kirloskar
Oil Engines

INDUSTRIAL PUMPS

INDUSTRIAL PUMPING SOLUTIONS

Kirloskar
Oil Engines

A RICH TRADITION OF ENGINEERING EXCELLENCE

Incorporated in 1946, KOEL is the flagship company of the Kirloskar group. We have four state-of-the-art manufacturing units in India that offer world-class products & service. The company has a sizable presence in international markets, with offices in Dubai, South Africa, Kenya & the United States with representatives in Indonesia and Nigeria.

KOEL also has a strong distribution network throughout the Middle East and Africa.

Today KOEL is an acknowledged leader in the manufacturing off highway diesel engines, agricultural pumpsets, power tillers and generating sets.

We're an international manufacturing conglomerate with offices and deliveries across multiple continents. With a vast product line that includes energy efficient compressors and various kinds of heavy-duty pumps, the Kirloskar group has built a worldwide reputation for reliability, professionalism and innovation.

INDUSTRIAL MONOBLOCK PUMP

Kirloskar Oil Engines

TECHNICAL SPECIFICATIONS

Head range	:	Upto 34 meters
Discharge range	:	Upto 14 LPS
Power ratings	:	0.5 to 2.0 HP
Voltage range	:	300 to 440 Volts
Phase	:	Three phase
Insulation	:	F Class
Protection	:	IP 55
RPM	:	2900
Freq	:	50Hz

MATERIALS OF CONSTRUCTION

Impeller	:	Cast iron
Delivery casing	:	Cast iron
Motor body	:	Cast iron
Pump shaft	:	Hard crome plated carbon steel
Sealing	:	Mechanical seal

APPLICATIONS

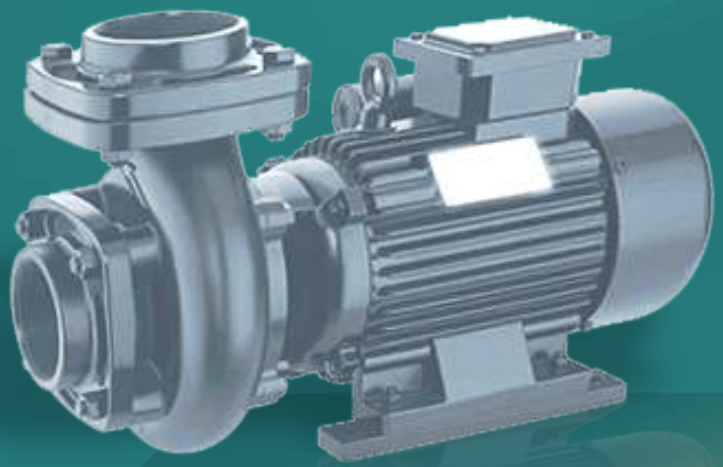
- Fire fighting systems
- Cooling towers
- Air conditioning and refrigeration systems
- Irrigation in horticulture & agriculture
- Clear water handling at high pressure in industries

Industrial Sector

Domestic Sector

Civil Sector

Clean Water Handling



FEATURES

- High temperature mechanical seal 120 ° c
- F' class insulation. Better winding protection upto 150° c
- V.P.I. Treated winding (Vacuum pressure impregnation)
- All models are with cast iron impeller
- Wide voltage range from 300 to 440 v
- Hard crome plated shaft for rust prevention

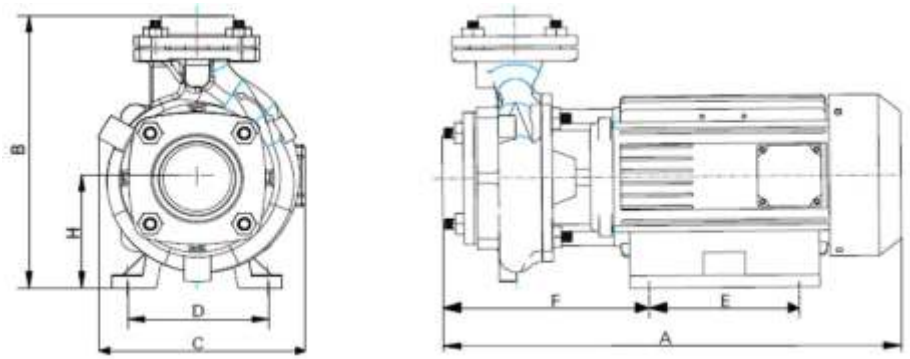
INDUSTRIAL MONOBLOCK PUMP

SMB 05-310 - SMB - Kirloskar Small Monoblock | 05 - 0.5 HP | 3 - 3 Phase | 10 - Head in meter

Kirloskar Oil Engines

Sr. No.	Pump Model No.	KOEL Part No.	Power Rating	Pipe Size		Total Head in Meters																									
						3	6	8	9	10	12	14	15	16	18	20	21	22	24	25	26	28	30	32	34	38	40	42	50	54	58
			HP	SUC	DEL	Discharge in Liters Per Second																									
1	SMB 0.5-310	IMB.5040.05.310.MS	0.5	50	40	-	5	4.5	-	3.8	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	SMB 1-312	IMB.5050.01.312.MS	1	50	50	-	7	6.8	-	6.4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	SMB 1-318	IMB.5040.01.318.MS	1	50	40	-	5.8	5.5	-	5.2	4.7	4.4	-	3.7	3.2	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	SMB 1-334	IMB.2525.01.334.MS	1	25	25	-	-	-	-	-	-	-	-	1.7	1.6	1.5	-	1.4	1.2	-	1	0.9	0.7	-	-	-	-	-	-	-	-	-
5	SMB 1.5-316	IMB.6550.15.316.MS	1.5	65	50	-	-	8.3	-	7.5	6.5	5	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	SMB 1.5-322	IMB.5040.15.322.MS	1.5	50	40	-	-	6.5	-	6.2	5.7	5.1	-	4.6	4	3.2	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	SMB 2-314	IMB.8080.02.314.MS	2	80	80	-	14.3	12.5	-	10.9	9	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	SMB 2-316	IMB.8065.02.316.MS	2	80	65	-	-	12.5	-	10.9	9	6.9	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	SMB 2-325	IMB.5040.02.325.MS	2	50	40	-	-	7.1	-	6.9	6.4	6.1	-	5.4	5	4.5	-	3.7	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-
10	SMB 2-335	IMB.5040.02.335.MS	2	50	40	-	-	-	-	5.8	5.7	5.6	-	5.6	5.5	5.4	-	5.2	4.6	-	4	3.3	2.5	-	-	-	-	-	-	-	-	-
11	SMB 3C	IMB.2525.05.3.3C	0.5	25	25	-	0.88	-	0.79	0.77	0.71	0.64	0.61	-	0.52	0.46	0.42	0.40	0.34	0.3	0.28	0.2	-	-	-	-	-	-	-	-	-	-
12	SMB 5C	IMB.2525.01.3.5C	1	25	25	-	-	-	-	0.81	0.81	0.8	-	-	0.78	0.77	-	0.75	0.73	-	0.7	0.66	0.61	0.55	0.5	0.42	0.38	0.34	0.14	-	-	-

Overall Pump Dimensions (GAD)



KIRLOSKAR Centrifugal Monoblock Pump 3 Phase SMB Series - GA Drawing									
KOEL Model	Pump Code	HP	A	B	C	D	E	F	H
SMB 0.5-310	IMB.5040.05.310.MS	0.5	310	220	150	105	82	155	80
SMB 1.0-312	IMB.5050.01.312.MS	1.0	375	260	195	112	100	195	102
SMB 1.0-318	IMB.5040.01.318.MS	1.0	375	260	195	112	100	195	102
SMB 1.0-334	IMB.2525.01.334.MS	1.0	360	250	200	112	100	170	102
SMB 1.5-316	IMB.6550.15.316.MS	1.5	380	270	200	112	100	180	102
SMB 1.5-322	IMB.5040.15.322.MS	1.5	380	270	200	112	100	180	102
SMB 2.0-314	IMB.8080.02.314.MS	2.0	480	305	215	160	100	215	102
SMB 2.0-316	IMB.8065.02.316.MS	2.0	480	305	215	160	100	215	128
SMB 2.0-325	IMB.5040.02.325.MS	2.0	460	305	220	160	100	220	128
SMB 2.0-335	IMB.5040.02.335.MS	2.0	460	310	220	160	100	220	128

INDUSTRIAL MONOBLOCK PUMP

Kirloskar Oil Engines

TECHNICAL SPECIFICATIONS

Head range	: Upto 78 Mtrs.
Discharge range	: Upto 2394 LPM
Power ratings	: 3 to 20 HP
Voltage range	: 350 to 440 Volts
Phase	: Three Phase
Insulation	: F class
Protection	: IP 55
Rpm	: 2900

Also Available in 60Hz

MATERIALS OF CONSTRUCTION

Impeller	: Cast iron / Bronze/SS304
Delivery casing	: Cast iron
Motor body	: Cast iron
Pump shaft	: Steel with SS304 sleeve steel
Sealing	: Gland seal / Mechanical seal

APPLICATIONS

- Fire fighting systems
- Cooling towers
- Air conditioning and refrigeration systems
- Irrigation in horticulture & agriculture
- Clear water handling at high pressure in industries

Industrial Sector | Domestic Sector | Civil Sector

Clean Water Handling

FEATURES

- High efficiency - Capable of running in various conditions with minimum variation in the efficiency
- Wide voltage range
- User friendly design
- Overload protection
- Ease of spare replacement
- Premium quality bearing
- Dynamically balanced parts
- Minimum manual intervention

INDUSTRIAL MONOBLOCK PUMP

Kirloskar Oil Engines

KMB 3-325M - KMB - Kirloskar Monoblock | 3 - HP | 3 - 3 Phase | 25 - Head in meter | M -Mech. Seal
IMB.6550.03.3.MS - IMB - Industrial Monoblock | 6550 - Pipe size SUC X DEL | 03 - HP | 3 - Phase | MS -Mech. Seal

Sr. No.	Pump Model. No.	KOEL Part No.	Power Rating	Pipe Size		Total Head in Meters																	
						10	12	14	16	18	20	22	24	26	28	30	32	34	36	40	42	44	48	50
			HP	SUC	DEL	Discharge in Liters Per Second																		
1	KMB 3-325M	IMB.6550.03.3.MS	3	65	50	11	9.7	9.4	9	8.2	7.2	6.5	5.5	3.5	-	-	-	-	-	-	-	-	-	-
2	KMB 3-335M	IMB.5040.03.3.MS	3	50	40	-	-	-		8.3	6.7	6	6.4	5.8	5.5	4.6	3.5	-	-	-	-	-	-	-
3	KMB 5-327M	IMB.8065.05.3.MS	5	80	65	-	-	17	17.5	16	14.3	13	11.1	7.5	5.8	-	-	-	-	-	-	-	-	-
4	KMB 5-338M	IMB.6550.05.3.MS	5	65	50	-	-	-	-	10.4	10	9.1	8.7	8.2	7.8	7.3	6.4	6	4.8	-	-	-	-	-
5	KMB 5-320M	IMB.1010.05.3.MS	5	100	100	24.8	22.9	21	19	14.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	KMB 8-344M	IMB.6565.75.3.MS	7.5	65	65	-	-	-	-	17.2	17	16.8	16.6	16	15.1	14.9	14.6	13.9	12.4	10.2	8.3			
7	KMB 8-352M	IMB.6550.75.3.MS	7.5	65	50	-	-	12.5	12.2	12	11.6	11.2	11	10.8	10.5	10	9.2	8.8	8.8	8.7	8.7	8.3	6.6	4.3
8	KMB 8-330M	IMB.8065.75.3.MS	7.5	80	65		-	-	-	-	22.4	18.8	18.6	17.9	16.5	14.6	-	-	-	-	-	-	-	-
9	KMB 8-322M	IMB.1010.75.03.MS	7.5	100	100	28.9	27	25.3	23.5	22.1	21	17.8	15	-	-	-	-	-	-	-	-	-	-	-
10	KMB 10-330M	IMB.1010.10.03.MS	10	100	100		32.9	31.5	30	28.6	27.5	26.3	25	22.8	21.1	19.7	15.4	11	-	-	-	-	-	-
11	KMB 10-340M	IMB.8065.10.3.MS	10	80	65	23.3	22.7	22.2	22	21.6	21.3	21	20.7	20.3	19.8	19.6	19.4	19.2	19.1	18.1	15.8	13.4	-	-
12	KMB 13-348M	IMB.8065.12.3.MS	12.5	80	65	-	23.2	22.5	20	24.5	21	20.7	20.5	20.3	20.2	20.1	20	19.9	19.8	19.6	18.8	18.7	17	-
13	KMB 15-337M	IMB.1010.15.3.MS	15	100	100	-	-	-	38	37	36.5	36	35	34.5	30	31.3	26.5	24	20	13	12.3	-	-	-
14	KMB 15-355M	IMB.8065.15.3.MS	15	80	65	-	27.6	27.4	27	26.8	26.6	26	25.8	25.7	25.6	25.5	25.2	24.9	24.7	24.5	22.4	21.5	17.2	14.6
15	KMB 20-350M	IMB.1080.20.3.MS	20	100	80	-	-	-	-	39.9	39	38.1	37.5	36.7	36.1	36	35.6	34	32	28.2	26	23.7	18.2	10
						52	56	60	64	68	72	74												
16	KMB 15-375M	IMB.6550.15.3.MS	15	65	50	12.2	12	11.9	11.5	10.5	8.3	3.9	-	-	-	-	-	-	-	-	-	-	-	-
						48	50	52	54	58	63	70	72	74	78									
17	KMB 10-365M	IMB.6550.10.3.MS	10	65	50	11.3	11.2	11.0	10.9	10.8	10.5	8.8	-	-	-	-	-	-	-	-	-	-	-	-
18	KMB 15-370M	IMB.6550.15.3.MSHD	15	65	50	17.7	17.5	17.4	17.4	17.3	17.0	12.7	-	-	-	-	-	-	-	-	-	-	-	-
19	KMB 20-380M	IMB.6550.20.3.MS	20	65	50	-	-	-	16.7	15.8	15	14.5	14	13.5	9.2	-	-	-	-	-	-	-	-	-

INDUSTRIAL MONOBLOCK PUMP

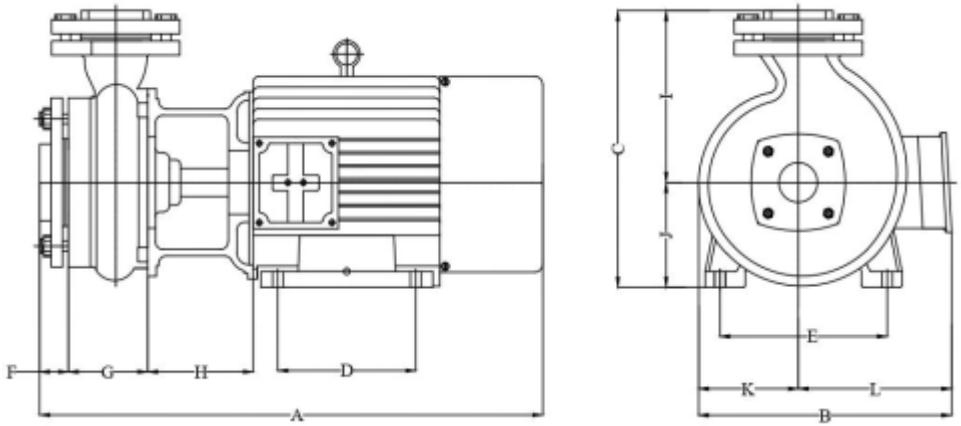
Kirloskar Oil Engines

KMB 3-325G - KMB - Kirloskar Monoblock | 3 - HP | 3 - 3 Phase | 25 - Head in meter | G - Gland Seal
IMB.6550.03.3.GS - IMB - Industrial Monoblock | 6550 - Pipe size SUC X DEL | 03 - HP | 3 - Phase | GS - Gland Seal

Sr. No.	Pump Model. No.	KOEL Part No	Power Rating	Pipe Size		Total Head in Meters																	
						10	12	14	16	18	20	22	24	26	28	30	32	34	36	40	42	44	48	50
				SUC	DEL	Discharge in Liters Per Second																		
1	KMB 3-325G	IMB.6550.03.3.GS	3	65	50	11.0	9.7	9.4	9.0	8.2	7.2	6.5	5.5	3.5	-	-	-	-	-	-	-	-	-	-
2	KMB 3-335G	IMB.5040.03.3.GS	3	50	40	-	-	-	-	8.3	6.7	6.0	6.4	5.8	5.5	4.6	3.5	-	-	-	-	-	-	-
3	KMB 5-327G	IMB.8065.05.3.GS	5	80	65	-	-	17.0	17.5	16.0	14.3	13.0	11.1	7.5	5.8	-	-	-	-	-	-	-	-	-
4	KMB 5-338G	IMB.6550.05.3.GS	5	65	50	-	-	-	-	10.4	10.0	9.1	8.7	8.2	7.8	7.3	6.4	6.0	4.8	-	-	-	-	-
5	KMB 5-320G	IMB.1010.05.3.GS	5	100	100	24.8	22.9	21.0	19.0	14.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	KMB 8-344G	IMB.6565.75.3.GS	7.5	65	65	-	-	-	-	17.2	17.0	16.8	16.6	16.0	15.1	14.9	14.6	13.9	12.4	10.2	8.3	-	-	-
7	KMB 8-352G	IMB.6550.75.3.GS	7.5	65	50	-	-	12.5	12.2	12.0	11.6	11.2	11.0	10.8	10.5	10.0	9.2	8.8	8.8	8.7	8.7	8.3	6.6	4.3
8	KMB 8-330G	IMB.8065.75.3.GS	7.5	80	65	-	-	-	-	-	22.4	18.8	18.6	17.9	16.5	14.6	-	-	-	-	-	-	-	-
9	KMB 8-322G	IMB.1010.75.03.GS	7.5	100	100	28.9	27.0	25.3	23.5	22.1	21.0	17.8	15.0	-	-	-	-	-	-	-	-	-	-	-
10	KMB 10-330G	IMB.1010.10.03.GS	10	100	100	-	32.9	31.5	30.0	28.6	27.5	26.3	25.0	22.8	21.1	19.7	15.4	11.0	-	-	-	-	-	-
11	KMB 10-340G	IMB.8065.10.3.GS	10	80	65	23.3	22.7	22.2	22.0	21.6	21.3	21.0	20.7	20.3	19.8	19.6	19.4	19.2	19.1	18.1	15.8	13.4	-	-
12	KMB 13-348G	IMB.8065.12.3.GS	12.5	80	65	-	23.2	22.5	22.0	24.5	21.0	20.7	20.5	20.3	20.2	20.1	20.0	19.9	19.8	19.6	18.8	18.7	17.0	-
13	KMB 15-337G	IMB.1010.15.3.GS	15	100	100	-	-	-	38.0	37.0	36.5	36.0	35.0	34.5	30.0	31.3	26.5	24.0	20.0	13.0	12.3	-	-	-
14	KMB 15-355G	IMB.8065.15.3.GS	15	80	65	-	27.6	27.4	27.0	26.8	26.6	26.0	25.8	25.7	25.6	25.5	25.2	24.9	24.7	24.5	22.4	21.5	17.2	14.6
15	KMB 20-350G	IMB.1080.20.3.GS	20	100	80	-	-	-	-	39.9	39.0	38.1	37.5	36.7	36.1	36.0	35.6	34.0	32.0	28.2	26.0	23.7	18.2	10.0
						52.0	**56.0**	**60.0**	**64.0**	**68.0**	**72.0**	**74.0**												
16	KMB 15-375G	IMB.6550.15.3.GS	15	65	50	12.2	12.0	11.9	11.5	10.5	8.3	3.9	-	-	-	-	-	-	-	-	-	-	-	-
						48.0	**50.0**	**52.0**	**54.0**	**58.0**	**63.0**	**70.0**	**72.0**	**74.0**	**78.0**									
17	KMB 10-365G	IMB.6550.10.3.GS	10	65	50	11.3	11.2	11.0	10.9	10.8	10.5	8.8	-	-	-	-	-	-	-	-	-	-	-	-
18	KMB 15-370G	IMB.6550.15.3.GSHD	15	65	50	17.7	17.5	17.4	17.4	17.3	17.0	12.7	-	-	-	-	-	-	-	-	-	-	-	-
19	KMB 20-380G	IMB.6550.20.3.GS	20	65	50	-	-	-	16.7	15.8	15.0	14.5	14.0	13.5	9.2	-	-	-	-	-	-	-	-	-

INDUSTRIAL MONOBLOCK PUMP

Kirloskar Oil Engines



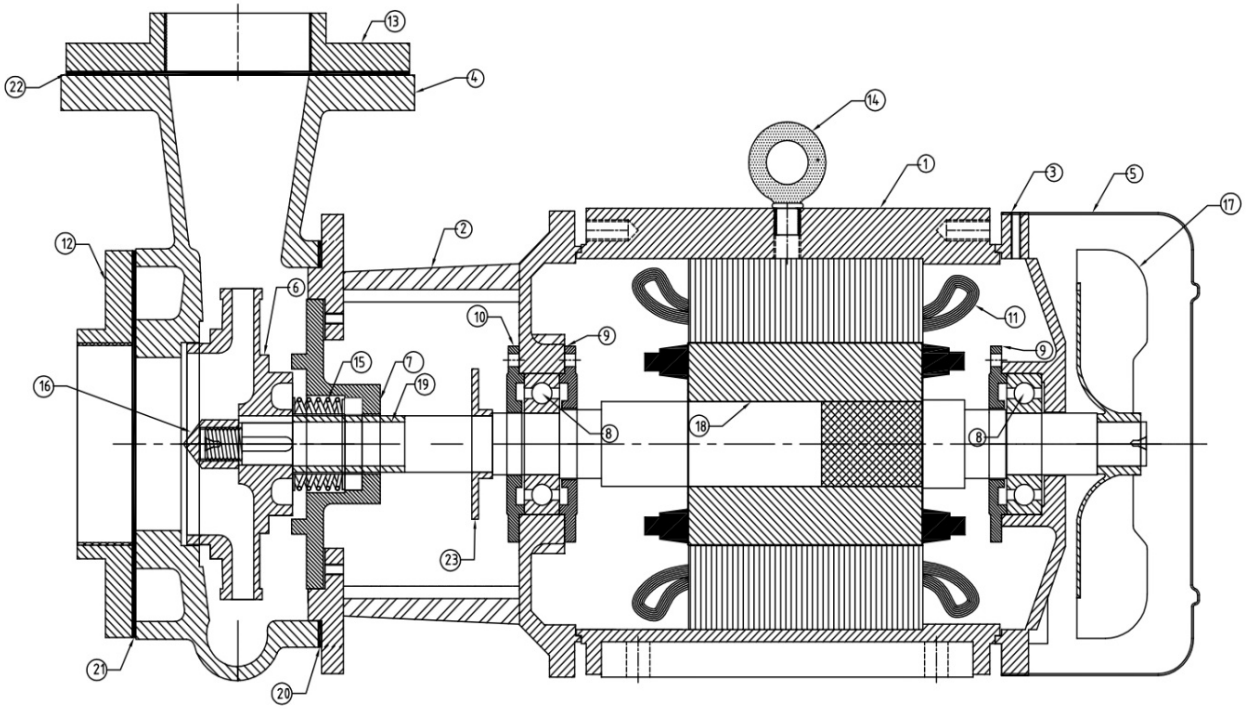
OVERALL PUMP DIMENSIONS (GAD)

The overall dimensions of the pump is same for Gland / Mechanical Seal Pumps.

Sr. No.	KOEL Model No.	Power Rating		Pump size (mm)		A	B	C	D	E	F	G	H	I	J	K	L
		HP	kW	Suc.	Del.	Dimension are in mm											
1	IMB.6550.03.3.GS/MS	3.0	2.2	65	50	525	250	290	132	167	35	80	125	182	108	106	144
2	IMB.5040.03.3.GS/MS	3.0	2.2	50	40	525	250	290	132	167	35	80	125	182	108	106	144
3	IMB.8065.05.3.GS/MS	5.0	3.7	80	65	550	260	350	152	172	30	103	125	229	121	104	156
4	IMB.6550.05.3.GS/MS	5.0	3.7	65	50	550	260	350	152	172	30	103	125	229	121	104	156
5	IMB.1010.05.3.GS/MS	5.0	3.7	100	100	550	260	350	152	172	30	103	125	229	121	104	156
6	IMB.6550.75.3.GS/MS	7.5	5.5	65	50	640	315	365	178	216	38	97	143	244	121	128	187
7	IMB.6565.75.3.GS/MS	7.5	5.5	65	65	640	315	365	178	216	38	97	143	244	121	128	187
8	IMB.8065.75.3.GS/MS	7.5	5.5	65	65	640	315	365	178	216	38	97	143	244	121	128	187
9	IMB.1010.75.3.GS/MS	7.5	5.5	65	65	640	315	365	178	216	38	97	143	244	121	128	187
10	IMB.1010.10.3.GS/MS	10	7.5	80	65	627	315	360	178	216	35	84	143	244	116	128	187
11	IMB.8065.10.3.GS/MS	10	7.5	80	65	627	315	360	178	216	35	84	143	244	116	128	187
12	IMB.8065.12.3.GS/MS	13	9.3	80	65	790	340	390	235	216	35	105	190	230	160	140	200
13	IMB.1010.15.3.GS/MS	15	11	100	100	790	340	390	235	216	35	105	190	230	160	140	200
14	IMB.8065.15.3.GS/MS	15	11	80	65	790	340	390	235	216	35	105	190	230	160	140	200
15	IMB.6550.15.3.GS/MS	15	11	65	50	790	340	390	235	216	35	105	190	230	160	140	200
16	IMB.1080.20.3.GS/MS	20	15	100	80	820	350	440	275	216	35	110	190	275	165	140	200
17	IMB.6550.10.3.GS/MS	10	7.5	65	50	665	335	395	205	230	34	95	158	236	156	136	216
18	IMB.6550.15.3.GSHD/MSHD	15	11	65	50	725	390	415	210	254	33	90	195	258	160	180	210
19	IMB.6550.20.3.GS/MS	20	15	65	50	785	390	425	254	254	33	90	195	258	160	180	210

The performance of the pump is same for Gland / Mechanical Seal Pumps.

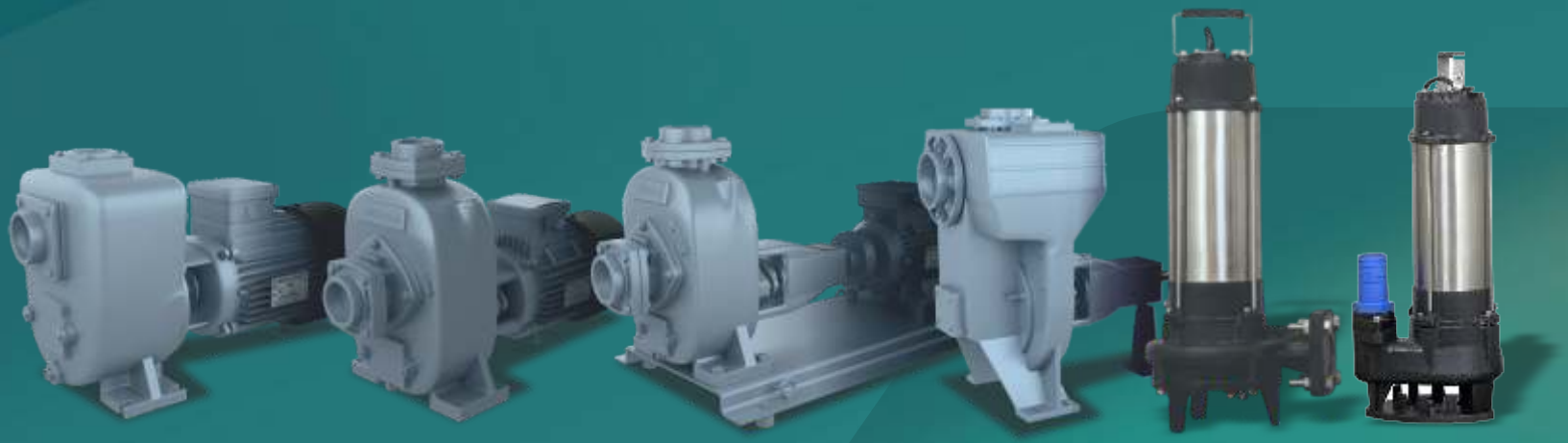
IMB CROSS SECTION



PART DESCRIPTION					
1	BODY	9	BEARING COVER (INNER)	17	FAN
2	BRACKET	10	BEARING COVER (OUTER)	18	ROTOR
3	END SHIELD	11	WINDING	19	S.S.SLEEVE
4	CHAMBER	12	SUCTION FLANGE	20	CHAMBER RUBBER PACKING
5	COWL - FAN COVER	13	DELIVERY FLANGE	21	SUC.FL.RUBBER PACKING
6	IMPELLER	14	EYE-BOLT	22	DEL.FL.RUBBER PACKING
7	STANDARD STUFFING	15	MECHANICAL SEAL	23	RUBBER REFLECTOR
8	BEARING	16	DOME NUT		

kirloskar
Oil Engines

INDUSTRIAL SELF PRIMING MUD PUMPS



Industrial Sector

Domestic Sector

Civil Sector

WASTEWATER SUBMERSIBLE PUMPS

Kirloskar Oil Engines

TECHNICAL SPECIFICATIONS

CUTTER

Head range-mtrs.	:	2-22
Power rating	:	1 to 10 HP
Discharge range-lpm	:	1250-20
Voltage range	:	180-240 (1PH) 360-415 (3PH)
Pipe size	:	50, 75 & 100 mm

SEWAGE

Head range-mtrs.	:	5-20
Power rating	:	0.5 to 7.5 HP
Discharge range-lpm	:	1550-30
Voltage range	:	180-240 (1PH) 360-415 (3PH)
Pipe size	:	32, 50 & 100 mm

MATERIALS OF CONSTRUCTION

Impeller	:	Cast iron
Casing	:	Cast iron
Motor body	:	SS
Pump shaft	:	SS 410
Rotor	:	Aluminium
Sealing	:	Double ended mech. seal

APPLICATIONS

- Drainage sewage water from hotels, houses, commercial buildings, complexes, hospitals, restaurants, etc.
- Pumping water in industries, pumping municipal sewage water & septic tanks.

Industrial Sector | Domestic Sector | Civil Sector

Filthy Water Handling

X-PEL C
1 Phase

X-PEL C
3 Phase

X-PEL S
1 Phase

X-PEL S
3 Phase

FEATURES

- SS body with heavy construction and shock proof
- Motor is designed with self-cooling effect corrosion resistant stainless steel grade pump parts ensures longer life
- SS cutter designed yields fine solids for non-clogging operations
- Non clogging impellers ensures free flow of solids size up to 35mm
- All casting parts are CED coated
- Efficient pumps with more energy savings
- Prevention from dry run
- Double ended mechanical seal
- Fitted with thermal overload protector

PERFORMANCE CHART FOR SEWAGE PUMP

Sr. No.	KOEL model name	KOEL Part No.	HP	Phase	Voltage range V	Delivery size mm	Max. Solid handling size mm	Starting method	Head range- Mtrs.	Head in mtr	5	6	7	8			
1	X-PEL S 051	ESP.3232.05.01.FS	0.5	1	180-240	32	20	CSR	5-8	Flow in LPM	95	75	55	30			
											4	6	8	10	12	14	16
2	X-PEL S 101	ESP.5050.01.01.FS	1	1	180-240	50	35	CSR	4-10	Flow in LPM	330	240	150	80	-	-	-
3	X-PEL S 103	ESP.5050.01.03.00	1	3	360-415	50	35	DOL	4-10		330	240	150	80	-	-	-
4	X-PEL S 201	ESP.5050.02.01.FS	2	1	180-240	50	35	CSR	4-16		480	420	360	280	190	120	50
5	X-PEL S 203	ESP.5050.02.03.00	2	3	360-415	50	35	DOL	4-16		480	420	360	280	190	120	50

											9	10	11	12	13	14	15	16	17	18	20
6	X-PEL S303	ESP.5050.3.3.S1	3	3	350-440	50	37	DOL	9-15		520	-	430	340	250		75	-	-	-	-
7	X-PEL S503	ESP.1010.5.3.S1	5	3	350-440	100	35	DOL	10-18	Flow in LPM	-	1450	-	1300	-	1100	900	-	550	450	-
8	X-PEL S753	ESP.1010.7P5.3.S1	7.5	3	350-440	100	40	DOL	12-20		-	-	-	1550	-	1350	1300	1200	-	720	380

PERFORMANCE CHART FOR CUTTER PUMP

Sr. No.	KOEL Model Name	KOEL Part No.	HP	Phase	Voltage Range V	Delivery size mm	Staring method	Head range- Mtrs.	Head in mtr	2	4	6	8	10	12	14	16	18	20	22
1	X-PEL C 101	ECP.5050.01.01.FS	1	1	180-240	50	CSR	4-16	Flow in LPM	-	350	300	250	200	150	100	50	-	-	-
2	X-PEL C 103	ECP.5050.01.03.00	1	3	360-415	50	DOL	4-16		-	350	300	250	200	150	100	50	-	-	-
3	X-PEL C 201	ECP.5050.02.01.FS	2	1	180-240	50	CSR	4-22		-	400	350	300	260	220	180	140	100	60	20
4	X-PEL C 203	ECP.5050.02.03.00	2	3	360-415	50	DOL	4-22		-	400	350	300	260	220	180	140	100	60	20
5	X-PEL C 303	ECP.5050.03.03.00	3	3	350-440	50	DOL	6-18		-	-	620	540	480	400	300	190	110	-	-
6	X-PEL C 503	ECP.7575.03.05.00	5	3	350-440	75	DOL	2-14		950	880	800	630	450	280	90	-	-	-	-
7	X-PEL C 753	ECP.1010.3.7P5.00	7.5	3	350-440	100	DOL	2-18		1250	1200	1150	1050	900	750	450	350	160	-	-
8	X-PEL C 1003	ECP.1010.10.3.00	10	3	350-440	100	DOL	2-22		1450	1400	1350	1250	1050	950	800	650	410	250	80

SELF PRIMING MUD PUMPS

Kirloskar Oil Engines

TECHNICAL SPECIFICATIONS

Types	: Bare shaft pumps (Gland & Seal type) Motor coupled pump sets (Gland & seal type) Engine coupled pump sets (Gland & Seal type) Monoblock pump sets (Gland & Seal type)
Motor HP (kw)	: 1.00 (0.75) to 25.00 (18.70)
Pipe size (mm)	: 40 X 40 to 150 X 150
Speed (rpm)	: 1440 & 2800
Head (Mtrs)	: Up to 44
Discharge (lps)	: Up to 71
Solid handling (mm)	: Up to 40

Filthy Water Handling

MATERIALS OF CONSTRUCTION

REGULAR SUPPLY

Pump / motor body	: C. I. Gr. FG 200
Impeller	: C. I. Gr. FG 200
Wear plate	: C. I. Gr. FG 200
Impeller ring	: C. I. Gr. FG 200
Shaft	: SS-410
Shaft sleeve	: SS-410
Stamping	: CRNGO, M-45 Grade
Sealing	: Gland / Mechanical seal

OPTIONAL SUPPLY

Body	: SS 316 - (02 TO 7.5 HP)
Impeller	: SS-304 (CF 8) / SS-316 (CF 8M) / Bronze
Impeller ring	: SS-304 (CF 8) / SS-316 (CF 8M) / Bronze
Wear plate	: SS-304 (CF 8) / SS-316 (CF 8M) / Bronze
Shaft	: SS-304 (CF 8) / SS-316 (CF 8M) / 410 for All monoblock
Shaft sleeve	: SS-304 (CF 8) / SS-316 (CF 8M)
Gland packing	: Teflone

APPLICATIONS

MARINE

Loading/unloading, bilge pumping, fire fighting, sanitary duty, circulation.

CONSTRUCTION

Dewatering excavation, canals, ponds, water supply, concrete washing.

AGRICULTURE

Surface irrigation, liquid manure transfer, spraying fertilizers, washing.

INDUSTRY

Transfer of clean/dirty liquids (neutral, acid, alkali), petroleum, milk of lime, caustic soda, sewage, ash water. Washing, cooling, emergency duty.

MOBILE MACHINERY

Cooling water for marine engines and machinery, priming avoidance.

WASTE TREATMENT

Pumping polluted, hot, or corrosive waste water, sludge removal, neutralizing liquids.

PUBLIC UTILITIES

Pumping muddy water, sewage, flood drainage, dewatering construction sites, sewage pumping.

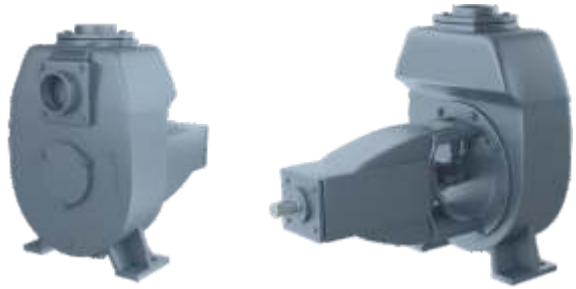
Industrial Sector | Domestic Sector | Civil Sector

FEATURES

- Replacing foot valve by modern technologies. Easy availability of spares
- Impeller is designed semi opened / opened for handle contamination. Can handle solid particles up to 40 mm
- Back pull out design for ease of repair without disturbing the pipe lines
- All pumps are available with both gland packing and mechanical seal variants
- Dynamically balanced rotating parts
- Long product life

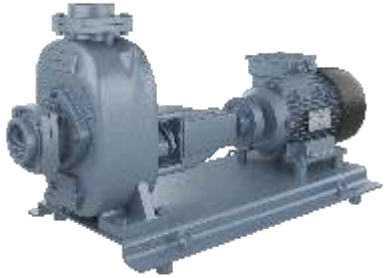
BARE SHAFT PUMPS

(Gland / Mechanical Seal Type)



MOTOR COUPLED PUMP SETS

(Gland / Mechanical Seal Type)



KIRLOSKAR MUD PUMP	BARE SHAFT	HP	Slow Speed
KMP	+	5	S

Pump Selection Guide	IM	S/H	4040	01	3	MS / GS
Code Description	Industrial mud pump	Slow speed-1440 rpm High speed-2800 rpm	Pipe size (mm) Suc X Del	HP	Phase	Mech. seal/ Gland seal

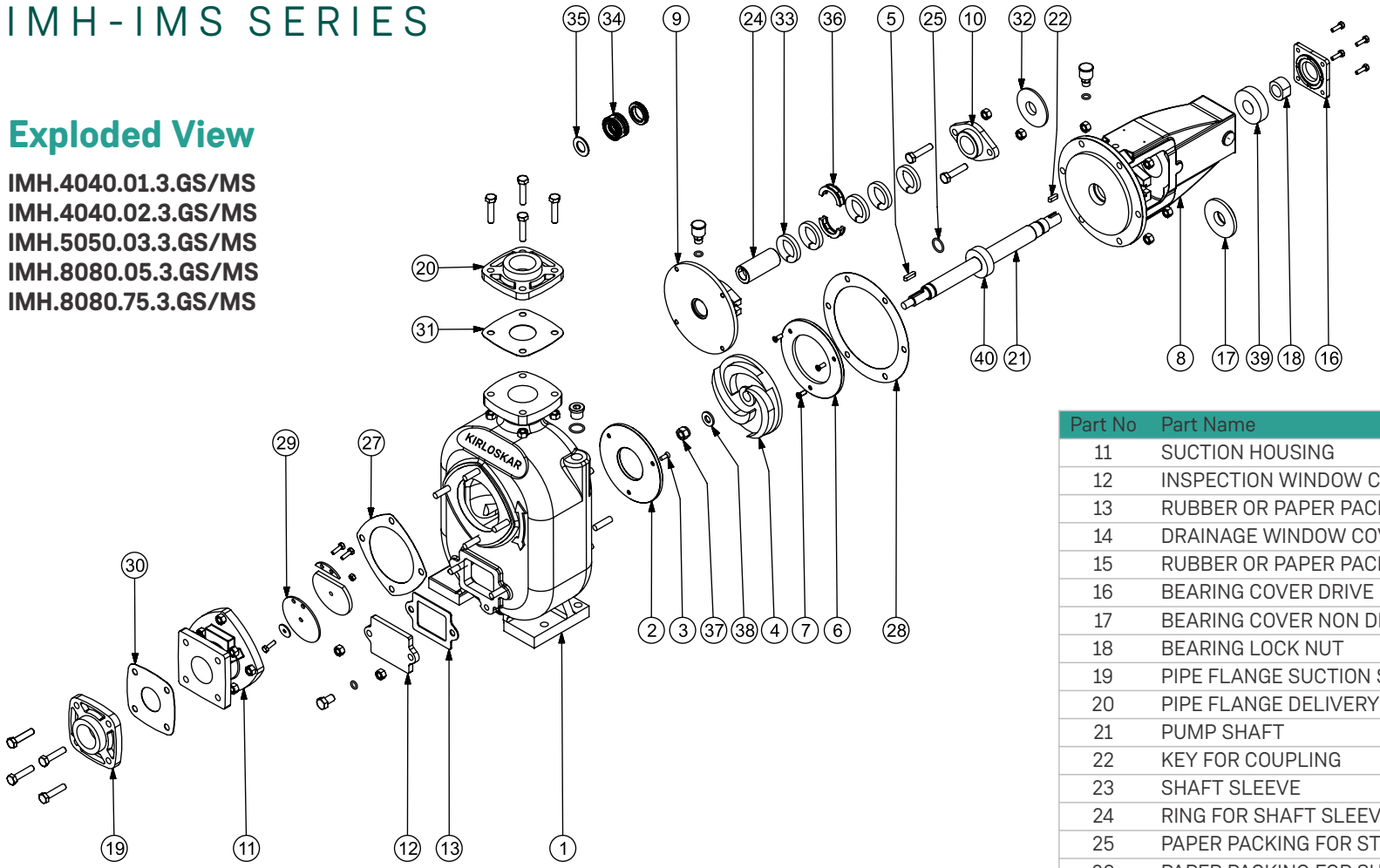
SR. NO.	PUMP MODEL NO.	KOEL PART NO.	POWER RATING	DIRECTION OF ROTATION FROM SUCTION SIDE	PHASE	PIPE SIZE SUC X DEL	SPEED	SOLID HANDLING SIZE	TOTAL HEAD IN METERS																	
									10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
			HP			MM	RPM	MM	DISCHARGE IN LITERS PER SECOND																	
1	KMP+ 1	IMH.4040.01.3.MS/GS	1.00	Anti-clockwise	3	40X40	2800	7	4	3.4	2.4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	KMP+ 2	IMH.4040.02.3.MS/GS	2.00	Anti-clockwise	3	40X40	2800	8.5	-	5.5	4.5	3.3	2.1	0.6	-	-	-	-	-	-	-	-	-	-	-	-
3	KMP+ 3	IMH.5050.03.3.MS/GS	3.00	Anti-clockwise	3	50X50	2800	10.5	-	9	8.8	7.6	6.3	4.9	3	-	-	-	-	-	-	-			-	-
4	KMP+ 5	IMH.8080.05.3.MS/GS	5.00	Anti-clockwise	3	80X80	2800	7	-	-	-	-	-	8.3	7.5	6	5	3.8	2.5	1.3	-	-	-		-	-
5	KMP+ 7	IMH.8080.75.3.MS/GS	7.50	Anti-clockwise	3	80X80	2800	14.5	-	-	-	-	-	14	13.5	12.5	10.8	9.2	7.3	5.5	3.3	1.6	-		-	-
6	KMP+ 12	IMH.8080.12.3.MS/GS	12.50	Anti-clockwise	3	80X80	2800	14.5	-	-	-	-	-	-	-	20	19.2	18.3	17.8	17	16	13.3	12	9.5	7.1	5.8
7	KMP+ 5S	IMS.8080.05.3.MS/GS	5.00	Clockwise	3	80X80	1440	15.5	18.3	16	14	10.8	6.5	2	-	-		-	-	-	-	-	-	-	-	-
8	KMP+ 10S	IMS.1010.10.3.MS/GS	10.00	Clockwise	3	100X100	1440	18.5	33	32	30	26.8	24.7	22	17.8	12.5	-	-	-	-	-	-	-	-	-	-
9	KMP+ 12S	IMS.1010.12.3.MS/GS	12.50	Clockwise	3	100X100	1440	23	40	38	35.7	31	29	25	22	18.3	-	-	-	-	-	-	-		-	-
10	KMP+ 20S	IMS.1515.20.3.MS/GS	20.00	Anti-clockwise	3	150X150	1440	34	66	64	60	54.2	48	40	33.3	23	-	–	-	-	-	-	-	-	-	-
11	KMP+ 25S	IMS.1515.25.3.MS/GS	25.00	Anti-clockwise	3	150X150	1440	40	71	69	67.5	63.5	58	52	45	35	23		-		-	-	-		-	-

The performance of the pump is same for Gland / Mechanical Seal Pumps.

kirloskar Oil Engines

Exploded View

IMH.4040.01.3.GS/MS
IMH.4040.02.3.GS/MS
IMH.5050.03.3.GS/MS
IMH.8080.05.3.GS/MS
IMH.8080.75.3.GS/MS



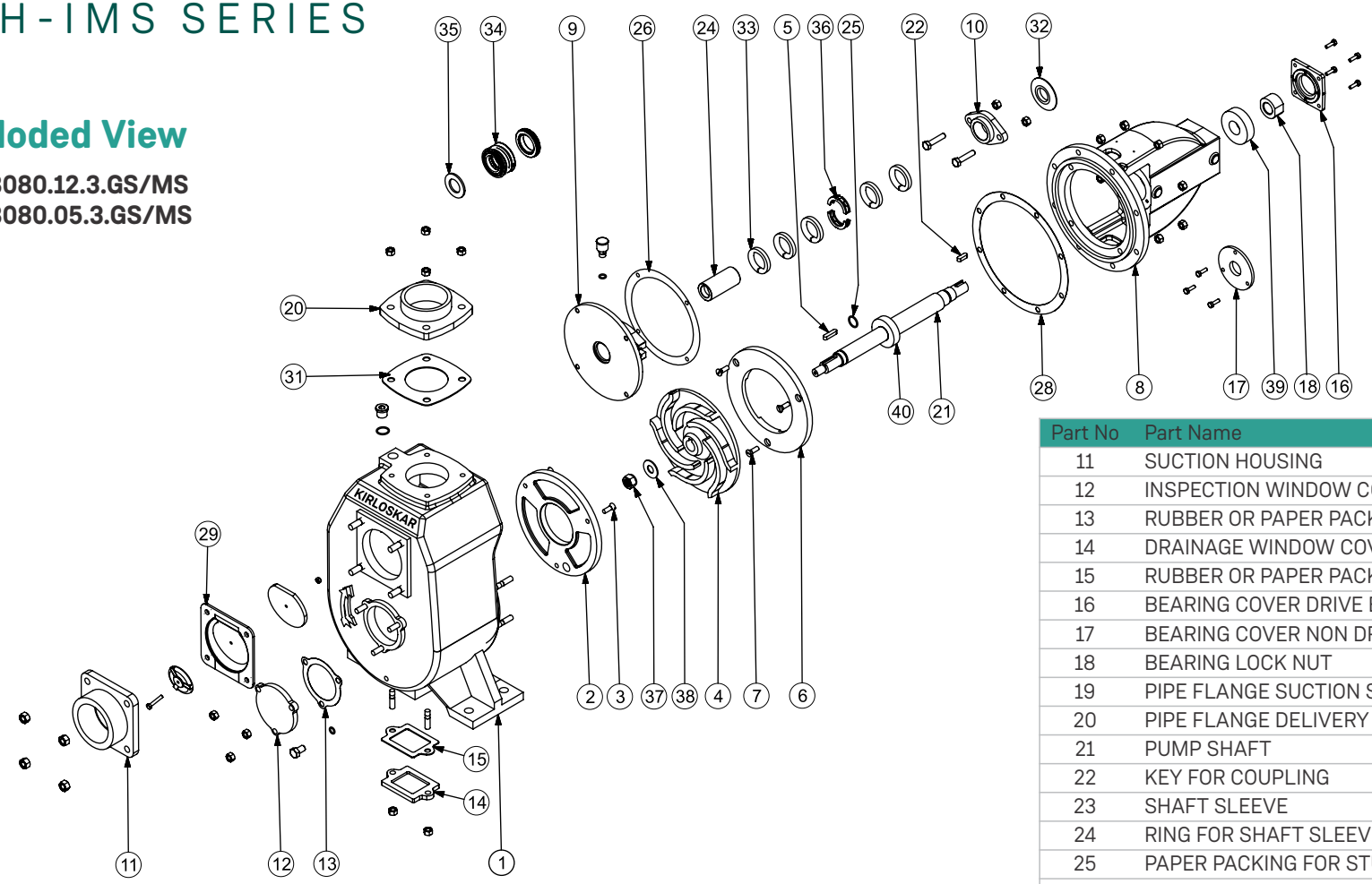
Part No	Part Name
1	PUMP BODY
2	WEARING PLATE
3	COUNTER SUNK SCREW FOR WEARING PLATE
4	IMPELLER
5	KEY FOR IMPELLER
6	IMPELLER RING
7	COUNTER SUNK SCREW FOR IMPELLER RING
8	BERING HOUSING
9	STUFFING HOUSING
10	GLAND BLUSH

Part No	Part Name
11	SUCTION HOUSING
12	INSPECTION WINDOW COVER
13	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
14	DRAINAGE WINDOW COVER
15	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
16	BEARING COVER DRIVE END SIDE
17	BEARING COVER NON DRIVE END SIDE
18	BEARING LOCK NUT
19	PIPE FLANGE SUCTION SIDE
20	PIPE FLANGE DELIVERY SIDE
21	PUMP SHAFT
22	KEY FOR COUPLING
23	SHAFT SLEEVE
24	RING FOR SHAFT SLEEVE
25	PAPER PACKING FOR STUFFING HOUSING
26	PAPER PACKING FOR SUCTION HOUSING
27	PAPER PACKING FOR BEARING HOUSING
28	FLAP VALVE
29	RUBBER PACKING FOR SUCTION SIDE
30	RUBBER PACKING FOR DELIVERY SIDE
31	WATER DEFLECTOR
32	GLAND PACKING
33	MECHANICAL SEAL
34	MECHANICAL SEAL WASHER
35	LANTERN RING
36	NYLON LOCK NUT
37	BEARING DRIVE END SIDE
38	BEARING NON DRIVE END SIDE

kirloskar
Oil Engines

Exploded View

IMH.8080.12.3.GS/MS
IMH.8080.05.3.GS/MS



Part No	Part Name
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3	COUNTER SUNK SCREW FOR WEARING PLATE
4	IMPELLER
5	KEY FOR IMPELLER
6	IMPELLER RING
7	COUNTER SUNK SCREW FOR IMPELLER RING
8	BERING HOUSING
9	STUFFING HOUSING
10	GLAND BLUSH

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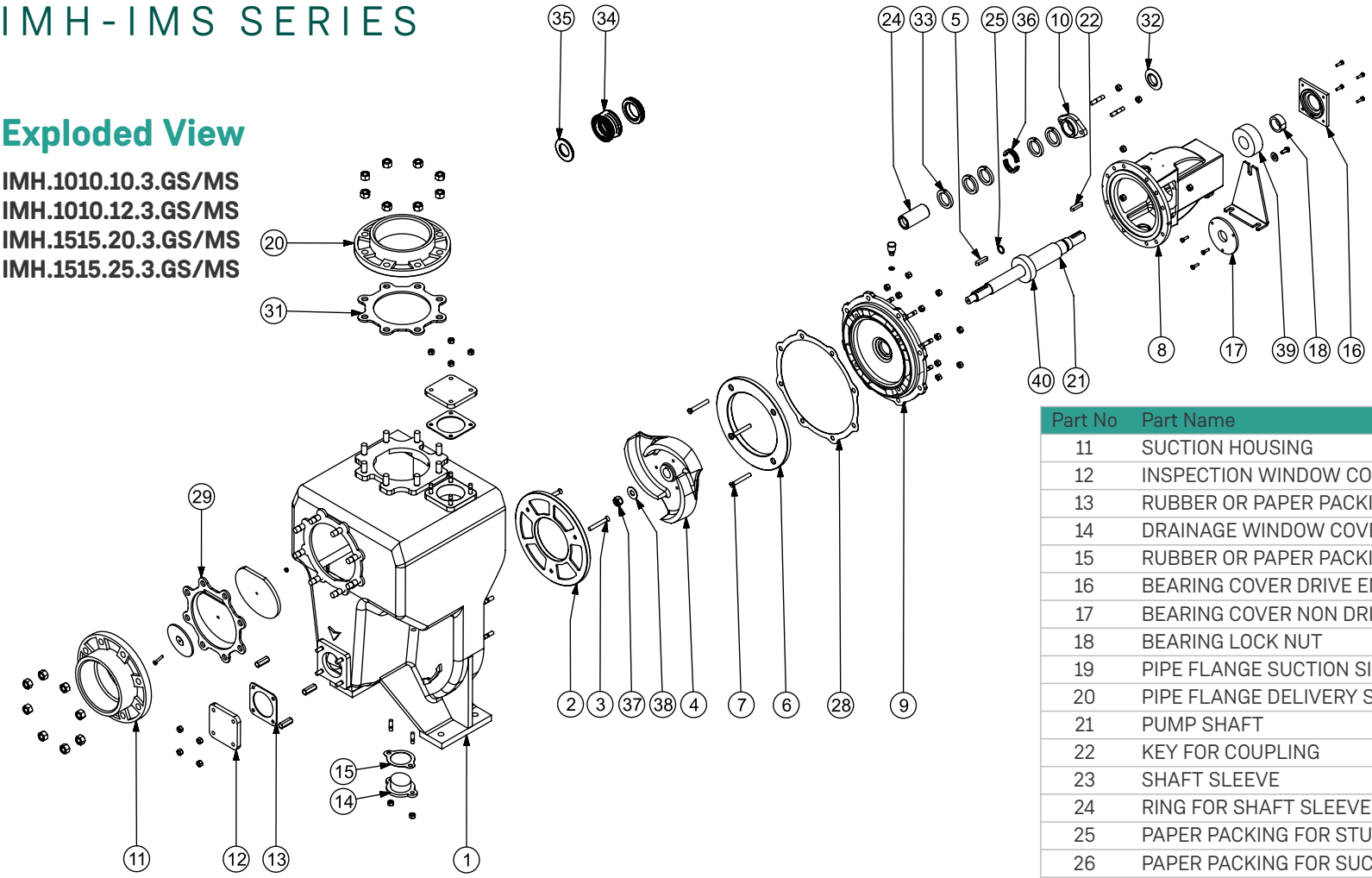
36	NYLON LOCK NUT
37	BEARING DRIVE END SIDE
38	BEARING NON DRIVE END SIDE

kirloskar Oil Engines

Exploded View

IMH.1010.10.3.GS/MS
IMH.1010.12.3.GS/MS
IMH.1515.20.3.GS/MS
IMH.1515.25.3.GS/MS



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10	GLAND BLUSH

Part No	Part Name
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36	NYLON LOCK NUT
37	BEARING DRIVE END SIDE
38	BEARING NON DRIVE END SIDE

SELF PRIMING MUD MONOBLOCK PUMP

Filthy Water Handling

KIRLOSKAR MUD PUMP	HP	Slow Speed
KMP	5	S

SR. NO.	PUMP MODEL NO.	KOEL PART NO.	POWER RATING HP	PHASE	PIPE SIZE (MM) SUC X DEL	SPEED (RPM)	SOLID HANDLING SIZE (MM)	TOTAL HEAD IN METERS													
								6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
								DISCHARGE IN LITERS PER SECOND															
1	KMP1	IMH.4040M.01.1.MS/GS	1	1	40X40	2800	7	-	-	4	3.4	2.4	1	-	-	-	-	-	-	-	-	-	-
2	KMP1	IMH.4040M.01.3.MS/GS	1	3	40X40	2800	8.5	-	-	4	3.4	2.4	1	-	-	-	-	-	-	-	-	-	-
3	KMP2	IMH.4040M.02.3.MS/GS	2	3	40X40	2800	10.5	-	-	-	5.5	4.5	3.3	2.1	0.6	-	-	-	-	-	-	-	-
4	KMP3	IMH.5050M.03.3.MS/GS	3	3	50x50	2800	7	-	-	-	9	8.8	7.6	6.3	4.9	3	-	-	-	-	-	-	-
5	KMP5	IMH.8080M.05.3.MS/GS	5	3	80x80	2800	14.5	-	-	-	-	-	-	-	8.3	7.5	6	5	3.8	2.5	1.3	-	-
6	KMP7	IMH.8080M.75.3.MS/GS	7.5	3	80x80	2800	14.5	-	-	-	-	-	-	-	14	13.5	12.5	10.8	9.2	7.3	5.5	3.3	1.6
7	KMP5S	IMS.8080M.05.3.MS/GS	5	3	80x80	1400	15.5	-	-	18.3	16	14	10.8	6.5	2	-	-	-	-	-	-	-	-

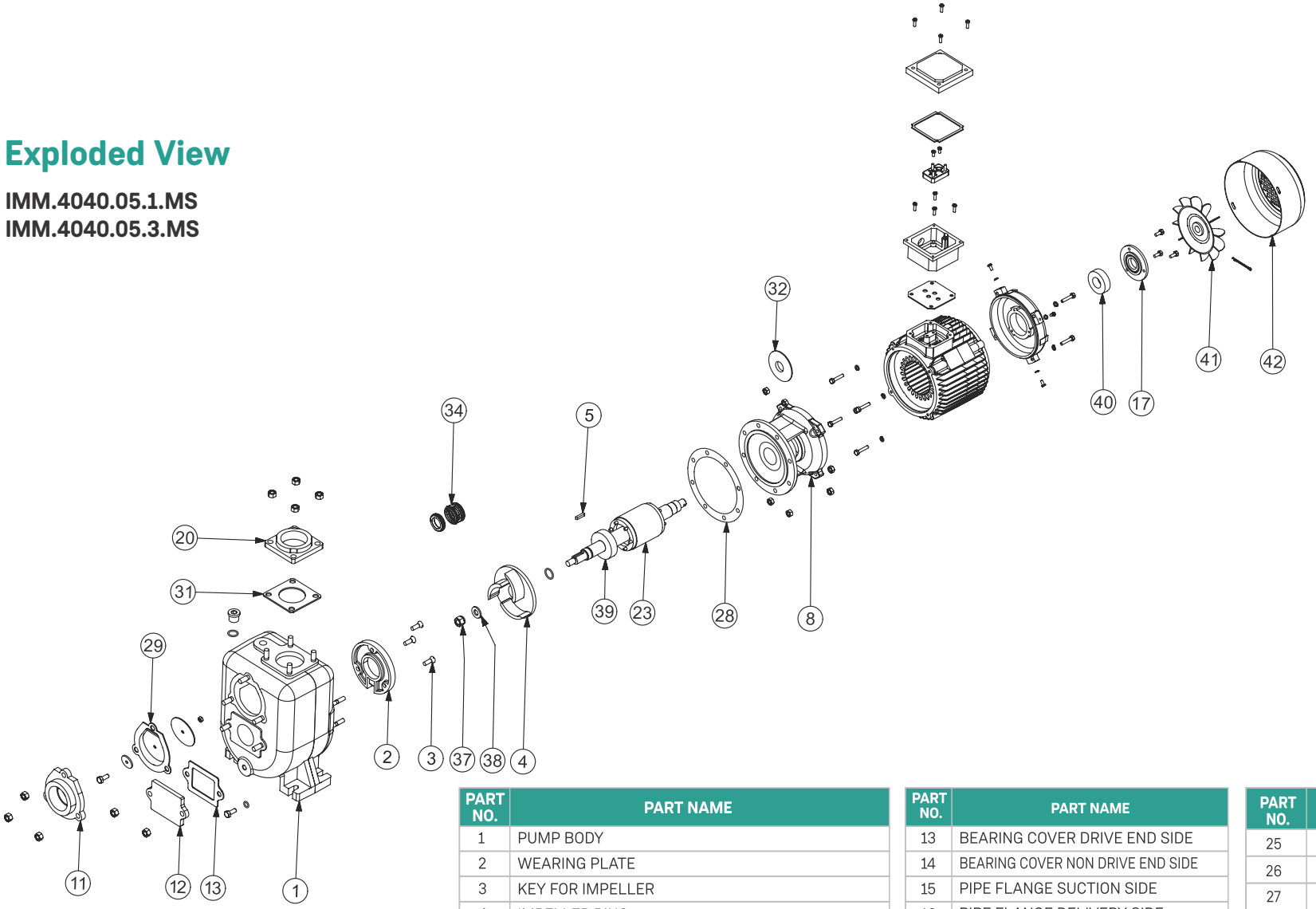
SELF PRIMING MINI MUD MONOBLOCK PUMP

Pump selection guide	IMM	4040	05	1	MS
Code description	Industrial Mini Mud	Pipe size (mm) Suc x Del	HP	Phase	Mech. Seal

SR. NO.	PUMP MODEL No.	KOEL MODEL No.	MOTOR HP - KW	PHASE	PIPE SIZE SUC. X DEL. MM	SPEED RPM	SOLID HANDLING SIZE MM	HEAD MTRS	6	8	10	12
1	KMP 0.5	IMM.4040.05.1.MS	0.5 - 0.37	1	40X40	2800	6	Disc-LPS	3.3	2.5	1.8	1
2	KMP 0.5	IMM.4040.05.3.MS	0.5 - 0.37	3	40X40	2800	6		3.3	2.5	1.8	1

Exploded View

IMM.4040.05.1.MS
IMM.4040.05.3.MS



PART NO.	PART NAME
1	PUMP BODY
2	WEARING PLATE
3	KEY FOR IMPELLER
4	IMPELLER RING
5	COUNTER SUNK KEY FOR IMPELLER RING
6	BEARING HOUSING
7	STUFFING HOUSING
8	GLAND BUSH
9	SUCTION HOUSING
10	INSPECTION WINDOW COVER
11	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
12	DRAINAGE WINDOW COVER

PART NO.	PART NAME
13	BEARING COVER DRIVE END SIDE
14	BEARING COVER NON DRIVE END SIDE
15	PIPE FLANGE SUCTION SIDE
16	PIPE FLANGE DELIVERY SIDE
17	ROTOR SHAFT
18	SHAFT SLEEVE
19	O RING
20	PAPER PACKING FOR STUFFING HOUSING
21	PAPER PACKING FOR SUCTION HOUSING
22	PAPER PACKING FOR BEARING HOUSING
23	FLAP VALVE
24	RUBBER PACKING FOR SUCTION SIDE

PART NO.	PART NAME
25	RUBBER PACKING FOR DELIVERY SIDE
26	WATER DEFLECTOR
27	GLAND PACKING
28	MECHANICAL SEAL
29	MECHANICAL SEAL WASHER
30	LANTERN RING
31	NYLON LOCK NUT
32	BEARING DRIVE END SIDE
33	BEARING NON DRIVE END SIDE
34	FAN
35	FANCOVER

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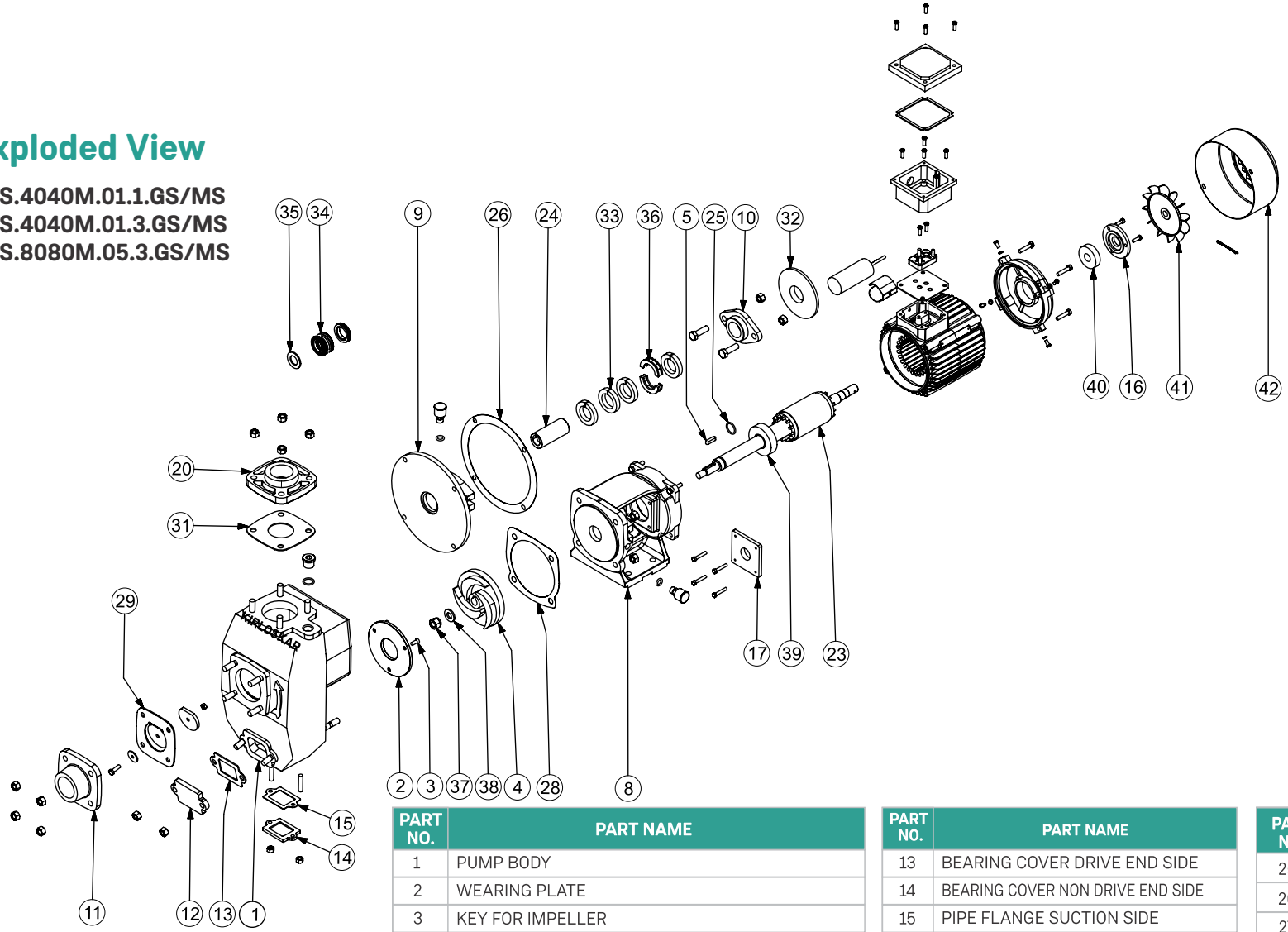
Oil Engines

Exploded View

IMS.4040M.01.1.GS/MS
IMS.4040M.01.3.GS/MS
IMS.8080M.05.3.GS/MS



PART NO.	PART NAME
1	PUMP BODY
2	WEARING PLATE
3	KEY FOR IMPELLER
4	IMPELLER RING
5	COUNTER SUNK KEY FOR IMPELLER RING
6	BEARING HOUSING
7	STUFFING HOUSING
8	GLAND BUSH
9	SUCTION HOUSING
10	INSPECTION WINDOW COVER
11	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
12	DRAINAGE WINDOW COVER

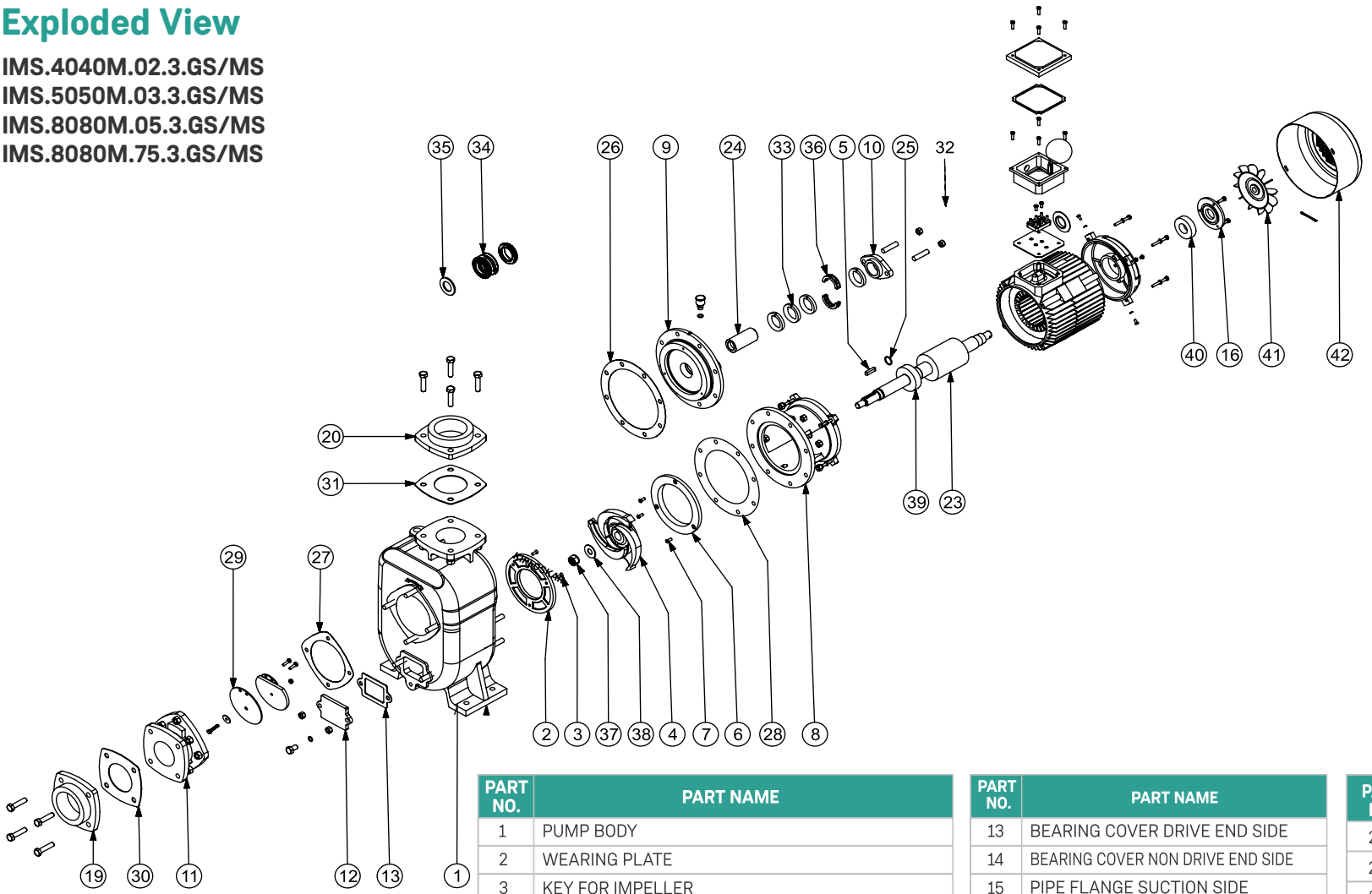
PART NO.	PART NAME
13	BEARING COVER DRIVE END SIDE
14	BEARING COVER NON DRIVE END SIDE
15	PIPE FLANGE SUCTION SIDE
16	PIPE FLANGE DELIVERY SIDE
17	ROTOR SHAFT
18	SHAFT SLEEVE
19	O RING
20	PAPER PACKING FOR STUFFING HOUSING
21	PAPER PACKING FOR SUCTION HOUSING
22	PAPER PACKING FOR BEARING HOUSING
23	FLAP VALVE
24	RUBBER PACKING FOR SUCTION SIDE

PART NO.	PART NAME
25	RUBBER PACKING FOR DELIVERY SIDE
26	WATER DEFLECTOR
27	GLAND PACKING
28	MECHANICAL SEAL
29	MECHANICAL SEAL WASHER
30	LANTERN RING
31	NYLON LOCK NUT
32	BEARING DRIVE END SIDE
33	BEARING NON DRIVE END SIDE
34	FAN
35	FANCOVER

Exploded View

IMS.4040M.02.3.GS/MS
IMS.5050M.03.3.GS/MS
IMS.8080M.05.3.GS/MS
IMS.8080M.75.3.GS/MS

kirloskar
Oil Engines

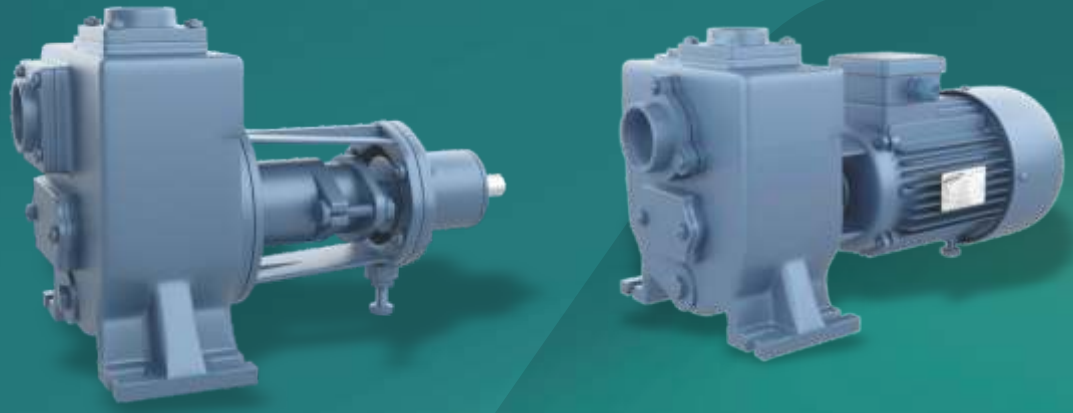


PART NO.	PART NAME
1	PUMP BODY
2	WEARING PLATE
3	KEY FOR IMPELLER
4	IMPELLER RING
5	COUNTER SUNK KEY FOR IMPELLER RING
6	BEARING HOUSING
7	STUFFING HOUSING
8	GLAND BUSH
9	SUCTION HOUSING
10	INSPECTION WINDOW COVER
11	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
12	DRAINAGE WINDOW COVER

PART NO.	PART NAME
13	BEARING COVER DRIVE END SIDE
14	BEARING COVER NON DRIVE END SIDE
15	PIPE FLANGE SUCTION SIDE
16	PIPE FLANGE DELIVERY SIDE
17	ROTOR SHAFT
18	SHAFT SLEEVE
19	O RING
20	PAPER PACKING FOR STUFFING HOUSING
21	PAPER PACKING FOR SUCTION HOUSING
22	PAPER PACKING FOR BEARING HOUSING
23	FLAP VALVE
24	RUBBER PACKING FOR SUCTION SIDE

PART NO.	PART NAME
25	RUBBER PACKING FOR DELIVERY SIDE
26	WATER DEFLECTOR
27	GLAND PACKING
28	MECHANICAL SEAL
29	MECHANICAL SEAL WASHER
30	LANTERN RING
31	NYLON LOCK NUT
32	BEARING DRIVE END SIDE
33	BEARING NON DRIVE END SIDE
34	FAN
35	FANCOVER

SELF PRIMING EC SERIES MUD PUMP AND MUD MONOBLOCK PUMP

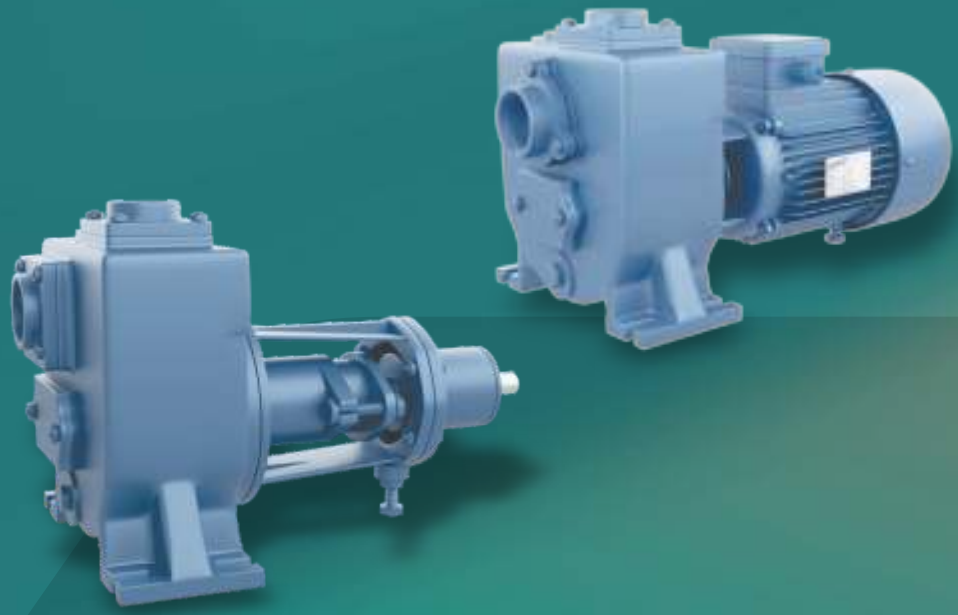


SELF PRIMING EC SERIES MUD PUMP AND MUD MONOBLOCK PUMP

Kirloskar Oil Engines

TECHNICAL SPECIFICATIONS

Types	: Bare shaft pumps (Gland & Seal type) Motor coupled pump sets (Gland & seal type) Engine coupled pump sets (Gland & Seal type) Monoblock pump sets (Gland & Seal type)
Motor HP (kw)	: 0.50 (0.37) to 5.00 (3.70)
Pipe size (mm)	: 40 X 40 to 80 X 80
Speed (rpm)	: 1440 & 2800
Head (Mtrs)	: Up to 20
Discharge (lps)	: Up to 19
Solid handling (mm)	: Up to 23



MATERIALS OF CONSTRUCTION

REGULAR SUPPLY	
Pump / motor body	: C. I. Gr. FG 200
Impeller	: C. I. Gr. FG 200
Wear plate	: C. I. Gr. FG 200
Shaft	: SS-410
Shaft sleeve	: SS-410
Stamping	: CRNGO, M-45 Grade
Gland Packing	: Graphite asbestors
Bearings	: SKF / Equivalant

OPTIONAL SUPPLY	
Body	: SS 316 - (CF 8M) / Bronze
Wear plate	: SS-316 (CF 8M) / Bronze
Shaft	: SS-316 (CF 8M)
Shaft sleeve	: SS-316 (CF 8M)
Gland packing	: Teflon

APPLICATIONS

INDUSTRY

Transfer clean, dirty, containing sand in suspension, muddy, neutral, alkaline, acidic liquids, low viscous petroleum products, solvents even if dirty, milk of lime, caustic soda etc. Washing, cooling, recirculation, smoke scrubbing.

Treatment pumping polluted, hot or corrosive waste water containing sand, mud or solids in suspension, dosing neutralizing liquids, pumping out settled sludge.

AGRICULTURE

Surface irrigation, liquid manure oxygenation, transfer and spraying liquid manure or fertilizers, distribution of liquid animal feed, transfer of must, washing.

SAFETY

Drainage after flooding or torrential rains.

Emergency duty temporary sewage pumping; fire fighting; recovery of dangerous liquids.

Industrial Pumping Solutions

Industrial Sector | Domestic Sector | Civil Sector

Features

- Compact design and efficient performance.
- Rapid self-priming . No need of foot valve & priming every time for quicker operation
- Open impeller design allowing the passage of wide solid bodies and easy inspection.
- Long product life due to the parts subject to wear can be easily replaced several times to restore the original performance of the pump.
- All rotating parts are dynamically balanced for smooth running and low vibration.
- All pumps are available with gland packing or mechanical seal.
- Available in 1 Phase (180-240V) and 3 Phase (380-440V)

MOTOR COUPLED PUMP SETS

PERFORMANCE CHART

Monobloc Pump (EC Series)																
Sr. No.	Pump Model	KOEL Part No	Power Rating Hp	Phase	Pump Size (mm) Suc x Del	Speed (rpm)	Solid Handling Size (mm)	Total Head in Meters								
								6	8	10	12	14	16	18	20	22
								Discharge In Liter Per Second								
1	KMP 1E	IMH.4040M.01EC.1.MS/GS	1	1	40 X 40	2800	15	-	-	5.7	4.8	3.3	2.4	-	-	-
2	KMP 1E	IMH.4040M.01EC.3.MS/GS	1	3	40 X 40	2800	15	-	-	5.7	4.8	3.3	2.4	-	-	-
3	KMP 2E	IMH.5050M.02EC.3.MS/GS	2	3	50 X 50	2800	18	-	-	7.2	5.5	4	2	-	-	-
4	KMP 3E	IMH.5050M.03EC.3.MS/GS	3	3	50 X 50	2800	23	-	-	-	8.2	6.5	4.9	2.3	-	-
5	KMP 5SE	IMS.8080M.05EC.3.MS/GS	5	3	80 X 80	1440	15.5	-	19.2	16.7	15.3	13	9.4	6.5	3	-

Bare Shaft Pump (EC Series)																
Sr. No.	Pump Model	KOEL Part No	Power Rating Hp	Phase	Pump Size (mm) Suc x Del	Speed (rpm)	Solid Handling Size (mm)	Total Head in Meters								
								6	8	10	12	14	16	18	20	22
								Discharge In Liter Per Second								
1	KMP+ 1E	IMH.4040.01EC.3.MS/GS	1	3	40 X 40	2800	15	-	-	5.7	4.8	3.3	2.4	-	-	-
2	KMP+ 2E	IMH.5050.02EC.3.MS/GS	2	3	50 X 50	2800	18	-	-	7.2	5.5	4	2	-	-	-
3	KMP+ 3E	IMH.5050.03EC.3.MS/GS	3	3	50 X 50	2800	23	-	-	-	8.2	6.5	4.9	2.3	-	-
4	KMP+ 5SE	IMS.8080.05EC.3.MS/GS	5	3	80 X 80	1440	15.5	-	19.2	16.7	15.3	13	9.4	6.5	3	-

Kirloskar
Oil Engines

INDUSTRIAL END SUCTION PUMP

Industrial Sector

Domestic Sector

Civil Sector

INDUSTRIAL END SUCTION PUMP (Back Pullout Design)

Kirloskar Oil Engines

TECHNICAL SPECIFICATIONS

Types	: Bare Shaft Pumps (Gland / Mech. Seal Type)
	Motor Coupled Pump Sets (Gland / Mech. Seal Type)
Motor HP (kw)	: 0.34 (0.25) to 194.37 (145.00)
Pipe Size (mm)	: 50 X 32 to 200 X 150
Speed (rpm)	: 1450 & 2900
Head (mtrs)	: Up to 100
Discharge M3/Hr	: Up to 275
Also Available in 60Hz	

MATERIALS OF CONSTRUCTION

REGULAR SUPPLY

Pump body	: C. I. Gr. FG 200
Impeller	: C. I. Gr. FG 200
Neck ring	: SS304
Stuffing housing	: C. I. Gr. FG 200
Bearing housing	: C. I. Gr. FG 200
Shaft	: SS-410
Shaft sleeve	: SS-410
Gland packing	: Graphic Asbestos
Mechanical seal	: Carbon Ceramic

OPTIONAL SUPPLY

Impeller : Bronze
Shaft: SS-316 (CF 8M)
Gland Packing: Teflone

APPLICATIONS

- Chemicals, petrochemicals, refineries, sugar, paper, laminates
- Drip irrigation, water supply and building services
- Condensate handling, fire fighting systems, environmental
- Circulation of water in industries, air conditioning plants, power stations, mining, sprinkler systems, pumping brines, Industries, rubber, organic and inorganic chemicals, dam water, food industries, salt, textiles etc.

Industrial Sector | Domestic Sector | Civil Sector

Clean Water Handling

BARE SHAFT PUMPS (Gland / Mech. Seal Type)

MOTOR COUPLED PUMP SETS (Gland / Mech. Seal Type)

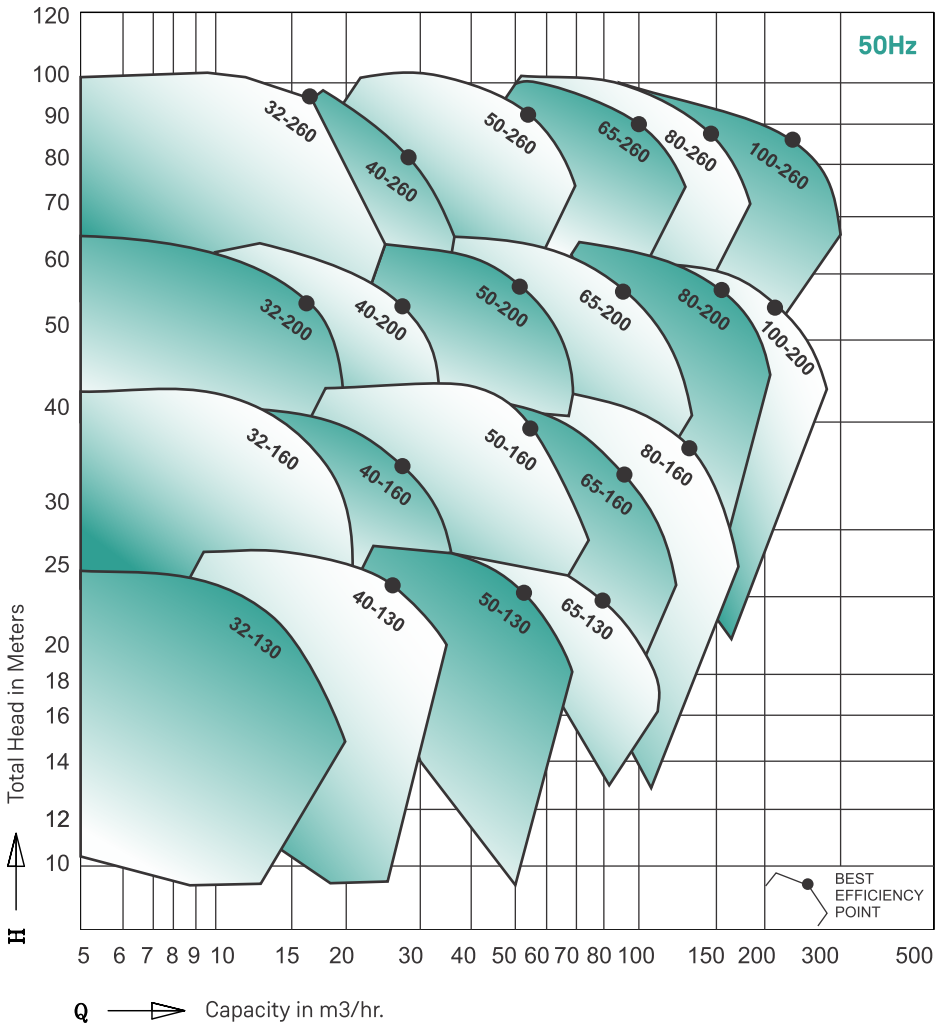
FEATURES

- The back pull-out design enables removal of the motor, coupling, bearing housing and impeller without hampering the existing pump housing or pipe work.
- The pumps are of single stage, single suction, and horizontal shaft type. The rpm operation range is 1450 rpm and 2900 rpm at 50 hz.
- This has volute type, end suction casing with top centerline discharge. Suction, discharge nozzles and the supporting feet are cast integral with the casing.
- Impeller is enclosed type dynamically balanced.
- Direction of rotation is clockwise when viewed from the driving end.
- These pumps can be coupled with electric motors and engines either directly or by belt drives.
- Pumps are available in bare shaft, motor coupled.
- Available with mechanical and gland seal

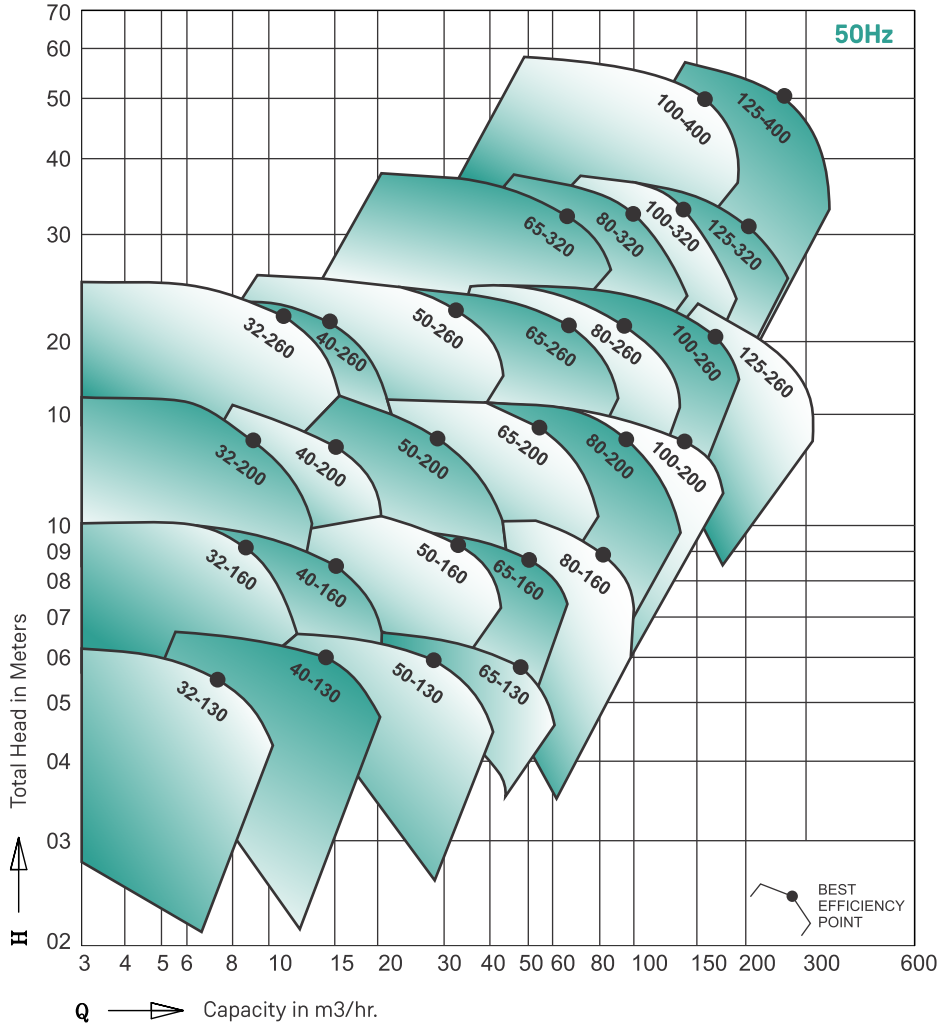
IES BACK PULL OUT PUMPS PERFORMANCE CURVE

Kirloskar Oil Engines

2900 RPM FAMILY GRAPH



1450 RPM FAMILY GRAPH

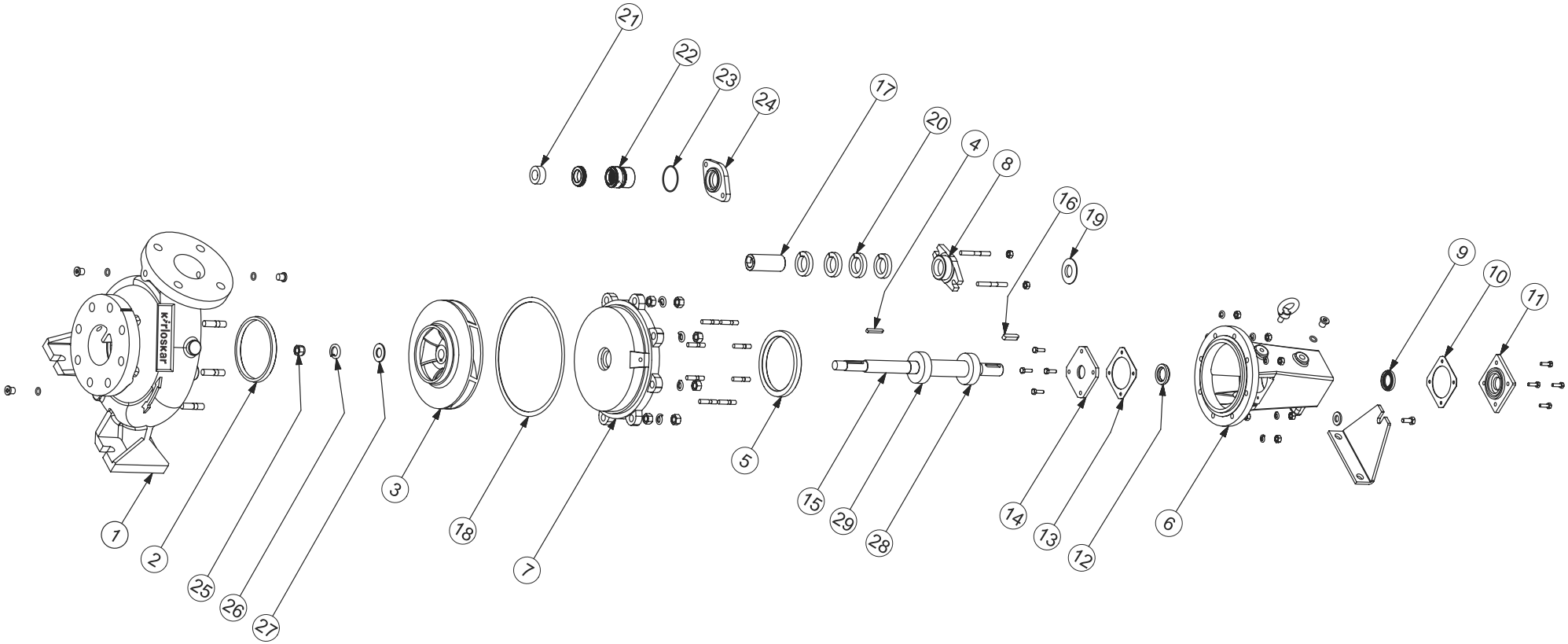


Flow = m³/hr	Head = m	Power = kW	Efficiency = %

BASED ON THE PERFORMANCE OF WATER OF VISCOSITY 1Cst, Sp Gr-1

Kirloskar Oil Engines

EXPLODED VIEW WITH PUMP PART LIST



PART NO.	NAME OF PART
1	PUMP HOUSING
2	NECK RING
3	IMPELLER
4	KEY FOR IMPELLER
5	BACK WEAR RING
6	BEARING HOUSING
7	STUFFING HOUSING
8	GLAND BUSH
9	OIL SEAL DRIVE END SIDE
10	PAPER PACKING FOR BEARING COVER DRIVE AND SIDE

PART NO.	NAME OF PART
11	BEARING COVER DRIVE AND SIDE
12	OIL SEAL NON DRIVE END SIDE
13	PAPER PACKING FOR BEARING COVER NON DRIVE END SIDE
14	BEARING COVER NON DRIVE END SIDE
15	PUMP SHAFT
16	KEY FOR COUPLING
17	SHAFT SLEEVE
18	PAPER PACKING PUMP HOUSING
19	WATER DEFLECTOR
20	GLAND PACKING

PART NO.	NAME OF PART
21	MECHANICAL SEAL WASHER
22	MEACHANICAL SEAL
23	O RING FOR MECH SEAL FLANGE
24	MECH SEAL FLANGE
25	IMPELLER NUT
26	SPRING WASHER FLAT FOR IMPELLER NUT
27	WASHER FOR IMPELLER NUT
28	BEARING DRIVE END SIDE
29	BEARING NON DRIVE END SIDE

PERFORMANCE AT 1450 RPM

The performance of the pump is same for Gland / Mechanical Seal Pumps.

Kirloskar Oil Engines

SR. NO.	PUMP NAME	PUMP MODEL NO.	PIPE SIZE (MM)	SPEED	DIA. IMPELLER	DUTY POINT		HEAD RANGE	DISC. RANGE	MOTOR
			SUC X DEL	(RPM)	(MM)	HEAD (MTRS)	DISC(M3/HR.)	(MTRS)	(M3/HR.)	HP (KW)
1	KP-32/130	IES.5032.130.3.GS	50 X 32	1450	139	5.5	7.2	3.00 - 6.00	10-5	0.13 (0.10) - 0.34 (0.25)
2	KP-32/160	IES.5032.160.3.GS	50 X 32	1450	174	8.5	9.3	5.00 - 10.00	11-4	0.27 (0.20) - 0.67 (0.50)
3	KP-32/200	IES.5032.200.3.GS	50 X 32	1450	214	14	9.0	8.00 - 15.50	13-6	0.40 (0.30) - 1.07 (0.80)
4	KP-32/260	IES.5032.260.3.GS	50 X 32	1450	264	20.5	9.8	14.00 - 24.00	13.32-4.64	1.34 (1.00) - 2.35 (1.75)
5	KP-40/130	IES.6540.130.3.GS	65 X 40	1450	139	5.75	15.0	3.00 - 6.00	20-14	0.27 (0.20) - 0.67 (0.50)
6	KP-40/160	IES.6540.160.3.GS	65 X 40	1450	174	8.5	15.5	5.00 - 9.50	20-10	0.40 (0.30) - 0.94 (0.70)
7	KP-40/200	IES.6540.200.3.GS	65 X 40	1450	214	13	15.5	8.00 - 15.00	19-10	0.67 (0.50) - 1.61 (1.20)
8	KP-40/260	IES.6540.260.3.GS	65 X 40	1450	264	21.5	14.0	14.00 - 24.00	21-6	1.34 (1.00) - 3.35 (2.50)
9	KP-50/130	IES.6550.130.3.GS	65 X 50	1450	139	5.75	28.8	3.00 - 6.50	40-15	0.40 (0.30) - 1.07 (0.80)
10	KP-50/160	IES.6550.160.3.GS	65 X 50	1450	174	9	32.5	5.00 - 10.50	40-10	0.67 (0.50) - 1.88 (1.40)
11	KP-50/200	IES.6550.200.3.GS	65 X 50	1450	214	14	30.0	8.00 - 15.50	40-17.5	1.34 (1.00) - 2.68 (2.00)
12	KP-50/260	IES.6550.260.3.GS	65 X 50	1450	264	23	31.2	14.00 - 25.50	40-12.49	2.68 (2.00) - 5.36 (4.00)
13	KP-65/130	IES.8065.130.3.GS	80 X 65	1450	139	5.75	48.0	3.00 - 6.50	58.72-27.5	0.87 (0.65) - 1.41 (1.05)
14	KP-65/160	IES.8065.160.3.GS	80 X 65	1450	174	8.5	55.0	5.00 - 10.00	69.68-30	1.34 (1.00) - 2.51 (1.88)
15	KP-65/200	IES.8065.200.3.GS	80 X 65	1450	214	14	56.0	8.00 - 16.00	75-30	2.01 (1.50) - 5.36 (4.00)
16	KP-65/260	IES.8065.260.3.GS	80 X 65	1450	264	22	62.5	14.00 - 24.50	85-27.5	3.35 (2.50) - 9.39 (7.00)
17	KP-65/320	IES.8065.320.3.GS	80 X 65	1450	329	32.5	66.5	20.00 - 36.00	90-45	6.03 (4.50) - 14.08 (10.5)
18	KP-80/160	IES.1080.160.3.GS	100 X 80	1450	174	9	77.5	5.00 - 10.40	100-20	1.67 (1.25) - 4.02 (3.00)
19	KP-80/200	IES.1080.200.3.GS	100 X 80	1450	214	14	90.0	8.00 - 15.50	135-14	3.35 (2.50) - 6.71 (5.00)
20	KP-80/260	IES.1080.260.3.GS	100 X 80	1450	264	19.5	90.0	14.00 - 23.50	113.33-33.34	4.69 (3.50) - 9.39 (7.00)
21	KP-80/320	IES.1080.320.3.GS	100 X 80	1450	329	32.5	100.0	20.00 - 36.00	145-60	8.04 (6.00) - 20.11 (15.00)
22	KP-100/200	IES.1210.200.3.GS	125 X 100	1450	214	13.8	140.0	8.00 - 15.50	180-80	4.69 (3.50) - 9.39 (7.00)
23	KP-100/260	IES.1210.260.3.GS	125 X 100	1450	264	22	150.0	14.00 - 24.50	190-100	8.05 (6.00) - 17.43 (13.00)
24	KP-100/320	IES.1210.320.3.GS	125 X 100	1450	329	34	140.0	20.00 - 36.00	180-110	10.05 (7.50) - 25.47 (19.00)
25	KP-100/400	IES.1210.400.3.GS	125 X 100	1450	409	52.5	150.0	38.00 - 57.50	200-90	20.11 (15.00) - 45.58 (34.00)
26	KP-125/260	IES.1512.260.3.GS	150 X 125	1450	264	20	237.5	14.00 - 23.00	310-125	10.73 (8.00) - 24.14 (18.00)
27	KP-125/320	IES.1512.320.3.GS	150 X 125	1450	329	33	187.5	20.00 - 36.00	256.25-125	16.76 (12.50) - 33.53 (25.00)
28	KP-125/400	IES.1512.400.3.GS	150 X 125	1450	409	51	250.0	38.00 - 57.50	340-125	40.23 (30.00) - 70.40 (52.50)

PERFORMANCE AT 2900 RPM

The performance of the pump is same for Gland / Mechanical Seal Pumps.

kirloskar Oil Engines

SR. NO.	PUMP NAME	PUMP MODEL NO.	PIPE SIZE	SPEED	DIA. IMPELLER	DUTY POINT	DISC	HEAD RANGE	DISC. RANGE	MOTOR
			SUC X DEL - MM	RPM	MM	HEAD MTRS	M3/HR.	MTRS	M3/HR.	HP KW
1	KP-32/130	IES.5032.130.3.GS	50 X 32	2900	139	21	4.17	10.00 - 24.00	5.56 - 3.06	1.34 (1.00) - 2.35 (1.75)
2	KP-32/160	IES.5032.160.3.GS	50 X 32	2900	174	36	4.86	20.00 - 40.00	6.11 - 3.19	2.01 (1.50) - 4.69 (3.50)
3	KP-32/200	IES.5032.200.3.GS	50 X 32	2900	214	53	4.86	30.00 - 62.50	6.39 - 2.78	4.02 (3.00) - 7.38 (5.50)
4	KP-32/260	IES.5032.260.3.GS	50 X 32	2900	264	87	6.11	60.00 - 97.00	34.87 - 3.89	12.07 (9.00) - 18.77 (14.00)
5	KP-40/130	IES.6540.130.3.GS	65 X 40	2900	139	23	8.06	10.00 - 25.00	10.42 - 5.83	1.34 (1.00) - 4.02 (3.00)
6	KP-40/160	IES.6540.160.3.GS	65 X 40	2900	174	34	8.33	20.00 - 39.00	11.11 - 4.86	2.68 (2.00) - 6.70 (5.00)
7	KP-40/200	IES.6540.200.3.GS	65 X 40	2900	214	55	8.06	30.00 - 61.00	10.56 - 5.14	5.36 (4.00) - 11.40 (8.50)
8	KP-40/260	IES.6540.260.3.GS	65 X 40	2900	264	83	8.33	60.00 - 95.00	11.11 - 4.44	10.73 (8.00) -21.46 (16.00)
9	KP-50/130	IES.6550.130.3.GS	65 X 50	2900	139	24	15.97	10.00 - 26.00	20.83 - 8.33	2.68 (2.00) - 8.72 (6.50)
10	KP-50/160	IES.6550.160.3.GS	65 X 50	2900	174	38	17.64	20.00 - 41.00	23.61 - 13.19	5.36 (4.00) - 14.08 (10.50)
11	KP-50/200	IES.6550.200.3.GS	65 X 50	2900	214	56	16.67	30.00 - 63.00	22.22 - 8.33	9.39 (7.00) - 20.12 (15.00)
12	KP-50/260	IES.6550.260.3.GS	65 X 50	2900	264	92	17.36	60.00 - 98.00	22.22 - 12.50	20.12 (15.00) - 43.58 (32.50)
13	KP-65/130	IES.8065.130.3.GS	80 X 65	2900	139	22.5	26.67	10.00 - 25.50	35.42 - 15.28	6.03 (4.50) - 11.06 (8.25)
14	KP-65/160	IES.8065.160.3.GS	80 X 65	2900	174	35	30.56	20.00 - 41.00	38.89 - 15.28	9.38 (7.00) - 18.77 (14.00)
15	KP-65/200	IES.8065.200.3.GS	80 X 65	2900	214	55	31.25	40.00 - 63.50	41.67 - 18.06	16.76 (12.50) - 36.88 (27.50)
16	KP-65/260	IES.8065.260.3.GS	80 X 65	2900	264	89	34.72	60.00 - 98.00	41.67 - 13.89	26.82 (20.00) - 60.35 (45.00)
17	KP-80/160	IES.1080.160.3.GS	100 X 80	2900	174	36	43.06	20.00 - 40.00	55.56 - 26.39	13.41 (10.00) - 36.82 (25.00)
18	KP-80/200	IES.1080.200.3.GS	100 X 80	2900	214	55	51.39	40.00 - 63.00	65.28 - 22.22	20.12 (15.00) - 53.64 (40.00)
19	KP-80/260	IES.1080.260.3.GS	100 X 80	2900	264	77.5	47.22	60.00 - 93.00	58.33 - 16.67	26.82 (20.00) - 67.05 (50.00)
20	KP-100-200	IES.1210.200.3.GS	125 X 100	2900	214	53	76.39	40.00 - 60.00	93.75 - 45.14	33.53 (25.00) - 73.76 (55.00)
21	KP-100/260	IES.1210.260.3.GS	125 X 100	2900	264	87	76.39	60.00 - 98.00	104.17 - 34.72	60.35 (45.00) - 134.10 (100.00)

Kirloskar
Oil Engines

VERTICAL INLINE MULTISTAGE PUMP

Industrial Sector

Domestic Sector

Civil Sector

VERTICAL INLINE PUMP

Kirloskar Oil Engines

TECHNICAL DETAILS

Head range	: Upto 305 mtrs
Discharge range	: Upto 240 M3/Hr.
Power ratings	: Upto 150 HP
Voltage range	: 415 Volts 3Phase
Protection	: IP 55
Insulation	: F Class
pH Value	: 4 to 10
Altitude	: Up to 1000 mtrs
Liquid medium	: Clean clear liquid free from suspended solids
Liquid temperature range	: Up to 75°C
Motors	: All motors are designed under IE2 & IE3 specification
Maximum operating pressure	: UPTO 32 Bar
Frequency	: 50 HZ
Connecting flange	: PN 25/ DN 40
Negative section	: Maximum 3 meters with foot valve3
Also Available in 60Hz	

MATERIAL OF CONSTRUCTION

Base plate/Pump casing	: Cast Iron
Drainage plug assembly	: SS 304
Diffuser	: SS 304
Diffuser bearing/Support diffuser	: SS 304
Impeller	: SS 304
Impeller sleeves	: SS 304
Motor base/Pump head	: Cast Iron
Vent plug assembly	: SS 304
Pump shaft	: SS 304
Pump casing (Suc & Del)	: Cast Iron/
	: SS304/SS316
MOC Optional	: SS316/SS316L
Sp. Mech. Seal	: -15° C to +120° C

Clean Water Handling

APPLICATIONS

- Building & construction segment - booster, fire fighting, hydro pneumatic systems, heating, ventilation and air conditioning systems, machine tools.
- Water treatment - reverse osmosis systems (RO), softening, demineralizing systems, distillation systems
- Dairy, food processing and beverage industries - supply of clean water
- Industrial - condensate & other liquid transfer. Long range pipe lines

VERTICAL INLINE PUMP

FEATURES

Superior pump hydraulics
The superior performance of our pump hydraulics is achieved through the latest and most advanced manufacturing processes. Coupled with an IE2/IE3 motor, this ensures higher efficiency.

Cartridge type mechanical seal
The pump comes with a heat and wear resistance mechanical seal with zero leakage and frictional loss

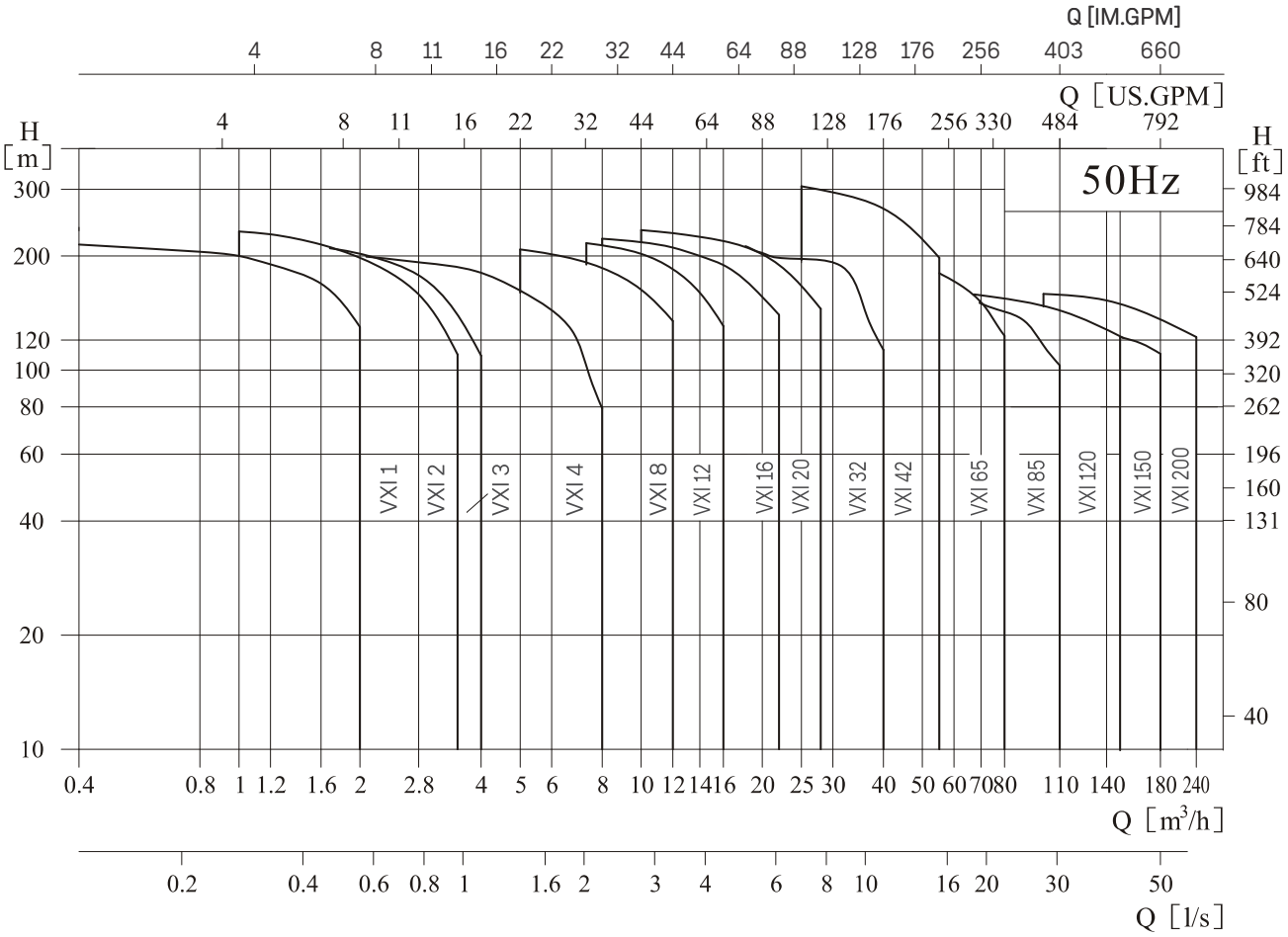
Easy replaceable wearing parts
The internal components of the pumps are easily accessible and in easy maintenance.

Precisely manufactured parts
The extended lifespan of pumps is attributed to minimal vibrations experienced during operation.

Easy maintainable designs
The extended lifespan of pumps is attributed to minimal vibrations experienced during operation.

High head applications
The pump has been engineered to effectively manage and expel substantial amounts of water, particularly for applications requiring high pressure.

PERFORMANCE SCOPE



Kirloskar Oil Engines

PERFORMANCE DATA

PUMP SELECTION GUIDE	IVI	5050	03	03	06
CODE DESCRIPTION	Industrial vertical inline	Pipe size (mm) Suc x Del	HP	Phase	No. of stages

SR. NO.	PUMP MODEL NO.	KOEL PART NO. (IE2)	KOEL PART NO. (IE3)	PIPE SIZE SUC X DEL MM	POWER KW.	POWER HP	STAGE	DISC. M3/HR.	5	6	7	8	9	10	11	12
1	KIV1-2	IVI.5050E2.01.03C.02	IVI.5050E3.01.03C.02	DIN40	0.75	1	2	Head-Mtrs.	20	20	19	18	17	16	14	13
2	KIV2-4	IVI.5050E2.02.03C.04	IVI.5050E3.02.03C.04	DIN40	1.5	2	4		41	40	38	36	34	32	28	26
3	KIV3-5	IVI.5050E2.03.03C.05	IVI.5050E3.03.03C.05	DIN40	2.2	3	5		52	50	48	45	42	40	36	32
4	KIV3-6	IVI.5050E2.03.03C.06	IVI.5050E3.03.03C.06	DIN40	2.2	3.0	6		62	60	57	54	51	48	43	39
5	KIV4-8	IVI.5050E2.04.03C.08	IVI.5050E3.04.03C.08	DIN40	3	4.0	8		83	80	77	73	69	65	58	52
6	KIV6-10	IVI.5050E2.06.03C.10	IVI.5050E3.06.03C.10	DIN40	4	5.5	10		104	100	97	92	87	81	73	65
7	KIV6-12	IVI.5050E2.06.03C.12	IVI.5050E3.06.03C.12	DIN40	4	5.5	12		124	120	116	111	104	92	87	78
8	KIV8-14	IVI.5050E2.75.03C.14	IVI.5050E3.75.03C.14	DIN40	5.5	7.5	14		145	141	136	130	122	113	102	92
9	KIV8-16	IVI.5050E2.75.03C.16	IVI.5050E3.75.03C.16	DIN40	5.5	7.5	16		166	161	156	148	139	130	118	106
10	KIV10-18	IVI.5050E2.10.03C.18	IVI.5050E3.10.03C.18	DIN40	7.5	10	18		187	182	175	167	157	146	137	120
11	KIV10-20	IVI.5050E2.10.03C.20	IVI.5050E3.10.03C.20	DIN40	7.5	10	20		208	202	195	186	175	163	150	135

kirloskar
Oil Engines

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