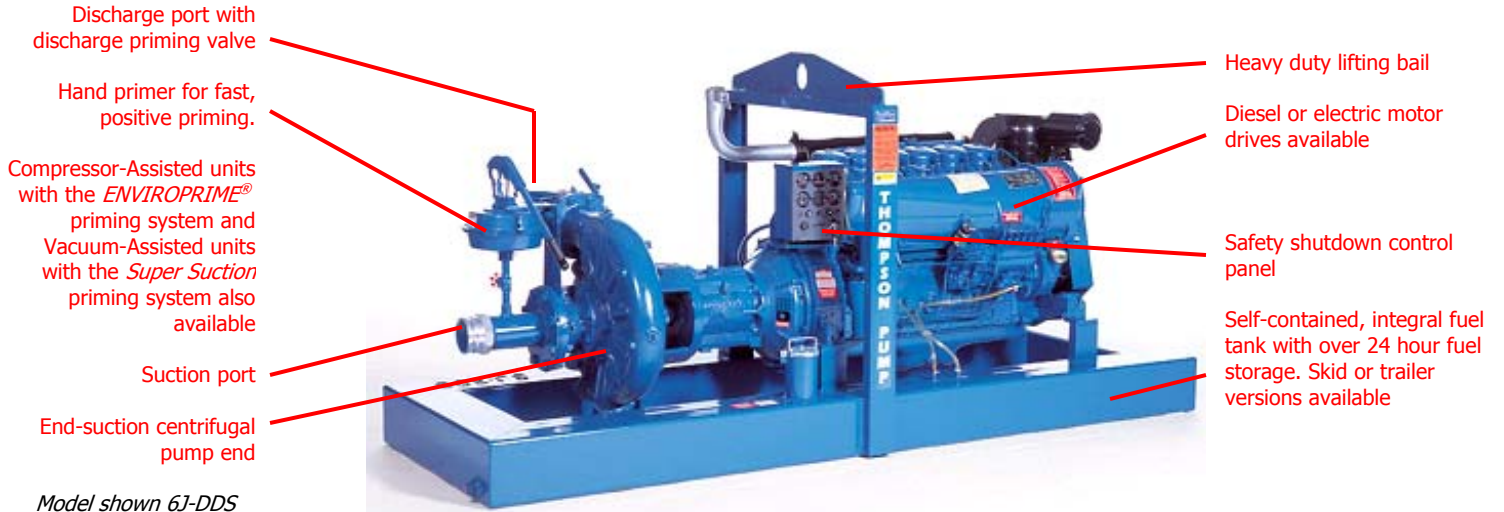


J SERIES CLEAR LIQUID HIGH PRESSURE JET PUMPS



Thompson High Pressure Jet Pumps make short work of wellpoint jetting

Perhaps a better name for Thompson High Pressure Jet Pumps would be "water drill." These durable fast action pumps make quick work of jetting in a wellpoint system, with sizes 3-inch and up, flows to 1,600-gpm and pressures over 200-psi. Time is money on a job site and Thompson High Pressure Jet Pumps are proven performers in the field.



Model shown 6J-DDS

FEATURES

- High pressure capability for jetting
- 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 carbon vs. ceramic mechanical seal
- Discharge priming check valves
- Suction and discharge fittings
- Hand priming devices
- Compressor-Assisted version with exclusive *ENVIROPRIME*[®] priming system available
- Vacuum-Assisted version with exclusive *Super Suction* priming system available
- Safety shutdown controls
- Strainers or foot valves are available
- Variable speed engine control



APPLICATIONS

Construction: Wellpoint installation; equipment wash down; pilings; pre-wet operations

Industry: Water jetting and blasting; standby fire protection; piping system surcharging and pressure testing

Agriculture: Irrigation; dust abatement

Marine: Barge cleaning and wash down; pile jetting; docks and seawall installation;

Note: Alternate pump end materials available for corrosive liquids

Where installation efficiency is the key to job profitability, the right pump is the critical factor. A "lazy" pump slows the crew's production and costs money. Thompson offers a jet pump to suit every job requirement including applications requiring long discharge hose lines and high vertical deliveries. Delivering "punch" at the end of the hose is Thompson's goal for the jetting contractor.

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

J SERIES CLEAR LIQUID HIGH PRESSURE JET PUMPS



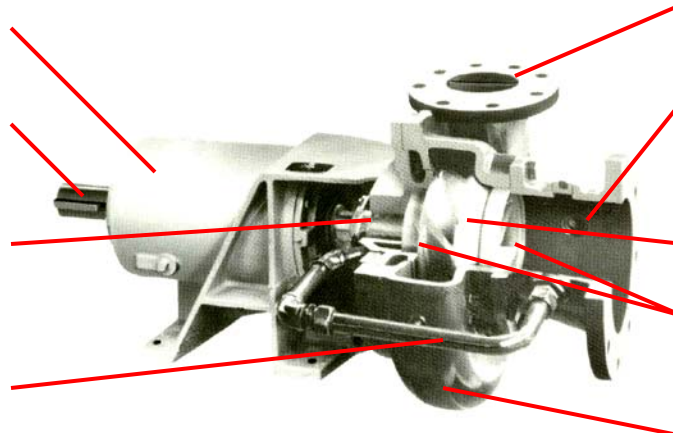
SPECIAL FEATURES*

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



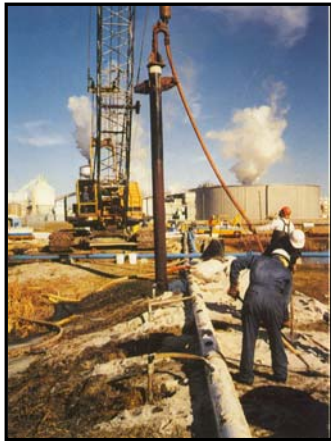
End-suction centrifugal
pump end with single volute
design

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)



Jetting wellpoints is one of the applications most common for Thompson High Pressure Pumps. Pressurized water is pushed through a hose to the top of a vertical shaft called a "casing," which holds the wellpoint inside.

The high-pressure water enters the top of the casing and continues down the shaft. Along with the help of a crane, the casing and the wellpoint are pushed into the ground. When the wellpoint reaches the desired depth, the crane pulls the casing out of the ground, leaving the buried wellpoint.

WORKING PRINCIPLE

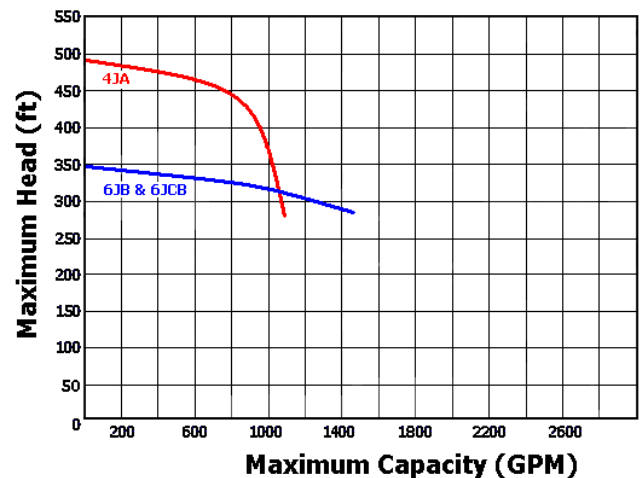
The pump achieves and maintains its prime with the aid of either an on-board hand primer, or Thompson Pump's exclusive *ENVIROPRIME*[®] compressor-assisted priming system. The impeller and volute are designed to handle clear liquid with a slight amount of solids. As the liquid passes through the volute, 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.

MODEL SPECIFICATIONS

Unit Model	Size (in.)	Maximum* Capacity (GPM)	Maximum* Head (ft.)	Maximum* PSI	Maximum Solids (in.)
4JA	4 x 2.5	1,100	440	216	0.50
6JB	6 x 2.5	1,600	400	173	0.62
6JCB**	6 x 2.5	1,600	400	173	0.62

* Consult engineering data for exact maximum performance RPM

** Equipped with ENVIROPRIME[®] Compressor-Assisted Priming System



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



PRODUCT DATA SHEET

October, 2005

THOMPSON 6JC PUMP

(Driven by 6068D engine)

GENERAL INFORMATION

This pump uses an oil-lubricated two-cylinder piston compressor that is driven by v-belt off the shaft. A vacuum is created by forcing air through an air/water separator. A float operated valve installed in the separator prevents liquid but allows air to exit the separation chamber. This pump develops higher discharge pressures than trash pumps due to the wear ring and closed impeller design. Base pump is a Cornell model 4HH.

PERFORMANCE DATA

➤ Minimum Speed:	.....	1300 rpm
➤ Maximum Speed:	.....	2100 rpm
➤ Minimum Shutoff Head:	.....	125' (54 psi) ⁽¹⁾ (@ 1300 RPM)
➤ Maximum Shutoff Head:	.....	350' (152 psi) ⁽¹⁾ (@2100 RPM)
➤ Maximum Suction Lift:	.....	28 feet ⁽²⁾
➤ Minimum Flow:	.....	100 gpm (@ 1300 RPM)
➤ Maximum Flow:	.....	1500 gpm (@ 2100 RPM)
➤ Maximum Suction Press:	.....	100 psig
➤ Maximum Casing Press:	.....	175 psig
➤ Maximum Temperature:	.....	175°F
➤ Maximum Solids Size:	.....	0.62" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller Diameter:	.....	15.22" diameter, six vanes, non-clogging, enclosed
➤ Bearing Lubrication:	.....	No. 2 Grease
➤ Vacuum System:	.....	Quincy 216P, V-belt driven, air-cooled, two-cylinder, 2.85 HP @ 60 psi, 3.00" bore x 2.50" stroke, 12.5 cfm @ 900 RPM, turbine oil lubricated
➤ Mech. Seal Lubrication:	.....	Run-dry oil lubricated
➤ Dead Head Pressure:	.....	86 psi - 89 psi @ 1600 RPM 112 psi - 115 psi @ 1800 RPM

PHYSICAL SPECIFICATIONS

➤ Suction Fitting:	.....	6" 125# male NPT
➤ Discharge Fitting:	.....	6" 125# male NPT
➤ Total Weight:	.....	4100 lbs. (approx.)
➤ Overall Height:	.....	7'-1"
➤ Overall Width:	.....	6'-3½"
➤ Overall Length:	.....	14'-4½"

MATERIAL SPECIFICATIONS

➤ Pump Volute:	.....	Cast iron
➤ Shaft Sleeve:	.....	Stainless steel
➤ Front Wear Ring:	.....	Cast iron
➤ Mechanical Seal Faces:	.....	Carbon against ceramic
➤ Vacuum Chamber:	.....	Carbon steel
➤ Venturi:	.....	Bronze
➤ Pump Shaft:	.....	SAE 1144, stress-proof steel
➤ Elastomers:	.....	Nitrile (Buna N)
➤ Impeller:	.....	Cast iron
➤ Discharge Check Valve:	.....	C.I. / Brass seat / Buna-N

ENGINE SPECIFICATIONS

➤ Engine Make / Model:	.....	John Deere 6068D
➤ Max. Continuous BHP:	.....	113 @ 2500 RPM
➤ Crankcase Oil:	.....	20 qts. SAE 15W-40 ⁽³⁾
➤ Oil Press @ 850 RPM:	.....	15 psi minimum
➤ Safety Shutdowns:	.....	High coolant temperature & low oil pressure
➤ Grease Lubrication:	.....	No. 2 ⁽³⁾
➤ Fuel Capacity / Type:	.....	63 gallons of No. 2 diesel
➤ Fuel Consumption:	.....	~4.85 gal/hr @ full load
➤ Run Time:	.....	13 hours @ full load
➤ Coolant Type:	.....	12 qt 50/50 water/antifreeze
➤ Slow Idle Speed:	.....	850 RPM
➤ Number of Cylinders:	.....	Six
➤ Bore x Stroke:	.....	4.19"x5.00" (414 cu. in. total)
➤ Fuel Filter:	.....	John Deere RE60021
➤ Oil Filter:	.....	John Deere RE59754
➤ Engine Air Filter:	.....	John Deere CO105017
➤ Compressor Air Filter:	-	Thompson Q29-110377E075
➤ Compressor Oil Filter:	-	Thompson Q29-216PF

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity
- ⁽²⁾ Lift varies greatly with flowrate and pump speed
- ⁽³⁾ Midrange compromise. See John Deere manual.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied because variations can and do exist. NO WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY BAKER PUMPS, EITHER EXPRESS OR IMPLIED.



Locations nationwide
(866) PUMPS-12

Product Performance Curve

THOMPSON MODEL 6JC HIGH-HEAD COMPRESSOR- ASSISTED PUMP

June, 2003

Impeller Dia.	Style	No. Vanes	Solids Dia.	Suction	Discharge	Weight
15.22"	ENCLOSED	6	0.62"	6"	4"	790 LBS.

