

# Open Line-Shaft Threaded 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, but other materials are available. Peerless 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. This lateral ring is constructed of a rigid metallic core surrounded by heavy-duty resilient rubber. Lateral rings protect bowl surfaces, provide protection for the impellers in case of catastrophic failures, and enable prolonged pumping efficiency.

Threaded column is available for pumps up to 16 inches in diameter. Straight-threaded column is an economical yet durable choice, particularly in the municipal market.

## 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.

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## Specifications

**Capacities:** ..... Up to 100,000 gpm (2,273 m<sup>3</sup>/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 angles gears, combination gear drives, or vertical motors with variable speed drives

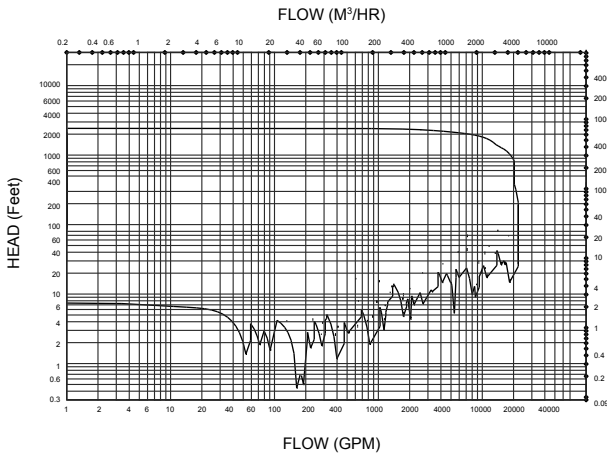
**Liquids:** ..... Water or other nonabrasive liquids

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

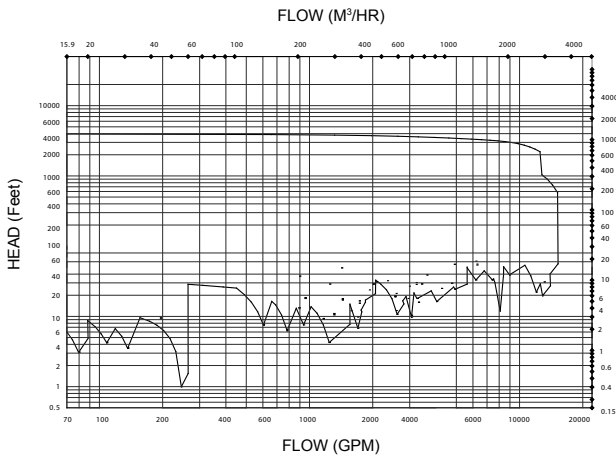
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# Vertical Lineshaft Turbine Pumps

**OLS Series Range Chart - 1180 RPM**



**OLS Series Range Chart - 1750 RPM**



**Adjusting Nut**

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

**Top Drive Coupling**

NRR is Standard

**Packing Container**

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

**Bearing Retainer**

Drop-in assembly is easy to install, retrofit and replace

**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.

**Shaft Couplings**

Machined from heavy-duty alloys. "Weep" hole in the center of each coupling permits air and excess thread compound to escape, so the shaft selections butt together smoothly.

**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

**Impellers**

Enclosed-type, cast bronze as standard. All vanes and guide passages are hand-finished

**Wear Rings**

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

**Taper-Lock Bushing**

Securely fastens impellers to the shaft; some pump sizes use a standard

**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

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