

BOTTOM SUCTION PUMPS - 60Hz 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	: 1.1HP - 2.7HP
Speed	: 3450 rpm
Versions	: 1 Ph, 220V - 60Hz A.C. Supply 3 Ph, 380V - 60Hz 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

BS	X - XXX	/ XX	X	R	N
Product Category BS = Bottom Suction Pump	M.O.C Pump Casing / Impeller / Diffuser P = S.S 304 / Noryl / Noryl S = S.S 304 / S.S 304 / S.S 304	Flow Rate 60Hz 18 = 18GPM, 25 = 25GPM	Phase / Connection / Control box / Frequency 1 = 1PH / PSC / 60Hz 3 = 3PH / DOL / 60Hz	Number of Impellers 01 = 1, 02 = 2, 03 = 03	With out Float Switch (This digit is applicable only when the pumps are supplied with out float) This digit applicable only when the pumps are supplied with rubber cable

Applications

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

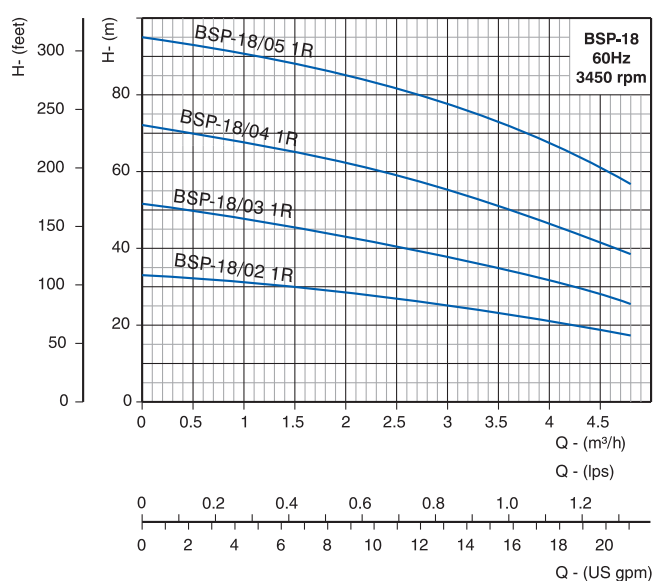
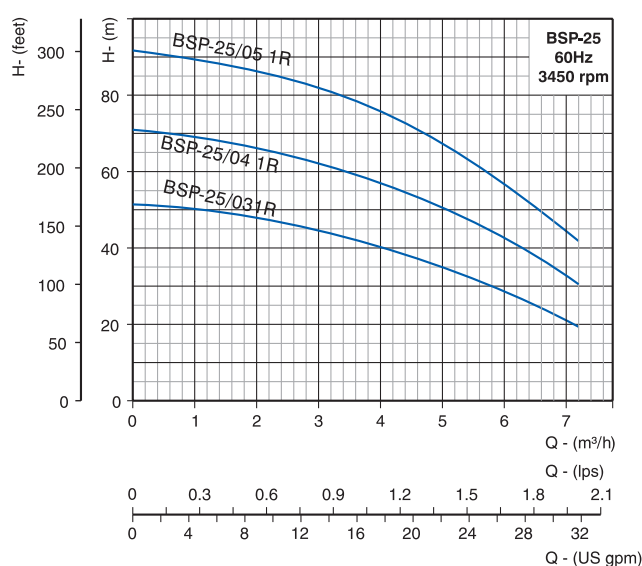
Features

- 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 - 18GPM

BSP - 25GPM


Performance Table

NOMINAL FLOW - 18GPM
OUTLET SIZE : 1¼"

Pump Model	Power		Current (A) 1Ph-220V	Capacitor (1Ph)	l/s m³/h	0	0.33	0.5	0.67	0.83	1.0	1.17	1.33
	kW	HP				0	1.2	1.8	2.4	3	3.6	4.2	4.8
BSP-18/02 1R	0.6	0.8	4.5	12μF	Total Head in meters	33	31	29	27	25	23	20	17
BSP-18/03 1R	0.9	1.2	7.2	15μF		52	47	44	41	38	35	30	26
BSP-18/04 1R	1.2	1.5	9.0	20μF		72	67	64	60	55	50	44	39
BSP-18/05 1R	1.5	2.0	11.0	25μF		95	90	87	83	77	72	65	57

NOMINAL FLOW - 25GPM
OUTLET SIZE : 1¼"

Pump Model	Power		Current (A) 1Ph-220V	Capacitor (1Ph)	l/s m³/h	0	0.33	0.67	1.0	1.17	1.33	1.67	1.66
	kW	HP				0	1.2	2.4	3.6	4.2	4.8	6	7.2
BSP-25/03 1R	0.9	1.2	7.2	20μF	Total Head in meters	52	50	47	42	40	36	29	19
BSP-25/04 1R	1.2	1.5	9.0	25μF		71	68	65	59	56	52	42	31
BSP-25/05 1R	1.5	2.0	11.0	35μF		92	88	85	78	74	69	57	42

- Single phase models are available with and without float switch. For three phase models replace the letter "1" as "3" 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.



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