

PRODUCT DATA SHEET

June, 2009

4" PA4C60-4045T 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):	- 350 gpm / 1600 gpm
» Minimum Shutoff Head:	- 106 feet (46 psi) ⁽¹⁾ @ 1200 rpm
» Maximum Shutoff Head:	- 360 feet (155 psi) ⁽¹⁾ @ 2200 rpm
» Speed (min/max):	- 1200 rpm / 2200 rpm
» Maximum Suction Lift:	- 25 feet ⁽⁶⁾ (@ 700 gpm)
» Maximum Casing Press:	- 211 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 3" spherical

PUMP SPECIFICATIONS

» Impeller:	- 13-1/2", six vanes
» Bearing Lubrication:	- SAE No. 30 oil
» Vacuum System:	- Piston compressor, 20 cfm, with venturi eductor
» Mech. Seal Lubrication:	- SAE No. 30 oil
» Dead Head Pressure:	-
@ 1600 RPM:	40 psi
@ 1800 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:	- Gray Iron No. 30
» Shaft Sleeve:	- 17-4 PH stainless steel
» Wear Rings:	- Impeller – Gray Iron No. 30 Suction Head – Bronze C83600
» Mechanical Seal Faces:	- Silicon carbide / Tungsten carbide
» 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

ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 4045T
» Max. Continuous BHP:	- 103 @ 2500 RPM ⁽⁵⁾
» Crankcase Oil:	- 14 quarts of SAE 10W40 ⁽³⁾
» Safety Shutdowns:	- High water temperature & low oil pressure
» 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
» 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, 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.

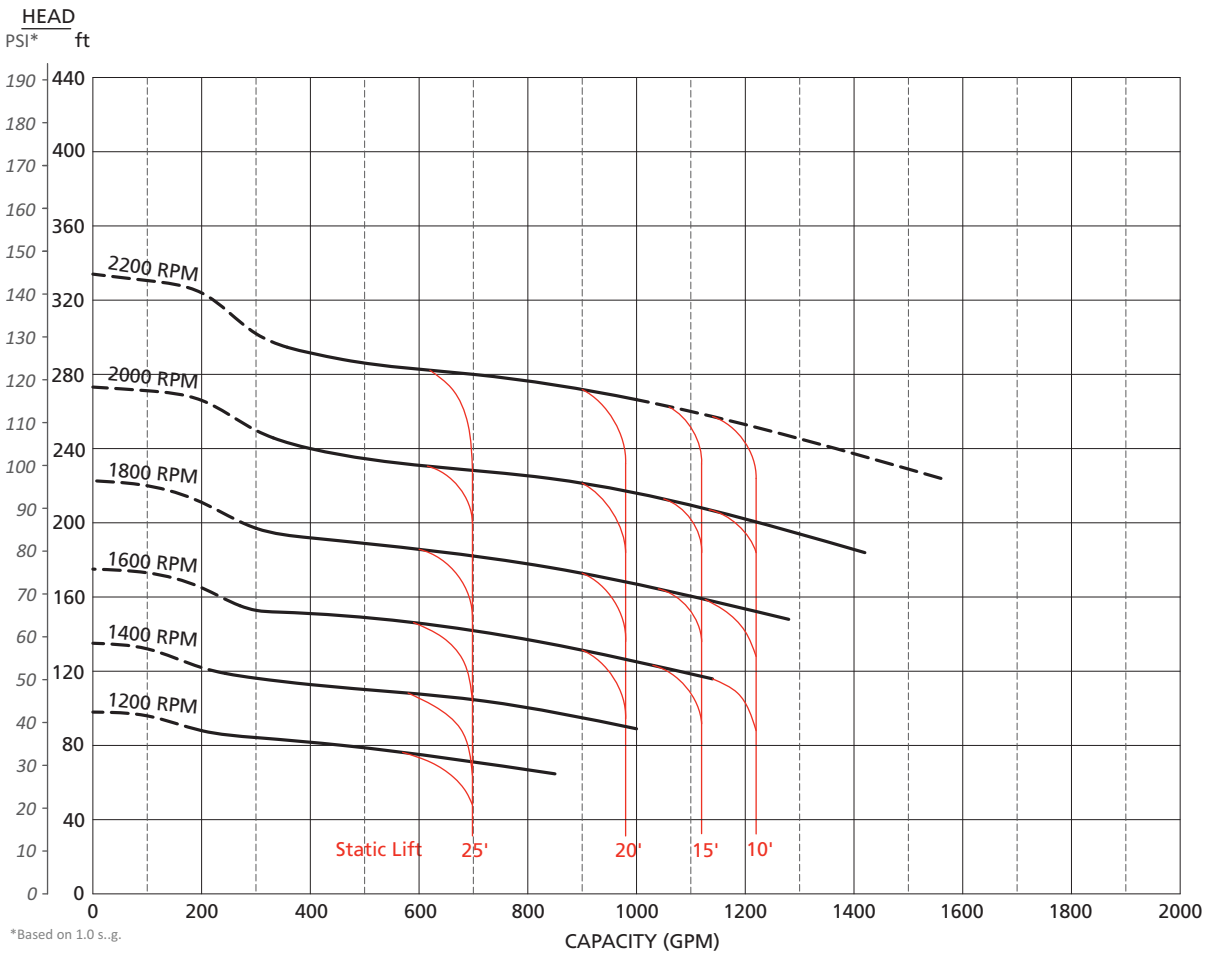
HIGH-PRESSURE PUMP CURVE

June, 2009

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HIGH-PRESSURE PUMP**

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*Based on 1.0 s.g.

PUMP	
MODEL	PA4C60-4045T
CURVENO.	PA4C-4045T-2
SUCTION	6-inch
DISCHARGE	4-inch
MAXSOLID	3 inches
IMP. DIA.	13.00 inches
SPEED	Various
MIN SPEED	1000 RPM

ENGINE	
MAKE	John Deere
MODEL	4045T
RATING	103 hp @ 2500

