



PRODUCT DATA SHEET

January, 2001

6" PA6A60 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:	- 1600 rpm
➤ Maximum Speed:	- 2000 rpm
➤ Minimum Shutoff Head:	- 96 feet (42 psi) ⁽¹⁾ @ 1600 rpm
➤ Maximum Shutoff Head:	- 152 feet (66 psi) ⁽¹⁾ @ 2000 rpm
➤ Maximum Suction Lift:	- 25 feet ⁽⁶⁾
➤ Minimum Flow:	- 200 gpm
➤ Maximum Flow:	- 1850 gpm
➤ Maximum Casing Press:	- 90 psi
➤ Maximum Temperature:	- 160°F
➤ Maximum Solids Size:	- 3" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 10-3/4", two vanes
➤ Wearplate Clearance:	- 0.010" – 0.020" (rear) 0.010" – 0.020" (front)
➤ Bearing Lubrication:	- SAE No. 30 oil
➤ Vacuum System:	- Piston compressor, 20 cfm, with venturi eductor
➤ Mech. Seal Lubrication:	- Three qts. SAE No. 30 oil
➤ Dead Head Pressure:	-
@ 1600 RPM:	39 psi – 42 psi
@ 1800 RPM:	50 psi – 52 psi
@ 2000 RPM:	61 psi – 64 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- Six-inch Bauer
➤ Discharge Size:	- Six-inch Bauer
➤ Total Weight:	- Approx. 3500 lbs. ⁽²⁾
➤ Overall Height:	- 6'-6"
➤ Overall Width:	- 6'-0"
➤ Overall Length:	- 11'-3"

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- Cast iron
➤ Shaft Sleeve:	- Alloy steel 17-4 PH
➤ Wearplates:	- Carbon steel
➤ Mechanical Seal Faces:	- Silicon carbide/ Silicon carb.
➤ Separator Tank:	- Cast Iron / steel
➤ Flapper Valve:	- Rubber / Bronze
➤ Pump Shaft:	- Alloy steel 17-4 PH
➤ Elastomers:	- Nitrile (Buna-N)
➤ Impeller:	- Ductile iron
➤ Flapper Body:	- Cast Iron
➤ Peel Valve:	- Silicon rubber

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 4045D
➤ Crankcase Oil:	- 14 quarts of SAE 10W40 ⁽³⁾
➤ Oil Press @ 800 RPM:	- 15 psi min.
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Fuel Capacity/Type:	- 65 gallons of No. 2 diesel
➤ Fuel Consumption:	- 2.67 gal/hr @ 2000 rpm
➤ Run Time:	- 24 hours + ⁽⁴⁾
➤ Coolant:	- 6 gal. 50/50 water/antifreeze
➤ Slow Idle / Rated Speed:	- 1400 RPM / 2400 RPM ⁽⁵⁾
➤ Noise Level @ BEP:	- 85 dbA
➤ Number of Cyinders:	- Four
➤ Bore x Stroke:	- 4.19"x5.00"
➤ Fuel Filter:	- RE600021
➤ Oil Filter:	- RE59754
➤ Engine Air Filter:	- AT44377

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⁾ **WARNING** – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is only 2200 RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed.

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