

PRODUCT DATA SHEET

August, 2009

6" PA6C60-4045D PRIME-ASSISTED PUMP

GENERAL INFORMATION

The compressor/venturi priming system uses a compressor to blow compressed air through a jet into a tapered tube to create a vacuum on the suction. This pump can take suction from a side-entry flange or a front-entry flange.

PERFORMANCE DATA

» Flow (min/max):	- 200 gpm / 2300 gpm
» Minimum Shutoff Head:	- 95 feet (41 psi) ⁽¹⁾ @ 1500 RPM
» Maximum Shutoff Head:	- 153 feet (66 psi) ⁽¹⁾ @ 1900 RPM
» Speed (min/max):	- 1400 rpm / 1900 RPM
» Maximum Suction Lift:	- 25 feet ⁽⁶⁾
» Maximum Casing Press:	- 100 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 3" spherical diameter

PUMP SPECIFICATIONS

» Impeller:	- 11"; open, two vanes
» Bearing Lubrication:	- SAE No. 30 oil
» Vacuum System:	- Holset 850 compressor, 13 cfm @ 1800 RPM
» Mechanical Seal Lubrication:	- SAE No. 30 oil

PHYSICAL SPECIFICATIONS

» Suction Size:	- 6" flange
» Discharge Size:	- 6" flange
» Weight:	- 3650 lbs. ⁽²⁾ (without fuel) 4300 lbs. ⁽²⁾ (with full fuel load)
» Overall Height:	- 7'-6"
» Overall Width:	- 6'-0"
» Overall Length:	- 11'-6" (trailer length)
» Max Rated Trailer Speed:	- 55 MPH

MATERIAL SPECIFICATIONS

» Pump Casing:	- Ductile Iron No. 65-45-12
» Shaft Sleeve:	- 17-4 PH stainless steel
» Wearplate:	- Ductile iron No. 80-60-03
» Mechanical Seal Faces:	- Silicon carbide/ Silicon carbide
» Flapper Valve:	- Buna-N Flapper
» Pump Shaft:	- 17-4 PH stainless steel
» Mech. Seal O-rings:	- Viton
» Impeller:	- Ductile iron No. 65-45-12
» Check Valve Body:	- Gray Iron No. 30

ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 4045D
» Max. Continuous BHP:	- 85 @ 2500 RPM ⁽⁵⁾
» Crankcase Oil:	- SAE 10W40 ⁽³⁾
» Safety Shutdowns:	- High water temperature & low oil pressure
» Fuel Capacity/Type:	- 88 gallons of No. 2 diesel
» Fuel Consumption:	- 3.67 gal/hr @ 1900 rpm
» Run Time:	- 24 hours ⁽⁴⁾ @ 1900 rpm
» Coolant:	- 16.5 qts 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 increases with reduced speed.
- ⁽⁵⁾ **WARNING** – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is less. See the Performance Data Section of this data sheet for max pump RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed. See performance curve.

PRIME-ASSISTED PUMP CURVE

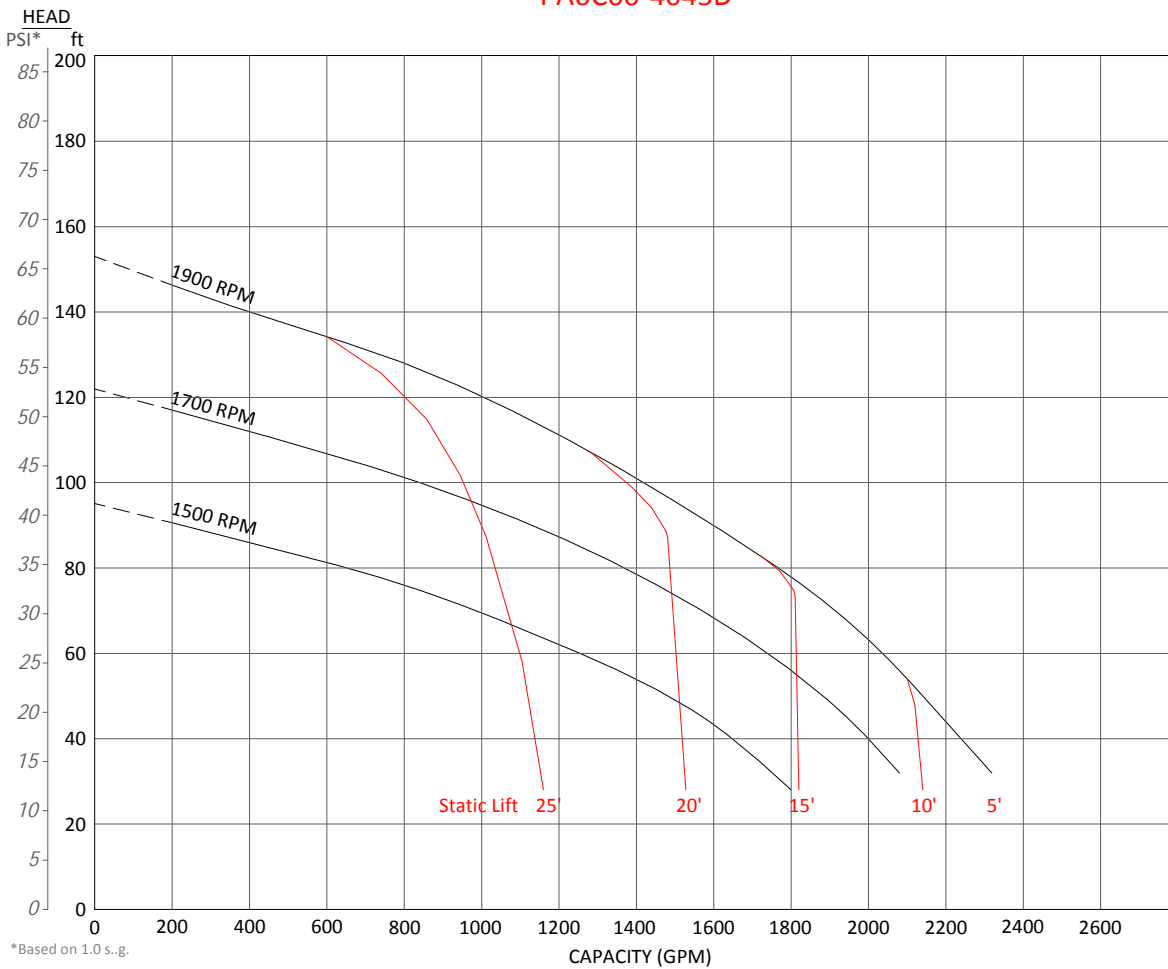
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PA6C60-4045D



Pump	
MODEL	PA6C60-4045D
CURVE NO.	PA6C-4045D-1
SUCTION	6-inch
DISCHARGE	6-inch
MAX SOLID	3-inch
SPEED	Various
MIN SPEED	1400 RPM
Engine	
MAKE	John Deere
MODEL	4045D
RATING	85 hp @ 2500

