8” Solids Handling
Vacuum-Assisted Jet Pump
DSV88

With its heavy-duty CD4MCu Stainless Steel construction and fast priming capabilities, this solids handling jet pump leads the industry in construction, industrial and mining applications. The DSV88 is designed for high flows to 3,200 gpm and heads to 300 feet making it perfect for sewage bypass pumping or general construction dewatering.

Features

- Standard engine – John Deere 4045HF485-154
- Fully automatic, dry priming to 28 feet.
- High heads to 300 feet
- Flows to 3,200 gpm
- Solids handling to 3”
- Double wall fuel tank included
- Modular frame with removable drop-on Silent Knight® sound enclosure capability
- Maximum operating time is:
  - 26 hours @ 2,000 rpm
  - 28 hours @ 1,800 rpm
  - 33 hours @ 1,600 rpm
- 97 SCFM Oil-Less vacuum pump air handling capacity
- Emergency Engine Shutdown Button

- Provides extremely fast priming because of the high air handling capacity
- Prevents discharge of pumping effluent onto the ground
- Eliminates need for a waste hose
- Eliminates need to fill up pump housing with water to obtain original prime at start-up
8” Solids Handling Vacuum-Assisted Jet Pump  
**DSV88**

### Unit Specifications
- **Fuel Tank Capacity:** 114 US gallons  
- **Fuel Consumption:** 4.33 gph @ 2,000 rpm  
- **Maximum Operating Speed:** 2,000 rpm  
- **Maximum Operating Temperature:** 200°F  
- **Maximum Working Pressure:** 130 psi  
  “Defined by the Hydraulic Institute as the maximum discharge pressure which could occur in the pump when it is operated at rated speed.”  
- **Maximum Suction Lift:** 28 Feet

### Engine Specifications
- **Engine:** John Deere 4045H, 149 hp @ 2,000 rpm  
- **Type:** 4-cylinder, in-line, 4-cycle, water-cooled, turbo-charged, direct-injected, Tier III diesel  
- **Standard Equipment:** Alternator, radiator, muffler, and residential grade silencer muffler  
- **Displacement:** 275 cubic inches  
- **Fuel Economy:** .350 lb/hp-hr @ 2,000 rpm  
  .351 lb/hp-hr @ 1,800 rpm  
  .360 lb/hp-hr @ 1,600 rpm  
- **Automatic Shutdowns:** Low lube oil pressure; high water temperature

### Vacuum Pump Specifications
- **Vacuum Pump:** Dry, rotary claw, air cooled, oil-less, direct drive (5.4 Hp)  
- **Casing:** Class 30 cast iron  
- **Maximum Operating Temperature:** 200°F  
- **Maximum Working Pressure:** 15 psi  
- **Maximum Suction Lift:** 28 feet  
- **Air Handling Capacity:** 97 SCFM

### Materials of Construction
- **Pump Casing:** CD4MCu Stainless Steel  
- **Impeller:** Dynamically balanced, non-clogging, enclosed, CD4MCu, with rear-equalizing vanes to reduce axial loading and prolong seal and bearing life; Diameter 14”  
- **Mechanical Seal:** 2.5” run-dry, grease lubricated with Tungsten Carbide rotating and Silicon Carbide stationary seal faces. Single inside mounted, non-pusher type with self-adjusting elastomeric bellows. All other components are 304 stainless steel and viton.  
- **Head:** Rugged, back pull out design, CD4MCu Stainless Steel with tapered bore design  
- **Bearings & Frame:** Heavy-duty grease lubricated to carry both axial and radial loads. Frame is heavy-duty class 30 cast-iron  
- **Shaft:** 17-4 PH stainless steel fitted with a renewable 416 stainless steel sleeve

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**Model: DPV88**  
**Solids Handling Straight Centrifugal Pump**  
**Impeller Diameter: 14” (Enclosed)**

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