

PRODUCT DATA SHEET

June, 2009

6" PA6A60-4045D PRIME-ASSISTED 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):	- 200 gpm / 1850 gpm
» Minimum Shutoff Head:	- 96 feet (42 psi) ⁽¹⁾ @ 1600 rpm
» Maximum Shutoff Head:	- 152 feet (66 psi) ⁽¹⁾ @ 2000 rpm
» Speed (min/max):	- 1600 rpm / 2000 rpm
» Maximum Suction Lift:	- 25 feet ⁽⁶⁾
» Maximum Casing Press:	- 90 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 3" spherical diameter

PUMP SPECIFICATIONS

» Impeller:	- 10-3/4"; two vanes
» Bearing Lubrication:	- SAE No. 30 oil
» Vacuum System:	- Piston compressor, 20 cfm, with venturi eductor
» Mechanical Seal Lubrication:	- Three qts. SAE No. 30 oil

PHYSICAL SPECIFICATIONS

» Suction Size:	- Six-inch
» Discharge Size:	- Six-inch
» Total Weight:	- Approx. 3500 lbs. ⁽²⁾
» Overall Height:	- 6'-6"
» Overall Width:	- 6'-0"
» Overall Length:	- 11'-3"

MATERIAL SPECIFICATIONS

» Pump Casing:	- Cast iron
» Shaft Sleeve:	- Alloy steel 17-4 PH
» Wearplates:	- Carbon steel
» Mechanical Seal Faces:	- Silicon carbide/ Silicon carbide
» Flapper Valve:	- Rubber / Bronze
» Pump Shaft:	- Alloy steel 17-4 PH
» Elastomers:	- Nitrile (Buna-N)
» Impeller:	- Ductile iron
» Flapper Body:	- Cast Iron
» Peel Valve:	- Silicon rubber

ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 4045D
» Crankcase Oil:	- 14 quarts of SAE 10W40 ⁽³⁾
» Safety Shutdowns:	- High water temperature & low oil pressure
» Fuel Capacity/Type:	- 65 gallons of No. 2 diesel
» Fuel Consumption:	- 2.67 gal/hr @ 2000 rpm
» Run Time:	- 24 hours + ⁽⁴⁾
» Coolant:	- 6 gal. 50/50 water/antifreeze
» Slow Idle / Rated Speed:	- 1400 RPM / 2400 RPM ⁽⁵⁾
» Noise Level @ BEP:	- 85 dbA
» 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
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ At 2200 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 2200 RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed.

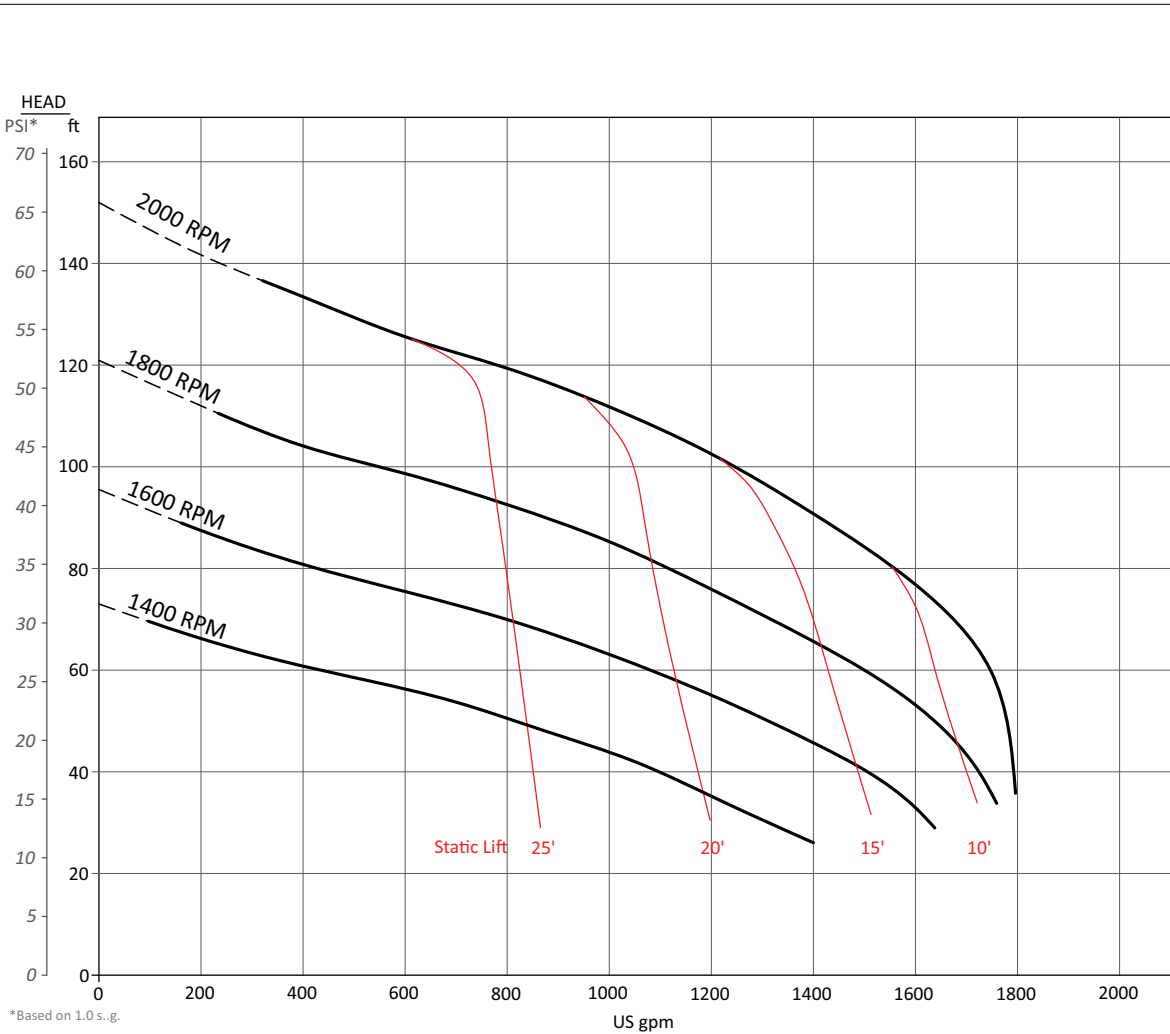
PRIME-ASSISTED PUMP CURVE

June, 2009

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PRIME-ASSISTED PUMP**

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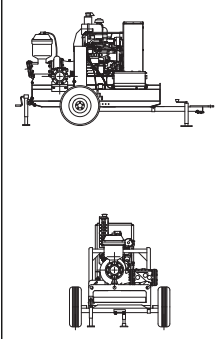


PUMP

MODEL	PA6A60-4045D
CURVE NO.	PA6A-4045D-1
SUCTION	6-inch
DISCHARGE	6-inch
MAX SOLID	3-inch
IMP. DIA.	10.75 inches
SPEED	Various
MIN SPEED	1400 RPM

ENGINE

MAKE	John Deere
MODEL	4045D
RATING	85 hp @ 2500



*Based on 1.0 s.g.