



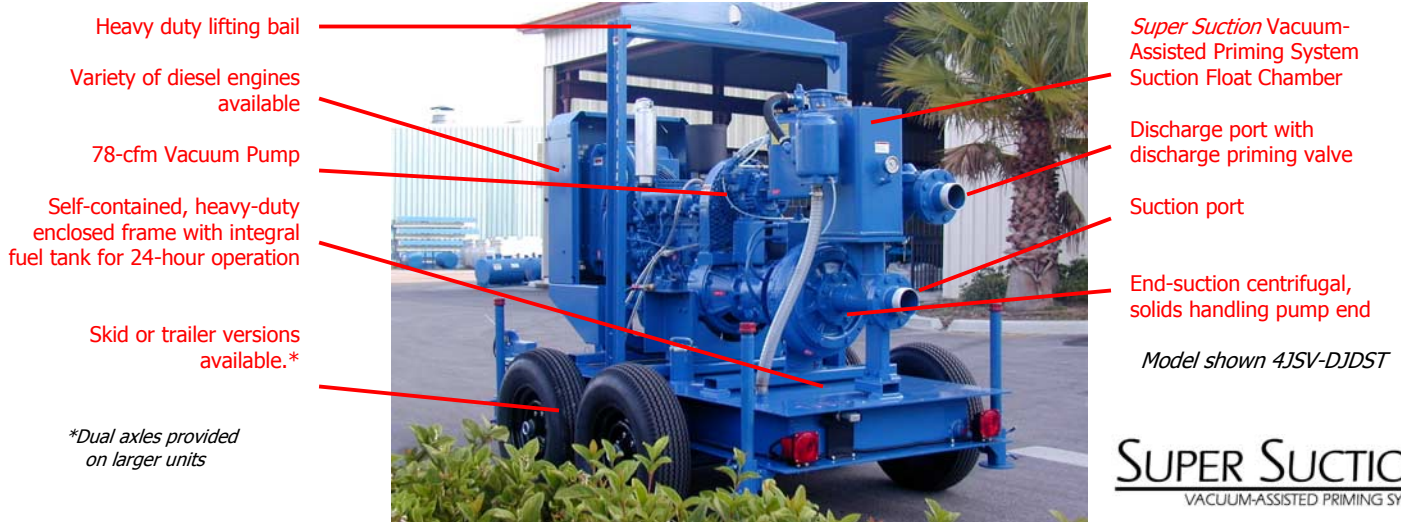
# JSV SERIES

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



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

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, 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 JSV Series High Pressure Jet Pumps perfect for use on a wide range of jetting, dewatering and bypassing applications.



### 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*

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.

Coquitlam, BC, Tel.: (604) 941-6664 • Calgary, AB, Tel.: (403) 279-8371 • Edmonton, AB, Tel.: (780) 489-1961 • Saskatoon, SK, Tel.: (306) 933-4849  
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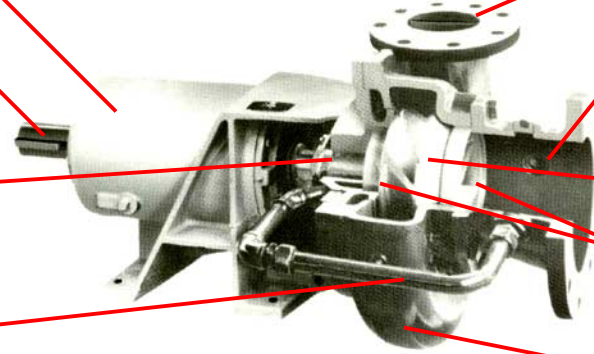
### SPECIAL FEATURES\*

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)

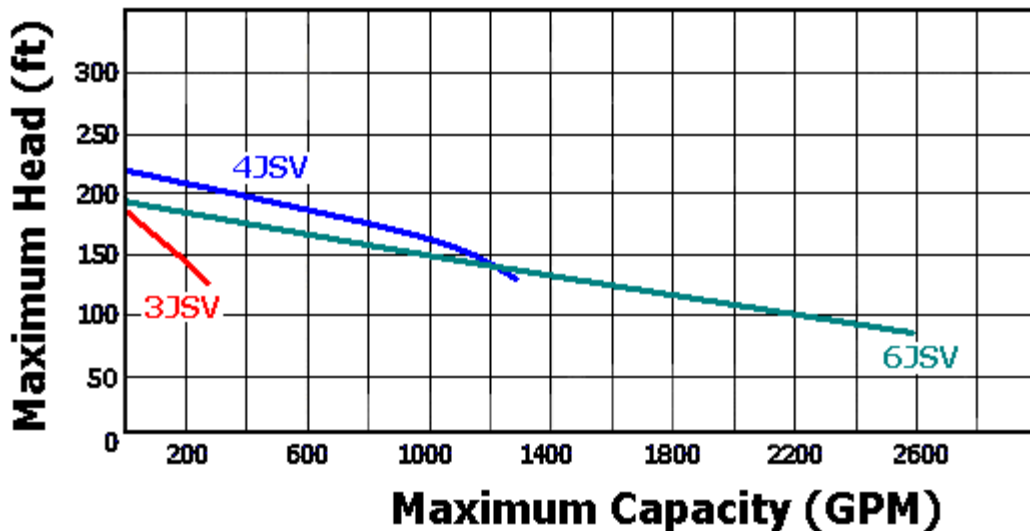
### MODEL SPECIFICATIONS

Unit Model	Size (In.)	Maximum* Capacity (GPM)	Maximum* Head (Ft.)	Maximum* PSI	Maximum Solids (In.)
3JSV	4 X 3	275	185	80	1
4JSV	4 X 4	1,350	220	100	3
6JSV	6 X 6	2,550	195	84	3

\* Consult engineering data for exact maximum performance RPM

### WORKING PRINCIPLE

The pump achieves and maintains its prime with the aid of 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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