

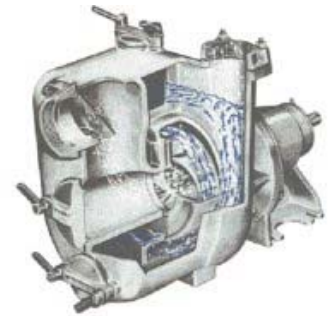
8" Wet-Prime Trash Pump

8HT-DJDST-4045D

With its heavy-duty cast-iron construction, ability to self-prime and re-prime automatically, this trash pump leads the industry in construction, industrial and wastewater applications. The 8HT-DJDST-4045D provides high flow rates up to 2,600 gpm and can handle spherical solids up to 3" making it perfect for sewage bypass pumping or dewatering excavations.

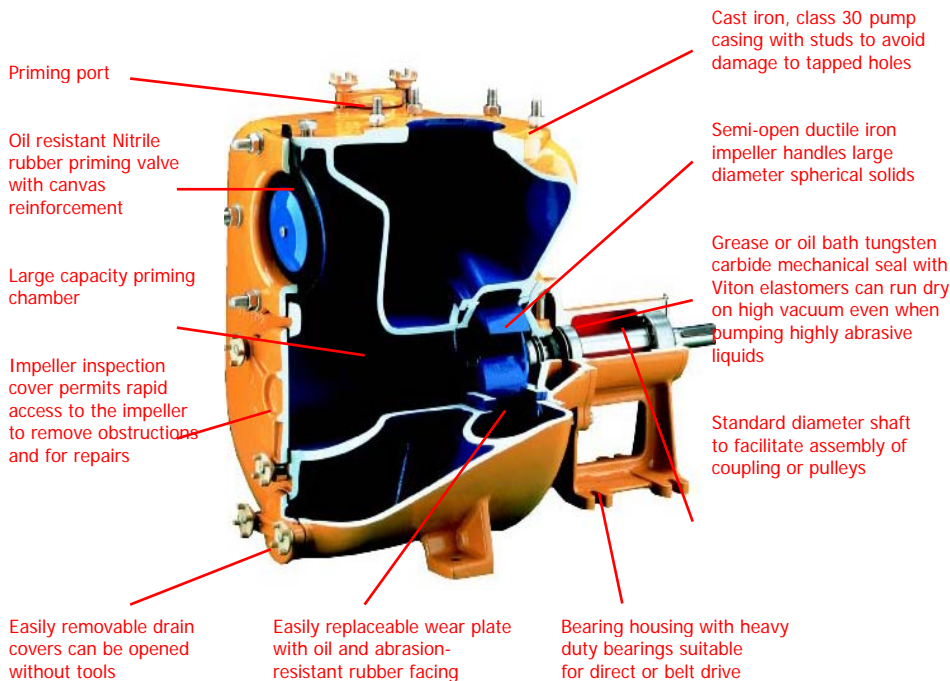
Features

- Standard engine – John Deere 4045D.
Also available with Deutz engine
- Fully automatic, dry priming to 28 feet.
- Moderate heads to 144 feet;
Maximum flows to 2,600 gpm
- Compact unit available with modular frame
- Maximum operating time is 21 hours @ 1,800 rpm.



The impeller rotates and creates a vacuum drawing air into the pump where it is mixed with the liquid contained in the pump casing. The air/liquid mixture is driven into the priming chamber where the air separates and is expelled through the delivery port while the liquid, due to its higher density, falls back and is re-circulated.

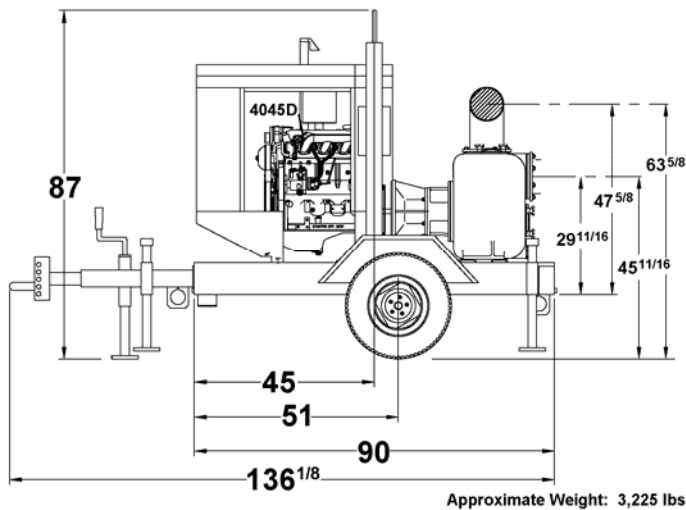
When the suction line has evacuated the air, the pump is primed and operates as a standard centrifugal pump. The check valve mounted in the pump suction port ensures that sufficient liquid remains in the pump casing for re-priming. In addition, the check valve prevents the liquid from draining out of the suction line, so at restart no time is lost for re-priming.



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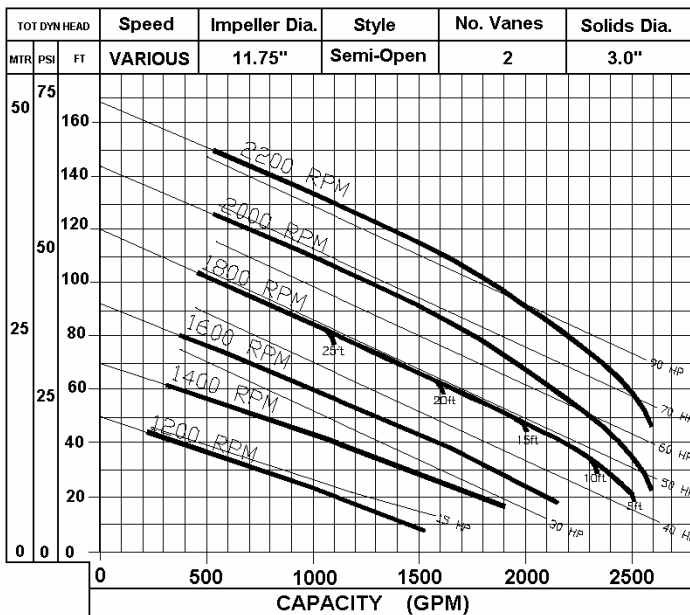
8HT-DJDST-4045D Dimensions



Materials of Construction

- Pump Casing:** Heavy-duty class 30 cast-iron with built-in volute
- Impeller:** Dynamically balanced, two-vane, non-clogging, semi-open, ductile iron, with rear-equalizing vanes to reduce axial loading and prolong seal and bearing life. Diameter 11.75"
- Mechanical Seal:** 65mm type AR3; grease or oil lubricated with Tungsten Carbide rotating and stationary seal faces. All other components are 304 stainless steel and Viton.
- Suction Check Valve:** Built-in weighted, full-flow valve to eliminate re-priming with each cycle.
- Head:** Rugged, back pull out design, heavy-duty class 30 cast iron with tapered bore design. Automatic lubrication system for pump dry-running.
- Bearings & Frame:** Heavy-duty grease lubricated; frame is heavy-duty class 30 cast-iron
- Shaft:** SAE 4140 alloy steel and fitted with a 304 stainless steel shaft sleeve.
- Wear Plate:** Replaceable, class 30 cast iron with abrasion resistant rubber facing to extend service life

8HT-DJDST-4045D Performance Curve



Engine Specifications

- Engine:** John Deere 4045D, 62 hp @ 1,800 rpm
- Type:** 4-cylinder, in-line, 4-cycle, water-cooled, naturally aspirated, direct-injected, Tier II diesel
- Standard Equipment:** Alternator, radiator, muffler, and exhaust stack with rain protection.
- Displacement:** 276 cubic inches
- Fuel Economy:** .379 lb/hp-hr @ 1,800 rpm
- Safety Shutdowns:** High coolant temperature; low oil pressure.

Unit Specifications

- Fuel Tank Capacity:** 60 US gallons
- Fuel Consumption:** 2.63 gallons per hour
- Maximum Operating Speed:** 1,800 rpm
- Maximum Operating Temperature:** 212°F
- Maximum Working Pressure:** 110 psi
- Maximum Suction Lift:** 28 feet
- Maximum Casing Pressure:** 150 psi

In the interest of product improvement, Thompson Pump & Manufacturing reserves the right to change specifications without incurring any obligation for equipment previously or subsequently sold. Capacity, Head and Pump Curve are for comparative purposes. Consult engineering data for exact capabilities.
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