JSV SERIES

SOLIDS HANDLING HIGH PRESSURE JET PUMPS WITH *SUPER SUCTION* PRIMING SYSTEM

Thompson Solids Handling High Pressure Jet Pumps are perfect for a wide range of jetting, dewatering and bypassing applications

Thompson engineers developed a series of high pressure jet pumps that can handle liquids with larger solids and more air than standard end-suction centrifugal pumps. By increasing the impeller size, and adding the *Super Suction* Vacuum-Assisted Priming System, Thompson JSV High Pressure Jet Pumps are able to pass large amounts of solids and able to prime dry and re-prime automatically. These features make the Thompson JSV Series High Pressure Jet Pumps perfect for use on a wide range of jetting, dewatering and bypassing applications.

Heavy duty lifting bail

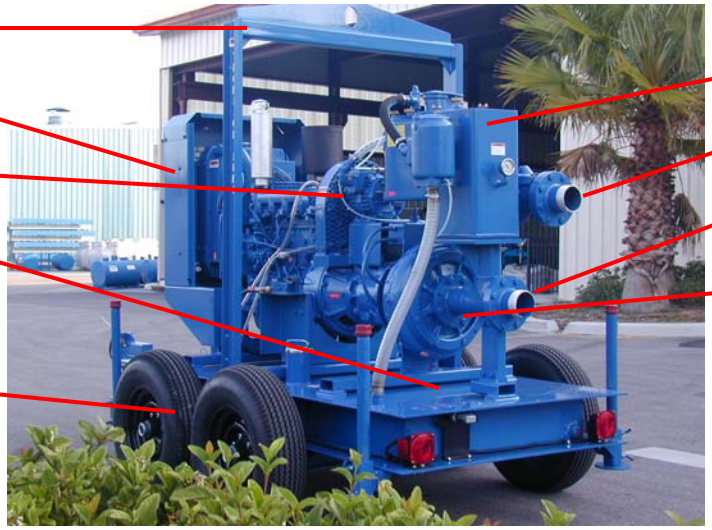
Variety of diesel engines available

78-cfm Vacuum Pump

Self-contained, heavy-duty enclosed frame with integral fuel tank for 24-hour operation

Skid or trailer versions available.*

**Dual axles provided on larger units*



Super Suction Vacuum-Assisted Priming System Suction Float Chamber

Discharge port with discharge priming valve

Suction port

End-suction centrifugal, solids handling pump end

Model shown 4JSV-DJDST

SUPER SUCTION
VACUUM-ASSISTED PRIMING SYSTEM

FEATURES

- Exclusive *SUPER SUCTION* Vacuum-Assisted priming system on all models
- Capability of dry priming and automatic re-priming
- Large solids handling capability – up to 3”
- High pressure capability for jetting or pumping into force mains
- High capacity performance
- End-suction centrifugal pump end
- Heavy-Duty cast iron casing and brackets
- Stress-proof stainless steel shaft sleeves
- Bronze impeller and wear rings
- Abrasion-resistant tungsten carbide vs. silicon carbide mechanical seal
- Discharge priming valves
- Suction and discharge fittings
- Safety shutdown controls
- Variable speed engine control

APPLICATIONS

Construction: Wellpoint installation; pilings; seawall installation; equipment wash down; dewatering excavations, canals and sumps; extended sumping

Waste Treatment: Sewer bypasses; pumping polluted hot or corrosive wastewater containing sand, mud or solids in suspension; force main pumping; dosing neutralizing liquids; pumping out settled sludge

Industry: Water jetting and blasting; piping system surcharging and pressure testing; waste pumping; flood drainage; fire fighting; recovery of hazardous liquids; transfer of neutral, acid or alkali clean or dirty liquids containing sand, mud or solids in suspension

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

Marine: Barge cleaning and wash down; pile jetting; dock installation

Agriculture: Irrigation; dust abatement

Note: Alternate pump end materials available for corrosive liquids

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

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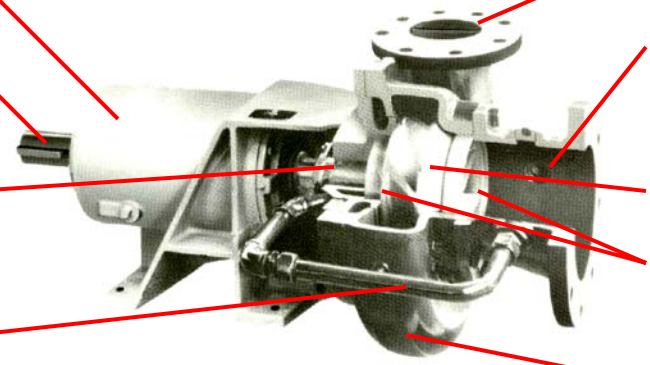
SPECIAL FEATURES*



- Pedestal frame available. Close coupled, engine connection standard
- Large diameter shaft of "Stressproof" steel
- Abrasion-resistant mechanical seals standard. Packing design with large, deep stuffing box for extended packing life on request
- External hydraulic balance line, unique in the industry
- End suction centrifugal pump end with double volute design, standard on larger sizes
- Clean contoured design for smooth liquid entry
- Fully machined bronze impeller with double curvature
- Replaceable recessed bronze wear rings
- Rigid heavy walled cast iron construction resists distortion (ASTM A48 Class 30 cast iron)

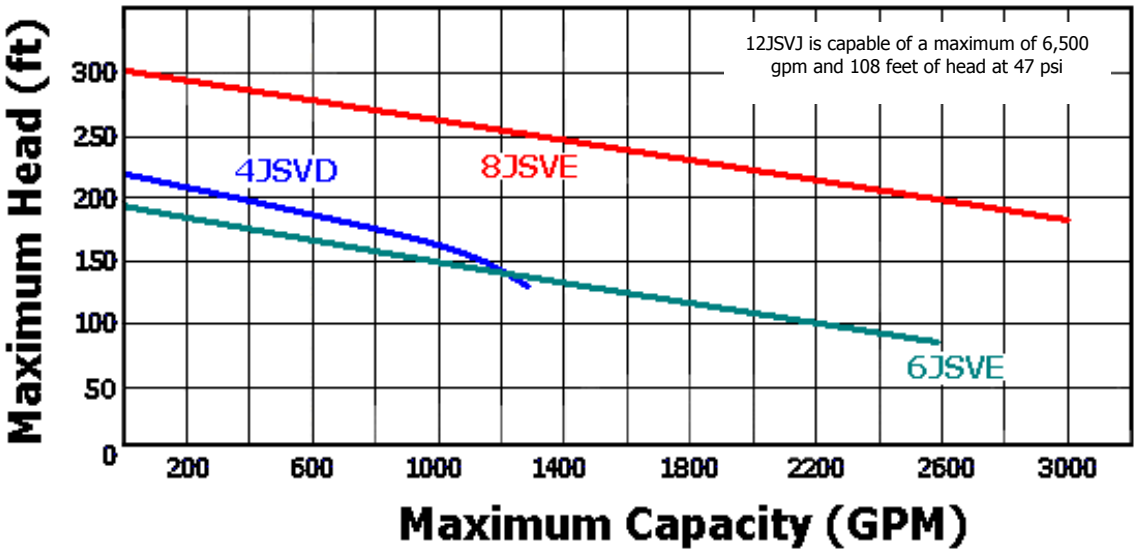
MODEL SPECIFICATIONS

Unit Model	Size (in.)	Maximum* Capacity (GPM)	Maximum* Head (ft.)	Maximum* PSI	Maximum Solids (in.)
4JSVD	4 X 4	1,350	330	143	3.00
6JSVE	6 X 6	2,500	195	84	3.00
8JSVE	8 X 6	2,750	300	130	3.00
12JSVJ	12 X 12	6,500	108	47	3.00

** Consult engineering data for exact maximum performance RPM*

WORKING PRINCIPLE

The pump achieves and maintains its prime with the aid of Thompson Pump's exclusive *Super Suction* vacuum-assisted priming system. The pump is capable of handling liquids with large solids and the *Super Suction* vacuum-assisted priming system is capable of handling large volumes of air, producing quicker priming times. As the water passes through the volute, it is sent out a smaller diameter discharge port. The smaller port increases the pressure as the liquid leaves the pump, creating the jetting feature.



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