

BOTTOM SUCTION PUMPS - 50Hz

BS SERIES



C.R.I. Bottom Suction Pump (BS Series)

Understanding the multifarious need of present-day customers and the need of optimizing the efficiency C.R.I. produces BS Series bottom suction pumps suitable for several applications. These pumps are designed and developed by a proficient team backed by over 50 years of unmatched expertise of C.R.I. in the pump industry.

Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw material, dynamically balanced impellers, seals and ball bearings to ensure long life.

BS Series pumps are close-coupled type and available with multiple impellers and motor is protected by double sealing system with an oil chamber. These pumps are supplied with float switch, 14 metre lead out cable and control box (only for single phase).



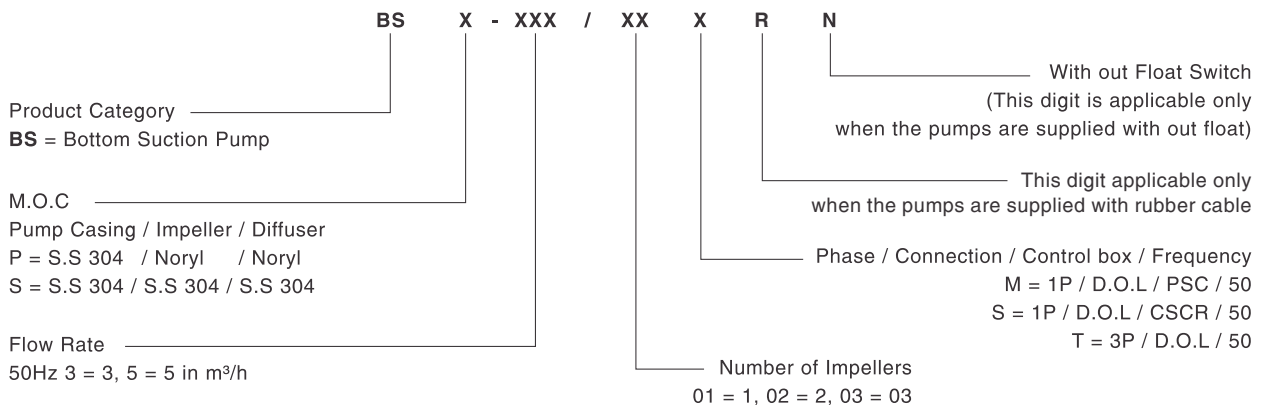
Specifications (Motor & Pump)

| | |
|----------------------|--|
| Max. Overall Dia. | : 128.5mm |
| Outlet Dia. | : 1¼" (32mm) BSP |
| Power Range | : 0.6kW - 1.2kW |
| Speed | : 2850 rpm |
| Versions | : 1 Ph, 230V - 50Hz A.C. Supply 3 Ph, 380V - 50Hz A.C. Supply |
| Class of Insulation | : F |
| Degree of Protection | : IP 68 |
| Method of Starting | : 1 Ph - Permanent Split Capacitor (PSC) 3 Ph - Direct Online (DOL) |

Operating Conditions

| | |
|---------------------------|----------------|
| Maximum fluid temperature | : up to +40°C. |
| Maximum sand content | : 25 g/m³ |
| Maximum immersion depth | : 20m. |
| Passage of Solids | : Upto 1.5mm |

Model Identification Code



Description : BSP - 3/05M, Bottom Suction Pump, 3m³/h, 5 stage, Single Phase.

Applications

- Domestic water supply.
- Garden irrigation.
- Pressure Boosting.
- Rain water collection.
- Sprinklers.
- Civil and industrial applications.

Features

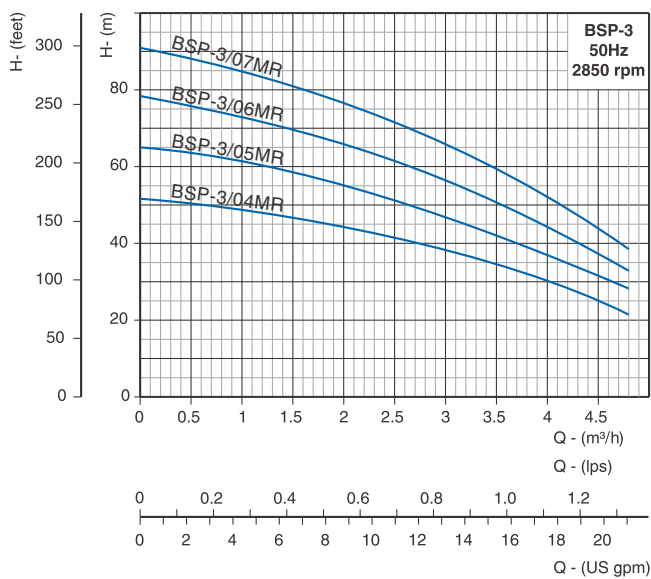
- Fitted with thermal overload protector in single phase models.
- Float switch to avoid dry running.
- Corrosion free parts for hygiene.
- Most reliable double sealing.
- Self cooling system.
- Aesthetically designed.
- Can be operated in horizontal position.

Materials of Construction

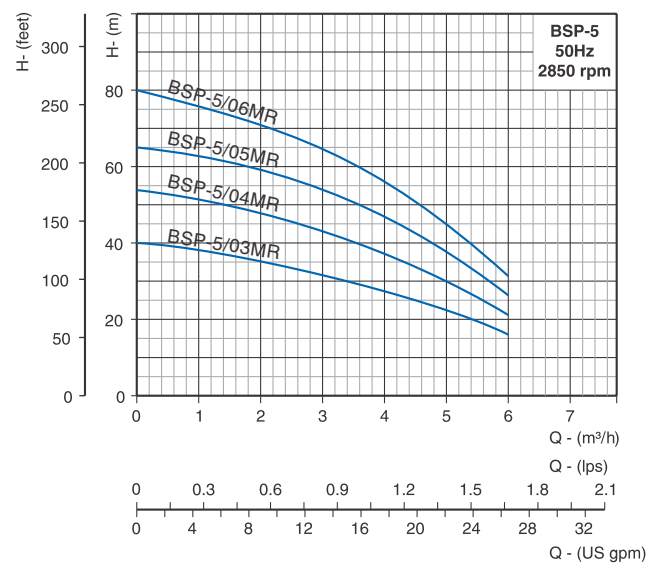
| Components | Material |
|--------------------------|--|
| Pump & Motor outer shell | S.S 304 |
| Discharge outlet chamber | S.S 304 |
| Impeller | PPO |
| Diffuser | PPO |
| Pump Shaft | S.S. 420 |
| Mechanical seal | Double mechanical seal (Carbon / Ceramics & Sic / Sic) |
| Lubricant | Non-toxic edible grade oil |
| Strainer | S.S 304 |

Performance Curve

BSP - 3m³/h



BSP - 5m³/h



Performance Table

NOMINAL FLOW - 3m³/h

OUTLET SIZE : 1 1/4"

| Pump Model | Power | | Current (A) | | Capacitor (1Ph) | l/s | 0 | 0.33 | 0.5 | 0.67 | 0.83 | 1.0 | 1.17 | 1.33 |
|------------|-------|-----|-------------|----------|-----------------|----------------------|-------------------|------|-----|------|------|-----|------|------|
| | kW | HP | 1Ph-230V | 3Ph-380V | | | m ³ /h | 0 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | 4.2 |
| BSP-3/04MR | 0.6 | 0.8 | 4.4 | 2.2 | 20µF | Total Head in meters | 52 | 48 | 45 | 42 | 38 | 33 | 28 | 22 |
| BSP-3/05MR | 0.8 | 1.0 | 5.4 | 2.7 | 25µF | | 65 | 60 | 56 | 52 | 47 | 41 | 35 | 28 |
| BSP-3/06MR | 1.0 | 1.3 | 6.5 | 3.3 | 30µF | | 78 | 72 | 68 | 62 | 56 | 50 | 42 | 33 |
| BSP-3/07MR | 1.2 | 1.6 | 7.4 | 3.8 | 35µF | | 91 | 84 | 79 | 73 | 66 | 58 | 49 | 39 |

NOMINAL FLOW - 5m³/h

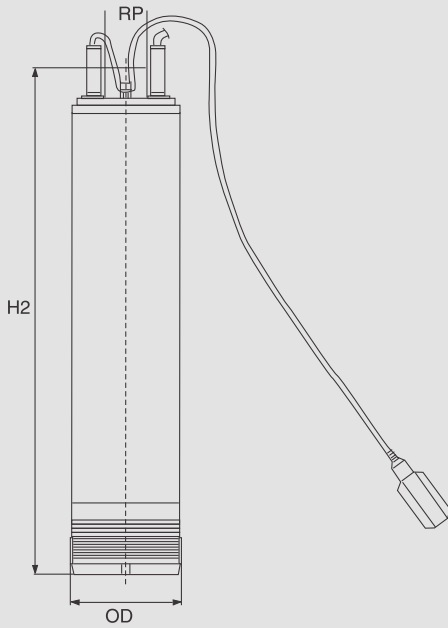
OUTLET SIZE : 1 1/4"

| Pump Model | Power | | Current (A) | | Capacitor (1Ph) | l/s | 0 | 0.5 | 0.67 | 0.83 | 1.0 | 1.17 | 1.33 | 1.5 | 1.67 |
|------------|-------|-----|-------------|----------|-----------------|----------------------|-------------------|-----|------|------|-----|------|------|-----|------|
| | kW | HP | 1Ph-230V | 3Ph-380V | | | m ³ /h | 0 | 1.8 | 2.4 | 3 | 3.6 | 4.2 | 4.8 | 5.4 |
| BSP-5/03MR | 0.6 | 0.8 | 4.4 | 2.2 | 20µF | Total Head in meters | 40 | 36 | 35 | 32 | 30 | 27 | 24 | 20 | 16 |
| BSP-5/04MR | 0.8 | 1.0 | 5.4 | 2.7 | 25µF | | 54 | 48 | 46 | 43 | 40 | 36 | 32 | 26 | 21 |
| BSP-5/05MR | 1.0 | 1.3 | 6.5 | 3.3 | 30µF | | 65 | 60 | 58 | 54 | 50 | 45 | 39 | 33 | 26 |
| BSP-5/06MR | 1.2 | 1.6 | 7.4 | 3.8 | 35µF | | 80 | 72 | 69 | 65 | 60 | 54 | 47 | 40 | 31 |

• Single phase models are available with and without float switch. For three phase models replace the letter "M" as "T" in the model name.

The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water in the tank, height of water column from the suction inlet chamber. Curve tolerance according to ISO 9906, Annex A.

Dimensions & Weight



BSP - 3m³

| Pump Model | Required Power | | Dimensions (mm) | | | Approx. Nett Weight in kg |
|------------|----------------|-----|-----------------|----|-----|---------------------------|
| | kW | HP | OD | RP | H2 | |
| BSP-3/04MR | 0.6 | 0.8 | 128.5 | 32 | 534 | 16.5 |
| BSP-3/05MR | 0.8 | 1.0 | 128.5 | 32 | 575 | 18 |
| BSP-3/06MR | 1.0 | 1.3 | 128.5 | 32 | 622 | 19.5 |
| BSP-3/07MR | 1.2 | 1.6 | 128.5 | 32 | 663 | 20.5 |

BSP - 5m³

| Pump Model | Required Power | | Dimensions (mm) | | | Approx. Nett Weight in kg |
|------------|----------------|-----|-----------------|----|-----|---------------------------|
| | kW | HP | OD | RP | H2 | |
| BSP-5/03MR | 0.6 | 0.8 | 128.5 | 32 | 508 | 16.5 |
| BSP-5/04MR | 0.8 | 1.0 | 128.5 | 32 | 549 | 18 |
| BSP-5/05MR | 1.0 | 1.3 | 128.5 | 32 | 596 | 19.5 |
| BSP-5/06MR | 1.2 | 1.6 | 128.5 | 32 | 637 | 20 |

In view of continuous developments the information / performance / descriptions / specifications / Illustrations are subject to change without notice.



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