

## Peerless Pump

### General Purpose End Suction Pumps Type PE - Fractional HP



**The Peerless Series PE - Fractional Horsepower** are non-modifiable units equipped with preset impeller trims for non-overloading performance including the motor's allowable service factor, when the liquid has 1.0 specific gravity, 31 SSU at 80 °F. C-Face Mounted Jet Pump Motors with stainless steel shafts are used with this fractional PE series.

#### Applications

Fractional horsepower PE pumps are suitable for clear non-corrosive liquids such as water or ethylene glycol solutions and must not be used with hydrocarbons. These units provide maximum pump value for heating, air conditioning, booster and general circulating service.

#### Features

Standard construction for this Series of PE Pumps includes C.I. Casing and Adapter; Forged Brass Impeller, Bronze Casing Ring and Mechanical seal.

All of the PE units in this series are furnished with **NPT pipe nozzles**. Casings are rated for 75# (MWP) Maximum Working Pressure.

Motor bearings are **grease lubricated** and are sized for a minimum of 20,000 hours L10 basic rating life or 100,000 hours median bearing life. Shaft is designed to

**limit the shaft deflection** to no more than .002" at the seal faces.

Close tolerance registers obtain concentricity of motor faces, adapters and pump casings for alignment.

Mechanical seals are **face type** with Ceramic seat, carbon washer, brass metal parts and **Buna-N rubber** flexible members rated up to 160°F.

Series PE pumps are furnished with **enclosed dynamically balanced impellers** for smooth, low vibration operation. The impeller is **threaded to the shaft** and secured with a set screw.

The impeller diameter is no more than 90 percent of the maximum impeller diameter which the case tongue or cut-water could accommodate. This design feature results in **low hydraulic noise** levels.

#### Quality Engineering

Modern foundry technology using shell moldings, permanent mold and shell cores for casing and impeller castings assures smooth water passages, good weight symmetry and part density. Consistent high quality castings and close tolerance machined registers assures uniformity of pump components resulting in efficiency, reliability and long life.

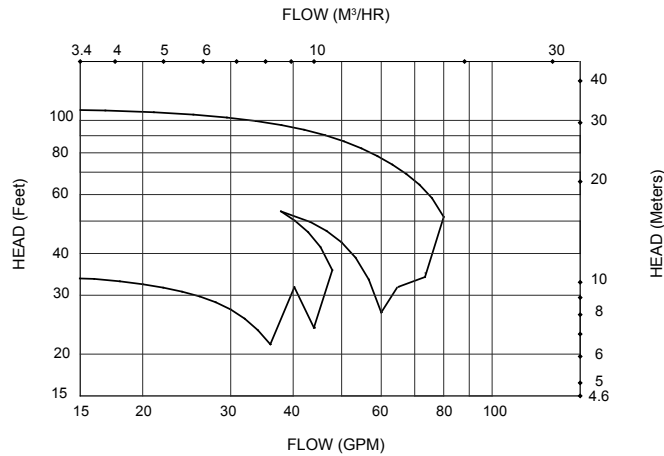
We design tough, versatile pumps to meet all of your needs. No one equals our **variety, durability, standardized options or configurations**. Please contact your local authorized Peerless sales office to find out more about the PE Series pump, available options and prices.

#### Specifications

**Capacities:** ..... Up to 80 gpm (18 m<sup>3</sup>/hr)  
**Head:** ..... Up to 105 feet (32 meters)  
**Pressure:** ..... Up to 75 psi (5.27 kg/cm<sup>2</sup>, 517 kPa)  
**Horsepower:** ..... Up to 1.5 hp (1.12 kW)  
**Temperature:** ..... From 32 °F to 160 °F (0 °C to 71 °C)  
**Drives:** ..... NEMA C-Face Mounted Jet Pump Motors  
**Liquids:** ..... Water and Ethylene Glycol solutions  
**Materials:** ..... CI 30 CI, Bronze

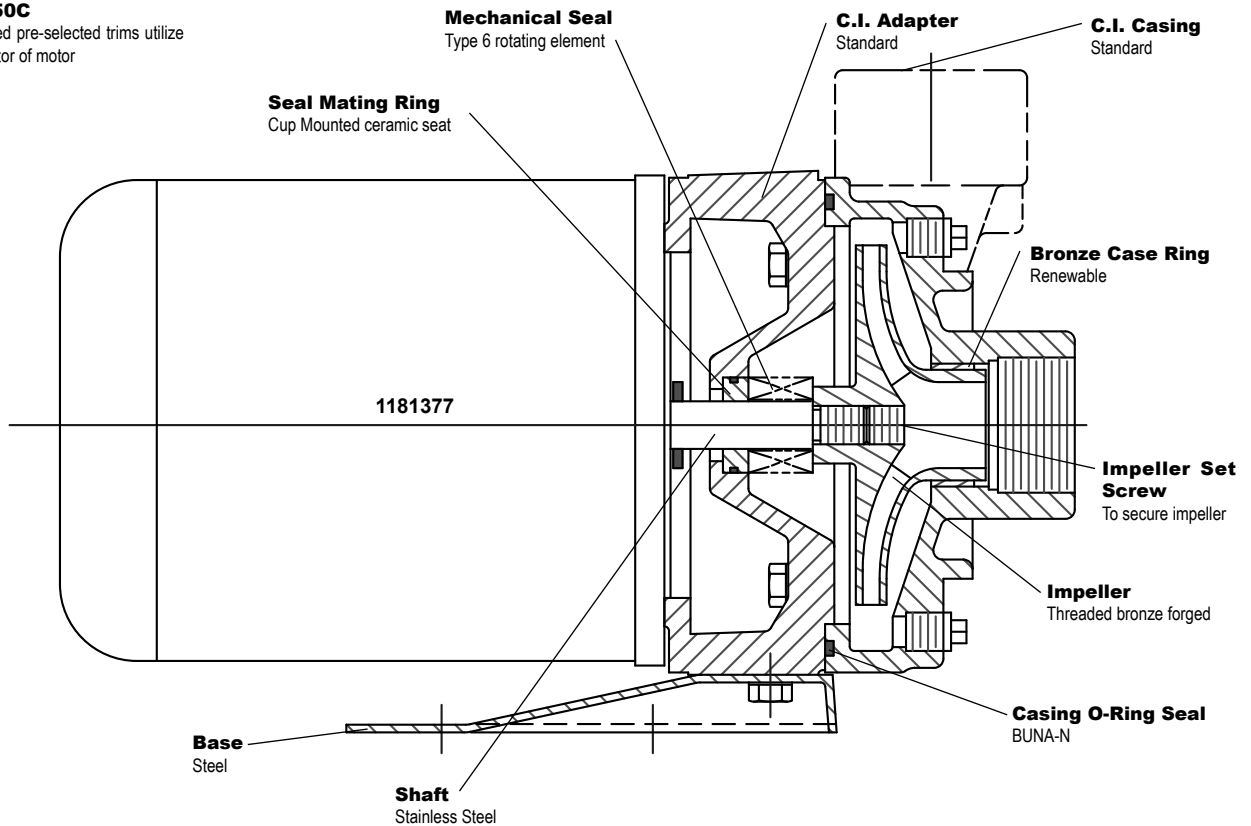


**PE Fractional HP Series Range Chart - 3550 RPM**



**PE 33B-150C**

Non-Engineered pre-selected trims utilize full service factor of motor



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