



Enriching Lives

CENTRIFUGAL PUMPS

TYPE - CPHM



KIRLOSKAR BROTHERS LIMITED
A Kirloskar Group Company

Constructional features :

Pumps are as per DIN 24256 and ISO 2858. The design is of back pull out type. Large variety of models are available to operate at 1450 rpm and 2900 rpm.

Casing :

The casing has axial suction and top centre line delivery. Smooth hydraulic passages ensure high efficiency.

Impeller :

The impellers are of enclosed type. Hydraulic balancing of impellers is achieved either by back vanes or by balancing holes. The impellers are statically and dynamically balanced. Reliable fixing of the impeller on shaft is achieved by using helicoil insert under impeller nut.

Shaft :

The shaft is supported by two antifriction bearings to take residual axial thrust and prevent axial float or radial run out. It is fully protected from the liquid handled by means of a shaft sleeve and gaskets between impeller nut, impeller hub and shaft sleeve.

Stuffing box :

The stuffing box is sealed by gland packing or by mechanical seal. Conversion from gland packing to mechanical seal is achieved by changing some standardised parts. Re-machining of stuffing box is not necessary.

Bearings :

The bearings are grease lubricated.

Direction of rotation :

Clockwise viewed from driving end.

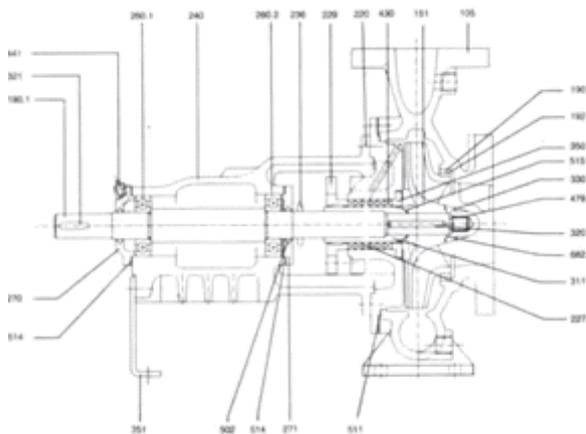
Drive :

Pumps can be driven by electric motor or engine.

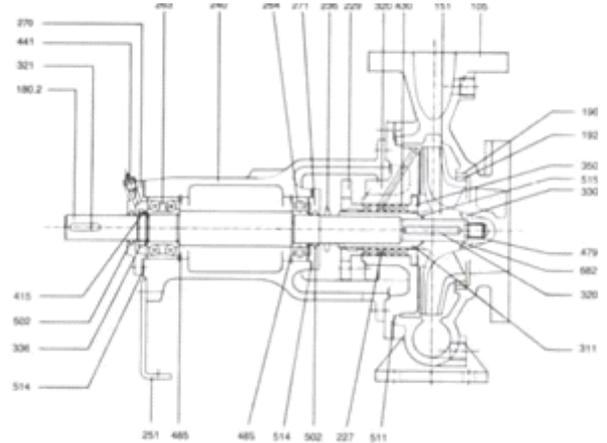
Flanges :

Standard	Optional
Drilling as per ND 16	DIN ND 10, ND 25
DIN 2533 (Cast Iron-Raised face)	ASA 150
DIN 2543 (Steel-Plain face)	8S 10 Table F
	BS 4504- 16 bar or 25 bar

CROSS SECTIONAL VIEW UNIT 5, 7 & 9



Unit 5



Unit 7 & 9

INTERCHANGEABILITY CHART FOR CPHM PUMPS

DESCRIPTION	PART NO	PUMPSIZE																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CASING	105	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
IMPELLER	151	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CASING COVER	220					2		3					5		6												9					10	
IMPELLER RING SUC	192	1	2	3	4	1	2	3	2	2	3	5	11	10	6	12	7	B	9	9	6	7	16	14	15	13	13	14	14	17	18	12	11
IMPELLER RING DEL	193																					7	16			13	13	11	14	17	14	14	14
CASING RING SUC	190	1	12	13	14	1	12	13	2	12	3	5	11	10	6	12	7	18	19	4	10	7	17	15	116	13	13	15	15	18	19	14	15
CASING RING DEL	191																					7	17			13	13	15	15	15	15	15	15
GASKET FOR CASING COVER	511		1			2		1	3			a		3		4								4		5					6		
SUPPORT FOOT	251	1	1	2	13	2		3				4	3	15		3	15	16			5	6	5	16	5	6	7	6		7			
STUFFING BOX BUSH	350					1															2												
LANTERN RING	727					1															2												
DEFLECTOR	736					1															2												
IMPELLER NUT	330					1															2												
GASKET FOR SLEEVE	515					1															2												
GASKET FOR IMPELLER NUT	682					1															2												
STUFFING BOX PACKING	430					1															2												
BEARING HOUSING	240					1															7												
BEARING COVER D E	270					1															2												
BEARING COVER NDE	271					1															2												
GASKET FOR BRG COVERS	511					1															2												
PUMP SHAFT	190					1															2												
SHAFT SLEEVE	311					1															2												
DEEP GROOVE BALL BRG	260																																
DOUBLE ROW ANGULAR	763																																
CONTACT BALL BRG	264																																
CYLINDRICAL ROLLER BRG	264																																
SPLIT GLAND	279					1															2												
MECHANICAL SEAL COVER	731					1															2												
FELT RINGS DE & NOE	507					1															2												
GREASE NIPPLE	441					1															1												
LOCK WASHER	15																				1												
LOCK NUT	336																				1												
HEUCOIL LOCK INSERT	479					1															1												

MATERIAL OF CONSTRUCTION

Casing	CUSG1	CI/SGI Bronze	CI/SGI	CI/SGI	CI/SGI	Cast Steel	CI/SGI	CF8M
Casing Cover	CI	CI/Bronze	CI/SGI	CI/SGI	CI/SGI	Cost Steel	CI/SGI	CF8M
Impeller	CI/ACI	Bronze/ZFB	Ph. Br.	CI	Cast Steel	Cast Steel	CF8M	CF8M
Wear Ring	CI/ACI	Bronze	Ph. Br.	CI	AISI 410H	AISI 410H	CF8M	CF8M
Shaft	CS/St. St.	CS/Si. St.	CS/St. Si.	CS/St. Si.	CS/St. St.	CS/St. St.	CS/St. St.	St. St.
Shaft sleeve	AISI 410H	AISI 410H	AISI 410H/ Ph. Br.	AISI 410H	AISI 410H	AISI 410H	AISI 316	AISI 316
Lantern Ring	CI/St. St.	Bronze	Ph. Br.	CI	CS	CS	AISI 316	A151316
Gland	CI	CI	CI	CI	CI	Cost Steel	CI	CF8M

Other materials ore also available

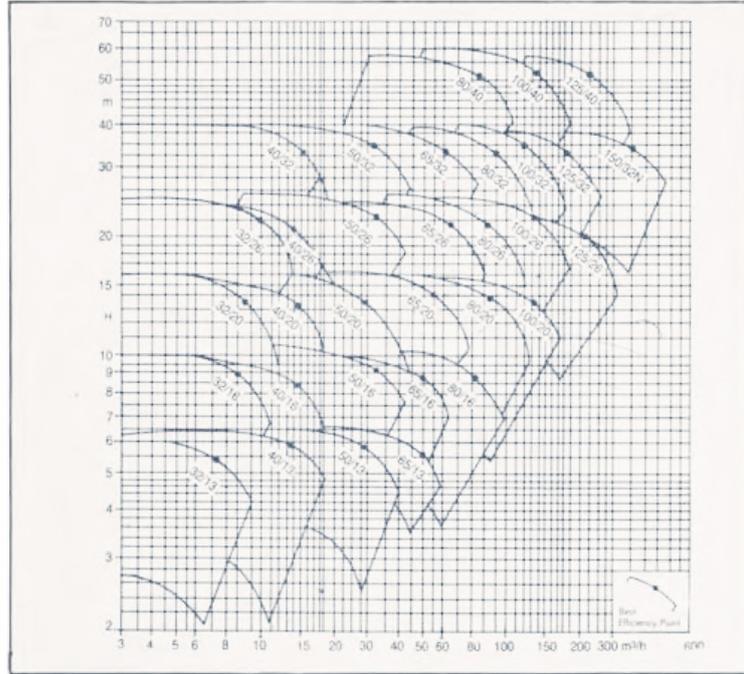
MATERIAL STANDARDS

à	IS	Equivalent International Standards	
		BS	ASTM
Cast Iron (CI)	IS 210 (1978) Gr. FG 260	B.S. 1452 Gr. 250	ASTM-A 48 CL 35
S.G. Iron (SGI)	IS 1865 (1974) Gr. SG 500/7	B.S. 2789 SNG 500/7	ASTM-A 536 60-40-18 & 65-45-12
Austenitic Cast Iron (ACI)	IS 2749 Gr. AFG Ni 15 Cu 6 Cr. 3	B.S. 3468 AUS 101 Gr. B	ASTM-A-436 Type 1
Carbon Steel (CS)	IS 1570 Gr. 40 C-8	B.S. 970 080 M 40	ASTM-A 107 Gr. 1040
CF8M	IS 3444 Gr. 9	B.S. 1632 Gr. B	ASTM-A 351 Gr. CF8M
AISI 316 (St. St.)	IS 1570 Gr. 05 Cr. 18 Ni 11 Mo 3	8.5. 970 316 S16	ASTM-A 276 Type 316
AISI 304 (St St.)		B.S 970 304 S 15	ASTM-A 276 Type 304
AISI 410 (St. St.)		B.S. 3100 410 S 21	ASTM-A 276 Type 410
Bronze	IS 318 Gr. LTB2	B.S. 1400 LG2C	ASTM-B 62, B 145 Alloy 4A
Phosphor Bronze (Ph. Br.)	IS 28 Gr. 1	B.S. 1400P.B. 4	
Zinc Free Bronze (ZFB)		B.S. 1400 Gr. CT1	
Cast Steel		B.S. 1504-101A	ASTM-A 216 74 d Gr. WCB

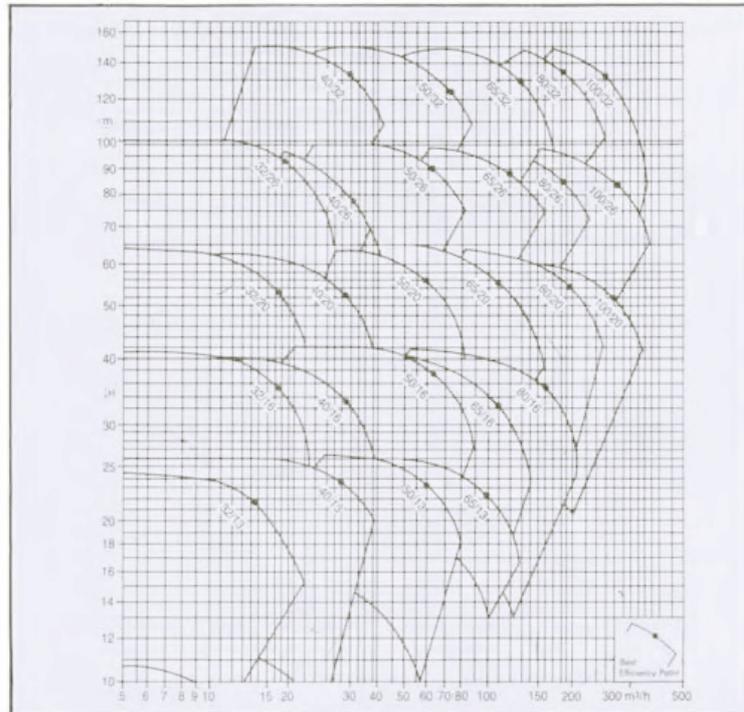
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FAMILY CURVE

FAMILY CURVE OF CPHM PUMP AT 1450 RPM - 50 HZ



FAMILY CURVE OF CPHM PUMP AT 2900 RPM - 50 HZ



ABOUT KBL

Kirloskar Brothers Limited (KBL) is a world class pump manufacturing company with expertise in engineering and manufacture of systems for fluid management. Established in 1888 and incorporated in 1920, KBL is the flagship company of the \$ 2.1 billion Kirloskar Group. KBL, a market leader, provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, oil & gas and marine & defence. We engineer and manufacture industrial, agriculture and domestic pumps, valves and hydro turbines.

In 2003, KBL acquired SPP Pumps, United Kingdom and established SPP INC, Atlanta, USA, as a wholly owned subsidiary of SPP, UK to expand its international presence. In 2007, Kirloskar Brothers International B.V., The Netherlands and Kirloskar Brothers (Thailand) Ltd., a wholly owned subsidiary in Thailand, were incorporated. In 2008, KBL incorporated Kirloskar Brothers Europe B.V. (Kirloskar Pompen B.V. since June 2014), a joint venture between Kirloskar International B.V. and Industrial Pump Group, The Netherlands. In 2010, KBL further consolidated its global position by acquiring Braybar Pumps, South Africa. SPP MENA was established in Egypt in 2012. In 2014, KBL acquired SyncroFlo Inc., the largest independent fabricator of commercial and municipal domestic water booster pumps.

To further strengthen its global position, in 2015, Kirloskar Pompen B.V. acquired Rodelta Pumps International, The Netherlands.

KBL has joint venture cooperation with Ebara, Japan since 1988 for the manufacture of API 610 standard pumps. Kirloskar Corrocoat Private Limited is a joint venture cooperation with Corrocoat, UK since 2006. KBL acquired The Kolhapur Steel Limited in 2007 and Hematic Motors in 2010.

KBL has eight manufacturing facilities in India at Kirloskarvadi, Dewas, Kondhapuri, Shirwal, Sanand, Kaniyur, Kolhapur and Karad. In addition, KBL has global manufacturing and packaging facilities in Egypt, South Africa, Thailand, The Netherlands, United Arab Emirates, United Kingdom and United States of America. KBL has 12,700 channel partners in India and 80 overseas and is supported by best-in-class network of Authorised Centres and Authorised Refurbishment Centres across the country.

All the manufacturing facilities at KBL are certified for ISO 9001, ISO 14001, ISO 50001, BS OHSAS 18001 and SA8000. In addition, the Kirloskarvadi plant is also certified for N & NPT Stamp. KBL's corporate office in Pune is certified for ISO 9001 & Sa8000.

The factories deploy Total Quality Management tools using European Foundation for Quality Management (EFQM) model. The Kirloskarvadi plant of KBL is a state-of-the-art integrated manufacturing facility having Asia's largest hydraulic research centre with testing facility upto 5000 kW and 50,000 m³/hr.

KBL is the ninth pump manufacturing company in the world to be accredited with the N and NPT certification by American Society of Mechanical Engineers (ASME).

Pumps | Valves | Hydro Turbines | Turnkey Projects

Water Resource Management | Irrigation | Power | Industry | Oil & Gas | Marine & Defence | Building & Construction | |
Distribution (Small Pumps) | Valves | Customer Service & Spares

KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company

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OUR COMPANIES



United Kingdom



U.S.A.



South Africa



India



The Netherlands