

Vertical Lineshaft Turbine Pumps

Peerless Pump

Open Line-Shaft Flanged Column

The Peerless Pump OLS vertical turbine pump provides a wide range of hydraulic and mechanical coverage. Peerless Pump offers many different material and design configurations; these numerous configuration options allow for custom-engineered construction tailored to suit your requirements. Maximum **value**, high **efficiency** and economical **long-term pump performance** are assured in each application.

Applications

Peerless Pump OLS vertical turbine pumps handle water and other nonabrasive fluids. Corrosion-resistant materials are available for many industrial uses. Applications vary from small, single pump commercial applications to large, multi-pump **municipal water supply** systems. OLS pumps are appropriate for both **raw water transfer** and **finished water** projects. They are also widely used in **mining** and **agriculture**, as well as for **fire protection systems**. Other uses include high temperature and high pressure applications, such as condensate systems.

Features

Peerless Pump's standard cast iron discharge head can handle pressures **up to 400 psi**. Discharge heads are standardized to accommodate the maximum number of NEMA motor sizes, and a variety of options such as fabricated steel construction or underground discharge are available.

Enclosed-type **bronze impellers** are standard construction, other materials are available. Peerless Pump's impellers cover a wide range of flow and head conditions. Each impeller is balanced for **smooth operation**.

Peerless Pump standard OLS bowls are cast with integral vanes to guide the flow to the next stage with **minimum losses** and **maximum efficiency**. All bowls are porcelain-lined for protection and efficiency.

Only Peerless Pump protects the shaft and extends the life of the pumps by utilizing **dual bowl bearings**. Both bronze and rubber seal protect the shaft and impellers against wear.

Peerless Pump pioneered and patented the "double seal" feature in bowls. The two sealing surfaces **prevent efficiency-robbing recirculation** within the bowl. Minimal radial clearances between the impeller skirt and the bowl create a dynamic sealing surface. The static sealing surface is the lateral ring, installed into the bowl below the impeller skirt. Lateral rings protect bowl surfaces, provide protection for the impellers and enable prolonged pumping efficiency.

Flanged column material is rugged carbon steel. Flanged column is easier to install and uninstall than threaded, and offers extra support for larger-diameter columns.

Quality Engineering

Peerless Pump designs tough, versatile products to meet your pumping needs. Peerless vertical turbine pumps deliver **variety, durability, standardized options and configurations** unequalled in the industry. Please contact your local Peerless Pump sales office to find out more about vertical turbine pump options and prices.

Specifications

Capacities: Up to 100,000 gpm (2,273 m³/hr)

Head: Up to 2,500 feet (760 meters)

Pressure: To fit the application

Horsepower: Up to 5,000 hp (3,730 kW)

Temperature: Up to 180 °F (82 °C)

Drives: Vertical electric motors, engines with right angle gears, combination gear drives or vertical motors and variable speed drives

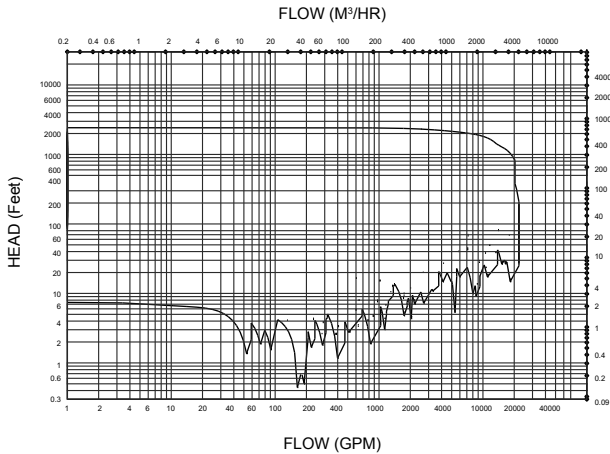
Liquids: Water and other non-abrasive liquids

Materials: Cast iron/bronze-fitted standard; alternate materials available to suit the application

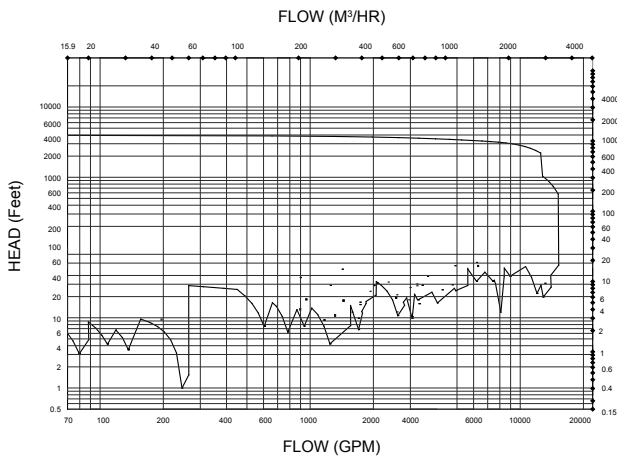


Vertical Lineshaft Turbine Pumps

OLS Vertical Turbine Range Chart - 1180 RPM



OLS Vertical Turbine Range Chart - 1750 RPM



Adjusting Nut

Quickly and easily adjusts shaft to correctly position impellers for maximum sustained efficiency

Packing Container

Packing container as standard. OLS vertical turbine pumps can be modified for a mechanical seal.

Lineshaft

Water Lubricated shafts are 416 SS as standard. Optional lines shaft materials also available.

Top Bowl

Designed with extra long bronze bearings to provide optimal support.

Bowl Bearings

Dual bowl bearings, crafted of both rubber and bronze, provide excellent sealing for longest pump life under a wide range of operating conditions

Wear Rings

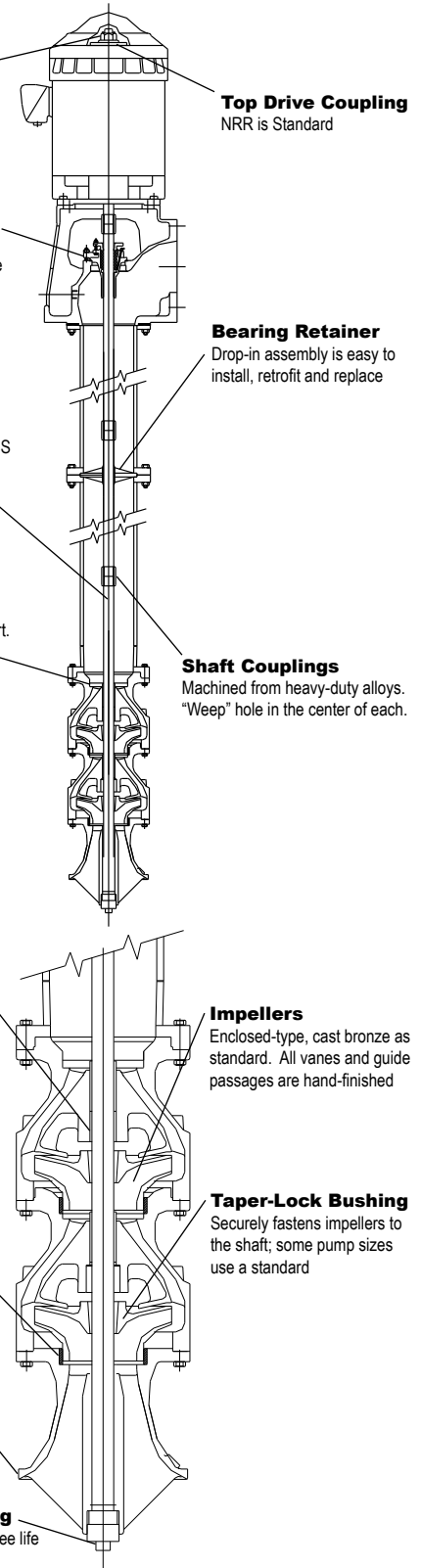
Constructed of rubber-coated steel, provide additional sealing and protection

Suction Manifold

Available with "bell" design or threaded for use with suction pipe or in well application

Suction Manifold Bearing

Grease-lubricated for long trouble-free life



Peerless Pump Company
 P.O. Box 7026
 Indianapolis, IN 46207-7026
 (317)925-9661, Fax: (317)924-7388
www.peerlesspump.com

