

# Enclosed Line-Shaft Threaded Column



**The Peerless Pump ELS** 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

ELS pumps can be lubricated either with oil or a clean water flush. 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**. ELS pumps are appropriate for both **raw water transfer** and **finished water projects**. They are also widely used in **mining** and **agriculture**. In addition, Peerless ELS vertical lineshaft pumps are the best choice for **deep-set wells** (up to 1500 feet).

## 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. Peerless impellers cover a wide range of flow and head conditions. Each impeller is balanced for **smooth operation**.

Peerless standard ELS bowls are cast with integral vanes to guide the flow to the next stage with **minimum losses** and **maximum efficiency**. Bypass ports cast in the top bowl equalize the internal tube pressure and prevent the pumped liquid from entering the lubrication line and bearings. In addition, all bowls are porcelain-lined for protection and efficiency.

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 2,300 feet (760 meters)

**Pressure:** ..... Fit to 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 with variable speed drives

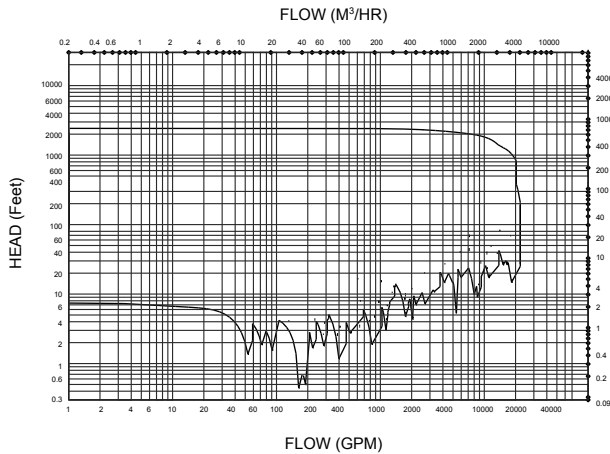
**Liquids:** ..... Water or abrasive liquids

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

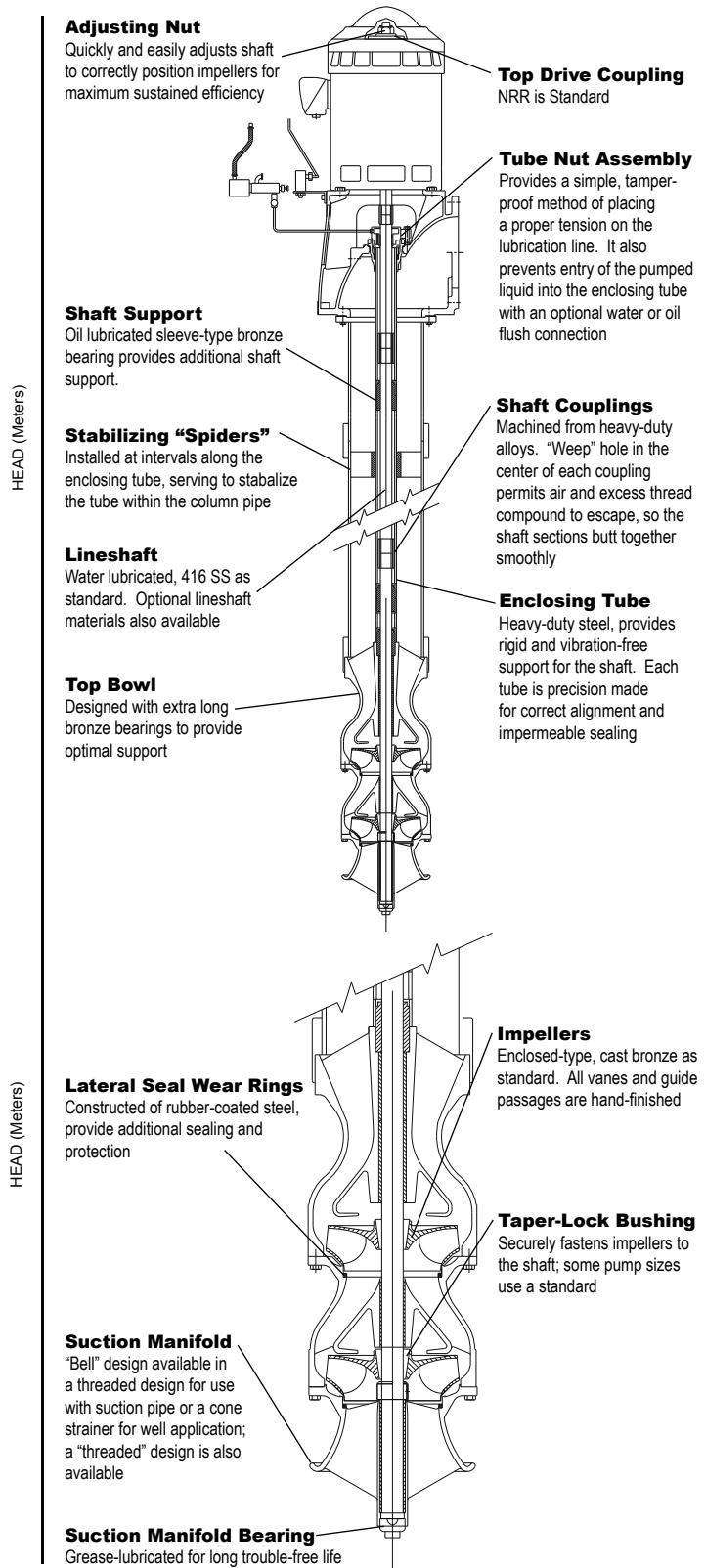
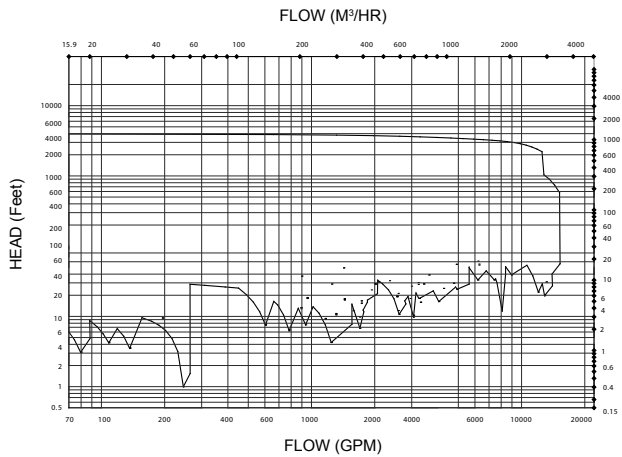
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# Vertical Lineshaft Turbine Pumps

**ELS Vertical Turbine Range Chart - 1180 RPM**



**ELS Vertical Turbine Range Chart - 1750 RPM**



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