

# PSD Single Stage PTO Pump



# BOOSTER PUMPS

## Features and Benefits

- 750 - 1500 GPM (2850 - 5678 LPM) NFPA performance
- Designed for modern diesel engines up to 500 HP
- Compact design allows maximum truck design flexibility

## Technical Information

**Type:** Single-stage gear-driven centrifugal pump designed for PTO drive, midship, or rear mount applications

**Impeller:** Fine grain bronze, closed type, single suction, dynamically balanced with front and rear removable bronze sealing rings.

**Pump Shaft:** Heat treated stainless steel ground to finish size

**Pump Shaft Seal:** Maintenance-free, self-adjusting mechanical seal

**Pump Case:** Fine grain cast iron with a minimum tensile strength of 30,000 PSIG. Flanged discharge outlet. Auxiliary discharge opening accommodates flanged connections up to 3-inch (76 mm). Tested to 600 PSIG at Hale's facilities.

**Suction Flange:** 6-inch Victaulic (150 mm)

**Discharge Flange:** 4-inch (100 mm)

**Primer Connection:** Customer supplied in apparatus plumbing

**Testing:** Pump dynamometer tested at Hale facility to ensure compliance with NFPA 1901 performance standards.

**Pump Gearbox:** All ball bearing construction. Precision cut and crown ground heat treated helical gears. Splash lubrication system using SAE 30W oil.



Equipped with water-cooled oil pan to reduce transmission temperatures on 1000 GPM and larger. Inverted gearbox only

**Gear Ratios:** 1.40, 1.59, 1.81, 2.0, 2.16, or 2.37

**Drive Shaft:** Heat treated, 1-3/4" Keyed input shaft

**Weight:** Standard weight less oil and all options - 280 lbs (127 kg)

**Miscellaneous:** Discharge outlet and transmission are in the vertical position as standard

## Optional Equipment

- ESP Electric priming system
- Relief Valve System
- All bronze construction
- Stainless steel valves

Hale Products, Inc. A Unit of IDEX Corp. 700 Spring Mill Avenue Conshohocken, PA 19428 USA  
TEL: 610/825-6300 1-800/220-HALE FAX: 610/825-9615 www.haleproducts.com

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**Class 1**