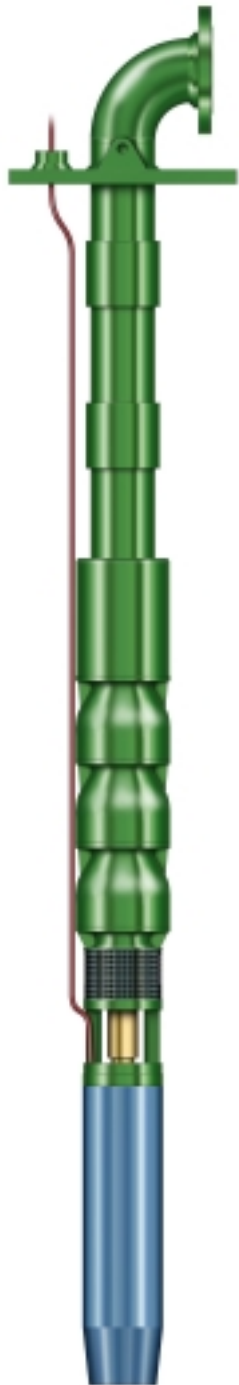




**Johnston
Pump
Company**

www.johnston-pump.com



The Johnston Submersible Model JS has a capacity range to 8,500 GPM with pumping head to 1,000 feet or more. Sizes are available from six to twenty inches in diameter. Johnston Vertical Submersible Pumps are lubricated with the pumping fluid and are driven by a fully immersed electric motor with connections on the surface being a main surface riser pipe/plate/elbow and motor power cable. Our submersible pumps are widely used as well pumps, in booster pipeline applications, agricultural installations, and mine dewatering applications. The Model JS handles fluids to 185° degrees F (temperature limited by motor restrictions) and is available in a wide array of exotic metals for seawater and other abrasive applications.

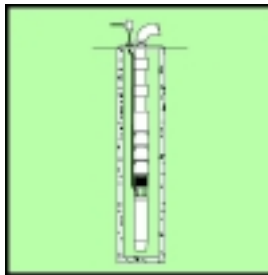
The Vertical Type JS Submersible

The Vertical Pump Specialists

APPLICATIONS:

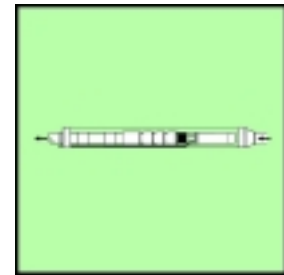
PRIMARY WATER SUPPLY

As all moving parts are below ground, the submersible is becoming increasingly popular for the many advantages it provides. No above ground structure required; virtually tamper proof; protected from the elements; noiseless operations; less friction loss; can be installed in countries subject to flooding.



PIPELINE PUMP

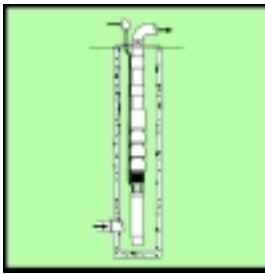
A submersible pump horizontally mounted and installed directly in the pipeline. No expensive foundations,



pits, or bases are required. Provides flexibility of operation - one pump can be used for many different lines, operations, and is easily removed for servicing.

BOOSTER PUMP

Is a close coupled adaptation of the submersible well pump mounted in a steel barrel having a below-ground suction inlet. This provides many features not



found in the ordinary centrifugal booster pump - Can operate at all head and capacity combinations without overloading the motor; minimum variation in capacity with changes in heads because of its steep head capacity characteristics; one-third the space is required as compared to the space needed by the ordinary horizontal type pump.

ANGLE MOUNT PUMP

Used for pumping from lakes or mines and in areas where flooding is possible. Can be used in any incline shaft position - from horizontal to vertical. Often used alongside rivers and lakes where structures are a navigational hazard.

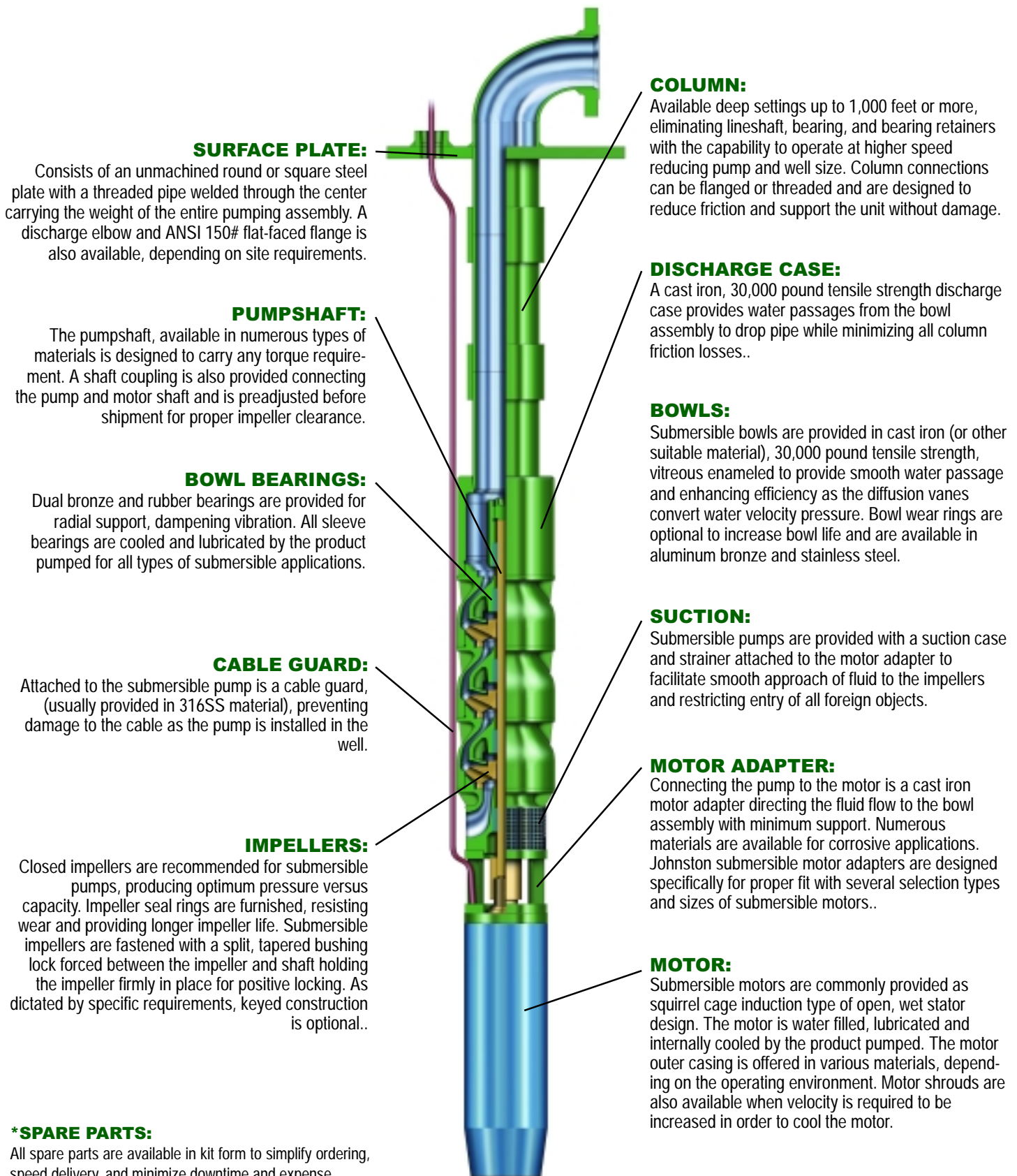


Advantages and Other Features

- *Always Primed for Immediate Use*
- *Easily Modified for Service Where Falling Water Levels are Common*
- *Flood Proof/Since All Parts, Including the Motor, are Designed to Operate in Water*
- *Small Diameters Available*
- *Easy Installation and Removal of Discharge Pipe*
- *Advantage in Extremely Deep Well Applications Which Presents Problems With Shafting*
- *Performance and Hydrotesting per Hydraulic Institute of Standards*

Specify "Submersible" for your next installation.

Johnston Pump Vertical Type JS Submersible



SURFACE PLATE:

Consists of an unmachined round or square steel plate with a threaded pipe welded through the center carrying the weight of the entire pumping assembly. A discharge elbow and ANSI 150# flat-faced flange is also available, depending on site requirements.

PUMPSHAFT:

The pumpshaft, available in numerous types of materials is designed to carry any torque requirement. A shaft coupling is also provided connecting the pump and motor shaft and is preadjusted before shipment for proper impeller clearance.

BOWL BEARINGS:

Dual bronze and rubber bearings are provided for radial support, dampening vibration. All sleeve bearings are cooled and lubricated by the product pumped for all types of submersible applications.

CABLE GUARD:

Attached to the submersible pump is a cable guard, (usually provided in 316SS material), preventing damage to the cable as the pump is installed in the well.

IMPELLERS:

Closed impellers are recommended for submersible pumps, producing optimum pressure versus capacity. Impeller seal rings are furnished, resisting wear and providing longer impeller life. Submersible impellers are fastened with a split, tapered bushing lock forced between the impeller and shaft holding the impeller firmly in place for positive locking. As dictated by specific requirements, keyed construction is optional.

COLUMN:

Available deep settings up to 1,000 feet or more, eliminating lineshaft, bearing, and bearing retainers with the capability to operate at higher speed reducing pump and well size. Column connections can be flanged or threaded and are designed to reduce friction and support the unit without damage.

DISCHARGE CASE:

A cast iron, 30,000 pound tensile strength discharge case provides water passages from the bowl assembly to drop pipe while minimizing all column friction losses..

BOWLS:

Submersible bowls are provided in cast iron (or other suitable material), 30,000 pound tensile strength, vitreous enameled to provide smooth water passage and enhancing efficiency as the diffusion vanes convert water velocity pressure. Bowl wear rings are optional to increase bowl life and are available in aluminum bronze and stainless steel.

SUCTION:

Submersible pumps are provided with a suction case and strainer attached to the motor adapter to facilitate smooth approach of fluid to the impellers and restricting entry of all foreign objects.

MOTOR ADAPTER:

Connecting the pump to the motor is a cast iron motor adapter directing the fluid flow to the bowl assembly with minimum support. Numerous materials are available for corrosive applications. Johnston submersible motor adapters are designed specifically for proper fit with several selection types and sizes of submersible motors..

MOTOR:

Submersible motors are commonly provided as squirrel cage induction type of open, wet stator design. The motor is water filled, lubricated and internally cooled by the product pumped. The motor outer casing is offered in various materials, depending on the operating environment. Motor shrouds are also available when velocity is required to be increased in order to cool the motor.

***SPARE PARTS:**

All spare parts are available in kit form to simplify ordering, speed delivery, and minimize downtime and expense.

OTHER JOHNSTON PRODUCT LINES

- BOOSTER PUMPS ■ SEA WATER LIFT PUMPS ■ CARGO STRIPPER PUMPS ■ MOLTEN SULPHUR PUMPS ■
- COOLING TOWER PUMPS ■ FUEL TRANSFER PUMPS ■ TRANSFER INJECTION PUMPS ■ DEEP WELL PUMPS ■
- PROPANE CAVERN PUMPS ■ WASTEWATER PUMPS ■ FIRE PUMPS ■ LUBE AND SEAL OIL PUMPS ■
- BRINE TRANSFER GEOTHERMAL PUMPS ■ DRY DOCK PUMPS ■ BOILER FEED PUMPS ■