



PRODUCT DATA SHEET

May, 2005

6" PA6E60-6068H
GORMAN-RUPP 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.

PERFORMANCE DATA

➤ Minimum Speed:	- 1200 rpm
➤ Maximum Speed:	- 1800 rpm
➤ Minimum Shutoff Head:	- 130 feet (56 psi) ⁽¹⁾ @ 1200 rpm
➤ Maximum Shutoff Head:	- 290 feet (125 psi) ⁽¹⁾ @ 1800 rpm
➤ Maximum Suction Lift:	- 25 feet ⁽⁶⁾ (@ 2750 gpm)
➤ Minimum Flow:	- 850 gpm @ 1200 RPM
➤ Maximum Flow:	- 4500 gpm
➤ Maximum Casing Press:	- 254 psi
➤ Maximum Temperature:	- 160°F
➤ Maximum Solids Size:	- 3.38" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 16.13" diameter; 6 vanes
➤ Wear Ring Clearance:	- 0.010" – 0.020"
➤ Bearing Lubrication:	- Grease
➤ Vacuum System:	- Gear driven air compressor integrally mounted to the engine
➤ Mech. Seal Lubrication:	- SAE No. 30 oil
➤ Dead Head Pressure:	-
@ 1200 RPM:	56 psi
@ 1600 RPM:	99 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- 10" FNPT female flange
➤ Discharge Size:	- 6" FNPT female flange
➤ Total Weight:	- 5495 lbs. ⁽²⁾
➤ Overall Height:	- 7'-3" (top of exhaust stack) 7'-1" (to top of lifting bail)
➤ Overall Width:	- 5'-2" (ck. va. Flg face to opp skid) 4'-2" (skid side to skid side)
➤ Overall Length:	- 10'-4"

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- Gray Iron No. 30
➤ Shaft Sleeve:	- Chrome plated 416 s.s.
➤ Wear Ring:	- Volute: Bronze No. C83600 Impeller: Gray Iron No. 30
➤ Mechanical Seal Faces:	- Silicon carb./ Tungsten carb.
➤ Priming Chamber:	- Gray Iron No. 30
➤ Pump Shaft:	- Stress proof stainless steel
➤ O-rings:	- Buna-N and viton
➤ Impeller:	- Gray Iron No. 30
➤ Check Valve Body	- Gray Iron No. 30
➤ Check Valve Flapper:	- Buna-N
➤ Flanges:	- Gray Iron No. 30

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 6068H Turbo (Tier II)
➤ Max. Continuous BHP:	- 203 @ 2400 RPM ⁽⁵⁾
➤ Crankcase Oil:	- SAE 10W40 ⁽³⁾
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Fuel Capacity/Type:	- 130 gallons of No. 2 diesel
➤ Fuel Consumption:	- 8.42 gal/hr @ 1800 RPM ⁽⁴⁾ 4.63 gal/hr @ 1400 RPM ⁽⁴⁾
➤ Run Time:	- 20.3 hours @ 1800 RPM ⁽⁴⁾ 36.9 hours @ 1400 RPM ⁽⁴⁾
➤ Coolant:	- 50/50 water/antifreeze
➤ Number of Cyinders:	- Six
➤ Bore x Stroke:	- 4.19"x5.0"

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity
- ⁽²⁾ Includes weight of skid, pump and engine
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ Estimated
- ⁽⁵⁾ **WARNING** – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is only 1800 RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed.

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