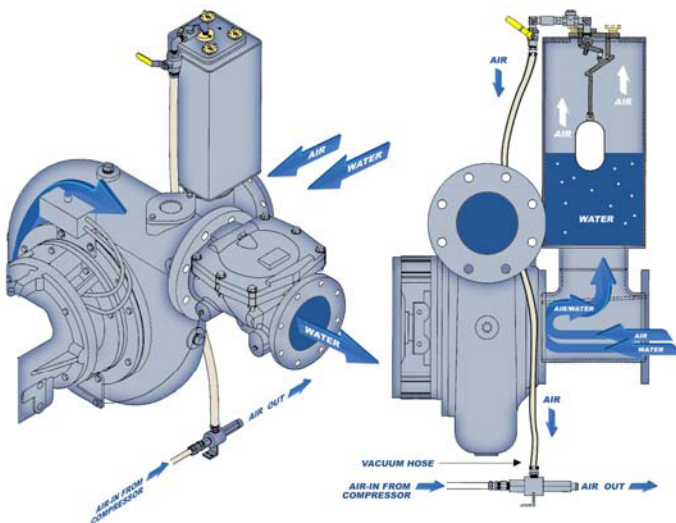


# 6" Solids Handling ENVIROPRIME® Pump 6JSCE-DJDST-45T-M

With its heavy-duty cast-iron construction, ability to dry-prime and re-prime automatically, this end-suction centrifugal pump leads the industry in construction, industrial and mining applications. The Thompson 6JSCE-DJDST-45T-M ENVIROPRIME® Solids Handling Pump is designed for high flows and heads to 195 feet making it perfect for sewage bypass pumping or general construction dewatering. The 6JSCE-DJDST-45T-M pump provides flow rates to 2,700 gpm and solids handling to 3".

## Features

- ☒ Standard engine – John Deere 4045TF290-74 Available with a variety of diesel engines.
- ☒ Fully automatic, dry priming to 28 feet.
- ☒ Heads to 195 feet. Maximum flows to 2,700 gpm.
- ☒ Modular frame included with optional removable drop-on sound enclosure.
- ☒ Maximum operating time is:
  - 28 hours @ 2,000 rpm
  - 36 hours @ 1,800 rpm
  - 49 hours @ 1,600 rpm
- ☒ ENVIROPRIME® compressor-assisted priming system prevents blow-by allowing pump to be environmentally safe.



## ENVIROPRIME<sup>®</sup> system<sup>®</sup>

Thompson's exclusive ENVIROPRIME<sup>®</sup> dry-priming system works in conjunction with the compressor/venturi priming system to prevent blow-by, such as sewage and waste, from discharging onto the ground. The system works automatically, evacuating the air from the suction line during startup, as well as any air or gases introduced into the suction line during the pumping process.

## Features and Benefits

- ☒ Handles large volumes of air, producing quicker priming times.
- ☒ Eliminates need for a venturi waste hose
- ☒ Extends the life of the pump by separating air and water, keeping the venturi from clogging and shutting down the system.
- ☒ Allows for optional noise suppressor
- ☒ This innovative system, along with high efficiency impellers, lessens power requirements resulting in reduced operating costs.

  
**THOMPSON  
PUMP**  
EXPERIENCE INNOVATION

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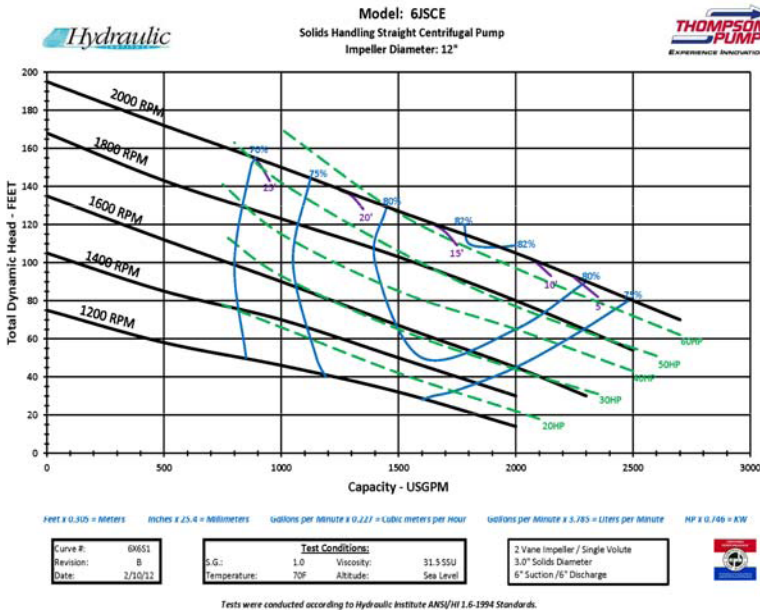
## Engine Specifications

**Engine:** John Deere 4045T, 72 hp @ 2,000 rpm  
**Type:** 4-cylinder, in-line, 4-cycle, water-cooled, turbo-charged, direct-injected, Interim Tier IV diesel  
**Standard Equipment:** Alternator, radiator, EPA certified emissions exhaust muffler  
**Displacement:** 275 cubic inches  
**Fuel Economy:** .397 lb/hp-hr @ 2,000 rpm  
                   .395 lb/hp-hr @ 1,800 rpm  
                   .397 lb/hp-hr @ 1,600 rpm  
**Automatic Shutdowns:** Low lube oil pressure; high water temperature

## Materials of Construction

**Pump Casing:** Heavy-duty class 30 cast-iron  
**Impeller:** Dynamically balanced, non-clogging, enclosed, 65-45-12 ductile iron, with rear-equalizing vanes to reduce axial loading and prolong seal and bearing life; Diameter 12.0"  
**Mechanical Seal:** 2.5" dry-running, oil lubricated with Tungsten Carbide rotating and Silicon Carbide stationary seal faces. Other components are 304 stainless steel and viton.  
**Head:** Rugged, back pull out design, heavy-duty class 30 cast iron with tapered bore design.  
**Bearings:** Heavy-duty grease lubricated to carry both axial and radial loads.  
**Suction Wear Ring:** 65-45-12 ductile iron  
**Shaft:** 'Stress-proof' steel and fitted with a renewable 416 stainless steel shaft sleeve

## 6JSCE-DJDST-45T-M Performance Curve



## Unit Specifications

**Fuel Tank Capacity:** 114 US gallons  
**Fuel Consumption:** 3.97 gallons per hour  
**Maximum Operating Speed:** 2,000 rpm  
**Maximum Operating Temperature:** 212°F  
**Maximum Operating Pressure:** 85 psi  
**Maximum Suction Lift:** 28 feet  
**Maximum Casing Pressure:** 195 psi