



PRODUCT DATA SHEET

November, 2002

4" PA4C22 GORMAN-RUPP PUMP
(Stainless Steel)

GENERAL INFORMATION

The Redi-Prime diaphragm priming system uses an air pump to draw air out of the priming chamber by creating a vacuum. The air (diaphragm) pump is belt driven off the pump shaft. The wetted parts of the pump are constructed of stainless steel.

PERFORMANCE DATA

➤ Minimum Speed:	- 1200 rpm
➤ Maximum Speed:	- 2200 rpm
➤ Minimum Shutoff Head:	- 106 feet (46 psi) ⁽¹⁾ @ 1200 rpm
➤ Maximum Shutoff Head:	- 360 feet (155 psi) ⁽¹⁾ @ 2200 rpm
➤ Maximum Suction Lift:	- 25 feet ⁽⁶⁾ (@ 700 gpm)
➤ Minimum Flow:	- 350 gpm @ 2200 RPM
➤ Maximum Flow:	- 1600 gpm @ 2200 RPM
➤ Maximum Casing Press:	- 211 psi
➤ Maximum Temperature:	- 160°F
➤ Maximum Solids Size:	- 3" spherical

PUMP SPECIFICATIONS

➤ Impeller:	- 13-1/2", six vanes
➤ Wear Ring Clearance:	- 0.010" – 0.020" (front)
➤ Bearing Lubrication:	- SAE No. 30 oil
➤ Vacuum System:	- 50 cfm diaphragm pump and float chamber
➤ Mech. Seal Lubrication:	- SAE No. 30 oil
➤ Dead Head Pressure:	-
@ 1200 RPM:	40 psi
@ 1600 RPM:	82 psi
@ 2000 RPM:	128 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- 6" flanged
➤ Discharge Size:	- 4" flanged
➤ Total Weight:	- 4,195 lbs. ⁽²⁾
➤ Overall Height:	- 7'-11" (top of lifting bail)
➤ Overall Width:	- 6'-0"
➤ Overall Length:	- 11'-5" (trailer length)

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- 316 Stainless Steel
➤ Shaft Sleeve:	- 17-4 PH stainless steel
➤ Wear Rings:	- Stainless steel
➤ Mechanical Seal Faces:	- Tungsten Carb./ Silicon carb.
➤ Priming Chamber:	- Stainless steel
➤ Air Pump Hose:	- EPDM
➤ Pump Shaft:	- Stainless steel
➤ O-rings:	- Buna-N and viton
➤ Impeller:	- Stainless steel
➤ Check Valve Body	- Stainless steel
➤ Check Valve Flapper:	- Buna-N

ENGINE SPECIFICATIONS

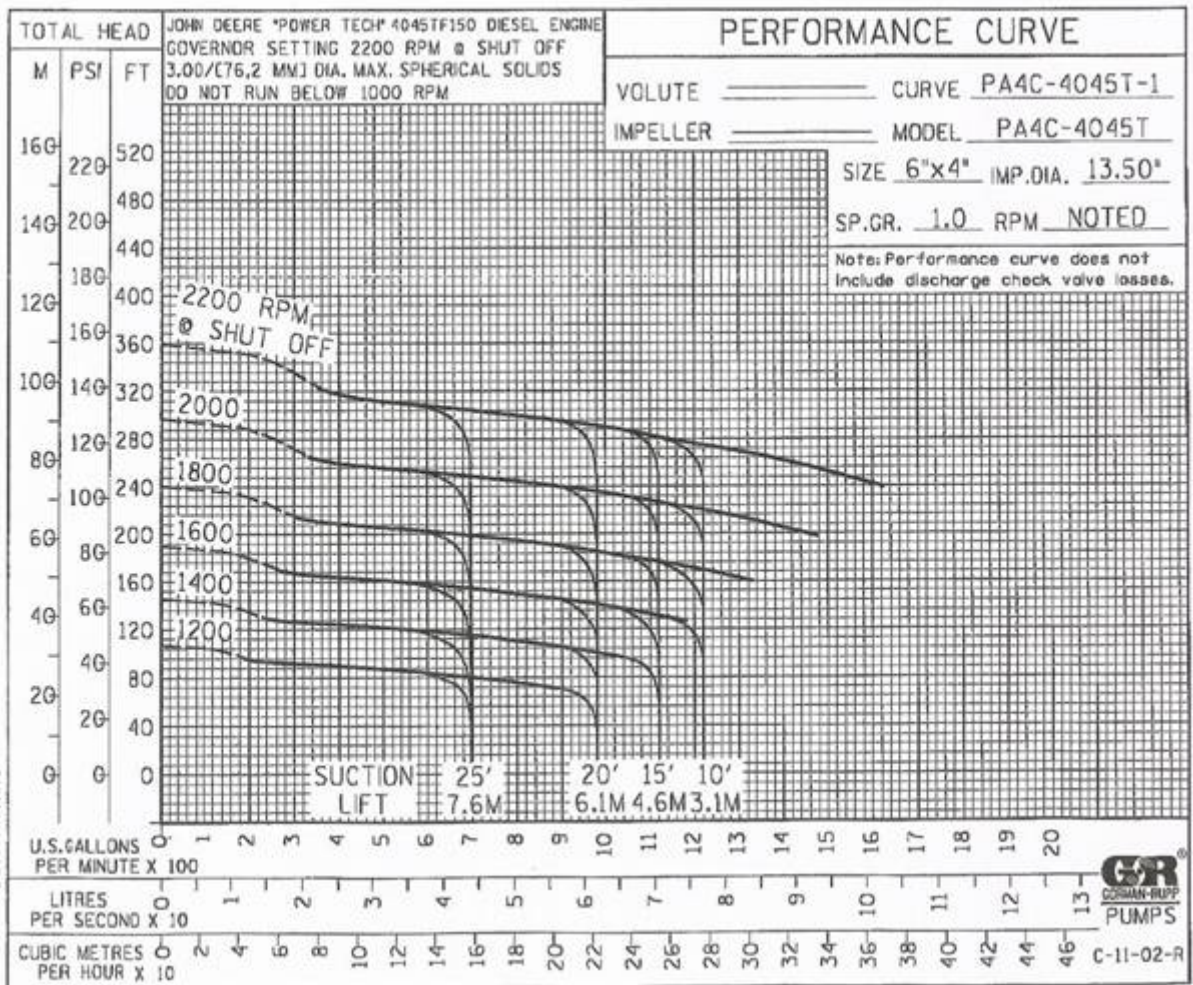
➤ Engine Make/Model:	- John Deere 4045T
➤ Max. Continuous BHP:	- 103 @ 2500 RPM ⁽⁵⁾
➤ Crankcase Oil:	- 14 quarts of SAE 10W40 ⁽³⁾
➤ Oil Press @ 800 RPM:	- 15 psi min.
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Grease Lubrication:	- No. 2 ⁽³⁾
➤ Fuel Capacity/Type:	- 88 gallons of No. 2 diesel
➤ Fuel Consumption:	- 5.5 gal/hr @ 2200 rpm
➤ Run Time:	- 16 hours @ 2200 RPM ⁽⁴⁾ 26 hours @ 1800 RPM
➤ Coolant:	- 16.5 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, engine and empty fuel tank.
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ Run time varies with engine operating speed.
- ⁽⁵⁾ **WARNING** – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is only 2200 RPM.
- ⁽⁶⁾ Decreases with increasing flow rate.

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GORMAN-RUPP MODEL PA4C22-4045T



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