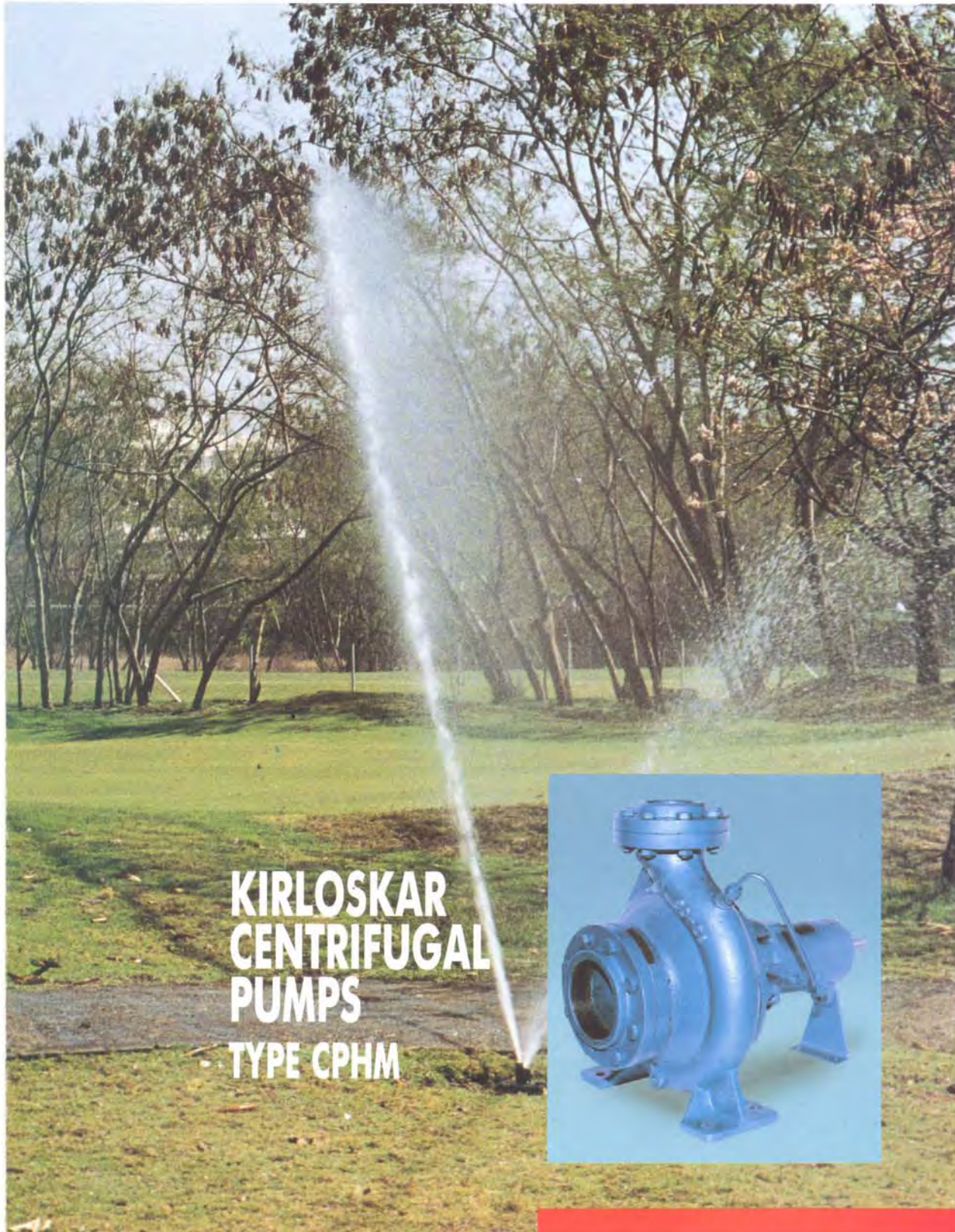
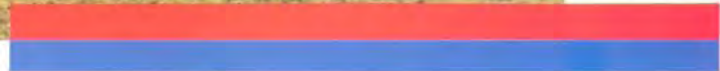




Enriching Lives



**KIRLOSKAR
CENTRIFUGAL
PUMPS
- TYPE CPHM**



KIRLOSKAR BROTHERS LIMITED

KIRLOSKAR CENTRIFUGAL PUMPS-TYPE CPHM

Description

Range :

Delivery size up to 150 mm
Capacity up to 470 m³/hr
Heads up to 150 metres

Application :

For continuous service in pumping or turbid water upto 3000 ppm. Ideally suitable in circulating systems in industry, irrigation, sprinkler system, booster service, fire fighting, air-conditioning etc. (- 30°C to 100°C).

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.

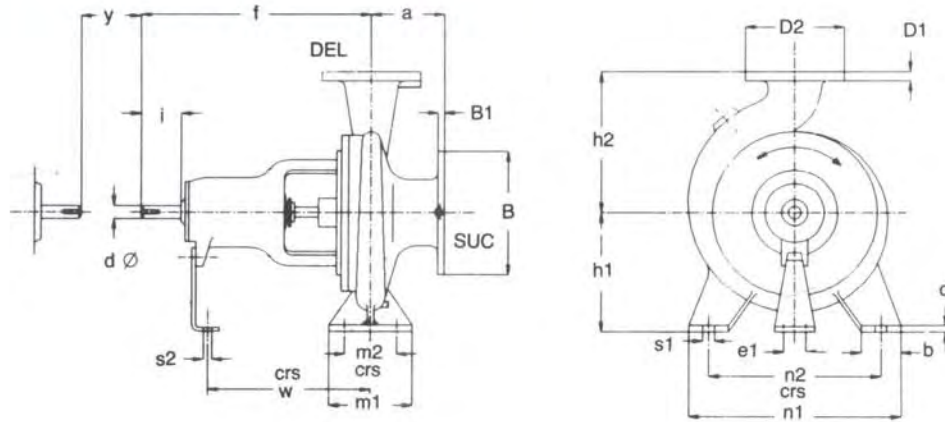
Drive :

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)	BS 10 Table F
	BS 4504- 16 bar or 25 bar

General Dimensions/Mounting Details



Dimensions

PUMP SIZE	DRIVING UNIT	PUMP DIMENSIONS				FOOT DIMENSIONS											SHAFT END					FLANGE DIN ND-16				NET. WEIGHT kg.	
		DEL	SUC	a	f	h1	h2	b	c	m1	m2	n1	n2	w	s1	s2	e1	d \varnothing	l	t	u	y	D2	D1	B		B1
32/13	5	32	50	80	112	140	50	14	100	70	190	140	285	14	15	110	24	50	27	8	100	140	18	165	20	33	
32/16					132	160					240	190															34
32/20					160	180					210	160															40
40/13					112	140					210	160															33
40/16		40	65	385	132	160	240	190	36																		
40/20					160	180	265	212	41																		
50/13					132	160	240	190	36																		
50/16		50	80	100	160	180	265	212	39																		
50/20					160	200	265	212	45																		
65/13		65	100	160	180	65	125	95	280	212	185	20	220	24	59												
32/26	7	32	50	100	180	225	80	16	160	120	320	250	370	18	15	110	32	80	35	10	140	185	20	220	24	76	
40/26					200	250					345	280														76	
40/32		40	65	125	180	225	65	14	125	95	320	250	14	76													
50/26					225	280	345	280	102																		
50/32		50	80	500	160	200	280	212	370	15	110	32	80	35	10	140	185	20	220	24	67						
65/16					180	225	200	250	80	16	160	120	360	280	18	82											
65/20		65	100	100	200	250	80	16	160	120	360	280	18	82													
65/26					225	280	370	250	14	73																	
80/16		80	125	125	180	250	65	14	125	95	345	280	18	99													
80/20					225	280	400	315	18	90																	
80/26	200				22	250	26	99																			
100/20	100	125	200	280	80	16	160	120	360	280	18	119															
65/32	9	65	100	125	225	280	80	16	160	120	400	315	370	18	15	110	42	110	45	12	140	185	20	220	24	124	
80/32					250	315					435	355														18	114
80/40		80	125	530	280	355	80	16	160	120	435	355	370	18	133												
100/26					225	280	400	315	133																		
100/32		100	125	140	250	315	80	16	160	120	400	315	23	15	110	42	110	45	12	140	220	24	250	26	165		
100/40					280	355	100	18	200	150	500	400	370	23	134												
125/26		125	150	530	250	355	80	16	160	120	400	315	18	152													
125/32					280	355	100	18	200	150	500	400	370	23	180												
125/40		315	400	100	22	200	150	500	400	370	23	221															
150/32		200	150	160	315	400	22	200	150	500	400	370	23	221													

All dimensions are in mm

Material of Construction

Casing	CI/SGI	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	Cast 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/St. St.	CS/St. St.	CS/St. St.	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	AISI 316
Gland	CI	CI	CI	CI	CI	Cast Steel	CI	CF8M

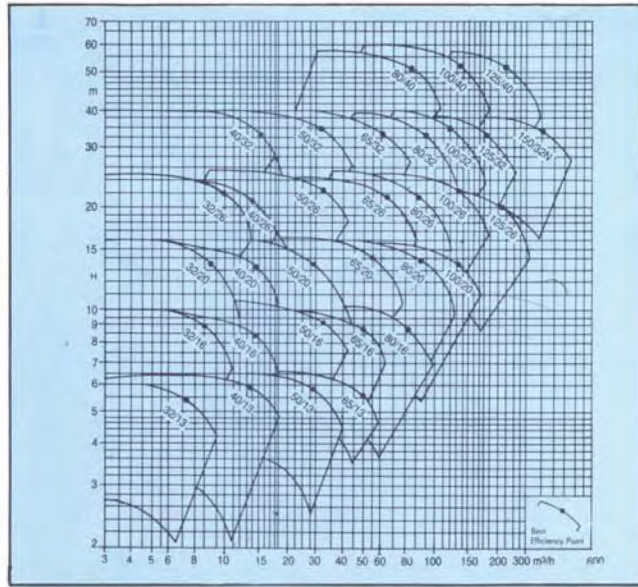
Other materials are also available

Material Standards

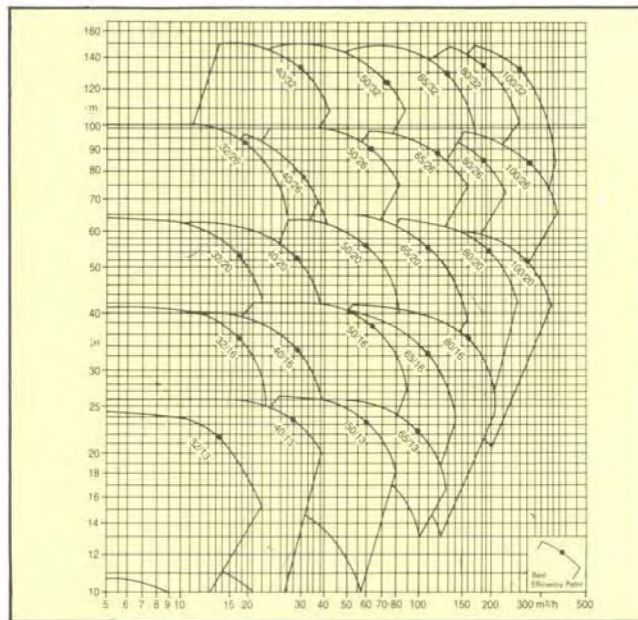
Material	IS	Equivalent International Standards	
		BS	ASTM
Cast Iron (CI) S.G. Iron (SGI)	IS 210 (1978) Gr. FG 260 IS 1865 (1974) Gr. SG 500/7	B.S. 1452 Gr. 250 B.S. 2789 SNG 500/7	ASTM-A 48 CL 35 ASTM-A 536 60-40-18 & 65-45-12
Austenitic Cast Iron (ACI)	IS 2749 Gr. AFG Ni 15 Cu 6 Cr. 3	B.S. 3468 AUS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



Family curve of CPHM Pump at 1450 rpm - 50 Hz



Family curve of CPHM Pump at 2900 rpm - 50 Hz



As we are constantly endeavouring to improve the performance of our products/equipment we reserve the right to make alterations from time to time and as such our products/equipment may differ from that detailed in this publication. For latest information you may get in touch with our Regional Sales Offices.