



RSD shown with optional accessories and valves

RSD Single Stage PTO Booster Pump

Features and Benefits

- 750 - 1500* GPM (2850 - 5678 LPM) NFPA performance
- Designed for modern diesel engines with high strength, quiet helical gears
- Compact design allows maximum truck design flexibility
- Available in engine or opposite engine rotation

Technical Information

Type: Compact 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: Electric furnace heat treated stainless steel ground to finish size

Pump Shaft Seal: Maintenance-free, self-adjusting thermal shock resistant mechanical seal

Pump Case: Fine grain cast iron with a minimum tensile strength of 30,000 PSI. Flanged discharge outlet. Auxiliary discharge opening accommodates flanged connections up to 3-inch (76 mm). Hydrostatically tested to 500 PSI at Hale's facilities.

Suction Flange: 6-inch Victaulic® (150 mm) standard. Flanged, 5" NST, 6" NST and dual suction manifold available.

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 heat treated helical gears. Splash lubrication system. Equipped with water to oil heat exchanger tube to reduce transmission temperatures on all models.

Gear Ratios: 1.24, 1.40, 1.59, 1.80, 1.97, 2.16, or 2.37

Drive Shaft: Heat treated, 1-1/2" (38 mm) keyed input shaft

Weight: Standard weight less oil and all options - 265 lbs (120 kg)

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

Optional Equipment

- ESP Electric priming system
- Relief Valve System
- Horizontal or inverted transmission position
- All bronze construction
- Stainless steel valves
- 1410, 1510, 1610 combination drive flange
- Thermal Relief Valve
- Zinc or magnesium Anodes

**1500 GPM model available in engine rotation only*



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