



PRODUCT DATA SHEET

November, 2002

4" PA4A60 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:	- 1550 rpm
➤ Maximum Speed:	- 2100 rpm
➤ Minimum Shutoff Head:	- 87 feet (38 psi) ⁽¹⁾ @ 1550 rpm
➤ Maximum Shutoff Head:	- 152 feet (66 psi) ⁽¹⁾ @ 2100 rpm
➤ Maximum Suction Lift:	- 25 feet ⁽⁶⁾ @350 gpm and 2100 RPM
➤ Minimum Flow:	- 60 gpm @ 1550 RPM
➤ Maximum Flow:	- 925 gpm @ 2100 RPM
➤ Maximum Casing Press:	- 99 psi
➤ Maximum Temperature:	- 160°F
➤ Maximum Solids Size:	- 3" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 9-3/4", two vanes, open
➤ 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:	- Oil lubricated
➤ Dead Head Pressure:	-
@ 1600 RPM:	40 psi
@ 1800 RPM:	50 psi
@ 2000 RPM:	61 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- 4" ASA Flange
➤ Discharge Size:	- 4" ASA Flange
➤ Total Weight:	- 3802 lbs. ⁽²⁾
➤ Overall Height:	- 7'-7" (To top of lifting bail)
➤ Overall Width:	- 5'-11"
➤ Overall Length:	- 10'-2" (Trailer length)

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- Gray Iron No. 30
➤ Shaft Sleeve:	- 17-4 PH S.S.
➤ Wearplates:	- Carbon steel No. 1018
➤ Mechanical Seal Faces:	- Silicon carbide/ Silicon carb.
➤ Priming Chamber:	- Gray Iron No. 30
➤ Pump Shaft:	- Alloy steel No. 4140
➤ O-rings:	- Buna-N
➤ Impeller:	- Ductile iron No. 65-45-12
➤ Check Valve Body:	- Gray Iron No. 30
➤ Check Valve Flapper:	- Buna-N Flapper

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 4045D
➤ Max. Continuous BHP :	- 72 @ 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:	- 61 gallons of No. 2 diesel
➤ Fuel Consumption:	- 2.1 gal/hr @ 2100 rpm
➤ Run Time:	- 29 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
- ⁽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.

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