



Enriching Lives

# SELF-PRIMING PUMPS

## CONSTRUCTION MATERIAL

	Standard Supply	Optional Supply
Impeller	: Cast Iron	Stainless Steel/ Bronze
Delivery Casing	: Cast Iron	
Shaft	: Carbon Steel	Stainless Steel
Shaft Sleeve	: Stainless Steel	
Class of Insulation	: "B" (SP M & Single Phase SP 0 Coupled Set & SP 1H Coupled Set)	"F" Except SPOM, Single Phase SP 0 Coupled Set & Coupled Set &
SP 1H Coupled Set)	SP 1H Coupled Set "F" (SP Coupled Set)	
Sealing	: Gland Packed	Mechanical Seal

## FEATURES

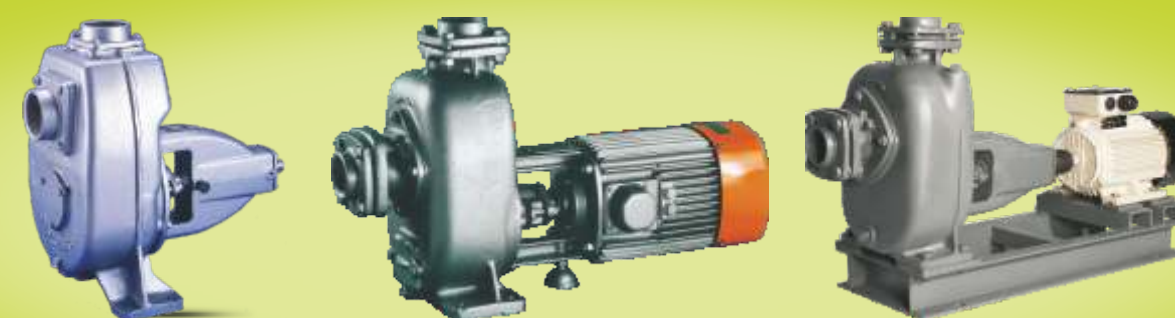
- Self priming and able to handle suspended soft solids
- Flatter efficiency curve for efficient operation
- Designed to prevent overloading and motor burning
- Designed for automatic air release during priming
- Non clogging impeller to handle suspended Soft solids
- Portable when fitted on trolley/trailer
- Dynamically balanced rotating parts ensuring minimum vibration during running
- Replaceable wearing parts
- Impeller is C.E.D. coated
- No need for foot valve

## APPLICATIONS

- **Industrial:** Pumping Light Chemical, effluents, sewage, ash-water
- Industries for clear water handling at high pressures
- **Mobile Machinery:** Cooling water for de-watering
- **Marine:** Pumping water from docks, ports, vessels
- De-watering from basements, multi storeys, shopping malls, godowns, etc.



# SELF-PRIMING PUMPS



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### OUR COMPANIES

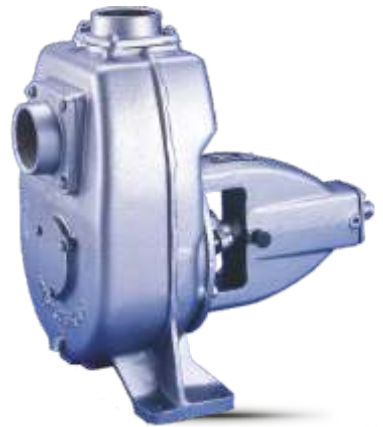


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**KIRLOSKAR BROTHERS LIMITED**  
 A Kirloskar Group Company  
 Established 1888

## SP

### Self-Priming Non-clog Bare Pump



#### PRODUCT SNAPSHOT

##### Range and Technical Specification

Head range	: Upto 44 meters
Discharge range	: Upto 73 LPS
Power Rating	: 0.75 - 18.7 kW (1-25 HP) Motor Coupled 4.0 - 19.5 kW (6-26 HP) Engine Coupled

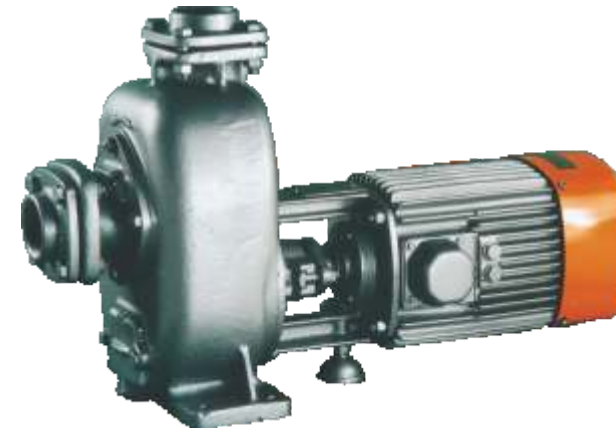
Approximate performance of 'SP' (Self Priming) Series, Bare Shaft / Coupled Pumpset - at rated speed:

Pump Model	Power Rating		Pipe Size (mm)		Impeller Dia. (mm)	TOTAL HEAD IN METERS										Solid Size (mm)	Rated Speed (rpm)						
	kW	HP	SUC.	DEL.		DISCHARGE IN LITRES PER SECOND																	
						6	8	10	12	14	16	18	20	22	24								
SP 0'	0.75	1	40	40	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.0	2760	
SP 1H	1.5	2	40	40	134	-	4.1	3.6	2.7	1.5	0.8	-	-	-	-	-	-	-	-	-	8.5	2900	
SP 2H	2.2	3	50	50	145	-	-	5.6	4.8	4.5	3.4	2.0	-	-	-	-	-	-	-	-	10.5	2900	
SP 3A	3.7	5	80	80	174	-	-	8.7	8.1	7.8	7.0	6.0	4.2	3.5	1.8	-	-	-	-	-	7.0	2900	
SP 3	5.5	7.5	80	80	174	-	-	-	-	-	-	-	9.2	8.7	7.5	5.25	3.7	1.9	-	-	14.5	2900	
SP 3L+	3.7	5	80	80	224	-	-	-	-	-	-	-	16.5	13.5	11.5	8.0	3	-	-	-	15.5	1450	
SP 3HH	9.3	12.5	80	80	194	-	-	-	-	-	-	-	33.5	31.0	30.0	27.0	24.0	18.0	15.0	-	14.5	2900	
SP 4LA	7.5	10	100	100	292	-	-	-	-	-	-	-	39.0	37.0	35.0	32.0	28.0	22.0	19.5	14.0	-	1450	
SP 4L+	9.3	12.5	100	100	292	-	-	-	-	-	-	-	63.4	60.0	57.5	52.5	45.0	34.3	30.0	16.0	-	1450	
SP6LA	15	20	150	150	296	-	-	-	-	-	-	-	72.5	68.7	66.2	61.3	55.0	45.0	40.0	27.5	-	1450	
SP6L	18.7	25	150	150	296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1450	
SP 8LA	11	15	200	200	240	-	-	-	-	-	-	-	72.0	60.0	32.0	20.0	-	-	-	-	-	60.0	1450

Note: All pumps are available in three Phase. SP0' & SP 1H is also available in single phase. Performance applicable to liquid of specific gravity 1 and viscosity as of water.

## SP M

### Self-Priming Non-clog Monobloc Pump



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

Pump Model	Power Rating		Pipe Size (mm)		Impeller Dia. (mm)	TOTAL HEAD IN METERS										Solid Size (mm)	Rated Speed (rpm)						
	kW	HP	Suc.	Del.		DISCHARGE IN LITRES PER SECOND																	
						6	8	10	12	14	16	18	20	22	24								
SP 0.5M*	0.37	0.5	40	40	116	-	2.6	2.1	1.2	-	-	-	-	-	-	-	-	-	-	-	-	5	2700
SP 0M*	0.75	1	40	40	116	-	4	3.2	2.3	1	-	-	-	-	-	-	-	-	-	-	-	7	2700
SP 1HM	1.5	2	40	40	134	-	-	-	5.13	4.25	3.13	1.5	-	-	-	-	-	-	-	-	-	8.5	2800
SP 2HM	2.2	3	50	50	145	-	-	-	8.2	7.4	6.5	5.5	4.3	3	-	-	-	-	-	-	-	10.5	2800
SP 3LM+	3.7	5	80	80	224	-	-	-	15.5	12.5	8	3.5	-	-	-	-	-	-	-	-	-	15.5	1420

\*SP 0.5M & SP 0M are 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.

## SP COUPLED SET

### Self-Priming Non-clog Pump



\*Note : Please refer to the adjacent performance table for more details (Self-Priming Non-clog Bare Pump)

## PRODUCT SNAPSHOT

### Range and Technical Specification

Head range	: Upto 22 meters
Discharge range	: Upto 15.5 LPS
Power Rating	: 0.37-3.7 kW (0.5-5 hp)
Voltage range	: 300 - 440V (3 Ph) 180 - 240V (1 Ph)

## PRODUCT SNAPSHOT

### Range and Technical Specification

Head Range	: Upto 44 meters
Discharge Range	: Upto 73 LPS
Power Rating	: 0.75 - 18.7 kW (1-25 HP) Motor Coupled Set 4.0 - 19.5 kW (6-26 HP) Engine Coupled Set
Voltage range	: 415± 10%