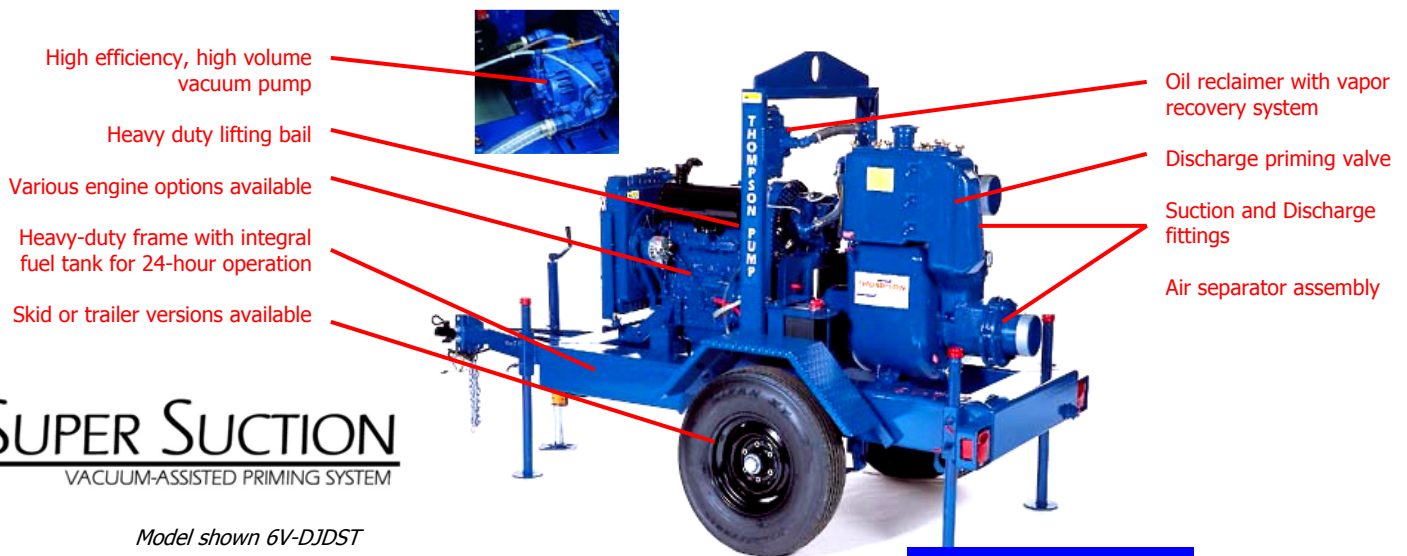


# V SERIES *SUPER SUCTION* VACUUM-ASSISTED DRY PRIME TRASH PUMPS



*Thompson dry priming Trash Pumps with the Super Suction vacuum-assisted priming system are designed for consistent and dependable service on the most difficult job sites*

Derived from the rugged Thompson heavy duty wet priming centrifugal trash pumps and improved by the addition of an auxiliary vacuum pump, these pumps are used in many situations including open pumping, wellpoint systems and sewage bypass. The pumps deliver the fastest priming in the industry and provide continuous pumping of liquids mixed with a high percentage of air. Even liquids containing high abrasives or solids in suspension flow through this system with ease. Thompson *Super Suction* vacuum-assisted pumps are especially useful in high lift situations not suitable for standard trash pumps.



High efficiency, high volume vacuum pump

Heavy duty lifting bail

Various engine options available

Heavy-duty frame with integral fuel tank for 24-hour operation

Skid or trailer versions available

Oil reclaimer with vapor recovery system

Discharge priming valve

Suction and Discharge fittings

Air separator assembly

**SUPER SUCTION**  
VACUUM-ASSISTED PRIMING SYSTEM

Model shown 6V-DJDST

## APPLICATIONS

## FEATURES

### All the features of Thompson's HT Series Heavy Duty Trash Pumps and more...

- Automatic dry priming and re-priming to 30 feet
- Quick dry prime from 15 feet in 15 seconds
- Heavy duty cast iron construction for long life
- Large solid handling capacity
- 2 or 3-vane ductile iron impellers available
- Cast iron rubber-lined, abrasion-resistant wear plate
- Dry running abrasion-resistant tungsten carbide mechanical seal with Viton elastomers
- Back pullout design
- Safety shutdown control panel standard
- Various diesel engine and electric motor options
- Simple low-cost maintenance

**Construction:** Dewatering excavations, canals and sumps; groundwater dewatering with wellpoint systems or sock underdrains; bypassing sewers and bodies of water; extended sumping; wellpoint dewatering; groundwater dewatering; water supply from wells or canals; hosing down concrete castings

**Civil Engineering:** Sewage pumping; flood drainage; fire fighting; recovery of hazardous liquids

**Waste Treatment:** Sewer bypasses; pumping polluted hot or corrosive waste water containing sand, mud or solids in suspension; dosing neutralizing liquids; pumping out sludge

**Mining:** Wash-down operations; tailings; high head/high volume applications

**Industrial:** Transfer of neutral, acid or alkali clean or dirty liquids containing sand, mud or solids in suspension; low viscosity petroleum products

**Agricultural:** Surface irrigation; liquid manure oxygenation; transfer and spraying fertilizers or manure

*Note: Alternate pump end materials available for corrosive liquids*

In the interest of product improvement, we reserve the right to change specifications without incurring any obligation for equipment previously or subsequently sold. Capacity and Head are shown for comparative purposes. Consult engineering data for exact capabilities.

Thompson Pump & Manufacturing Co., Inc. 4620 City Center Drive, Port Orange, Florida, USA 32119  
Phone (800) 767-7310 • Fax (386) 761-0362 • [www.thompsonpump.com](http://www.thompsonpump.com)

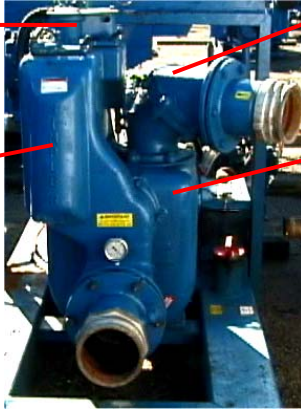
# V SERIES *SUPER SUCTION* VACUUM-ASSISTED DRY PRIME TRASH PUMPS



## SUPER SUCTION FEATURES AND BENEFITS

Air cyclone vapor recovery system to prevent discharge of contaminants

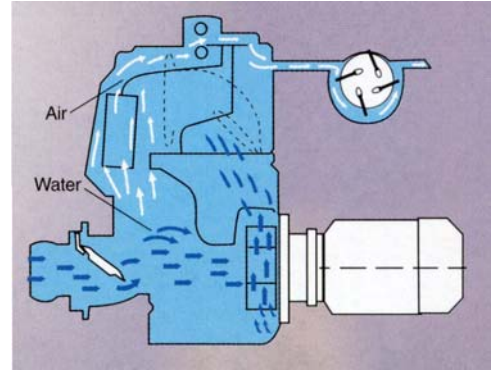
Air separator assembly



Discharge priming valve

Cast iron pump with maximum solids capacity of 3"

\* Some features not available on all models



## WORKING PRINCIPLE

Before reaching the pump impeller, the water / air mixture passes through a wide cross section tank where the flow rate drops sharply. As a result, the air mixed with the water tends to rise because of the different density and is drawn into the vacuum pump forcing the water to rise in the separation tank until a point of balance is reached. At this point, the pump almost exclusively handles water since the balance point level is above the impeller.

Another feature of the Thompson unit is that Thompson uses a self-priming pump. This means that in addition to the air handling capacity of the vacuum system there is additional air handling from the self-priming pump.

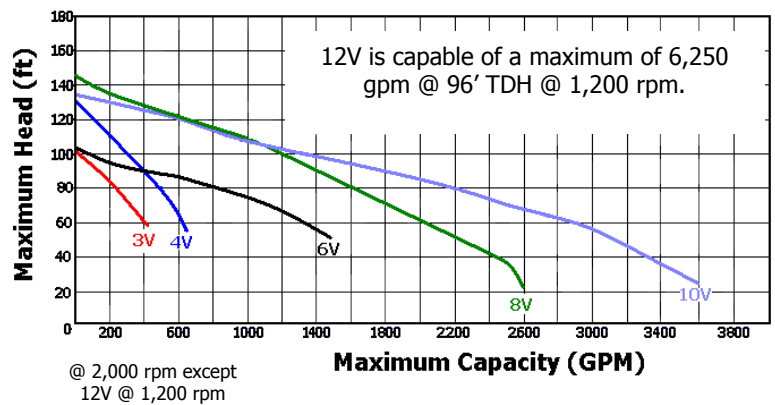
Not only does the V Series *Super Suction* Vacuum-Assisted Dry Prime Trash Pump provide **the fastest priming system in the dewatering industry**, it eliminates the need to fill the pump housing with water to obtain original prime at start-up.

**This makes the Thompson *Super Suction* vacuum-assisted unit the fastest priming system in the industry.**

## MODEL SPECIFICATIONS

Unit Model	Size (In.)	Maximum* Capacity (GPM)	Maximum* Head (Ft.)	Maximum Solids (In.)
3V	3	410	104	1.50
4V	4	650	127	2.00
6V	6	1,500	102	3.00
8V	8	2,600	142	3.00
10V	10	3,500	135	3.35
12V	12	6,250	96	3.00

\* @ 2,000 RPM except 12V @ 1,200 RPM



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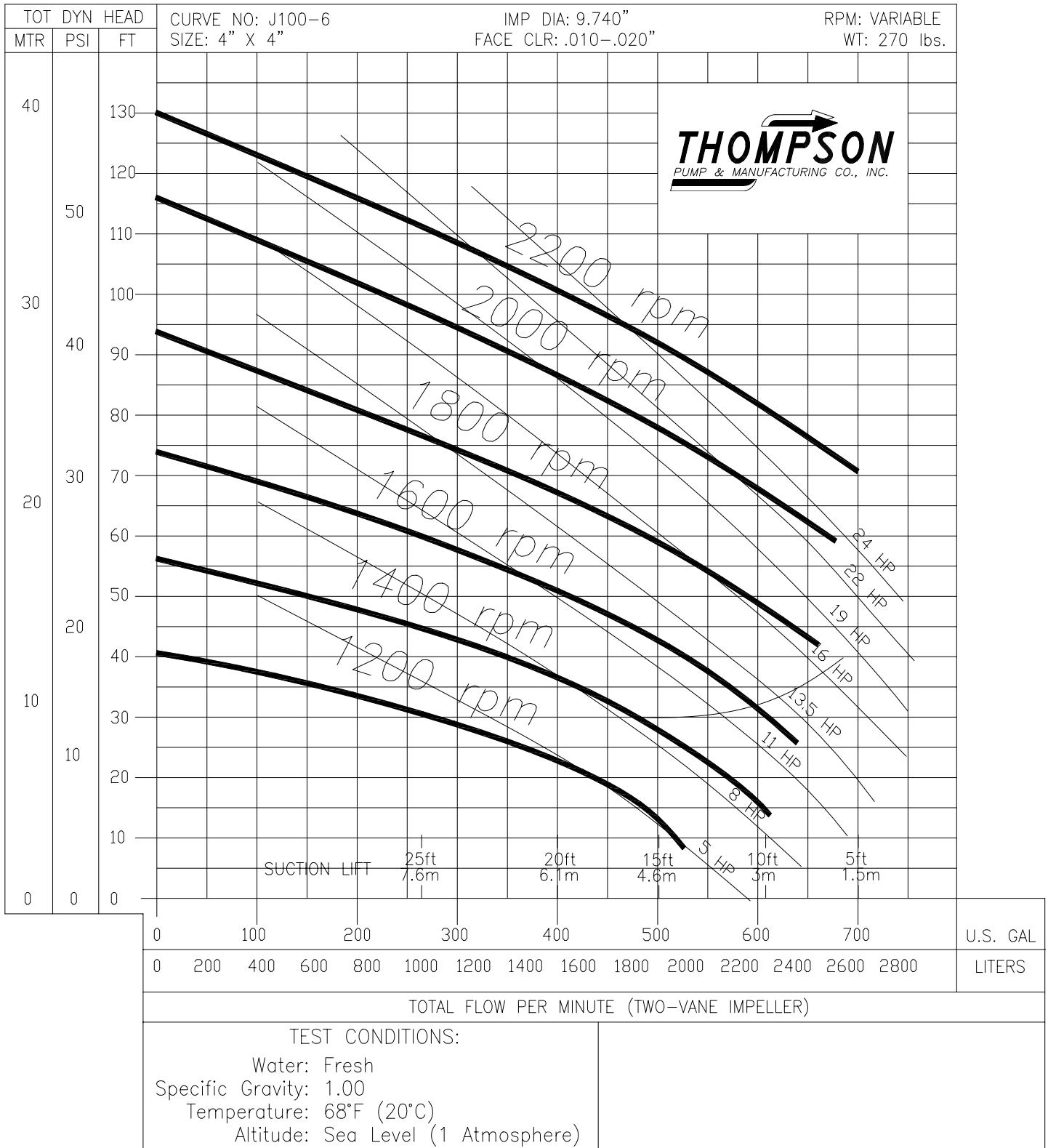


Locations nationwide  
(866) PUMPS-12

## Product Performance Curve

# THOMPSON MODEL 4V VACUUM - ASSISTED PUMP

January, 2001



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