



## Peerless Pump

### Horizontal Single Stage Split-Case Pumps

**The Peerless Pump Type A Pump** is a cast iron, bronze-fitted, single stage, double suction, horizontal split case design. Engineered and manufactured in the U.S.A. using the latest technology for the INDUSTRIAL, PROCESS, MUNICIPAL and HVAC markets. There are 20 pump sizes ranging from ten-inch to twenty four-inch discharge.

#### Applications

Type A pumps can be applied to a variety of pumping jobs handling water and other liquids, even when there is a modest amount of non-abrasive solids in suspension. Typical installations include: Industrial Service, Pharmaceutical Manufacturing, Municipal Water Supply and many other large flow requirements.

#### Features

The pump casing material is a minimum of class 30 cast iron. The bearing bracket supports are cast integral with the lower casing half for permanent alignment of bearings and all rotating parts. Bronze, renewable casing rings are doweled and shouldered in the casing.

Cast bronze, one piece impeller is hydraulically and dynamically balanced for **vibration-free performance** and longer bearing life. The impeller is keyed to the shaft for positive driving. Bronze impeller wear rings

are securely fastened to the impeller and machined to close tolerances to permit **minimum re-circulation of pumped liquid**.

Stuffing Boxes can accommodate several **mechanical seal types** and a variety of **API seal flush plans**. The gland bolts are swing type and made of steel with 18-8 stainless steel nuts. Stuffing boxes are designed to hold a **minimum of five rings of packing** with a lantern ring. Split glands facilitate removal for re-packing.

Replaceable bronze or optional hardened 416 stainless steel shaft sleeves protect the carbon steel or optional heat treated stainless steel shaft through the stuffing box. The shaft sleeves extend beyond the mechanical seal or packing glands for **maximum shaft protection**. Sleeves are sealed by O-rings. Grease lubricated ball bearings are designed for an **average life of 100,000 hours**. Inboard bearings are **single row, radial ball bearings**. Outboard bearings are **duplex angular contact ball bearings**. (optional oil lubricated).

The pump and driver are mounted on a **common steel base** (optional drip rim), coupled by a flexible coupling and furnished with a coupling guard. Pump and driver are **aligned and bolted** in place prior to factory shipment.

#### Quality Engineering

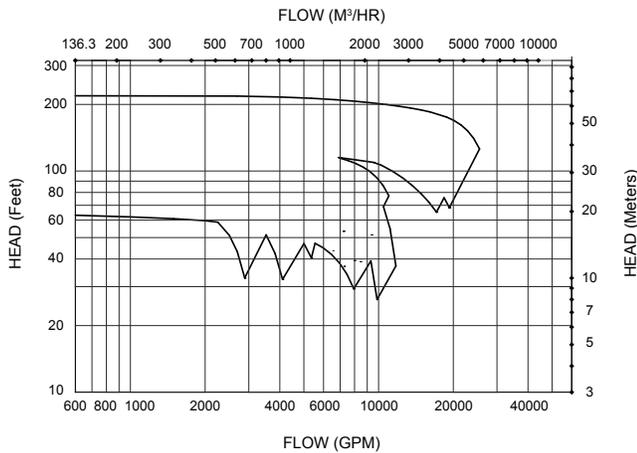
Peerless Pump designs tough, versatile products to meet your pumping needs. The Type A delivers **variety, durability, standardized options and configurations** unequalled in the industry. Please contact your local authorized Peerless Pump sales office to find out more about the Type A pump, options and prices.

#### Specifications

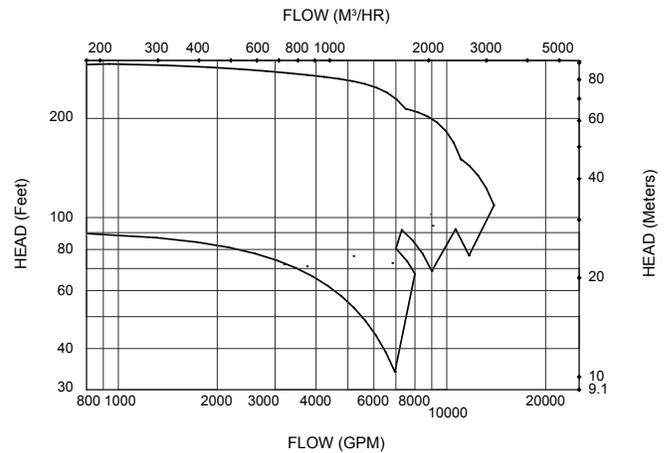
<b>Capacities:</b> .....	Up to 25,000 gpm (5676 m <sup>3</sup> /hr)
<b>Head:</b> .....	Up to 280 feet (85 meters)
<b>Pressure:</b> .....	Up to 430 psi (30.2 kg/cm <sup>2</sup> , 2964 kPa)
<b>Horsepower:</b> .....	Up to 1400 hp (1044 kW)
<b>Temperature:</b> .....	Up to 250 °F (121 °C)
<b>Drives:</b> .....	Motors, engines, steam turbines or combinations
<b>Liquids:</b> .....	Water and clear liquids
<b>Materials:</b> .....	Cast iron, bronze fitted as standard. Other materials available



**A Series Range Chart - 880 RPM**



**A Series Range Chart - 1150 RPM**



**Bearings**

Grease lubrication is standard. Oil lubrication is optional. Average bearing life of 100,000 hours for long trouble free bearing operation with proper maintenance. Double row outboard thrust bearings as standard.

**Impeller**

Dynamic balancing extends operation life of the pump.

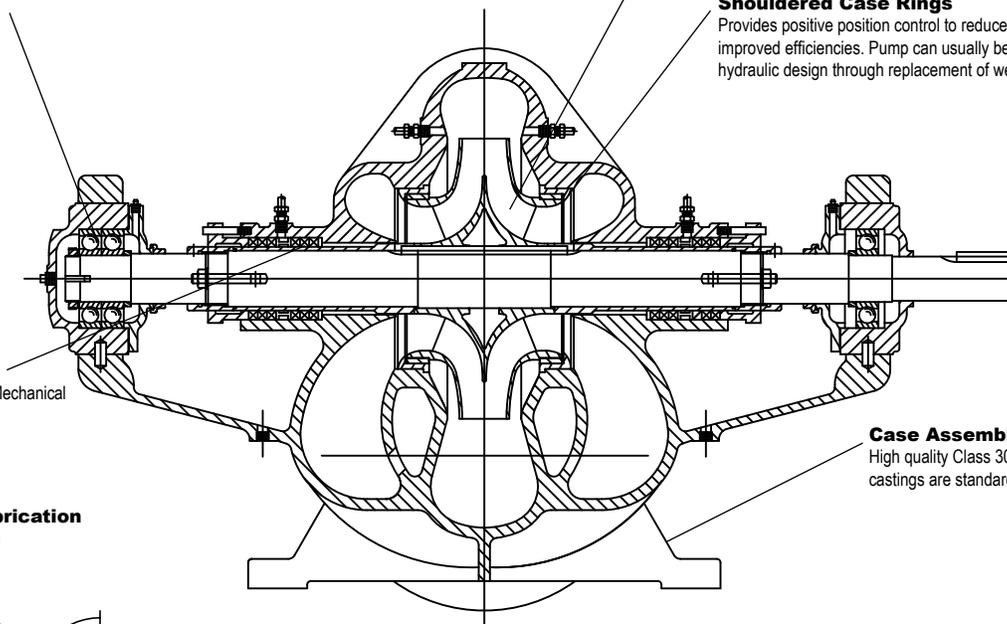
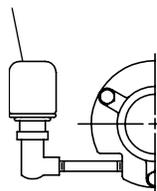
**Shouldered Case Rings**

Provides positive position control to reduce recirculation losses for improved efficiencies. Pump can usually be returned to original hydraulic design through replacement of wear rings.

**Stuffing boxes**

Packing is standard. Mechanical seals are optional.

**Oil Lubrication**  
(Optional)



**Case Assembly**

High quality Class 30 pump castings are standard.



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