

PRODUCT DATA SHEET

June, 2009

6" PA6E60-6068H HIGH-PRESSURE 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):	- 850 gpm / 4500 gpm
» Minimum Shutoff Head:	- 130 feet (56 psi) ⁽¹⁾ @ 1200 rpm
» Maximum Shutoff Head:	- 290 feet (125 psi) ⁽¹⁾ @ 1800 rpm
» Speed (min/max):	- 1200 rpm / 1800 rpm
» Maximum Suction Lift:	- 25 feet ⁽⁶⁾ (@ 2750 gpm)
» Maximum Casing Press:	- 254 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 3.38" spherical diameter

PUMP SPECIFICATIONS

» Impeller:	- 16.13" diameter; 6 vanes
» Bearing Lubrication:	- Grease
» Vacuum System:	- Gear driven air compressor integrally mounted to the engine
» Mech. Seal Lubrication:	- SAE No. 30 oil
» Dead Head Pressure: @ 1600 RPM:	- 99 psi

PHYSICAL SPECIFICATIONS

» Suction Size:	- 10" FNPT female flange
» Discharge Size:	- 6" FNPT female flange
» Total Weight:	- 5495 lbs. ⁽²⁾
» Overall Height:	- 7'-3" (top of exhaust stack) 7'-1" (to top of lifting bail)
» Overall Width:	- 5'-2" (ck. va. flg face to opp skid) 4'-2" (skid side to skid side)
» Overall Length:	- 10'-4"

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 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
» Flanges:	- Gray Iron No. 30

ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 6068H Turbo
» Max. Continuous BHP:	- 203 @ 2400 RPM ⁽⁵⁾
» Crankcase Oil:	- SAE 10W40 ⁽³⁾
» Safety Shutdowns:	- High water temperature & low oil pressure
» Fuel Capacity/Type:	- 130 gallons of No. 2 diesel
» Fuel Consumption:	- 9.85 gal/hr @ 1800 RPM ⁽⁴⁾
» Run Time:	- 13.2 hours @ 1800 RPM ⁽⁴⁾
» Coolant:	- 50/50 water/antifreeze
» Number of Cylinders:	- Six

Notes:

⁽¹⁾ Based on 1.0 specific gravity

⁽²⁾ Includes weight of skid, pump and engine

⁽³⁾ Midrange compromise. See John Deere manual.

⁽⁴⁾ Estimated

⁽⁵⁾ **WARNING** – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is only 1800 RPM.

⁽⁶⁾ Depends on flowrate and pump speed.

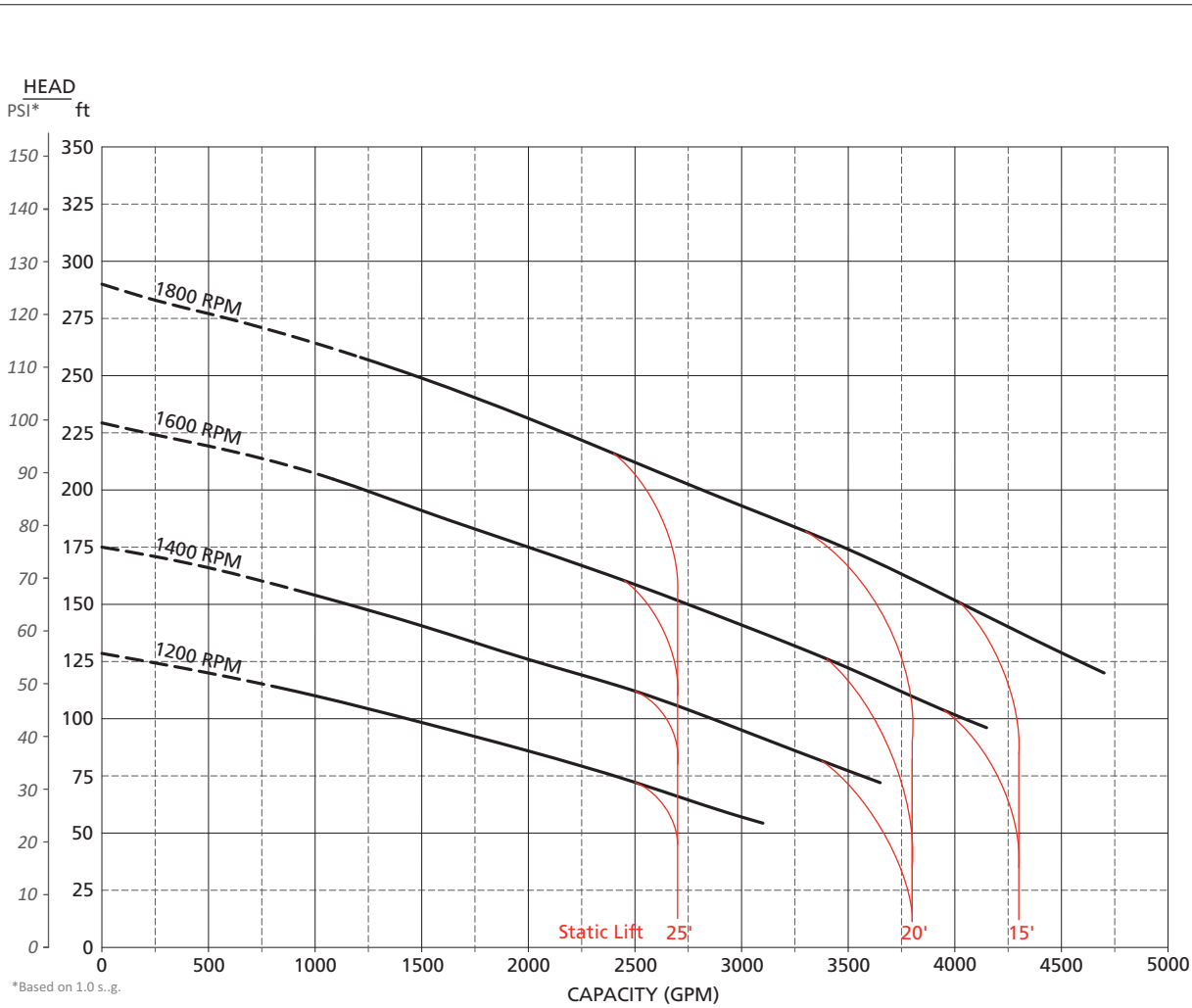
HIGH-PRESSURE PUMP CURVE

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PUMP

MODEL	PA6E60-6068H
CURVENO.	PA6E-6068H-1
SUCTION	10-inch
DISCHARGE	6-inch
MAXSOLID	3.38 inches
IMP. DIA.	16.13 inches
SPEED	Various
MIN SPEED	1200 RPM

ENGINE

MAKE	John Deere
MODEL	6068H
RATING	203 hp @ 2400

