

PRODUCT DATA SHEET

April, 2011

3" PA3A60-4045T HIGH PRESSURE 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

» Flow (min/max):	- 300 gpm / 950 gpm
» Minimum Shutoff Head:	- 212 feet (92 psi) ⁽¹⁾ @ 1600 rpm
» Maximum Shutoff Head:	- 480 feet (208 psi) ⁽¹⁾ @ 2400 rpm
» Speed (min/max):	- 1600 rpm / 2400 rpm
» Maximum Suction Lift:	- 28 feet ⁽⁶⁾ (@500 gpm)
» 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.
» 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

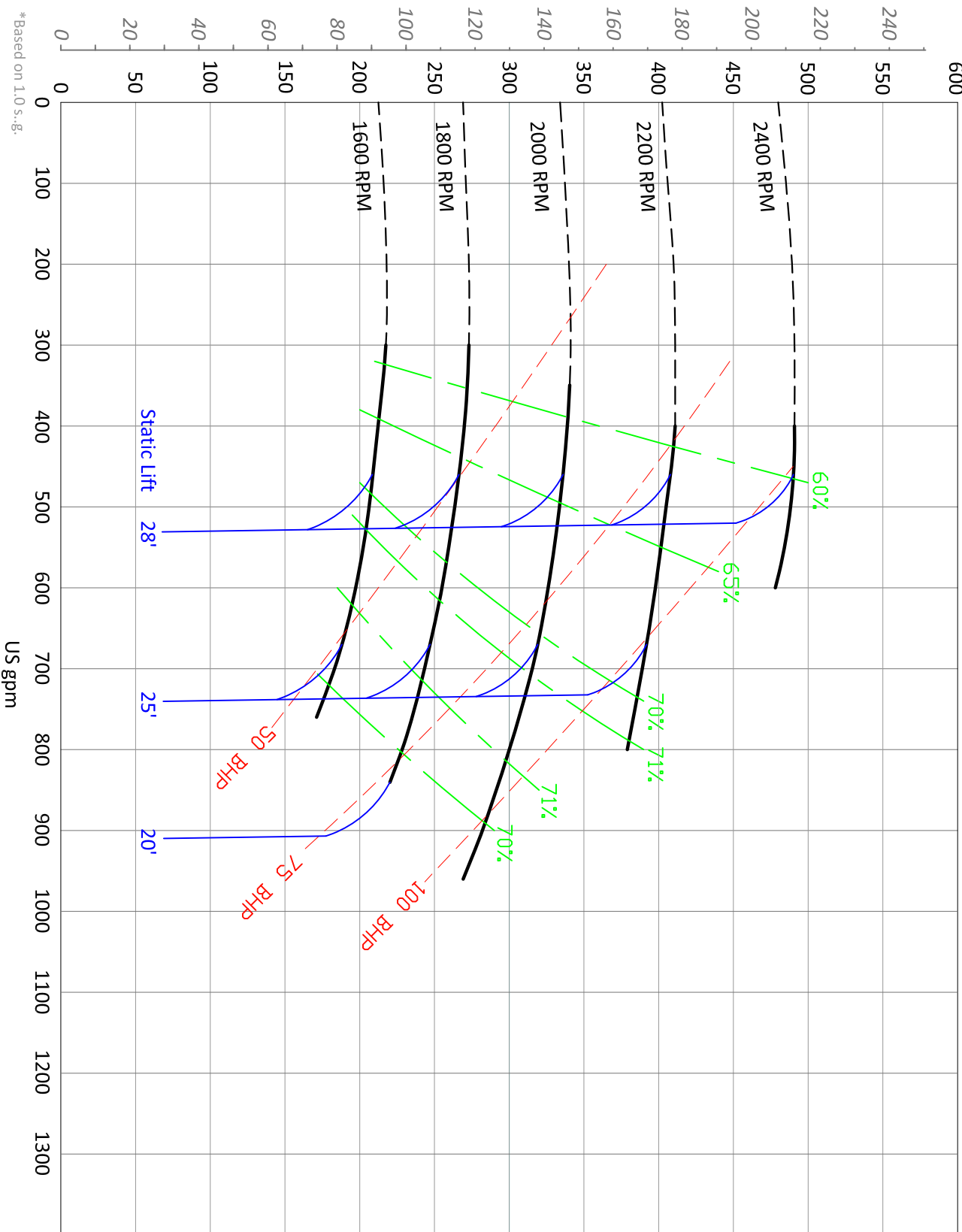
» Engine Make/Model:	- John Deere 4045T
» Max. Continuous BHP:	- 115 @ 2500 RPM ⁽⁵⁾
» Crankcase Oil:	- 9 quarts of SAE 10W40 ⁽³⁾
» Safety Shutdowns:	- High water temperature & low oil pressure
» Fuel Capacity/Type:	- 88 gallons of No. 2 diesel
» Fuel Consumption:	- 2.1 gal/hr @ 2100 rpm
» Run Time:	- 24 hours + ⁽⁴⁾
» Coolant:	- 4 gal. 50/50 water/antifreeze
» Number of Cylinders:	- Four
» 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.

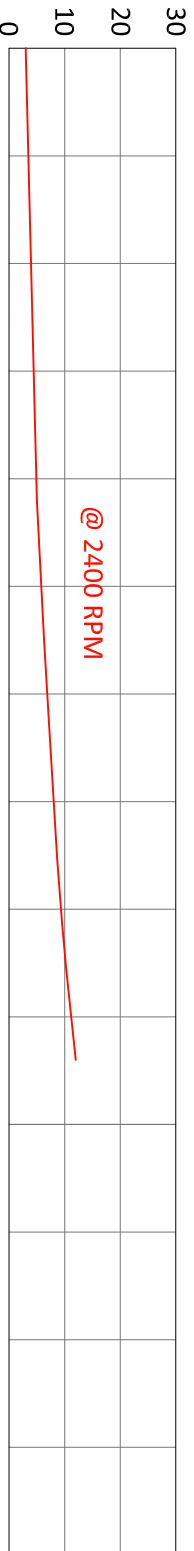
HEAD
PSI*
ft

PA3A60-4045T



*Based on 1.0 s.g.

NPSHr - ft



Pump

MAKE	Gorman-Rupp
MODEL	PA3A60-4045T
CURVE NO.	PA3A-4045T-1
SUCTION	6-inch
DISCHARGE	3-inch
MAX SOLID	1/2-inch
IMP. DIA.	15.22 inches
SPEED	Various
MIN SPEED	1600 RPM

Engine

MAKE	John Deere
MODEL	4045T
RATING	115 hp @ 2500

