



PRODUCT DATA SHEET

November, 2000

6" GODWIN CD150 PUMP

GENERAL INFORMATION

The compressor/ejector priming system uses a compressor to blow compressed air through a jet into a tapered tube to create a vacuum. The compressor is powered by a timing belt driven off the engine and receives lubrication from the engine's oiling system. A valve installed at the injector inlet slows down fluid entering the ejector. A screen installed at the inlet filters out debris from entering. Flexible tubing connected to the ejector exhaust directs blowby on the ground or collection source.

PERFORMANCE DATA

➤ Minimum Speed:	- 1200 rpm
➤ Maximum Speed:	- 2200 rpm
➤ Minimum Shutoff Head:	- 49 feet (21 psi) ⁽¹⁾ @ 1200 rpm
➤ Maximum Shutoff Head:	- 157 feet (68 psi) ⁽¹⁾ @ 2200 rpm
➤ Maximum Suction Lift:	- 25 feet ⁽⁵⁾
➤ Minimum Flow:	- 250 – 500 gpm
➤ Maximum Flow:	- 1750 – 2300 gpm
➤ Maximum Suction Press:	- 29 psi
➤ Maximum Casing Press:	- 88 psi
➤ Maximum Temperature:	- 212°F
➤ Maximum Solids Size:	- 3" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 10-7/8", three vanes
➤ Wearplate Clearance:	- 0.015" – 0.020" (rear) 0.015" – 0.020" (front)
➤ Bearing Lubrication:	- No. 2 Grease
➤ Vacuum System:	- Piston compressor, 10 cfm, with venturi eductor
➤ Mech. Seal Lubrication:	- 1.2 pints SAE 20/20 oil
➤ Dead Head Pressure:	-
@ 1600 RPM:	31 psi – 36 psi
@ 1800 RPM:	39 psi – 46 psi
@ 2000 RPM:	49 psi – 58 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- Six-inch 150# flange
➤ Discharge Size:	- Six-inch 150# flange
➤ Total Weight:	- 2750 lbs. ⁽²⁾
➤ Overall Height:	- 6'-0"
➤ Overall Width:	- 5'-4"
➤ Overall Length:	- 9'-6"

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- Cast iron
➤ Shaft Sleeve:	- Nickel/Chromium
➤ Wearplates:	- Cast iron
➤ Mechanical Seal Faces:	- Silicon carbide
➤ Separator Tank:	- Cast Iron
➤ NRV Ball and Seat:	- Nitrile rubber (Buna-N)
➤ Pump Shaft:	- Nickel/Chromium
➤ Elastomers:	- Nitrile (Buna-N)
➤ Impeller:	- Chromium steel
➤ NRV Body:	- Silicon aluminum

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 4039D
➤ Crankcase Oil:	- 10 quarts of SAE 10W30 ⁽³⁾
➤ Oil Press @ 1300 RPM:	- 21 psi min.
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Grease Lubrication:	- No. 2 ⁽³⁾
➤ Fuel Capacity/Type:	- 60 gallons of No. 2 diesel
➤ Fuel Consumption:	- 2.92 gal/hr @ 2200 rpm
➤ Run Time:	- 20 hours + ⁽⁴⁾
➤ Coolant Type:	- 50/50 water/antifreeze
➤ Slow Idle Speed:	- 800 – 850 RPM
➤ Number of Cyinders:	- Four
➤ Bore x Stroke:	- 4.19"x4.33"
➤ Fuel Filter:	- Baldwin BF1237
➤ Oil Filter:	- Baldwin BT259
➤ Engine Air Filter:	- Baldwin PA2826
➤ Compressor Air Filter:	- Baldwin PA2072

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity
- ⁽²⁾ Includes weight of trailer, pump and engine
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ At 2200 RPM. Run time increases with reduced speed and decreases with higher speed.
- ⁽⁵⁾ Depends on flowrate and pump speed.

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