

KIRLOSKAR FIRE FIGHTING PUMPS AND SYSTEMS

Kirloskar

Enriching Lives



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KIRLOSKAR PUMPS AND SYSTEMS FOR FIRE FIGHTING

APPLICATIONS & ADVANTAGES

Kirloskar Fire Fighting pumps are extremely useful in Airports, Refineries, Oil terminal depots, L.P.G., Bottling plants, Off-shore platforms, Jetties, Factories, Office buildings, Godowns, Residential colonies, Ships, Oil terminals, Distilleries, Depots, Extraction plants, Fire works / Ball Briquettes manufacturing, tyre retreading and resoling factories and all such places which are prone to the hazards of fire.

Installations of these pumpsets would ensure the safety of human life, buildings and expensive plants and equipments. In addition, Insurance companies allow substantial rebate on insurance premium for installing the fire fighting equipments.

Kirloskar Vertical Turbine Pumps / Horizontal Split Case Pumps conform to Underwriters Laboratory Inc., USA - UL-448, NFPA-20, TAC guidelines and TAC requirements.

HIGHLIGHTS

PACKAGE

Pumps and prime movers conforming to 'TAC', NFPA-20 and UL
Supervision during commissioning of pumpsets.
Countrywide network for prompt pre-and-after-sales services.

OPTIONAL ACCESSORIES

Accessories, required to make the operation of Fire Fighting Pumpset fully automatic, are also available.

COMPACT INSTRUMENT PANEL

It includes pressure indicators for pump suction / delivery and temperature indicator for cooling water inlet/outlet.

PRESSURE SWITCHES

Suitable for installation in hydrant/sprinkler lines to maintain desired pressure automatically.

AUTO CONTROL PANEL

It provides sequential starts for engine starting at a signal from the pressure switch. Audio-visual alarms are included for engine failure to start, low lub oil pressure, high CW temperature, low fuel oil level and engine over-speeding. Only visual signals are available for engine running, battery condition and fuel oil level. Suitable for 230V single phase supply and includes battery charging kit. In Line with 'TAC' requirements, fuel oil tank suitable for six hours' operation and provision for engine cooling water supply from pump delivery itself are also available. ISO 9001 approvals for control panels as per NFPA-20 norms.

CUSTOMER REFERENCE LIST

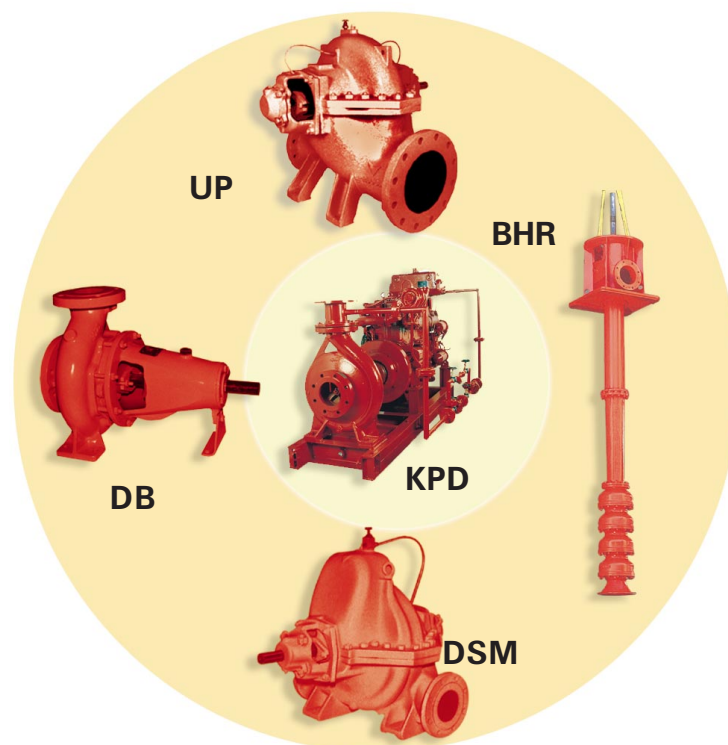
- Indian Oil Corporation, refineries, various depots / terminals and installations all over India.
- Bharat Petroleum Corporation, refineries, various depots / terminals and installations all over India.
- Hindustan Petroleum Corporation, refineries, various depots / terminals and installations all over India.
- Oil and Natural Gas Corporation, various offshore installations.
- Reliance Industries Limited, India
- Port Trust in India, Vizag Port Trust, Khadla Port Trust, Mumbai Port Trust, Kochin Port Trust etc.
- Chennai Petroleum Corporation Limited.
- Gas Authority of India Limited.

PRIME MOVERS AND CONTROLS FOR ENGINE DRIVEN

- Kirloskar / Cummins / Caterpillar / VOLVO Equivalent with accessories as per TAC / NFPA-20 requirements.
- Diesel Engine Control Panels as per TAC and NFPA-20 requirements.

FOR MOTOR DRIVEN

- BHEL/CGL/ABB/ALSTHOM/KEC/equivalent



VERTICAL TURBINE PUMPS

GENERAL

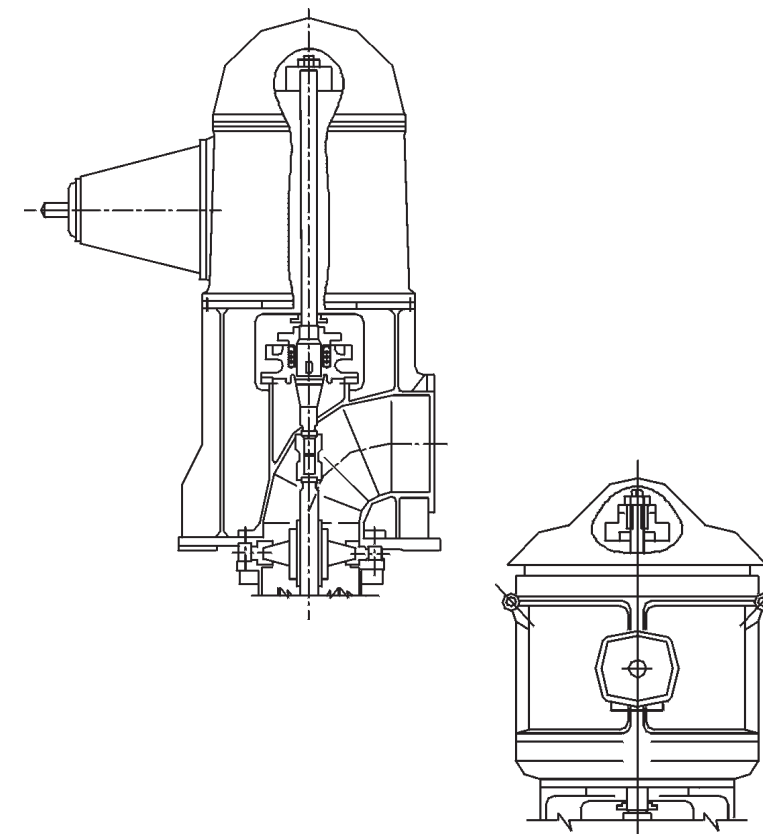
The vertical turbine type pump is intended for direct drive by use of electric motors or diesel engines with right angle gear box.

USE

The pumps are intended for fire service to supply water to automatic sprinklers and water spray systems, and are adaptable to situations where the source of water is located below the level of the ground, such as wells, sumps, rivers, lakes or sea.

DESCRIPTION

KIRLOSKAR Make Vertical Turbine Pump type BHR in CI, BR, SS (Bowl : Cast Iron, Impeller : Bronze, Impeller Shaft : Stainless Steel AISI-410) construction, Self water Lubricated, Open Line Shaft type, with delivery above ground level, with direct drive by use of electric motor or diesel engine with right angle gear box .



Sr. No.	Part Code No.	Description	Material
1.	216	Suction strainer	M.S. (Galvanised)
2.	211	Bell mouth	C.I. IS 210 Gr FG 200
3.	120	Pump bowl	C.I. IS 210Gr. FG 200
4.	153	Impeller	L.T. BR. IS : 318 LTB 2
5.	186	Impeller shaft	St. Steel ASTM A 276 410
6.	186	Intermediate shaft	C.S. IS 1570 Gr 40 C 8
7.	185	Head shaft	C.S. ISI 570 Gr. 40 C8
8.	290	Motor stool	M.S. IS 226 Gr. Fe 410s.

Note : Other special materials suitable for sea water / raw water handling are also available .

CROSS-SECTIONAL VIEW (TYPICAL)

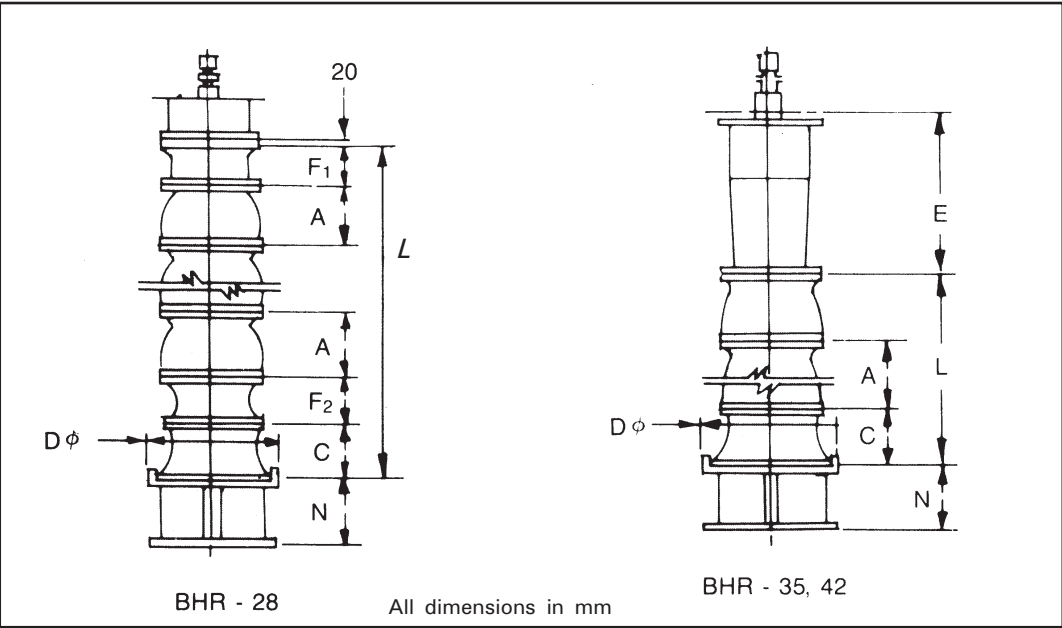
The following KIRLOSKAR make Vertical Turbine Pumps are listed by UL. USA with details of flow and head, pump model, speed, minimum submergence required as under :

Centrifugal Fire Pumps Vertical Turbine type

The following pumps are water lubricated open line shaft

Capacity		Model Designation	Rated Net Pressure Range		Approximate Speed.	Minimum Submergence	
USGPM	L/S		Meters H ₂ O	Psig		mm	in
750	47.32	BHR 28-18 Deg.	56-105	80-150	1500	550	21.7
1000	63.08	BHR 28-30 Deg.	56-95	80-135	1500	600	23.6
1250	78.85	BHR 35-18 Deg.	56-105	80-150	1500	500	19.7
1500	94.62	BHR 35-22½ Deg.	56-105	80-150	1500	550	21.7
2000	126.17	BHR 35-30 Deg.	56-95	80-135	1500	560	22.0
2500	157.70	BHR 42-18 Deg.	70-105	100-150	1500	650	25.6
3000	189.25	BHR 42-22½ Deg.	88-105	125-150	1500	720	28.3
3500	220.78	BHR 42-30 Deg.	88	125	1500	760	29.9

GENERAL DIMENSIONS
VERTICAL TURBINE PUMPS



Pump	A	C	D	E	F1	F2	N	L					
								1st	2nd	3rd	4th	5th	6th
BHR – 28	240	200	500	–	160	200	500	800	1040	1280	1520	1760	2000
BHR – 35	290	300	555	1000	–	–	610	590	880	1170	1460	–	–
BHR – 42	355	360	645	1000	–	–	725	715	1070	1425	–	–	–

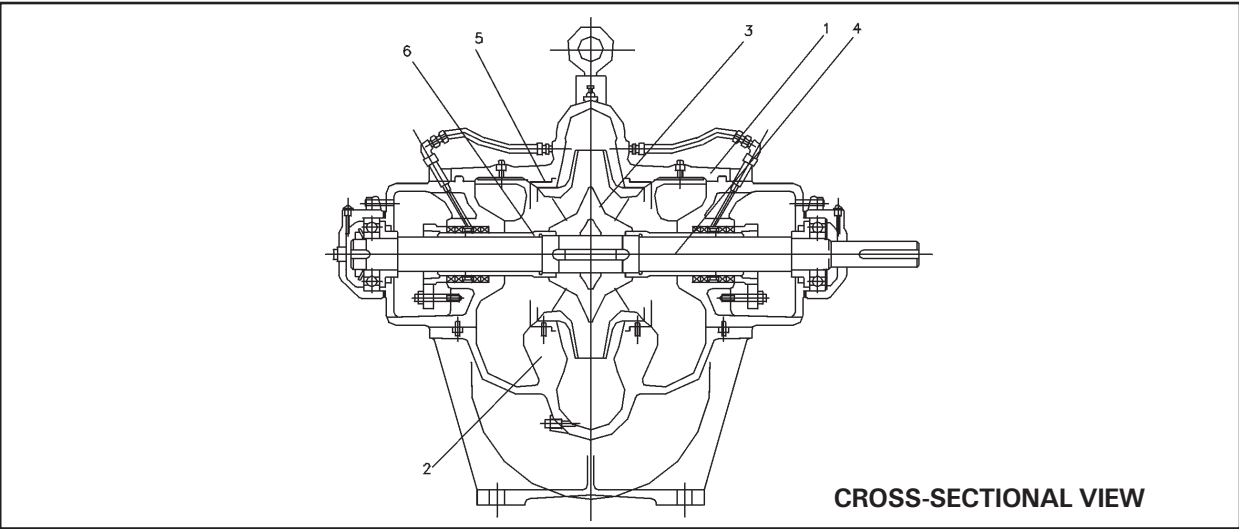
HORIZONTAL SPLIT CASE PUMPS

GENERAL

A sectional view of the pump model MSF is shown in cross sectional view.

DESCRIPTION

KIRLOSKAR make Horizontal Split Case Pump type MSF in CI, BR, SS construction with enclosed type Impeller.
(Casing : Cast Iron, Impeller : Bronze and Shaft : Stainless Steel AISI - 410)



USE

Each pump is intended for fire protection service to supply water to stand pipes, automatic sprinklers and water supply systems. Each pump shall be used only where a positive suction is provided as specified in NFPA 20.

Sr. No.	Part Code No.	Description	Material
1	122	UPPER HALF CASING	CI IS:210FG 260
2	123	LOWER HALF CASING	CI IS:210GRFG 260
3	159	IMPELLER	BR IS:318 LTB 2
4	180	PUMP SHAFT	ST.ST. ASTM-A 582-416 OR EQ
5	190	WEARING RING	BR BS 1400 LB2
6	310	SHAFT SLEEVE	BR IS 318 LTB 2

The following KIRLOSKAR Make Horizontal Split Case Pumps are listed/approved by UL, USA with details of model, flow, head, speed as under :

Centrifugal Fire Pumps-Split Case, consisting of the following models, capacities, rated pressures and speeds : (UL Listed)

Size		Model Designation	Rated Capacity		Rated Net Head		Approximate Speed. RPM	Maximum Working Pressure	
mm	In.		L/s.	*GPM	M, H ₂ O	Psig		Kg/cm ²	Psig
80x50	3x2	MSF 50/38	9.5	150	523-65.6	74-93	1750	14.06	200
80x50	3x2	MSF 50/38	12.6	200	51-64.5	72-92	1750	14.06	200
80x50	3X2	MSF 50/38	15.8	250	49.5-63	70-90	1750	14.06	200
80x50	3X2	MSF 50/38	9.5	150	55.5-70.5	79-100	1800	14.06	200
80x50	3X2	MSF 50/38	12.6	200	54.1-69.3	77-98	1800	14.06	200
80x50	3X2	MSF 50/38	15.8	250	53-67.5	75-96	1800	14.06	200
100X80	4X3	MSF 80/38	12.6	200	56-73	80-104	1750	14.06	200
100X80	4X3	MSF 80/38	15.8	250	54-72	77-102	1750	14.06	200
100X80	4X3	MSF 80/38	18.9	300	52.5-70	75-99	1750	14.06	200
100X80	4X3	MSF 80/38	25.2	400	49-67	70-95	1750	14.06	200
100X80	4X3	MSF 80/38	28.4	450	27-64.5	67-92	1750	14.06	200
100X80	4X3	MSF 80/38	15.8	250	58-75.5	82-107	1800	14.06	200
100X80	4X3	MSF 80/38	18.9	300	56-74	80-105	1800	14.06	200
100X80	4X3	MSF 80/38	25.2	400	52.5-71	75-101	1800	14.06	200
100X80	4X3	MSF 80/38	28.4	450	50-69	71-98	1800	14.06	200

*USGPM

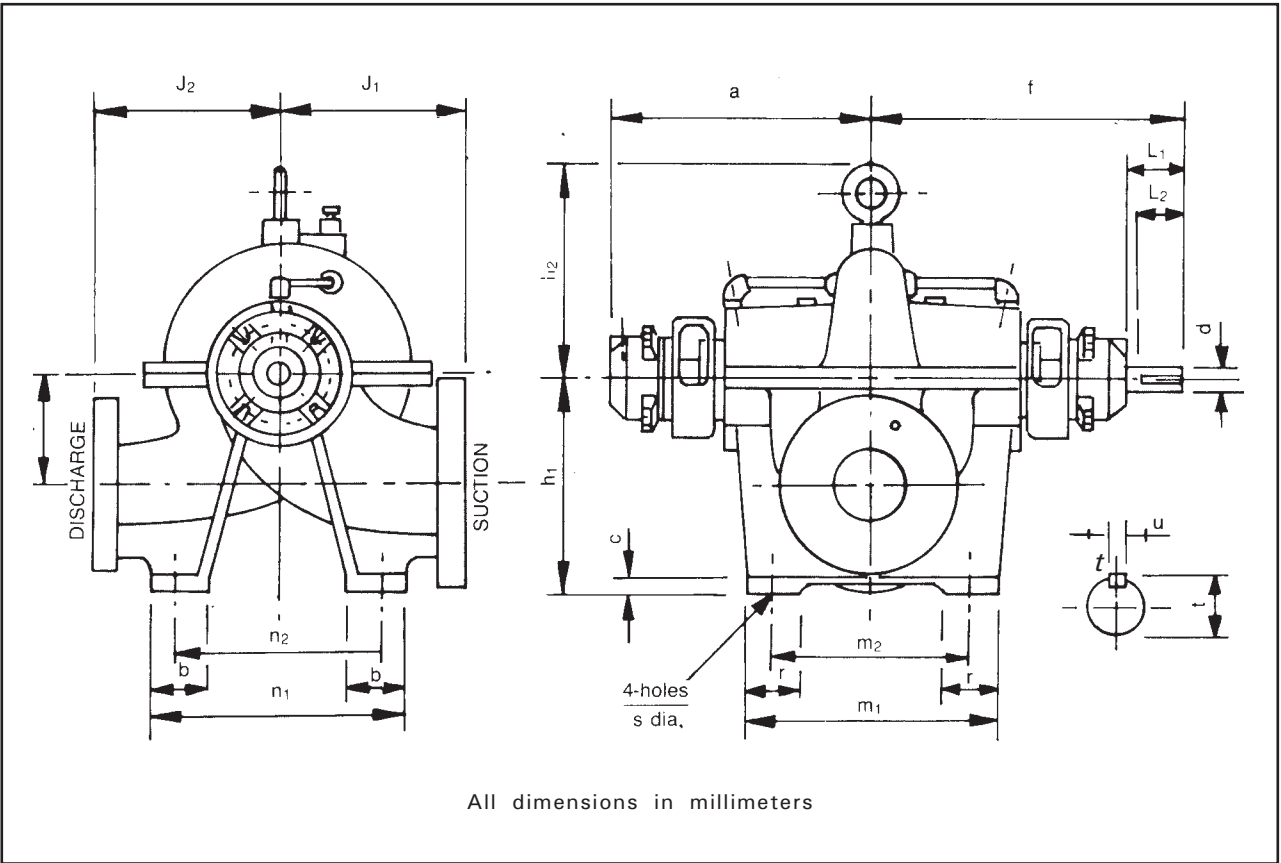


Centrifugal Fire Pumps-Split Case, consisting of the following models, capacities, rated pressures and speeds : (UL Listed)

Size		Model Designation	Rated Capacity		Approximate Rated Net Head		Maximum Working Speed.		Pressure
mm	In.		L/s.	*GPM	M, H ₂ O	Psig	RPM	Kg/cm ²	Psig
125X100	5x4	MSF 100/38	31.5	500	51-56.5	72-80	1750	14.06	200
125X100	5X4	MSF 100/38	31.5	500	54.5-60	77-85	1800	14.06	200
150X25	6X5	MSF 125/38	28.4	450	59-70	84-99	1750	14.06	200
150X125	6X5	MSF 125/38	31.5	500	58-69.5	82-99	1750	14.06	200
150X125	6X5	MSF 125/38	47.3	750	56-67	80-95	1750	14.06	200
150X125	6X5	MSF 125/38	31.5	500	61.5-73.5	87-104	1800	14.06	200
150X125	6X5	MSF 125/38	47.3	750	60-71	85-101	1800	14.06	200
200X150	8X6	MSF 150/38	63.1	1000	56.3-71.5	80-102	1800	14.06	200
200X150	8X6	MSF 150/38	78.9	1250	55-70	78-99	1800	14.06	200
200X150	8X6	MSF 150/48	47.3	750	53.5-79.5	76-113	1500	14.06	200
200X150	8X6	MSF 150/48	63.1	1000	52-79	74-112	1500	14.06	200
200X150	8X6	MSF 150/48	78.9	1250	50-77.5	71-110	1500	14.06	200
200X150	8X6	MSF 150/48	63.1	1000	71.5-106.5	102-151	1750	14.06	200
200X150	8X6	MSF 150/48	78.9	1250	69.5-106	99-151	1750	14.06	200
200X150	8X6	MSF 150/48	94.6	1500	67.5-104.5	96-148	1750	14.06	200
200X150	8X6	MSF 150/48	63.1	1000	75.5-112.5	107-160	1800	14.06	200
200X150	8X6	MSF 150/48	78.9	1250	74-112	105-159	1800	14.06	200
200X150	8X6	MSF 150/48	94.6	1500	71.5-110.5	102-157	1800	14.06	200
250X200	10X8	MSF 200/30	63.1	1000	55.7-56.7	79-81	1750	14.06	200
250X200	10X8	MSF 200/30	78.9	1250	54.5-55.5	77-79	1750	14.06	200
250X200	10X8	MSF 200/30	94.6	1500	56.5-58	80-82	1800	14.06	200
250X200	10X8	MSF 200/30	126.2	2000	53.5-55.5	76-79	1800	14.06	200
250X200	10X8	MSF 200/38	126.2	2000	55.3-62	79-88	1750	14.06	200
250X200	10X8	MSF 200/38	157.7	2500	50.7-58	72-82	1750	14.06	200
250X200	10X8	MSF 200/38	94.6	1500	62.7-70	88-99	1800	14.06	200
250X200	10X8	MSF 200/38	157.7	2500	54.5-62.5	77-89	1800	14.06	200
250X200	10X8	MSF 200/48	94.6	1500	50-79	71-112	1500	14.06	200
250X200	10X8	MSF 200/48	126.2	2000	49-77.6	70-110	1500	14.06	200
250X200	10X8	MSF 200/48	94.6	1500	69.5-108	99-153	1750	14.06	200
250X200	10X8	MSF 200/48	126.2	2000	66.5-107	94-152	1750	14.06	200
250X200	10X8	MSF 200/48	157.7	2500	62.5-105	89-149	1750	14.06	200
250X200	10X8	MSF 200/48	94.6	1500	73.5-114.7	104-163	1800	14.06	200
250X200	10X8	MSF 200/48	126.2	2000	71-113	101-161	1800	14.06	200
250X200	10X8	MSF 200/48	157.7	2500	67-111.2	95-158	1800	14.06	200
300X250	12X10	MSF 250/38	126.2	2000	55.7-73.7	79-105	1750	14.06	200
300X250	12X10	MSF 250/38	157.7	2500	54-72.3	77-103	1750	14.06	200
300X250	12X10	MSF 250/38	189.3	3000	51.3-72.4	73-99	1750	14.06	200
300X250	12X10	MSF 250/38	157.7	2500	57-76	81-108	1800	14.06	200
300X250	12X10	MSF 250/38	189.3	3000	54.5-74	77-105	1800	14.06	200

*USGPM

GENERAL DIMENSIONS
HORIZONTAL SPLIT CASE PUMPS - TYPE SCT



Pump Type SCT	Size		Module No	a	f	h1	h2	J1	J2	v	m1	m2	n1	n2	b	c	r	s	t	u	d-to1	L1	L2
	SUC.	DISCH.																					
200/30	250	200	2	445	545	540	382	450	385	285	500	440	510	450	75	25	75	22	45	12	42-K6	102	89
250/30	250	250	2	445	545	540	390	430	400	250	500	440	510	450	75	25	75	22	45	12	42-K6	102	89
50/38	80	50	1	331.5	398.5	300	342	355	280	170	330	270	400	340	65	25	65	22	28	8	25-j6	71	63.5
80/38	100	80	1	380	398.5	320	325	340	350	175	330	270	400	340	65	25	65	22	28	8	25-j6	71	63.5
100/38	125	100	2	402	500	340	346	340	350	190	330	270	450	390	75	25	75	22	45	12	42-k6	102	89
125/38	150	125	2	402	500	390	380	400	350	210	330	270	450	390	75	25	75	22	45	12	42-k6	102	89
150/38	200	150	2	402	500	440	375	410	350	210	420	360	400	340	75	25	75	22	45	12	42k6	102	89
200/38	250	200	3	461	585	460	410	480	420	225	420	350	510	440	90	28	90	27	59	16	55-m6	127	102
250/38	300	250	3	461	585	540	470	590	420	265	500	430	600	490	110	28	90	27	59	16	55-m6	127	102
150/48	200	150	3	461	585	540	450	510	450	270	460	390	600	490	110	28	90	27	59	16	55-m6	127	102
200/48	250	200	3	461	585	540	445	550	450	270	500	430	600	490	110	28	90	27	59	16	55-m6	127	102



KIRLOSKAR VERTICAL TURBINE PUMPS CONFORMING TO TAC NORMS

TAC DUTY POINT			
FLOW m ³ /hr	HEAD mwc	SPEED rpm	PUMP MODEL
171	70	1450 1500	BHR-28, BHR 3
171	88	1450 1500	BHR-28, BHR 3
273	70	1450 1500	BHR-28, BHR 3
273	88	1450 1500	BHR-28, BHR 3
410	70	1450 1500	BHR 35, BHR 5
410	88	1450 1500	BHR 35, BHR 5
410	105	1450 1500	BHR 42, BHR 7
616	88	1450 1500	BHR 42, BHR 7
616	105	1450 1500	BHR 42, BHR 7

KIRLOSKAR HORIZONTAL END SUCTION PUMPS CONFORMING TO TAC NORMS

TAC DUTY POINT				
SIZE SUC X DEL	FLOW m ³ /hr	HEAD mwc	SPEED rpm	PUMP MODEL
125 X 100	97	56	1450	DB 100/40
125 X 100			1450	CPHM 100/40
125 X 100			1500	DB 100/40
125 X 100			1500	CPHM 100/40
125 X 100			1800	DB 100/32
150 X 125			1800	CPHM 100/32
125 X 100			1800	DB 100/40
125 X 100			1800	CPHM 100/40
80 X 65			2900	DB 65/20
100 X 65			2900	CPHM 65/20
125 X 100	137	70	1800	DB 100/40
125 X 100			1800	CPHM 100/40
100 X 80			2900	DB 80/26
125 X 100	171	70	1800	DB 100/40
125 X 100			1800	CPHM 100/40
150 X 125			1800	DB 125/40
150 X 125			1800	CPHM 125/40
125 X 100			2900	DB 100/26
125 X 100			2900	CPHM 100/26
150 X 125			2900	CPHM 125/26
150 X 125	171	88	1800	DB 125/40
125 X 100			2000	CPHM 100/40
125 X 100			2900	DB 100/26
125 X 100			2900	CPHM 100/26
150 X 125	273	70	1800	DB 125/40
150 X 125			1800	CPHM 125/40
200 X 150			1900	DBHS 150/40
200 X 150			2000	DBHS 150/40
150 X 125			2900	CPHM 125/26

KIRLOSKAR HORIZONTAL END SUCTION PUMPS CONFORMING TO TAC NORMS

TAC DUTY POINT				
SIZE SUC X DEL	FLOW m ³ /hr	HEAD mwc	SPEED rpm	PUMP MODEL
200 X 150	273	88	1800	DB 150/40
150 X 125			1900	DBHS 125/40
150 X 125			1900	CPHM 125/40
200 X 150			2100	DBHS 150/40
150 X 125			2900	CPHM 125/26 (Unit-11)
200 X 150	410	70	1800	DB 150/40
200 X 150			1800	CPHM 150/40
200 X 150	410	88	1900	DBHS150/40
200 X 150			2100	DBHS 150/40
200 X 150	410	105	2100	DBHS 150/40
125 X 100	97	56	1450	DB 100/40
125 X 100			1450	CPHM 100/40
125 X 100			1500	DB 100/40
125 X 100			1500	CPHM 100/40
125 X 100			1800	DB 100/32
150 X 125			1800	CPHM 100/32
125 X 100			1800	DB 100/40
125 X 100			1800	CPHM 100/40
80 X 65			2900	DB 65/20
100 X 65			2900	CPHM 65/20
125 X 100	137	70	1800	DB 100/40
125 X 100			1800	CPHM 100/40
100 X 80			2900	DB 80/26
125 X 100	171	70	1800	DB 100/40
125 X 100			1800	CPHM 100/40
150 X 125			1800	DB 125/40
150 X 125			1800	CPHM 125/40
125 X 100			2900	DB 100/26
125 X 100			2900	CPHM 100/26
150 X 125	171	88	2900	CPHM 125/26
150 X 125			1800	DB 125/40
125 X 100			2000	CPHM 100/40
125 X 100			2900	DB 100/26
125 X 100			2900	CPHM 100/26
150 X 125	273	70	1800	DB 125/40
150 X 125			1800	CPHM 125/40
200 X 150			1900	DBHS 150/40
200 X 150			2000	DBHS 150/40
150 X 125			2900	CPHM 125/26
200 X 150	410	70	1800	DB 150/40
200 X 150			1800	CPHM 150/40
200 X 150	410	88	1900	DBHS150/40
200 X 150			2100	DBHS 150/40
200 X 150	410	105	2100	DBHS 150/40

KIRLOSKAR HORIZONTAL SPLIT CASING PUMPS CONFORMING TO TAC NORMS

TAC DUTY POINT				
SIZE SUC x DEL	FLOW m ³ /hr	HEAD mwc	SPEED rpm	PUMP MODEL
125 X 100 125 X 100 150 X 100 200 X 150	97	56	1450 1500 1800 1800	DSM4RM DSM4RM 4UP3 DSM6-15Deg.
150 X 125 125 X 100 150 X 125 125 X 100 100 X 80			1450 1450 1500 1500 2900	DSM5B DSM100/36 DSM5B DSM100/36 SCT80/24
200 X 150 150 X 125 150 X 125 125 X 100 200 X 150 150 X 125 150 X 125 125 X 100 150 X 125	171	70	1450 1450 1450 1450 1500 1500 1500 1500 1800	6UP4 DSM5BF DSM125/40 DSM100/36 6UP4 DSM5BF DSM125/40 DSM100/36 DSM5BF
125 X 100 150 X 125 125 X 100 150 X 125			1450 1450 1500 1500	DSM100/36 DSM125/40 DSM100/36 DSM125/40
200 X 150 200 X 150 200 X 150 200 X 150 200 X 150 200 X 150 200 X 150 200 X 150 200 X 150 150 X 100			1450 1450 1450 1450 1500 1500 1500 1900 1900 2000	6UP4 UP150/45 DSM6 SCT150/48 6UP4 UP150/45 DSM6 SCT150/48 6UP4 UP150/45 UP100/38
200 X 150 200 X 150 200 X 150 200 X150 200 X 150 200 X 150 200 X 150 200 X 150 200 X150 200 X 150 200 X 150 150 X 100 150 X 125			1450 1450 1450 1450 1500 1500 1500 1500 1500 1600 1800 2100 2100	6UP4FB DSM6-15Deg. UP150/45 DSM150/46 6UP4FB DSM6-15Deg. UP150/45 DSM150/46 6UP4 6UP4 UP100/38 SCT125/38
200 X 150	410	70	1450	6UP4F

KIRLOSKAR HORIZONTAL SPLIT CASING PUMPS CONFORMING TO TAC NORMS

TAC DUTY POINT				
SIZE SUC x DEL	FLOW m ³ /hr	HEAD mwc	SPEED rpm	PUMP MODEL
200 X 150 200 X 150 200 X 150	410	70	1500 2100 2100	6UP4F UP150/38BC UP150/45BC
200 X 150 200 X 150 250 X 200 250 X 200 200 X 150 200 X 150 250 X 200 250 X 200 200 X 150 200 X 150 200 X 150 200 X 150			1450 1450 1450 1450 1500 1500 1500 1500 1800 1800 1900 2100 2100 2100 2200	6UP4FL UP150/53 8UPH4 8UPH4M1 6UP4FL UP150/53 8UPH4 8UPH4M1 6UP4 6UP4F SCT150/48 UP150/38BC SCT150/38 SCT150/48 UP150/38A
250 X 200 250 X 200 250 X 200 250 X 200 200 X 150 200 X 150 200 X 150 200 X 150 200 X 150	410	105	1450 1450 1500 1500 1800 1800 2100 1800 2100	8UPH4 8UPH5 8UPH4M1 8UPH5 6UP4F 6UP4 UP150/38BC SCT150/48
250 X 200 250 X 200 250 X 200			1450 1500 2100	SCT200/48 SCT200/48 UP200/42
250 X 200 250 X 200 250 X 200 250 X 200 250 X 200 250 X 200 250 X 200 250 X 200 250 X 200			1450 1450 1450 1500 1500 1500 1800 2100	8UPH4M1 SCT200/38 SCT200/48 8UPH5 SCT200/38 SCT200/48 SCT200/48 UP200/42
250 X 200 250 X 200 250 X 200 250 X 200 250 X 200			1450 1500 1800 2100 2100	8UPH5 8UPH5 SCT200/48 UP200/42 SCT200/48

- NOTES:
- Above indicated duties and models are based on TAC requirements, the duties will be achieved with required number of stages and angle of impeller vanes as per KBL’s design.
 - We have a large range of pumps which can be offered for any combination of capacity and head based on system requirements.

KIRLOSKAR - HIGH CAPACITY, PORTABLE, LIGHT WEIGHT, FIRE FIGHTING PUMPS - TYPE KPF -1600

The Kirloskar KPF-1600 is a self-contained petrol-engined unit designed for continuous operation at the rated output. It is capable of runinnng at rated performance immediately after starting from cold.

PERFORMANCE

Rated performance is of 1600 lpm at 7kg/ cm², while working on 3m static suction lift, at NTP conditions. Maximum discharge exceeds upto 2000 lpm and maximum pressure upto 14kg/cm².

PRIMING

The proven exhaust gas ejector primer can lift water from a depth of 7.0 m in 30 sec., at NTP conditions.

APPLICATION

Fire Brigades, Civil Defence, Godowns, Industries, Ports, Underwater services, Building Mines etc.

CONSTRUCTIONAL FEATURES PUMP

A single stage centrifugal pump is directly coupled to the engine and driven through a flexible coupling.

Material

The pump end is made of lightweight corrosion- resistant aluminium alloy and impeller is hard anodised for better wear resistant. Alternatively, the pump end can be offered in bronze construction.

Shaft Sealing

A long life self- adjusting mechanical seal is fitted, which consists of a carbon ring rubbing on a stainless steel face.

Delivery and Suction Connections

The pump has two delivery outlets of 2½”Ø with instantaneous couplings and stainless steel screw down valves. The suction is a 4”Ø round threaded tube with a blank cap.

ENGINE

The pump is powered by a four cylinder, four stroke water cooled 988cc engine. The engine is fully enclosed with no open or unprotected moving parts.

Power

The engine is adequately powered, with 37.3KW (50 HP) power output.

Cooling

A closed circuit cooling system utilizes a heat exchanger of adequate capacity to maintain the correct engine temperatures. Due to this arrangement, the set is capable of running even at high ambient temperatures as high as +65°C

Fuel Tank

A stainless steel fuel tank of 13.6 litres capacity, adequate to allow pumping at the rated output for one hour continuous rated running. The empty fuel tank can be replaced with a fresh full tank, without stopping the engine, thereby permitting continuous operation for an indefinite period.

Starting

An ignition switch and a push - button electronic starting device is provided with a fully protected high efficiency alternator. A standby auxiliary hand recoil starter is also provided for emergencies.

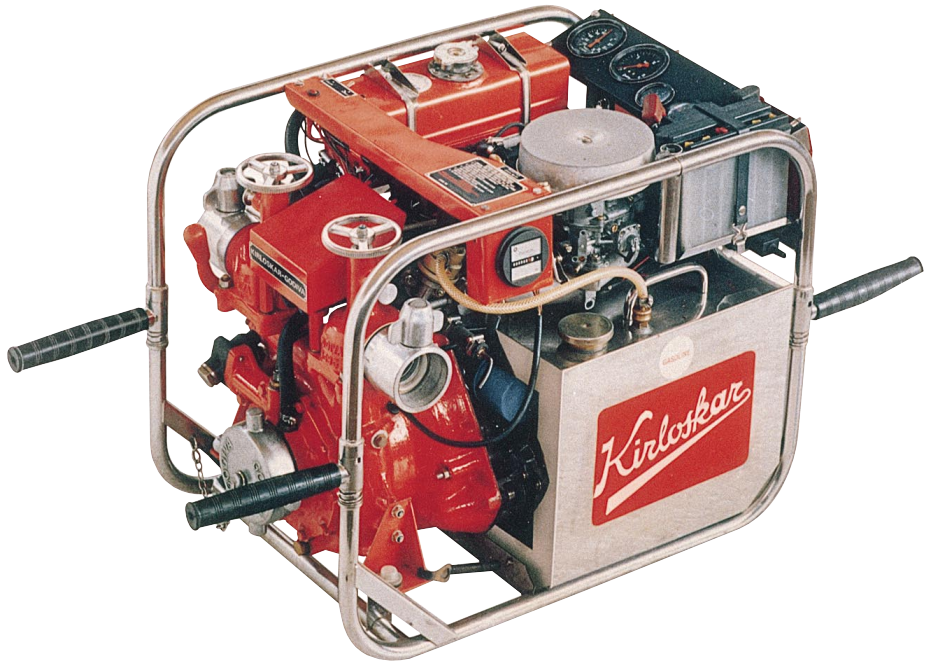
DIMENSIONS AND WEIGHT

The overall size of the whole unit, not the frame size only, measures :
766 (L) mm X 501 (W) mm X 605 (H) mm
Dry Weight : 125 kg for standard aluminium alloy construction set, and 160 kg for bronze metal construction set.

(Note : The above weights include the electrical starting system with battery and the back-up hand starting device).

APPROVALS AND REGISTRATIONS

- a) The set generally conforms to IS : 12717/1989
- b) Tested by Bureau Veritas
- c) Tested by Lloyds
- d) Registered with CQAFE
- e) Tested by IRS



KIRLOSKAR VEHICLE MOUNTED FIRE PUMP - KVM 2270 F

RANGE

PERFORMANCE

- 2270 lpm at 7 kg /cm² - 2450 rpm at 55 hp [Suc.dia.100 mm . (4”)]
- (Optional) 3300 lpm at 7 kg / cm² - 2800 rpm at 90 hp [Suc. dia.140mm (5½”)]at 3m static suction lift (NTP condition)

PRIMING

Priming is effected by means of automatic water ring primer. The pump can prime water from a depth of 7.0 m in 30 seconds through four lengths of suction hose 2.5 m long, 100 mm dia (at NTP conditions)

CONSTRUCTIONAL FEATURES

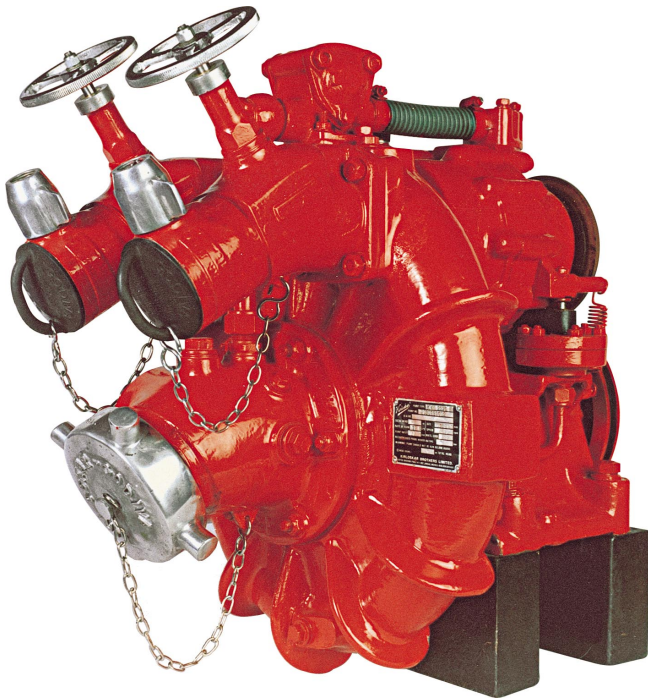
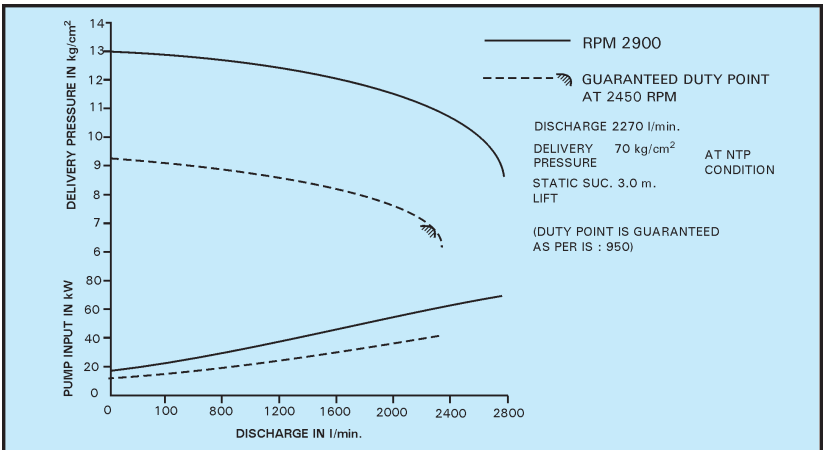
- Proven design.
- Robust construction.

- Choice of 2,3 & 4 delivery outlets and can be offered in aluminium alloy and bronze material of construction for normal water or saline water.
- Compatible with available chassis in India.
- Easy availability / interchangeability of spare parts
- Nationwide sales and after-sales service network

PUMP

- The water pump is single stage centrifugal pump, coupled to an engine through a power takeoff unit. The pump body is made of aluminium alloy and the impeller is hard anodised. Alternatively, the pump can be supplied with bronze body, impeller and in all bronze construction.
- The pump has the following connections (for std 2270 Imp at 7 kg /cm²)
1No- 100 mm (4”)dia. round threaded suction with blank cap.
2 Nos -65 mm (2½”) dia. instantaneous coupling with screw - down valves.

Performance Curve of KVM 2270 of Pump



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