



# Peerless Pump Company

## ANSI STANDARD DIMENSION PUMP SERIES 8196

### Specifications:

#### Capacities

To 4,500 gpm  
(1,023 m<sup>3</sup>/hr)

#### Head

To 730 feet  
(222 meters)

#### Pressure

From full vacuum to  
375 psi  
(26 kg/cm<sup>2</sup>, 2,586 kPa)

#### Horsepower

To 300 hp  
(224 kW)

#### Drives

Electric motors, steam  
turbine and variable speed  
diesel engines.

#### Liquids Pumped

Chemical, pulp and paper,  
and all process.

#### Temperature

From -90°F to 500°F  
(-68°C to 260°C)

### ANSI Process Pumps

The new PEERLESS® PERFORMER™ Series, Model 8196 ANSI standard pumps are manufactured for a wide range of flow and head requirements and meet the latest ASME and ANSI B73.1 M specifications. The PERFORMER™ series combines high efficiency, maximum performance, and extended mean time between failure (MTBF) for reduced maintenance cost. Quality engineering, innovative design, rugged heavy duty construction, and customer commitment have made the Peerless PERFORMER™ series ANSI pumps the fastest growing chemical process pump line in the industry.

### Materials of Construction

The ANSI Standard pump is available in a wide range of materials such as: ductile iron, 316 SS, CD4MCU, 317 SS, Nickel, Alloy 20, Hastelloy(s), Titanium, Zirconium, plus virtually any other machinable alloy.

### The Impeller

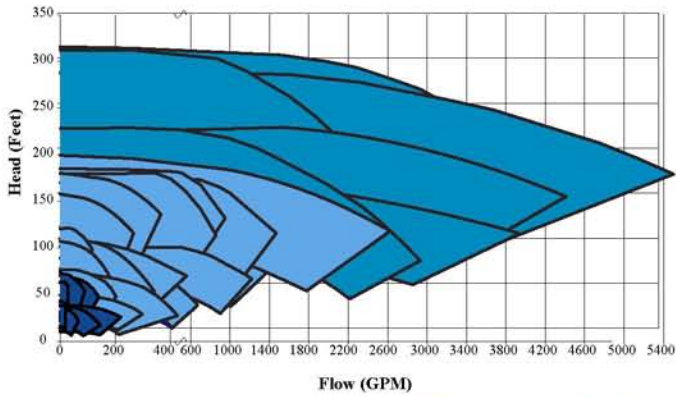
A fully open impeller design significantly reduces clogging. The integral back pump out vanes reduce stuffing box pressure, prolonging mechanical seal life. The impeller and casing are matched to achieve high efficiency and low NPSH. The threaded area is protected against corrosion by Teflon\* O-ring. All impellers are dynamically balanced and are available in an optional keyed and bolted design.

### Bearing Frame

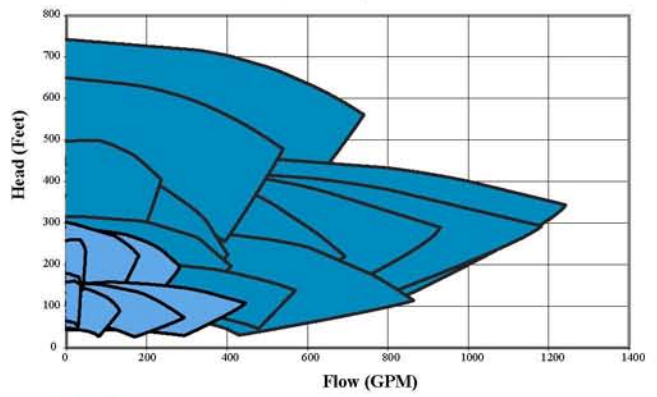
The heavy duty cast iron construction (ductile iron on STP frame sizes) is designed with enlarged oil reservoir for better dissipation of heat and bulls-eye sight glass for easy monitoring. The VBXD® labyrinth bearing isolator seals by Inpro, are designed especially for Peerless. They provide both static and dynamic sealing using contact technology to positively seal at shutdown, yet operate without contact while running. Precision alignment is assured by dowel pins placed between frame and adapter. Water cooling is available on all models with corrosion resistant fin tube heat exchanger for maximum oil protection at high temperatures. Standard C Face flanges are on STP, MTP, and LTP sizes to accommodate C Face motors to eliminate alignment problems. Bearing frame also includes bosses for vibration and temperature monitoring devices.



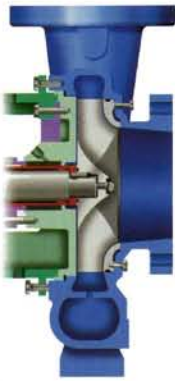
8196 Performance Range Chart - 1750 RPM



8196 Performance Range Chart - 3550 RPM



**STP Frame**      **MTP/LTP Frame**      **XLTP Frame**



**OPTIONS:**

**Keyed and Bolted Impeller/Wear Extender:** Keyed and bolted impellers available on all 23 sizes. Provides a positive lock which prevents the impeller from detaching from the shaft during accidental reverse rotation. Removable wear plate, available on 13" sizes and up, reduces maintenance costs on tough abrasive applications.

**Stuffing Box:** Three options are available, all of which meet ANSI specifications of standard bore, large bore, and taper bore.

**Bearing Frame:** Includes bosses for vibration and temperature monitoring devices.

**Shaft Sleeve:** Renewable shaft sleeve positively driven, hook type with a free end for expansion under varying temperatures.

**Ductile Iron Frame Adapter:** Provides greater strength and durability.

**Investment Cast Impeller:** Smooth finish for maximum efficiency.

**Bearings:** The outboard bearing is angular contact, deep grooved, double row bearing. Bearing fits are precision bored and all meet or exceed minimum ANSI L10 or 17,500 hours.

**Inpro VBXD Bearing Isolators:** Labyrinth seals protect bearings from environmental contamination in both static and dynamic modes.

**Bulls Eye Sight Glass:** One inch size for easy accurate monitoring of oil levels and condition. Trico oiler available as an option.

**Rigid Frame Foot:** Reduces effects of pipe strain on shaft alignment.

**Enlarged Oil Sump:** Improves heat transfer for more effective oil cooling.

**Fully Confined Gasket:** For positive seal.

**Frame to Adapter O-Ring:** Replaces paper gasket and provides positive seal to prevent oil leakage.

**Casing Drain:** Standard on all Ductile Iron and 316SS casings, optional on all other alloys.



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