



JSC SERIES

ENVIROPRIME® SOLIDS HANDLING HIGH PRESSURE JET PUMPS



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 *ENVIROPRIME*® Compressor-Assisted Priming System, JSC High Pressure Jet Pumps are able to pass solids up to 4-inches in size and able to prime dry and re-prime automatically. These features make the JSC Series High Pressure Jet Pumps perfect for use on a wide range of jetting, dewatering and bypassing applications.



Model shown 16JSC-DJDST



FEATURES

- Exclusive *ENVIROPRIME*® Compressor-Assisted priming system on all models
- Capability of dry priming and automatic re-priming
- Large solids handling capability – up to 3.38"
- 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
 Winnipeg, MB, Tel.: (204) 235-0050 • Concord, ON, Tel.: (905) 760-7530 • Ottawa, ON, Tel.: (613) 225-9600 • Sudbury, ON, Tel.: (705) 560-2141
 Thunder Bay, ON, Tel.: (807) 625-9960 • Pointe-Claire, QC, Tel.: (514) 695-0133 • Beauport, QC, Tel.: (418) 667-1694 • Val d'Or, QC, Tel.: (819) 825-0792
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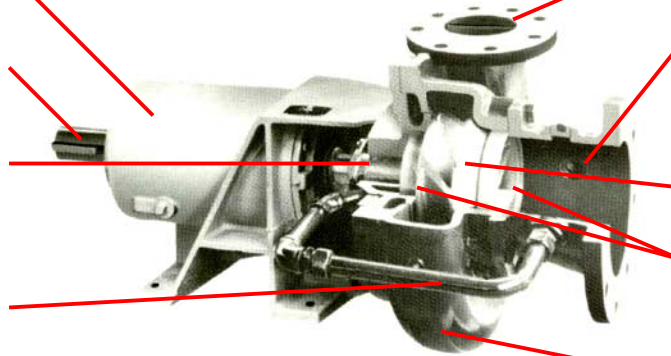
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SPECIAL FEATURES*

- Pedestal frame available. Close coupled, engine connection standard
- Large 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

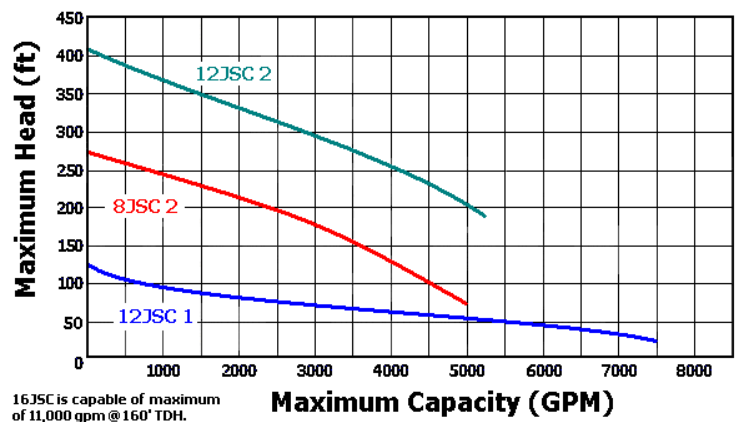
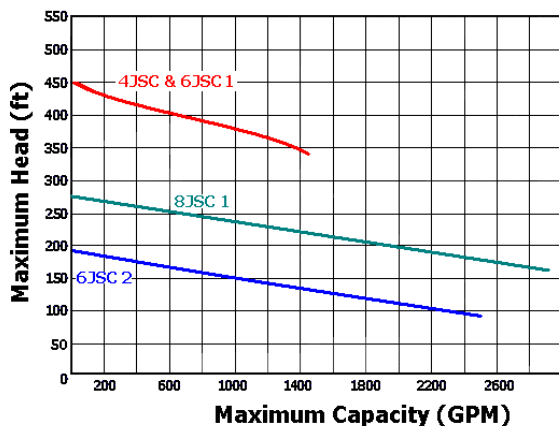
Unit Model	Size (In.)	Maximum* Capacity (GPM)	Maximum* Head (Ft.)	Maximum* PSI	Maximum Solids (In.)
4JSC	4 X 4	1,450	450	195	3.00
6JSC ^{1†}	6 X 4 †	1,450†	450†	195†	3.00†
6JSC ^{2†}	6 X 6 †	2,550†	195†	84†	3.00†
8JSC ^{1†}	8 X 6 †	2,750†	275†	120†	3.00†
8JSC ^{2†}	10 X 8 †	5,000†	250†	250†	3.38†
12JSC ^{1†}	12 X 12 †	7,500†	120†	52†	3.00†
12JSC ^{2†}	12 X 12 †	5,250†	405†	175†	3.38†
16JSC	16 X 16	11,000	160	69	4.00

* Consult engineering data for exact maximum performance RPM
 † Different performances listed for like models because of available engine and impeller configurations

WORKING PRINCIPLE

The pump achieves and maintains its prime with the aid of exclusive ENVIROPRIME® compressor-assisted priming system. The pump is capable of handling liquids with large solids and the ENVIROPRIME® compressor-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.

- 6JSC 1 – 6JSC-DJD-6068T with 14" impeller
- 6JSC 2 – 6JSC-DJD-4045D with 12" impeller
- 8JSC 1 – 8JSC-DJD-6068T with 14" impeller
- 8JSC 2 – 8JSC-DJD-6068T with 14.63" impeller
- 12JSC 1 – 12JSC-DJD-6068T with 12.88" impeller
- 12JSC 2 – 12JSC-DC-M11-300 with 17.5" impeller



16JSC is capable of maximum of 11,000 gpm @ 160' TDH.

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