

### SELF PRIMING- SEWAGE PUMP

#### **Applications:**

- Industrial: Pumping petroleum products, chemicals, effluents, sewage, ash-water
- Industries for clear water handling at high pressures
- Mobile Machinery: Cooling water for marine engines and shovels
- Civil Construction: De-watering foundation, trenches and pits
- Public Utilities: Sewage pumping
- Marine: Pumping water from docks, ports, vessels
- Flood relief
- De-watering from basements, multistoreys, shopping malls, godowns, etc.

# Material of Construction: (as applicable)

	Standard Supply
Impeller/Diffuser	Cast Iron (FG 200)
Delivery Casing	Cast Iron (FG 200)
Motor Body	Cast Iron (FG 200)
Shaft	Carbon Steel (C40)
Shaft Sleeve	Bronze (LTB2)
Protection	"IP 44" (IP 55 incase of Three phase SP Coupleset)
Class of Insulation	"B" (SP'M'& Single Phase SP'O' Coupleset & SP'1H' Coupleset) "F" (SP Coupleset)
Sealing	Gland Packed
Hardware	Mild Steel (FE 410)

Optional Supply Bronze (LTB2)/ Stainless Steel (AISI 304)

Stainless Steel (AISI 410) Stainless Steel

- "IP 55" (IP 44 incase of SPOM & Single phase SP Coupleset)
- "F" Except SPOM, Single Phase SP'O' Coupleset & SP'1H' Coupleset

#### Mechanical Seal

Note: In case of any deviation in requirements, please contact at our nearest regional office.



# ning Bare Pump

: Upto 34 metres Head range Discharge range: Upto 77 lps Power rating : 0.75 - 18.7 kW (1-25 HP) Motor Coupled 4.0 - 19.5 kW (6-26 HP) Engine Coupled



## SP'M'

Self Priming Monoblo	сP	ump
Head range	:	Upto 24 metres
Discharge range	:	Upto 17.4 lps
Power rating	:	0.75-3.7 kW (1-5 H
Voltage range	:	300-440V (3 Ph)
		180-240V (1 Ph)



# SP Coupled Set

Head range	:	Upto 32 metres
Discharge range	:	Upto 75 lps
Power rating	:	0.75 - 18.7 kW
-		(1 - 25 HP)
Voltage range	:	350-440V (3 Ph)
		200-240 V (1 Ph)



#### **Attributes:**

- Flatter efficiency curve for efficient operation
- Designed to prevent overloading and motor burning
- Designed for automatic air release during priming
- Non clogging impeller to handle suspended solids
- Portable when fitted on trolley/ trailer
- Dynamically balanced rotating parts ensuring minimum vibration during running
- Grease lubricated deep groove ball bearing
- Models with IP55 protection
- **Replaceable wearing parts**

Approximate performance of 'SP' (Self Priming) Series, Bare Shaft/ Coupled Pumpset - at rated speed:

PUMP	MO	TOR	PI	PE	IMPELLER		TOTAL HEAD IN METRES										RATED	RATED			
MODEL	RAT	ING	SI	ZE	DIA.	6	8	10	12	14	15	17	19	22	23	25	28	30	32	VOLTAGE	SPEED
	kW	HP	SUC.	DEL.	(mm)					CA	PACITY	IN LIT	RES P	ER SE	COND					(VOLTS)	(RPM)
SP '0'	0.75	1.0	40	40	116	4.75	4.3	3.8	3.0	1.9	1.2									7.0	2850
SP 1H	1.5	2.0	40	40	134			6.0	5.3	4.4	4.0	2.8	0.9							8.5	2870
SP 2H	2.2	3.0	50	50	145			9.0	8.5	7.8	7.3	6.5	5.4	3.4	2.65	0.8				10.5	2870
SP 3A	3.7	5.0	80	80	174								9.9	8.6	8.0	6.6	4.3	2.4		7.0	2860
SP 3	5.5	7.5	80	80	174									15.9	15.5	14.2	11.7	9.4	7.1	14.5	2920
SP 3L+	3.7	5.0	80	80	224			17.3	15.4	12.2	10.4	6.0								15.5	1450
SP 4LA+	7.5	10.0	100	100	292			35.5	33.5	30.8	29.5	26.5	23.3	17.0	14.0					18.5	1455
SP 4L+	9.3	12.5	100	100	292			41.0	39.0	36.0	34.7	31.5	27.5	21.0	18.6	12.5				23.0	1440
SP 6LA+	15.0	20.0	150	150	296			66.3	63.4	59.8	57.5	52.0	45.5	34.2	29.5					34.0	1470
SP 6L	18.7	25.0	150	150	296			75.0	72.5	68.7	66.2	61.3	55.5	45.0	39.5	27.5				40.0	1475

NOTE: All pumps are available in three phase. SP '0' & SP '1H' is also available in single phase. Performance applicable to liquid of specific gravity 1 and viscosity as of water.

Approximate performance of SP 'M' (Self Priming Monobloc Pump) Series - at rated voltage, 50 Hz A.C. Power Supply:

PUMP	PO	WER	PII	PE	IMPELLER		TOTAL HEAD IN METRES									RATED	RATED
MODEL	RA	ΓING	SIZE		DIA.	6	8	10	12	14	16	18	20	22	24	VOLTAGE	SPEED
	kW	HP	SUC.	DEL.	(mm)		CAPACITY IN LITRES PER SECOND									(VOLTS)	(RPM)
SP '0'M*	0.75	1.0	40	40	116	4.45	3.95	3.25	2.3	1.5						7.0	2850
SP 1HM	1.5	2.0	40	40	134			5.75	5.13	4.25	3.13	1.5				8.5	2870
SP 2HM	2.2	3.0	50	50	145			8.75	8.2	7.48	6.55	5.5	4.3	3.0	1.1	10.5	2870
SP 3LM+	3.7	5.0	80	80	224			17.4	15.4	12.5	8.1	3.5				15.5	1450

\*SP 'O'M is supplied for 210 volts single phase A.C. power supply and has mechanical seal arrangement. However, it can also be supplied in three phase A.C. power against the requirement. All other pumpsets are supplied for three phase A.C. power supply and with stuffing box arrangement for gland pack or mechanical seal as per the requirement. NOTE: Performance applicable to liquid of specific gravity 1 and viscosity as of water.

Approximate performance of 'SP' (Self Priming) Series - Engine Coupled Pump - at rated speed:

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PUMP	MC	TOR	PI	PE	IMPELLER		TOTAL HEAD IN METRES								RATED	RATED				
MODEL	RA	TING	SI	ZE	DIA.	10	12	14	15	16	18	19	20	22	24	25	26	28	VOLTAGE	SPEED
	kW	HP	SUC.	DEL.	(mm)		CAPACITY IN LITRES PER SECOND									(VOLTS)	(RPM)			
SP3L+	4.0	6.0	80	80	224	17.7	15.6	14.0	12.5	8.5	6.0	3.5							15.5	1500
SP3L+	9.0	12.0	80	80	224				22.5	22.0	20.7	19.9	19.0	16.7	13.7	12.0	10.1	6.0	15.5	1800
SP 4LA+	9.0	12.0	100	100	292		36.3	33.9	32.5	31.2	28.2	26.6	25.0	21.5	17.1	14.5	11.5		18.5	1500
SP 4L+	10.5	14.0	100	100	292		41.2	39.1	38.0	36.5	33.9	32.0	30.5	26.4	21.5	18.5	16.0	9.9	23.0	1500
SP 6LA	16.5	22.0	150	150	296	68.0	66.1	63.0	62.0	59.0	53.5	51.7	48.0	41.0	32.8	28.4	22.5		34.0	1500
SP 6L	19.5	26.0	150	150	296	77.5	75.0	72.0	71.0	68.0	63.0	62.0	57.0	51.0	42.5	38.8	32.5		40.0	1500