

### PRODUCT DATA SHEET

June, 2009

### 12" PA12A60-6068T PRIME-ASSISTED 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):	1100 gpm / 6000 gpm
» Minimum Shutoff Head:	44 feet (19 psi) <sup>(1)</sup> @ 1400 RPM
» Maximum Shutoff Head:	109 feet (47 psi) <sup>(1)</sup> @ 2200 RPM
» Minimum Speed:	1400 RPM engine (770 RPM pump speed)
» Maximum Speed:	2200 RPM engine (1200 rpm pump speed)
» Maximum Suction Lift:	25 feet <sup>(6)</sup> (@2000 gpm, 2200 RPM)
» Maximum Casing Press:	71 psi
» Maximum Temperature:	160°F
» Maximum Solids Size:	3" spherical diameter

#### PUMP SPECIFICATIONS

» Impeller:	- 15-½", three vanes
» Bearing Lubrication:	- SAE No. 30 oil
» Vacuum System:	- Quincy 270P piston compressor, belt driven, 35 cfm
» Speed Reduction:	- Pulley/Belt, 1.82:1 ratio
» Mechanical Seal Lubrication:	- SAE No. 30 oil

#### PHYSICAL SPECIFICATIONS

» Suction Size:	12" flange
» Discharge Size:	12" flange
» Total Weight:	4510 lbs. <sup>(2)</sup> 5793 lbs. <sup>(5)</sup>
» Overall Height:	7'-2"
» Overall Width:	5'-1" (skid to skid + flange extension) 6'-5" (skid to far-side filter element)
» Overall Length:	10'-0"

#### MATERIAL SPECIFICATIONS

» Pump Casing:	Gray Iron No. 30
» Shaft Sleeve:	304 stainless steel
» Wear Rings:	Impeller – D.I. No. 80-60-03 Suct. Head – Bronze C83600
» Mechanical Seal Faces:	Silicon carbide/ Silicon carb.
» Pump Shaft:	17-4 PH stainless steel
» O-rings:	Viton & Buna-N
» Impeller:	Ductile iron No. 60-40-18
» Check Valve Body:	Gray Iron No. 30
» Check Valve Flapper:	Buna-N

#### ENGINE SPECIFICATIONS

» Engine Make/Model:	John Deere 6068T
» Aspiration:	Turbocharged
» Max. Continuous BHP:	170 @ 2800 RPM <sup>(7)</sup>
» Crankcase Oil:	20 quarts of SAE 10W40 <sup>(3)</sup>
» Safety Shutdowns:	High water temperature & low oil pressure
» Fuel Capacity/Type:	171 gallons of No. 2 diesel
» Fuel Consumption:	7.1 gal/hr @ 2200 rpm
» Run Time:	24 hours <sup>(4)</sup>
» Coolant:	6 gal. 50/50 water/antifreeze
» Number of Cylinders:	Six

#### Notes:

- (1) Based on 1.0 specific gravity
- (2) Includes weight of skid, pump, engine and empty fuel tank.
- (3) Midrange compromise. See John Deere manual.
- (4) At 2200 RPM. Run time increases with reduced speed.
- (5) Includes weight of skid, pump, engine and full fuel tank.
- (6) Varies with flowrate and pump speed.
- (7) This is the rated speed of the engine. Do not exceed 2200 RPM.

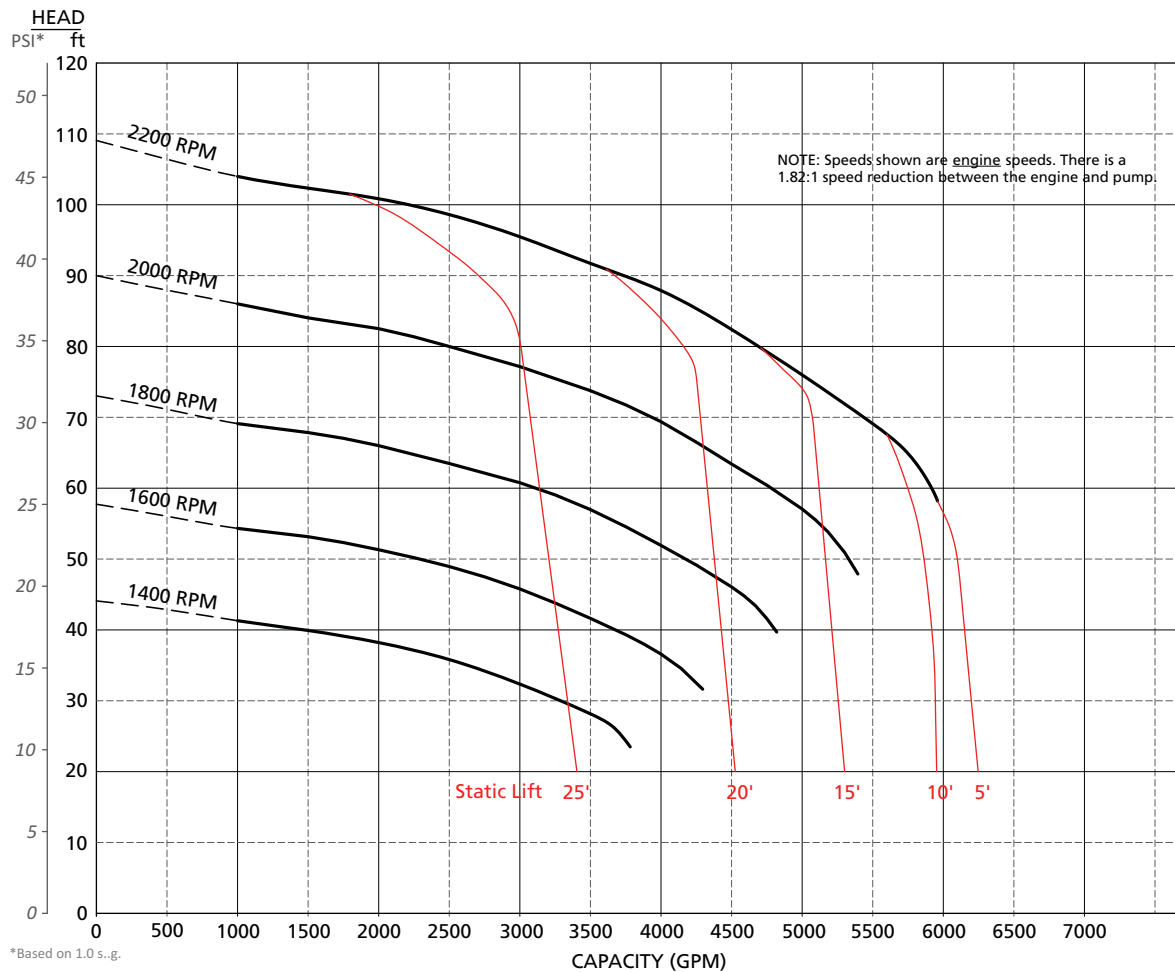
**PRIME-ASSISTED PUMP CURVE**

June, 2009

**12" PA12A60-6068T  
PRIME-ASSISTED PUMP**

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PUMP	
MODEL	PA12A60-6068T
CURVENO.	SP-2725
SUCTION	12-inch
DISCHARGE	12-inch
MAXSOLID	3-inch
IMP. DIA.	15.5 inches
SPEED	Various
MIN SPEED	1400 RPM

ENGINE	
MAKE	John Deere
MODEL	6068T
RATING	170 hp @ 2800

