



PRODUCT DATA SHEET

November, 2002

6" PA6C60 GORMAN-RUPP PUMP

GENERAL INFORMATION

The compressor/venturi priming system uses a compressor to blow compressed air through a jet into a tapered tube to create a vacuum on the suction. This pump can take suction from a side-entry flange or a front-entry flange.

PERFORMANCE DATA

➤ Minimum Speed:	- 1400 RPM
➤ Maximum Speed:	- 1900 RPM, or... 2000 RPM (turbo model)
➤ Minimum Shutoff Head:	- 95 feet (41 psi) ⁽¹⁾ @ 1500 RPM, or... 125 feet (54 psi) ⁽¹⁾ @ 1500 RPM (turbo model)
➤ Maximum Shutoff Head:	- 153 feet (66 psi) ⁽¹⁾ @ 1900 RPM, or... 195 feet (84 psi) ⁽¹⁾ @ 2000 RPM (turbo model)
➤ Maximum Suction Lift:	- 25 feet ⁽⁶⁾ @600 gpm, 135', 1900 RPM
➤ Minimum Flow:	- 200 gpm @ 1900 RPM, or... 500 gpm @ 2000 RPM (turbo model)
➤ Maximum Flow:	- 2300 gpm @ 1900 RPM, or... 2600 gpm @ 2000 RPM (turbo model)
➤ Maximum Casing Press:	- 100 psi (127 psi – turbo model)
➤ Maximum Temperature:	- 160°F
➤ Maximum Solids Size:	- 3" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 11", open, two vanes, or... 11.77" (turbo model)
➤ Bearing Lubrication:	- SAE No. 30 oil
➤ Vacuum System:	- Holset 850 compressor, 13 cfm @ 1800 RPM
➤ Mech. Seal Lubrication:	- SAE No. 30 oil

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- 6" flange (8" on turbo model)
➤ Discharge Size:	- 6" flange (both models)
➤ Total Weight:	- 3650 lbs. ⁽²⁾ (3800 lbs turbo)
➤ Overall Height:	- 7'-6"
➤ Overall Width:	- 6'-0"
➤ Overall Length:	- 11'-6" (trailer length)

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- Ductile Iron No. 65-45-12
➤ Shaft Sleeve:	- 17-4 PH stainless steel
➤ Wearplate:	- Ductile iron No. 80-60-03
➤ Mechanical Seal Faces:	- Silicon carbide/ Silicon carb.
➤ Priming Chamber:	- Gray Iron No. 30
➤ Flapper Valve:	- Buna-N Flapper
➤ Pump Shaft:	- 17-4 PH stainless steel
➤ Mech. Seal O-rings:	- Viton
➤ Impeller:	- Ductile iron No. 65-45-12
➤ Check Valve Body:	- Gray Iron No. 30
➤ Flanges:	- Gray Iron No. 30

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 4045D, or... John Deere 4045T (turbo model)
➤ Max. Continuous BHP:	- 85 @ 2500 RPM ⁽⁵⁾ , or... 115 @ 2500 RPM ⁽⁵⁾ , (turbo model)
➤ Crankcase Oil:	- SAE 10W40 ⁽³⁾
➤ Oil Press @ 800 RPM:	- 15 psi min.
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Fuel Capacity/Type:	- 88 gallons of No. 2 diesel
➤ Fuel Consumption:	- 3.67 gal/hr @ 1900 rpm, or... 4.8 gal/hr @ 2000 rpm (turbo)
➤ Run Time:	- 24 hours ⁽⁴⁾ @ 1900 rpm, or... 18 hours ⁽⁴⁾ @ 2000 rpm (turbo)
➤ Coolant:	- 16.5 qts 50/50 wtr/antifreeze
➤ Number of Cyinders:	- Four
➤ Bore x Stroke:	- 4.19"x5.00"

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity
- ⁽²⁾ Includes weight of trailer, pump and engine
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ Run time increases with reduced speed.
- ⁽⁵⁾ **WARNING** – this is the rated speed f or the ENGINE ONLY. The rated speed of the pump is less. See data sheet for max pump RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed. See performance curve.