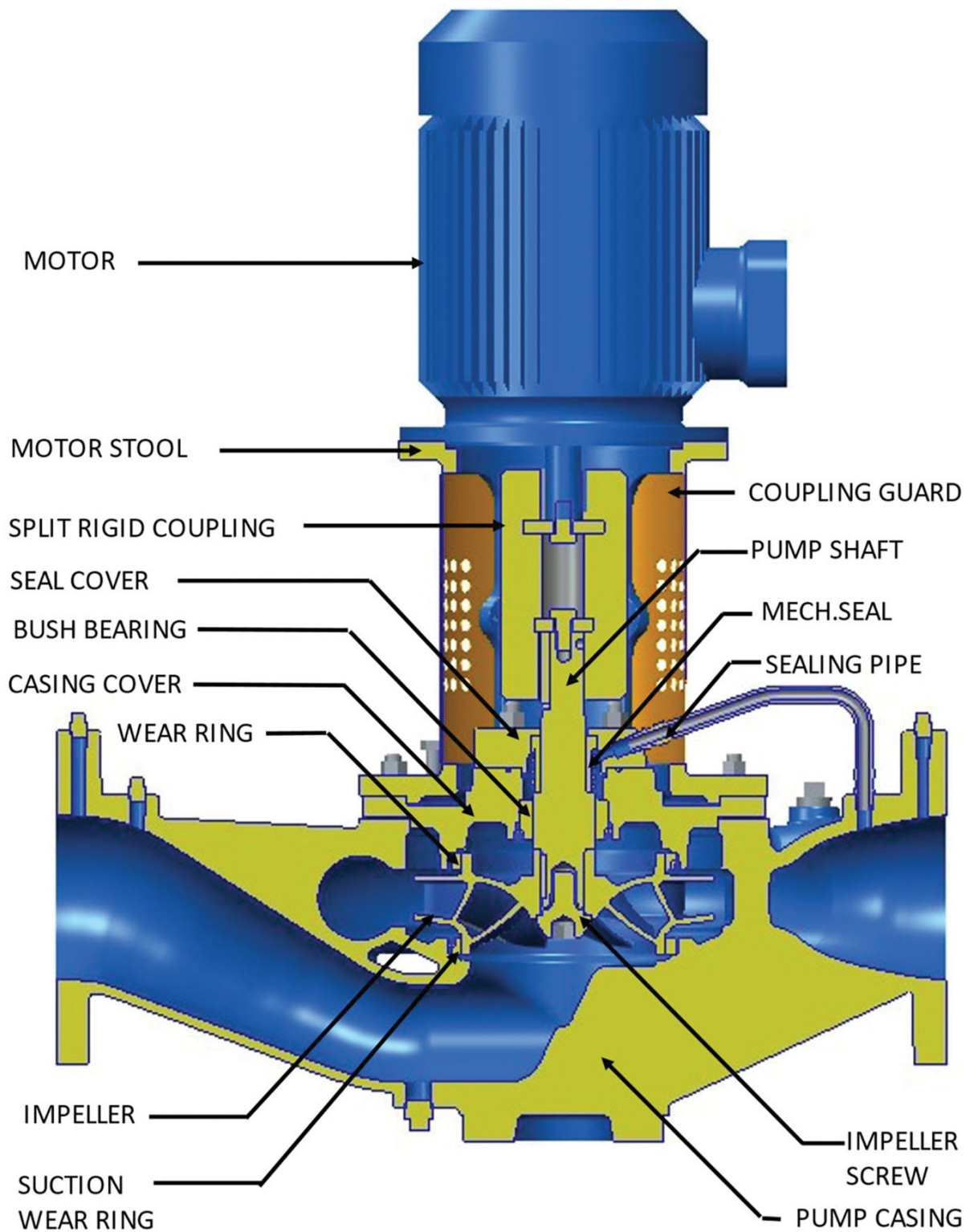
KBL approved make vertical flange mounted.

MATERIAL OF CONSTRUCTION:

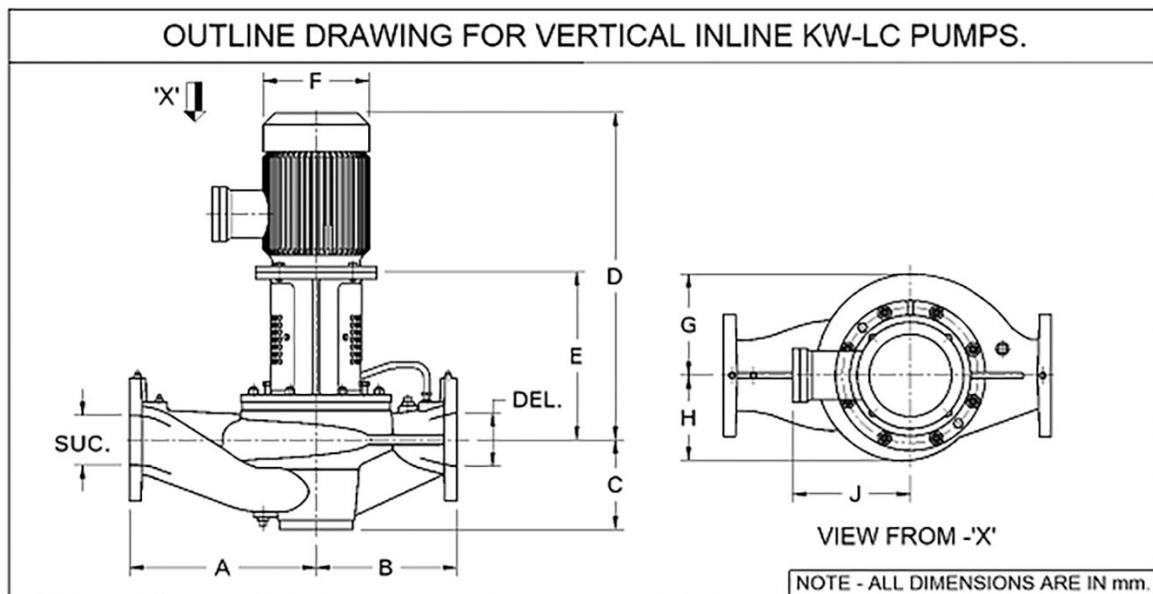
Component Description	Bronze Fitted*	CF8M Fitted	SGI Casing & Casing Cover*
Pump Casing	CI IS 210-FG 260	CI IS 210-FG 260	SGI IS:1865-SG 500/7
Impeller	BRONZE IS 318 GR LTB2	ST ST ASTMA 351/351 M - CF8M	ST ST ASTMA 351/351 M - CF8M
Casing Wear Rings	BRONZE IS 318 GR LTB2	CI IS 210-FG 260	CI IS 210-FG 260
Pump Shaft	ST ST ASTMA-276 TYPE 410	ST ST ASTMA-276 TYPE 410	ST ST ASTMA-276 TYPE 410
Motor Stool	CI IS 210-FG 260	CI IS 210-FG 260	CI IS 210-FG 260

- Consult PED/Factory/Sales team for availability.

CROSS SECTION WITH MAJOR COMPONENTS:

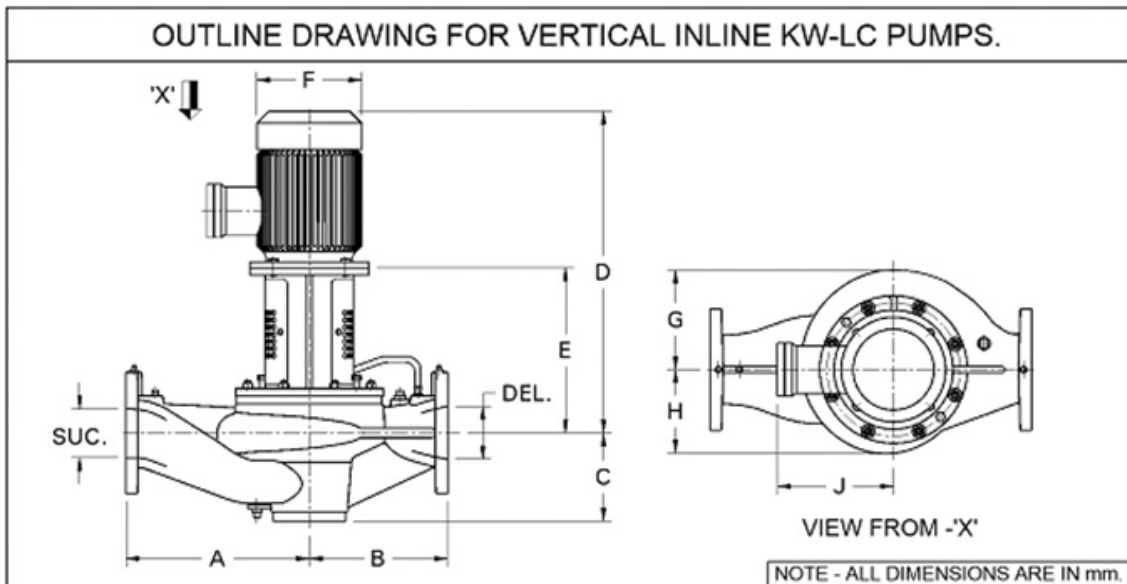


GENERAL OUTLINE DIMENSIONS:



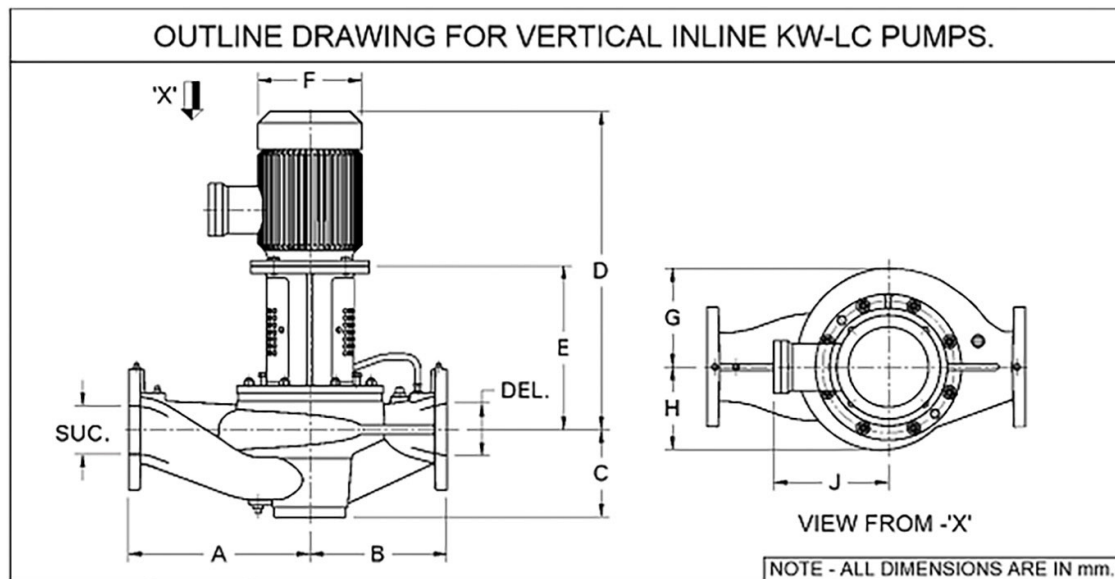
PUMP MODEL	FRAME SIZES	PUMP OUTLINE DIMENSIONS											PSET Wt. kg
		DEL.	SUC.	A	B	C	D	E	F	G	H	J	
KW04C(LC)	ND 80	40	40	200	175	105	522	295	157	130	130	134	67
	90S	40	40	200	175	105	547	295	174	130	130	140	74
	90L	40	40	200	175	105	572	295	174	130	130	140	75
KW04J(LC)	90S	40	40	245	210	120	572	295	174	170	160	140	74
	90L	40	40	245	210	120	623	295	174	170	160	140	75
	100L	40	40	245	210	120	623	295	195	170	160	157	84
KW05J(LC)	ND80	50	50	245	200	125	531	304	157	170	155	134	81
	90S	50	50	245	200	125	556	304	174	170	155	140	89
	90L	50	50	245	200	125	581	304	174	170	155	140	90
	100L	50	50	245	200	125	581	304	195	170	155	157	98
KW06J(LC)	90L	65	65	242	225	145	587	310	174	185	160	140	97
	100L	65	65	242	225	145	638	310	195	185	160	157	106
	112M	65	65	242	225	145	638	310	220	185	160	170	118
KW06K(LC)	100L	65	65	305	255	150	668	340	195	200	185	157	129
	112M	65	65	305	255	150	668	340	220	200	185	170	142
	132S	65	65	305	255	150	777	360	260	200	185	206	162
KW08D(LC)	132M	65	65	305	255	150	777	360	260	200	185	206	173
	ND80	80	80	300	235	145	532	305	157	170	145	134	90
	90S	80	80	300	235	145	582	305	174	170	145	140	98
KW08E(LC)	90L	80	80	300	235	145	582	305	174	170	145	140	99
	100L	80	80	300	235	145	633	305	195	170	145	157	107
	112M	80	80	300	235	145	633	305	220	170	145	170	120
	100L	80	80	302	237	150	627	299	195	190	170	157	110
KW10C(LC)	112M	80	80	302	237	150	627	299	220	190	170	170	123
	132S	80	80	302	237	150	766	349	260	190	170	206	145
	132M	80	80	302	237	150	766	349	260	190	170	206	156
KW10C(LC)	90S	100	100	285	260	170	638	310	174	175	145	140	97
	90L	100	100	285	260	170	638	310	174	175	145	140	98
	100L	100	100	285	260	170	638	310	195	175	145	157	106
	112M	100	100	285	260	170	638	310	220	175	145	170	119

GENERAL OUTLINE DIMENSIONS:



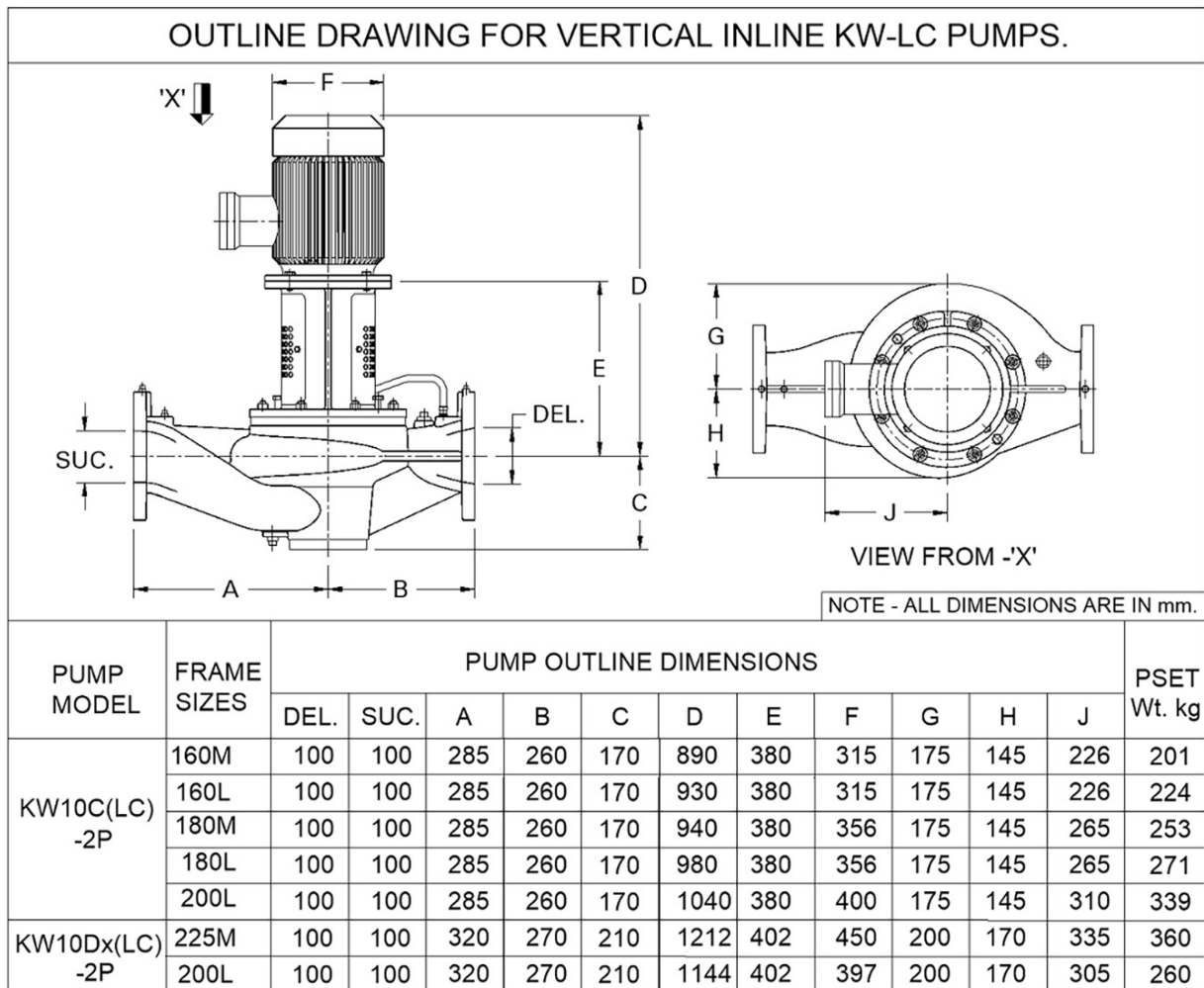
PUMP MODEL	FRAME SIZES	PUMP OUTLINE DIMENSIONS											PSET Wt. kg
		DEL.	SUC.	A	B	C	D	E	F	G	H	J	
KW10F(LC)	132S	100	100	402	315	195	782	365	260	260	230	206	219
	132M	100	100	402	315	195	782	365	260	260	230	206	230
	160M	100	100	402	315	195	914	395	316	260	230	226	273
	160 L	100	100	402	315	195	914	395	316	260	230	226	293
	180M	100	100	402	315	195	1022	395	354	260	230	265	325
	180L	100	100	402	315	195	1022	395	354	260	230	265	343
KW10J(LC)	112M	100	100	320	245	275	734	317	220	205	170	170	137
	132S	100	100	320	245	275	784	367	260	205	170	206	155
	132M	100	100	320	245	275	784	367	260	205	170	206	166
KW10K(LC)	132S	100	100	320	330	180	778	361	260	220	190	206	177
	132M	100	100	320	330	180	910	391	316	220	190	226	188
	160M	100	100	320	330	180	778	361	260	220	190	206	231
	160 L	100	100	320	330	180	910	391	316	220	190	226	251
KW12J(LC)	112M	125	125	385	290	185	675	347	220	220	185	170	153
	132 S	125	125	385	290	185	784	367	260	220	185	206	174
	132 M	125	125	385	290	185	784	367	260	220	185	206	185
	160M	125	125	385	290	185	916	397	316	220	185	226	230
KW12X(LC)	132S	125	125	400	295	185	785	368	260	225	200	206	188
	132M	125	125	400	295	185	785	368	260	225	200	206	199
	160M	125	125	400	295	185	917	398	316	225	200	226	248
	160L	125	125	400	295	185	917	398	316	225	200	226	268
KW12F(LC)	160L	125	125	375	312	240	939	439	330	254	222	260	337
	180M	125	125	375	312	240	1069	439	355	254	222	280	373
	180L	125	125	375	312	240	1139	439	355	254	222	280	398
	200L	125	125	375	312	240	1181	439	397	254	222	305	463
KW12G(LC)	200L	125	125	426	450	292	1195	453	397	298.5	268.5	305	548.5
	225S	125	125	426	450	292	1187	453	445	298.5	268.5	335	626.5
	225M	125	125	426	450	292	1228	453	445	298.5	268.5	335	666.5
	250M	125	125	426	450	292	1298	453	485	298.5	268.5	370	725
KW15X(LC)	160M	150	150	410	358	225	917	398	316	245	210	226	271
	160 L	150	150	410	358	225	917	398	316	245	210	226	290
	180M	150	150	410	358	225	1022	395	354	245	210	265	322
	180L	150	150	410	358	225	1022	395	354	245	210	265	340

GENERAL OUTLINE DIMENSIONS:



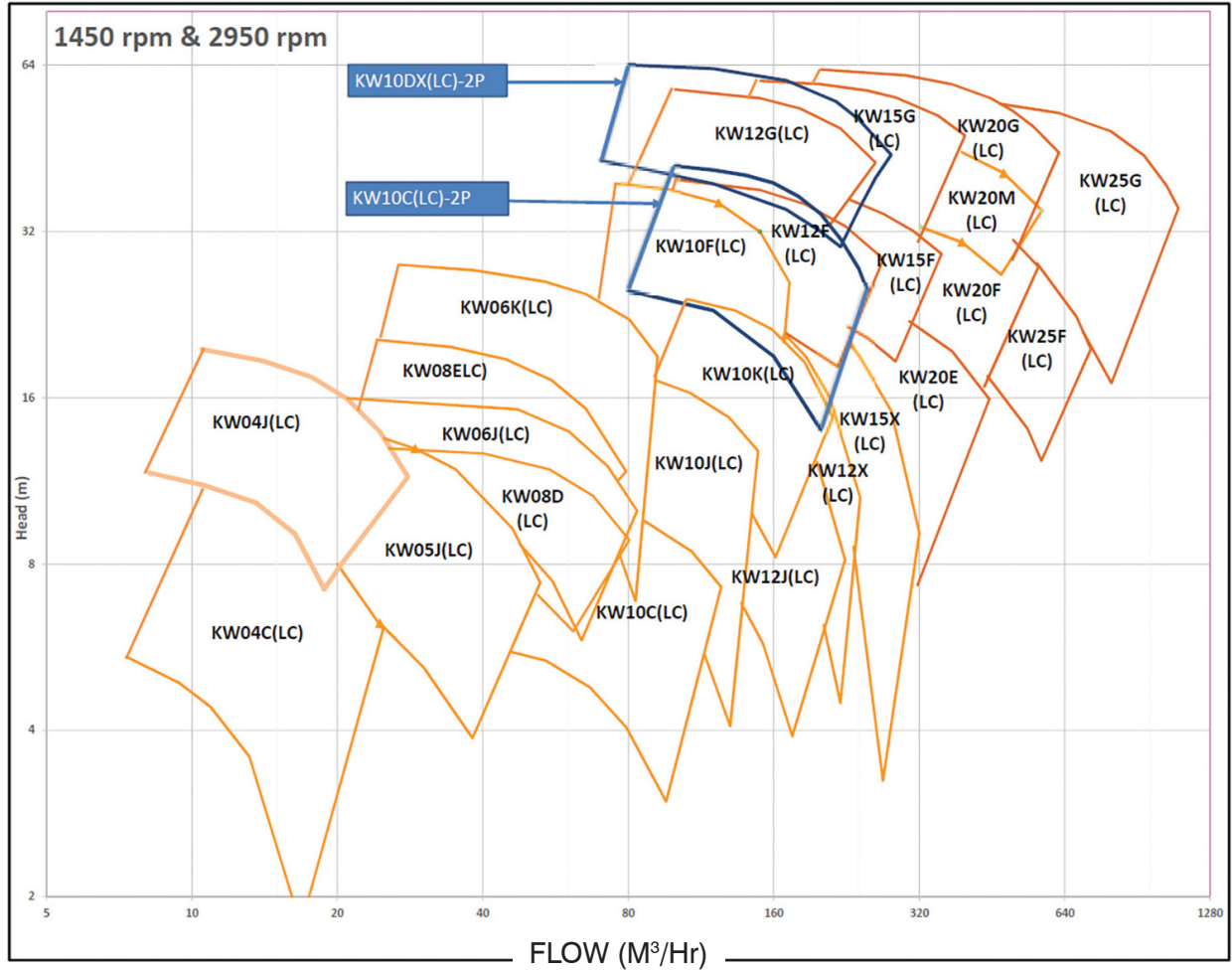
PUMP MODEL	FRAME SIZES	PUMP OUTLINE DIMENSIONS											PSET Wt. kg
		DEL.	SUC.	A	B	C	D	E	F	G	H	J	
KW15F(LC)	180M	150	150	425	365	257	1083	453	355	267	229.5	280	420
	180L	150	150	425	365	257	1153	453	355	267	229.5	280	445
	200L	150	150	425	365	257	1195	453	397	267	229.5	305	509
	225S	150	150	425	365	257	1187	453	445	267	229.5	335	588
KW15G(LC)	225M	150	150	435	500	280	1228	453	445	310	275	335	681
	250M	150	150	435	500	280	1298	453	485	310	275	370	740
	280S	150	150	435	500	280	1358	453	547	310	275	410	910
KW20M(LC)	225S	200	200	650	450	313	1235	461	489	330	290	415	670
	225M	200	200	650	450	313	1198	461	450	330	290	344	670
	250S	200	200	650	450	313	1198	461	450	330	290	344	798
	250M	200	200	650	450	313	1331	461	544	330	290	445	798
	280S	200	200	650	450	313	1331	461	544	330	290	445	933
	280M	200	200	650	450	313	1235	461	489	330	290	415	933
KW20E(LC)	160L	200	200	485	450	305	930	430	330	298.5	237.6	260	406
	180M	200	200	485	450	305	1060	430	355	298.5	237.6	280	441.5
	180L	200	200	485	450	305	1130	430	355	298.5	237.6	280	466.5
	200L	200	200	485	450	305	1172	430	397	298.5	237.6	305	534
KW20F(LC)	200L	200	200	505	550	303	1200	458	397	304	255	305	563.5
	225S	200	200	505	550	303	1192	458	445	304	255	335	641.5
	225M	200	200	505	550	303	1233	458	445	304	255	335	681.5
	250M	200	200	505	550	303	1303	458	485	304	255	370	739
	280S	200	200	505	550	303	1363	458	547	304	255	410	909
KW20G(LC)	250M	200	200	650	450	313	1302	457	485	322.5	277.5	370	783.5
	280S	200	200	650	450	313	1362	457	547	322.5	277.5	410	954.5
	280M	200	200	650	450	313	1412	457	547	322.5	277.5	410	1234.5
	315S	200	200	650	450	313	1572	522	620	322.5	277.5	530	1300
KW25F(LC)	225M	250	250	600	550	350	1245	470	445	330	275	335	779.5
	250M	250	250	600	550	350	1315	470	485	330	275	370	837.5
	280S	250	250	600	550	350	1375	470	547	330	275	410	1008
KW25G(LC)	280S	250	250	600	600	355	1436	531	547	339.6	290.5	410	1077
	280M	250	250	600	600	355	1486	531	547	339.6	290.5	410	1357
	315S	250	250	600	600	355	1611	561	620	339.6	290.5	530	1422
	315M	250	250	600	600	355	1716	561	620	339.6	290.5	530	1525
	315S	250	250	600	600	355	1716	561	620	339.6	290.5	530	1585

GENERAL OUTLINE DIMENSIONS:



FAMILY CURVE:

VERTICAL INLINE PUMP KW-LC TYPE FAMILY CURVE (4P/2P/50HZS)





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KIRLOSKAR BROTHERS LIMITED

Established 1888
A Kirloskar Group Company

REGISTERED OFFICE & GLOBAL HEADQUARTERS

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OUR COMPANIES



BRAYBAR PUMPS (PTY) LTD
Republic of South Africa



KARAD PROJECTS AND MOTORS LIMITED
India



KIRLOSKAR BROTHERS (THAILAND) LIMITED
Thailand



KIRLOSKAR CORROCOAT PRIVATE LIMITED
India



KIRLOSKAR EBARA PUMPS LIMITED
India



RODELTA PUMPS INTERNATIONAL B.V.
The Netherlands



SPP PUMPS LIMITED
United Kingdom



SYNCROFLO, INC.
U.S.A.