

SUBMERSIBLE PUMPS

SA & SB RANGE



SB Type



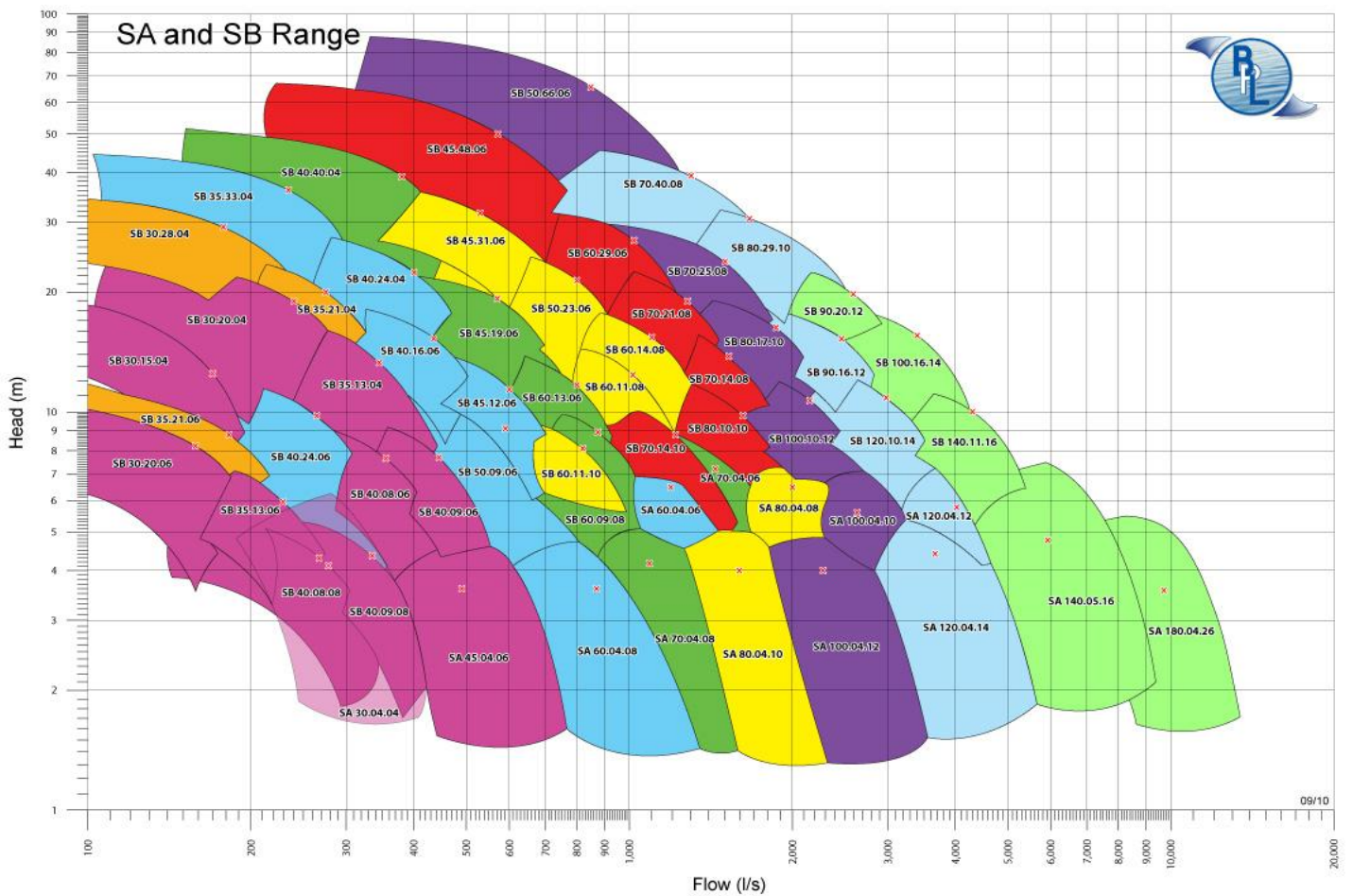
SA Type

TYPICAL APPLICATIONS

- **Irrigation**
- **Flood Defence**
- **Water Abstraction & Supply**
- **Sewage Effluent Treatment & Disposal**
- **Cooling Water**
- **Surface & Storm Water**
- **Docks - Dewatering & Impounding**

BPL's versatile range of Submersible Axial & Mixed Flow Bowl Pumps is designed as an efficient alternative to conventional shaft driven units. These proven and reliable pumps can be utilised in a variety of applications to ensure effective and economic operation for the end user.





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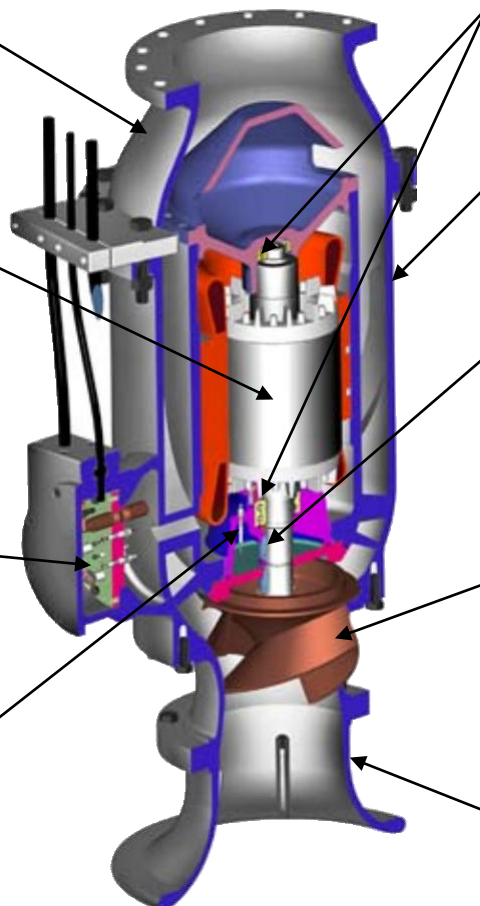
www.bedfordpumps.co.uk

Cable
Heavy duty, rubber sheathed cables to BS 7919. Optional sheathed cable available for variable speed operation, and WRAS approved cable for potable water applications.

Motor
Squirrel cage induction design to BS 4999, Class F insulation. Suitable for: star delta, D.O.L., inverter or auto-transformer starting. Enclosures designed to EN50 018 (EExd) are available. 380-415V, 3.3 kV or 6.6 kV, 50hz or 60hz electricity supply.

Terminal Box
High integrity IP68 design. Easy access to terminal plate without removing cables. Also available for EN50 019 (EExe) requirements.

Instrumentation
Thermal overload thermistors, embedded in motor windings, and seal leakage sensors fitted as standard. Optional bearing temperature probes. Operating status of all instrumentation can be monitored by BPL's Pump Condition Monitor.



Bearings
Angular contact thrust bearings & deep groove ball journal bearings. Optional insulated bearings also available if required.

Pump Casing
Cast Iron construction with easily renewable impeller shroud. Generally to BS EN 1561 / EN-GJL-250

Mechanical Seals
Two high quality, independently mounted, seals in an oil-filled enclosure to prevent water ingress to motor. WRAS approved oil used in potable water applications.

Impeller
High efficiency, open bladed design of cast construction. Statically & dynamically balanced prior to assembly. Generally cast in Ductile Iron BS EN 1563 / 450 / 10 or Gunmetal BS EN 1982 / CC 492 K (BS 1400 / LG4)

Bellmouth
Low loss, high efficiency bellmouth entry, complete with anti-swirl vanes to optimise velocity profile. Generally Cast Iron to BS EN 1561 / EN-GJL-250

Alternative material options are available to suit customer requirements.
Seal face combinations are selected based on the pumped media.

Typical Arrangements

The extremely versatile design of these pumps allows a wide variety of installation configurations to be used, without impairing performance.

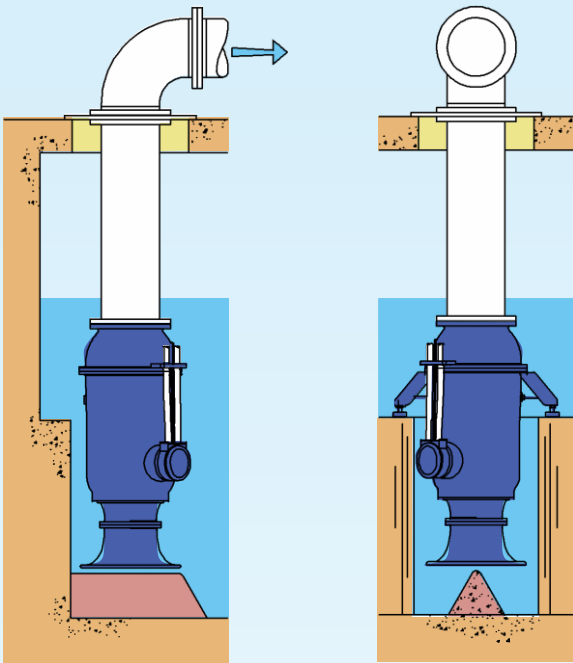


Figure 1
Wet Well Suspended

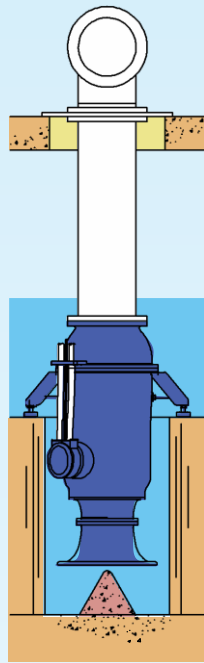


Figure 2
Wet Well Foot Mounted

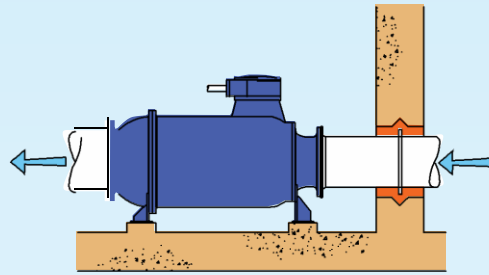


Figure 3
Dry Well Horizontal

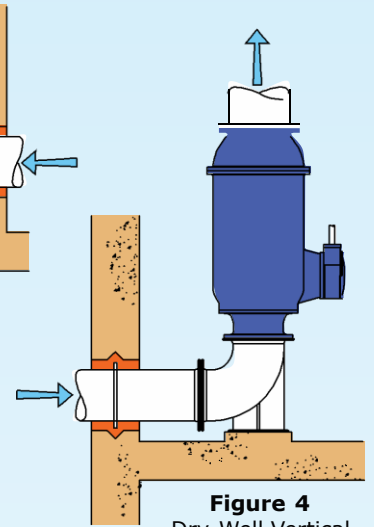


Figure 4
Dry Well Vertical

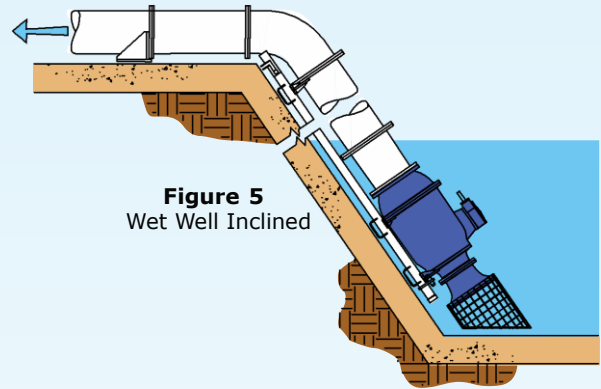


Figure 5
Wet Well Inclined

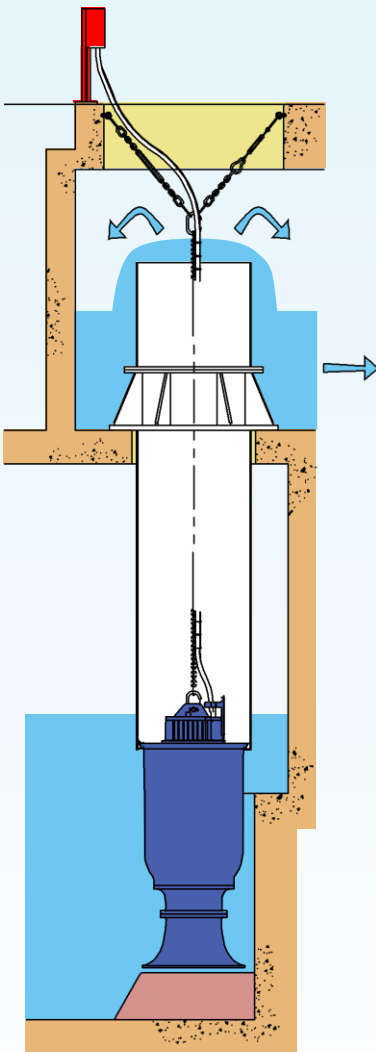


Figure 6
Wet Well Canister - Cascade Discharge
(SB-type pump shown)

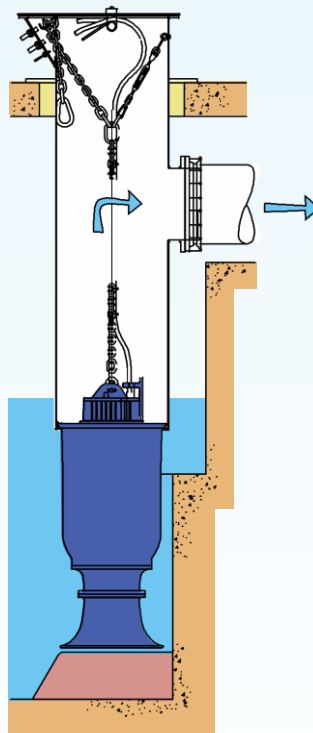


Figure 7
Wet Well Canister - Below Floor Discharge
(SB-type pump shown)

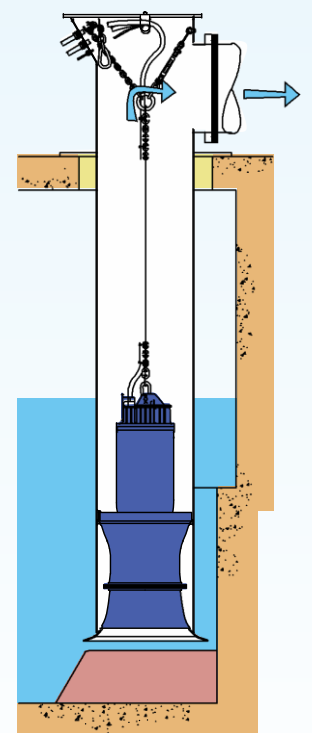


Figure 8
Wet Well Canister - Above Floor Discharge
(SA-type pump shown)

Bedford Pumps are one of Europe's leading manufacturers of large submersible and conventional pumps.

Our pump ranges cover between 100 and 7000 litres per second, at 3m to 100m head.

BPL has an extensive client base within the water industry, including:

- Water utilities
- Private water companies
- Civil & process contractors
- County & Borough councils
- Internal drainage boards
- General industry



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