

6" Vacuum-Assisted Solids Handling Pump 6V-DDST-4-2011

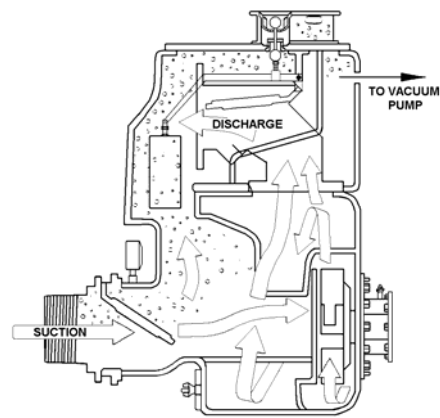
With its heavy-duty cast-iron construction and fast priming capabilities, this Super Suction solids handling pump leads the industry in construction, industrial and municipal applications. The Thompson 6V-DDST-4-2011 is designed for flows to 1,450 gpm and heads to 88 feet making it perfect for sewage bypass pumping or general construction dewatering.

Features

- Standard engine – Deutz F4L2011.
A variety of diesel engines available.
- Fully automatic, dry priming to 28 feet
- Moderate heads to 88 feet; Maximum flows to 1,450 gpm
- Handles solids to 3"
- Compact unit available with modular frame or removable drop-on Silent Knight® sound enclosure
- Maximum operating time is 32 hours @ 1,800 rpm
- *Super Suction* vacuum-assisted priming system

Super Suction Features and Benefits

SUPER SUCTION VACUUM-ASSISTED PRIMING SYSTEM

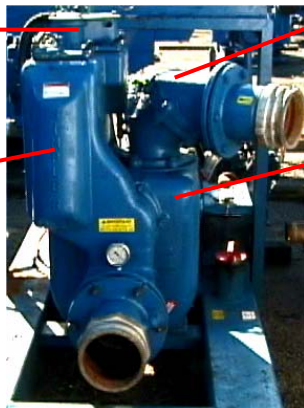


Thompson's exclusive Super Suction vacuum-assisted system works with a self-priming pump to provide the fastest priming in the industry. Water and air passes through a cross section tank and then into the vacuum pump forcing the water to rise in the separation tank until a balance point is reached.

Air cyclone vapor recovery system to prevent discharge of contaminants

Air separator assembly

* Some features not available on all models



Discharge priming valve

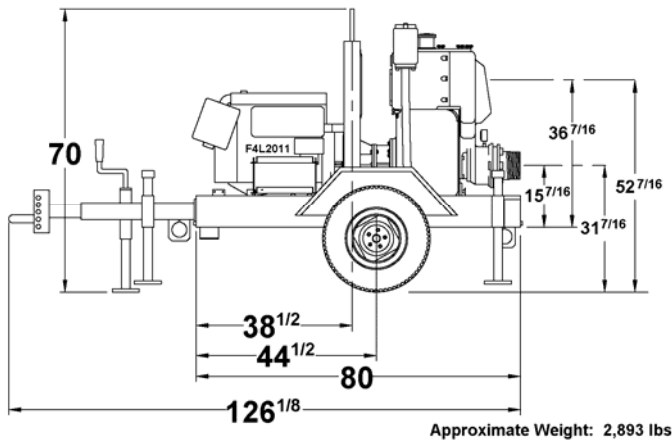
Cast iron pump with maximum solids capacity of 3"

- Provides fastest priming system in portable pump dewatering industry
- Prevents discharge of pumping effluent onto the ground
- Eliminates need for a waste hose
- Eliminates need to fill up pump housing with water to obtain original prime at start-up



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6V-DDST-4-2011 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. Diameter 9.74"

Mechanical Seal: 65 mm type AR3, grease or oil lubricated with Tungsten Carbide rotating and stationary seal faces. Single, inside mounted, non-pusher type with self-adjusting elastomeric bellows.

Head: Rugged, back pull out design, heavy-duty class 30 cast iron with tapered bore design

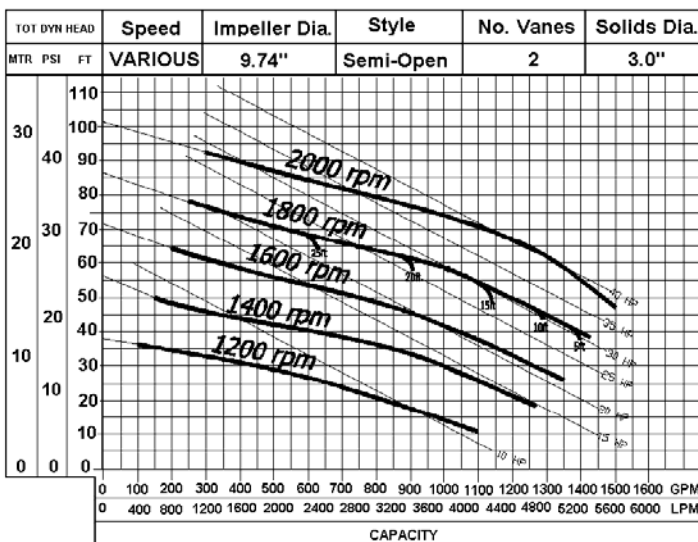
Bearings and Frame: Heavy-duty grease lubricated to carry both axial and radial loads. Frame is heavy-duty class 30 cast iron.

Shaft: Constructed of high quality carbon steel with a 304 stainless steel shaft sleeve

Wear Plate: Replaceable, class 30 cast iron with abrasion resistant rubber facing to extend service life

Suction Check Valve: Built in weighted, full-flow valve to eliminate re-priming with each cycle

6V-DDST-4-2011 Performance Curve



Engine Specifications

Engine: Deutz F4L2011, 42.3 hp @ 1,800 rpm

Type: 4-cylinder, in-line, 4-cycle, direct-injected diesel
Standard Equipment: Alternator, radiator, muffler and exhaust stack with rain protection

Displacement: 189.7 cubic inches

Fuel Economy: .351 lb/hp-hr @ 1,800 rpm

Safety Shutdowns: High coolant temperature; Low oil pressure

Unit Specifications

Fuel Tank Capacity: 55 US gallons

Fuel Consumption: 1.70 gallons per hour

Maximum Operating Speed: 1,800 rpm

Maximum Operating Temperature: 212°F

Maximum Working Pressure: 56 psi

Maximum Suction Lift: 28 feet

Maximum Casing Pressure: 66 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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