

SELF-PRIMING PUMPS

CONSTRUCTION MATERIAL

| | | |
|---------------------|--|--|
| Impeller | Standard Supply : Cast Iron | Optional Supply 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" (SP Coupled Set) | "F" Except SPOM, Single Phase SP 0 Coupled Set & |
| SP 1H Coupled Set | : 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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HRZ 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 (kW) | HP | SUC. DEL. (mm) | TOTAL HEAD IN METERS | | | | | | | | | | | Rated Speed (rpm) | | |
|------------|-------------------|------|----------------|----------------------|---|----|----|----|----|----|----|----|----|---|-------------------|---|------|
| | | | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | | | | |
| SP 0 | 0.75 | 1 | 40 | 116 | - | - | - | - | - | - | - | - | - | - | - | - | 2760 |
| SP 1H | 1.5 | 2 | 40 | 134 | - | - | - | - | - | - | - | - | - | - | - | - | 2900 |
| SP 2H | 2.2 | 3 | 50 | 145 | - | - | - | - | - | - | - | - | - | - | - | - | 2900 |
| SP 3A | 3.7 | 5 | 80 | 174 | - | - | - | - | - | - | - | - | - | - | - | - | 2900 |
| SP 30 | 5.5 | 7.5 | 80 | 174 | - | - | - | - | - | - | - | - | - | - | - | - | 2900 |
| SP 3L+ | 3.7 | 5 | 80 | 224 | - | - | - | - | - | - | - | - | - | - | - | - | 1450 |
| SP 3HM | 9.3 | 12.5 | 80 | 194 | - | - | - | - | - | - | - | - | - | - | - | - | 2900 |
| SP 4LA | 7.5 | 10 | 100 | 292 | - | - | - | - | - | - | - | - | - | - | - | - | 1450 |
| SP 4L+ | 9.3 | 12.5 | 100 | 292 | - | - | - | - | - | - | - | - | - | - | - | - | 1450 |
| SP 4L+ | 9.3 | 12.5 | 100 | 292 | - | - | - | - | - | - | - | - | - | - | - | - | 1450 |
| SP 4L+ | 9.3 | 12.5 | 100 | 292 | - | - | - | - | - | - | - | - | - | - | - | - | 1450 |
| SP 6L | 18.7 | 25 | 150 | 296 | - | - | - | - | - | - | - | - | - | - | - | - | 1450 |
| SP 6LA | 18.7 | 25 | 150 | 296 | - | - | - | - | - | - | - | - | - | - | - | - | 1450 |
| SP 8LA | 11 | 15 | 200 | 240 | - | - | - | - | - | - | - | - | - | - | - | - | 1450 |

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.

SP M

Self-Priming Non-clog Monobloc 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)

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

| Pump Model | Power Rating (kW) | HP | SUC. DEL. (mm) | Impeller Dia. (mm) | TOTAL HEAD IN METERS | | | | | | | | | | | Rated Speed (rpm) | |
|------------|-------------------|-----|----------------|--------------------|----------------------|---|----|----|----|----|----|----|----|----|---|-------------------|------|
| | | | | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | | | |
| SP 0.5M* | 0.37 | 0.5 | 40 | 116 | - | - | - | - | - | - | - | - | - | - | - | - | 2700 |
| SP 0M* | 0.75 | 1 | 40 | 116 | - | - | - | - | - | - | - | - | - | - | - | - | 2700 |
| SP 1HM | 1.5 | 2 | 40 | 134 | - | - | - | - | - | - | - | - | - | - | - | - | 2800 |
| SP 2HM | 2.2 | 3 | 50 | 145 | - | - | - | - | - | - | - | - | - | - | - | - | 2800 |
| SP 3LM+ | 3.7 | 5 | 80 | 124 | - | - | - | - | - | - | - | - | - | - | - | - | 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



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%

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