

### PRODUCT DATA SHEET

January, 2007

### PA4D60-4045H 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

» Flow (min/max):	- 280 gpm / 1400 gpm
» Minimum Shutoff Head:	- 180 feet [78 psi] <sup>(1)</sup> @ 1500 rpm
» Maximum Shutoff Head:	- 388 feet [168 psi] <sup>(1)</sup> @ 2200 rpm
» Speed (min/max):	- 1500 rpm / 2200 rpm
» Maximum Suction Lift:	- 25 feet <sup>(6)</sup>
» Maximum Casing Press:	- 274 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 0.62" spherical diameter

#### PUMP SPECIFICATIONS

» Impeller:	- 15.22" diameter
» Bearing Lubrication:	- Grease
» Vacuum System:	- Gear driven air compressor integrally mounted to the engine
» Mech. Seal Lubrication:	- SAE No. 30 oil
» Dead Head Pressure: @ 1900 RPM:	- 125 psi

#### PHYSICAL SPECIFICATIONS

» Suction Size:	- 6" flange
» Discharge Size:	- 4" flange
» Total Weight:	- 4200 lbs. <sup>(2)</sup>
» Overall Height:	- 8'-9" (to top of lifting bail)
» Overall Width:	- 6'-0"
» Overall Length:	- 11'-5"

#### MATERIAL SPECIFICATIONS

» Pump Casing:	- Gray Iron No. 30
» Shaft Sleeve:	- Chrome plated 416 s.s.
» Wear Ring:	- Volute: Bronze No. C83600 Impeller: Gray Iron No. 30
» Mechanical Seal Faces:	- Silicon carb./ Tungsten carb.
» Pump Shaft:	- Stress proof stainless steel
» O-rings:	- Buna-N and viton
» Impeller:	- Gray Iron No. 30
» Check Valve Body:	- Gray Iron No. 30
» Check Valve Flapper:	- Buna-N
» Flanges:	- Gray Iron No. 30

#### ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 4045H (Tier II)
» Max. Continuous BHP:	- 113 @ 2400 RPM <sup>(5)</sup>
» Crankcase Oil:	- SAE 10W40 <sup>(3)</sup>
» Safety Shutdowns:	- High water temperature & low oil pressure
» Fuel Capacity/Type:	- 88 gallons of No. 2 diesel
» Fuel Consumption:	- 6.2 gal/hr @ 2200 RPM
» Run Time:	- 19 hours @ 1800 RPM <sup>(4)</sup>
» Coolant:	- 50/50 water/antifreeze
» Number of Cylinders:	- Four

#### 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 is dependent on engine 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.



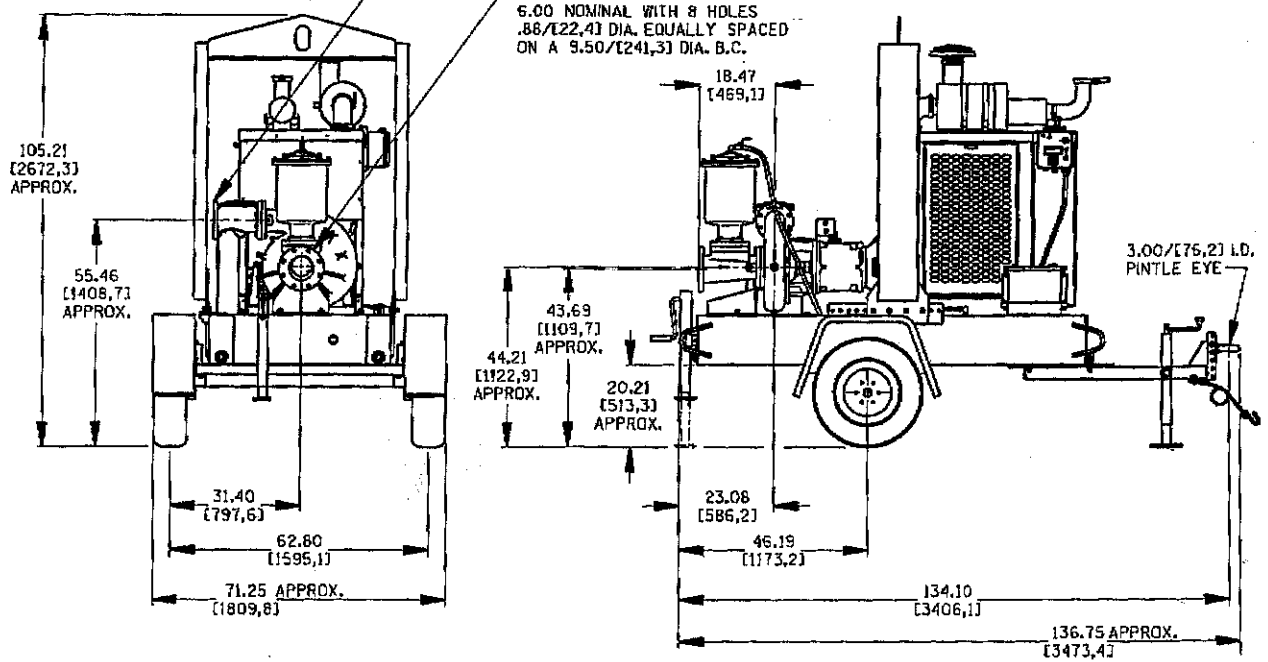
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**B 17838**

DISCHARGE:  
4.00 NOMINAL WITH 8 HOLES  
.75/(19,0) DIA. EQUALLY SPACED  
ON A 7.50/(190,5) DIA. B.C.

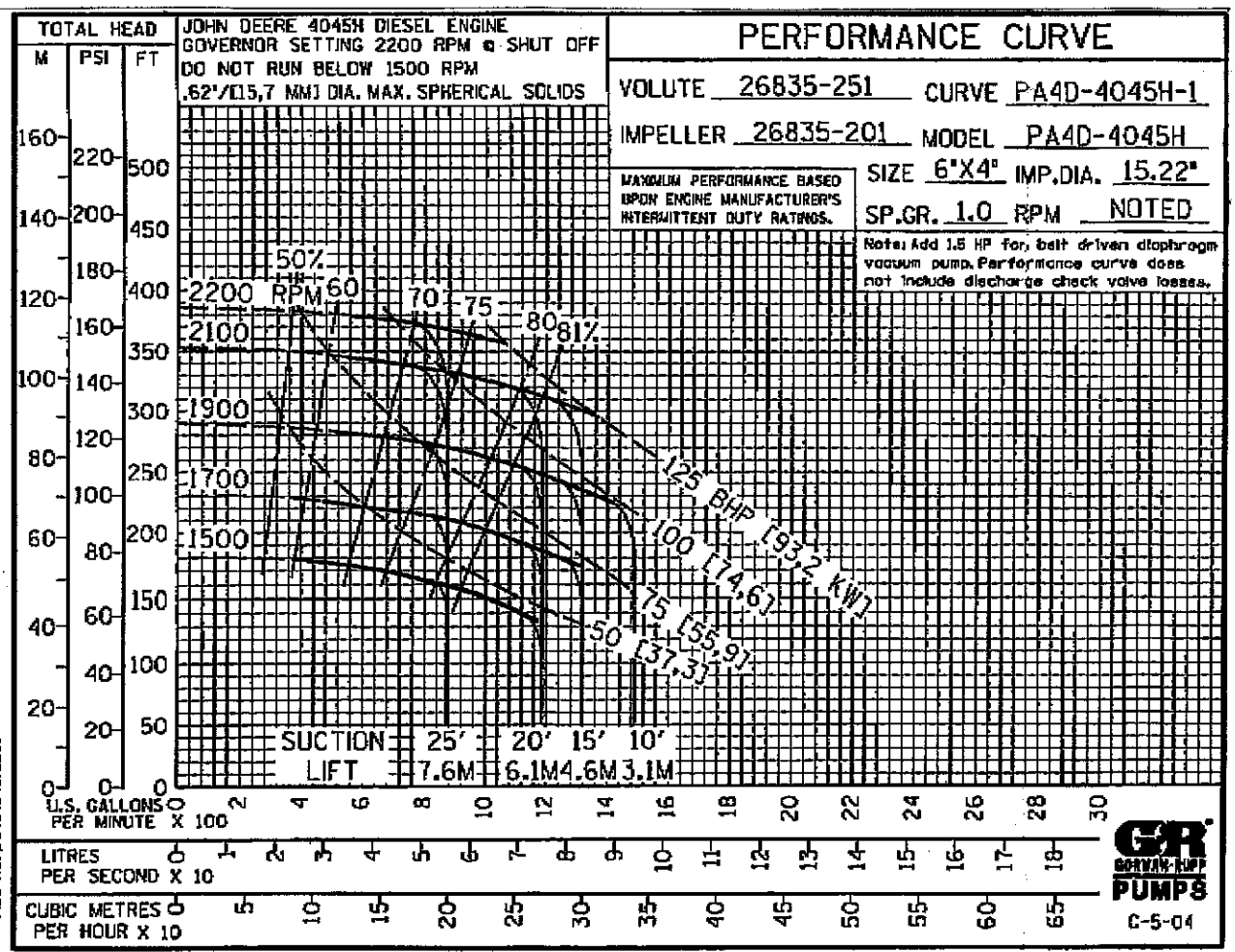
SUCTION:  
6.00 NOMINAL WITH 8 HOLES  
.88/(22,4) DIA. EQUALLY SPACED  
ON A 9.50/(241,3) DIA. B.C.



DIMENSIONS:  
INCHES  
[MILLIMETERS]

SHOWN WITH OPTIONAL WHEEL KIT

	<b>THE GORMAN-RUPP CO.</b> MANFIELD, OHIO ST. THOMAS, ONTARIO	DRAWN BY: SS DATE: 3-12-05	SCALE: 3/4"	MODEL: PA4D-4045H / S1 OUTLINE NUMBER: 17838
	REVISION:			



FILE NO. pa4d4045h.s01