



PRODUCT DATA SHEET

October, 2004

3" PA3A60 GORMAN-RUPP PUMP

GENERAL INFORMATION

This pump is fitted with a compressor / ejector priming system to create a vacuum on the inlet to the pump. This allows the pump to automatically prime and reprime.

PERFORMANCE DATA

➤ Minimum Speed:	- 1600 rpm
➤ Maximum Speed:	- 2400 rpm
➤ Minimum Shutoff Head:	- 212 feet (92 psi) ⁽¹⁾ @ 1600 rpm
➤ Maximum Shutoff Head:	- 480 feet (208 psi) ⁽¹⁾ @ 2100 rpm
➤ Maximum Suction Lift:	- 28 feet ⁽⁶⁾ (@500 gpm)
➤ Minimum Flow:	- 300 gpm @ 1600 RPM
➤ Maximum Flow:	- 950 gpm @ 2000 RPM
➤ Maximum Casing Press:	- 312 psi
➤ Maximum Temperature:	- 160°F
➤ Maximum Solids Size:	- ½" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 15.22", six vanes, enclosed
➤ Bearing Lubrication:	- Grease
➤ Vacuum System:	- Holset compressor integrally mounted to engine
➤ Mech. Seal Lubrication:	- Oil lubricated
➤ Dead Head Pressure:	-
@ 1600 RPM:	92 psi
@ 1800 RPM:	116 psi
@ 2000 RPM:	145 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- 6" ASA Flange
➤ Discharge Size:	- 3" ASA Flange
➤ Total Weight:	- 4060 lbs. ⁽²⁾
➤ Overall Height:	- 7'-11" (To top of lifting bail)
➤ Overall Width:	- 6'-0"
➤ Overall Length:	- 11'-5" (Trailer length)

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- Gray Iron No. 30
➤ Shaft Sleeve:	- Chrome plated 416 S.S.
➤ Wear Rings:	- Impeller – Gray Iron No. 30 Casing – Bronze No. C83600
➤ Mechanical Seal Faces:	- Silicon carbide/ Tung. carb.
➤ Priming Chamber:	- Gray Iron No. 30
➤ Pump Shaft:	- Stress-Proof Stainless Steel
➤ O-rings:	- Buna-N
➤ Impeller:	- Gray Iron No. 30
➤ Check Valve Body:	- Gray Iron No. 30
➤ Check Valve Flapper:	- Buna-N Flapper

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 4045T
➤ Max. Continuous BHP:	- 115 @ 2500 RPM ⁽⁵⁾
➤ Crankcase Oil:	- 9 quarts of SAE 10W40 ⁽³⁾
➤ Oil Press @ 800 RPM:	- 15 psi min.
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Grease Lubrication:	- No. 2 ⁽³⁾
➤ Fuel Capacity/Type:	- 88 gallons of No. 2 diesel
➤ Fuel Consumption:	- 2.1 gal/hr @ 2100 rpm
➤ Run Time:	- 24 hours + ⁽⁴⁾
➤ Coolant:	- 4 gal. 50/50 water/antifreeze
➤ 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 (w/o fuel)
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ At 2100 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 2100 RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed. See pump curve.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied because variations can and do exist. NO WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY BAKER PUMPS, EITHER EXPRESS OR IMPLIED.