



## LPT-63 Low Pressure TurboCharger

### Capacity

45 gpm to 90 gpm @ 250 psi  
10.22 m<sup>3</sup>/h to 20.44 m<sup>3</sup>/h @ 17.24 bar

### Delivery

Eight (8) weeks standard delivery.  
Priority delivery service also available.

### Materials of Construction

Rotor: AL6XN  
Bearings: Graphitar 39  
Casings: SS304, SS316, or Duplex Stainless Steel Alloy 2205

### Interstage Pressure Boosting Benefits

- Lowest energy consumption rate
- Balance flux rates between 1st and 2nd stage
- Reduce fouling potential of the 1st stage
- Increased 2nd stage pressure compensates for higher osmotic pressure - providing higher quality product water
- Patented Design - Interstage Pressure Boosting of a multi-stage RO system is covered by PEI patent U.S. 4,983,305.

### Design Features

**Casings** are designed for a maximum of 600 psi (41.38 bar) operating pressure. Turbine casing volutes are machined for high efficiency and correct turbine differential pressure. Pump Casings are designed for a range of cast volutes achieving high efficiency throughout the capacity range.

**Dynamically Balanced Impellers** precision cast three dimensional complex geometry impellers for maximum efficiency.

**Product lubricated journal bearings** eliminate shaft seals and oil/grease lubrication and provide years of maintenance free operation.

**Hydrostatic Thrust Bearing** - Product lubricated thrust bearing allows turbine to run with 98% volumetric efficiency.

**Radially split casing** for complete and easy access for maintenance.

**Circumferential mounting** allows complete rotation of turbocharger pipe connections for easy piping fit up.

HARNESsing THE POWER OF LIQUID ENERGY

**HTC AT**  
ADVANCED TECHNOLOGY



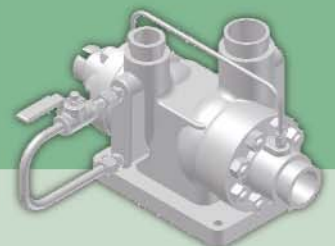
**LPT**  
LOW PRESSURE



**HPT**  
HIGH PRESSURE

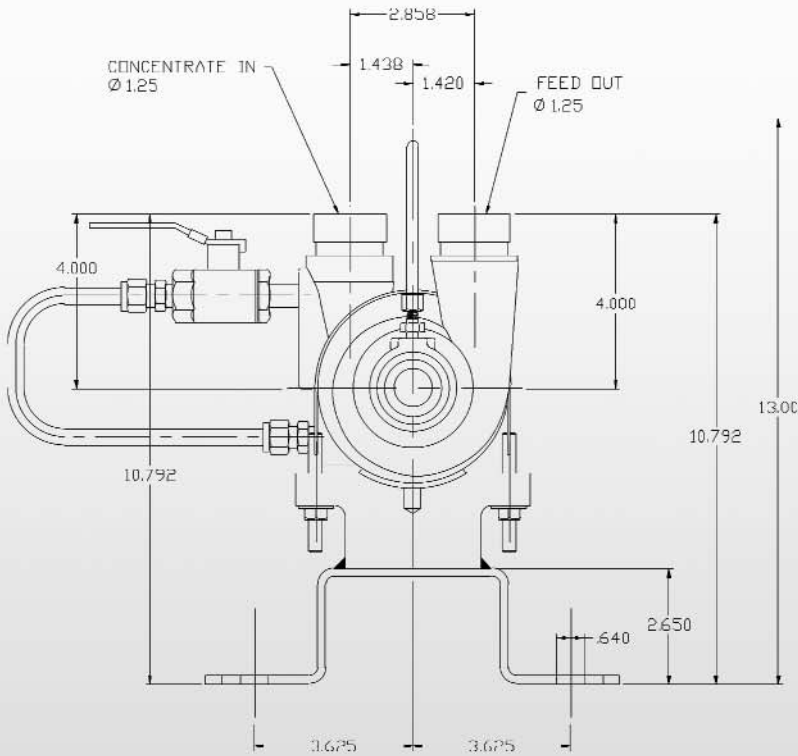
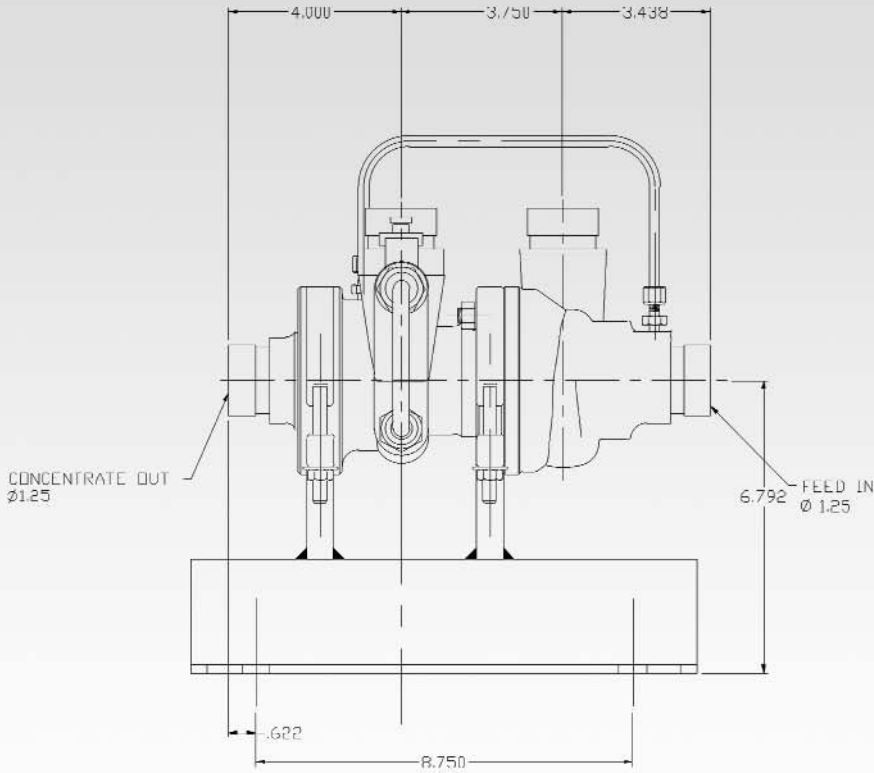


**HALO**





**LPT-63 Low Pressure TurboCharger**



Note: Dimensions not for construction purposes. Measurements in US customary units.

HARNESsing THE POWER OF LIQUID ENERGY

Pump Engineering Inc., was founded in 1986 for the purpose of developing and manufacturing advanced technology pumps. Since 1988 the company has focused its efforts on providing the reverse osmosis industry with the most efficient and total cost effective pumps and energy recovery equipment.



1004 West Hurd Road  
 Monroe, Michigan 48162  
 USA

Tel: +1 734 242 1772  
 Fax: +1 734 242 9777

[www.pumpengineering.com](http://www.pumpengineering.com)