

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



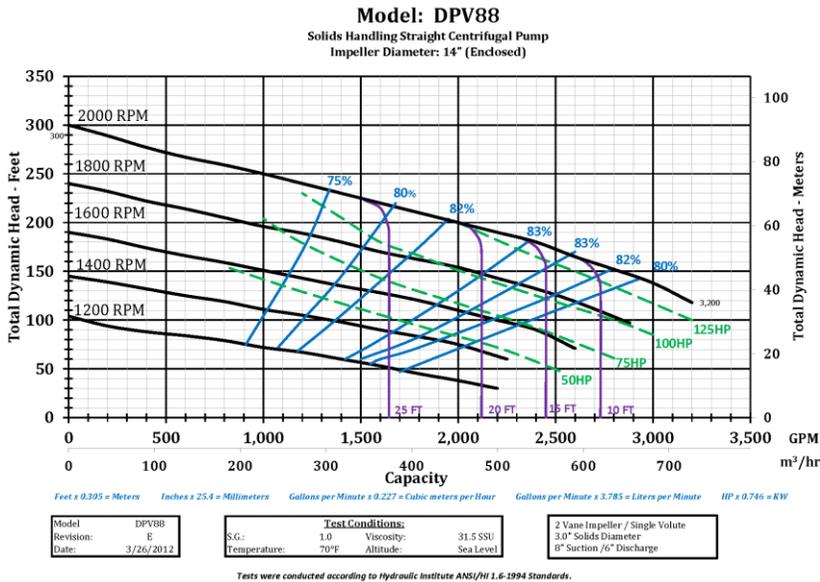
- Provides extremely fast priming because of the high air handling capacity
- Prevents discharge of pumping effluent onto the ground
- Eliminates need for a waste hose
- Eliminates need to fill up pump housing with water to obtain original prime at start-up



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DSV88 Performance Curve



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

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