



PRODUCT DATA SHEET

February, 2001

THOMPSON 6TS PUMP

(Excluding PW16001 – PW16012)

GENERAL INFORMATION

This is a self-priming heavy-duty open trash pump. It must be filled with water (liquid) prior to starting. The vacuum produced as the impeller rotates draws air into the pump from the suction line and mixes with the liquid in the pump. The air is expelled but the liquid recirculates in the pump until all air is evacuated from the suction line. The pump is now primed and operates like a regular centrifugal pump.

PERFORMANCE DATA

➤ Minimum Speed:	-	1000 rpm
➤ Maximum Speed:	-	2200 rpm ⁽⁵⁾
➤ Minimum Shutoff Head:	-	38 feet (16 psi) ⁽¹⁾ @ 1000 rpm
➤ Maximum Shutoff Head:	-	171 feet (74 psi) ⁽¹⁾ @ 2200 rpm
➤ Maximum Suction Lift:	-	25 feet ⁽⁶⁾
➤ Minimum Flow:	-	150 gpm
➤ Maximum Flow:	-	1,700 gpm
➤ Maximum Suction Press:	-	50 psi
➤ Maximum Casing Press:	-	100 psi
➤ Maximum Temperature:	-	175°F
➤ Maximum Solids Size:	-	3" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	-	11.25" , two vanes, semi-open with full rear shroud and rear equalizing vanes
➤ Wearplate Clearance:	-	0.025" – 0.040" (rear) 0.010" – 0.020" (front)
➤ Bearing Lubrication:	-	No. 2 Grease
➤ Vacuum System:	-	None
➤ Mech. Seal Lubrication:	-	No. 2 grease
➤ Dead Head Pressure:	-	
@ 1600 RPM:	-	41 psi – 42 psi
@ 1800 RPM:	-	52 psi – 54 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	-	Six-inch 125# Male NPT
➤ Discharge Size:	-	Six-inch 125# Male NPT
➤ Total Weight:	-	3,200 lbs. ⁽²⁾ (approx.)
➤ Overall Height:	-	7'-1"
➤ Overall Width:	-	5'-6"
➤ Overall Length:	-	11'-11" (hitch hook to end suction pipe) 11'-4" (hitch hook to rear of trailer)

MATERIAL SPECIFICATIONS

➤ Casing/Volute:	-	Cast iron
➤ Shaft Sleeve:	-	304 stainless steel
➤ Wearplate:	-	Cast Iron, rubber lined
➤ Mechanical Seal Faces:	-	Tung. carb / tung. carb
➤ Suction Valve:	-	Flapper type, two-ply Nitrile nylon reinforced & weighted
➤ Discharge Check Valve:	-	C.I. / Brass seat / Buna-N
➤ Pump Shaft:	-	SAE 4140
➤ Elastomers:	-	Viton
➤ Impeller:	-	Ductile Iron, 65-45-12

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	-	John Deere 4045D-85
➤ Max. Continuous BHP:	-	63 @ 1800 RPM
➤ Crankcase Oil:	-	9 quarts of SAE15W-40 ⁽³⁾
➤ Oil Press @ 850 RPM:	-	15 psi min.
➤ Safety Shutdowns:	-	High coolant temperature & low oil pressure
➤ Grease Lubrication:	-	No. 2 ⁽³⁾
➤ Fuel Capacity/Type:	-	55 gallons of No. 2 diesel
➤ Fuel Consumption:	-	2.29 gal/hr @ 2000 rpm
➤ Run Time:	-	24 hours ⁽⁴⁾
➤ Coolant Quantity/Type:	-	9 qts 50/50 water/antifreeze
➤ Slow Idle Speed:	-	850 RPM
➤ Number of Cyinders:	-	Four
➤ Bore x Stroke:	-	4.19"x5.00" (276 cu. in. total)
➤ Fuel Filter:	-	John Deere RE60021
➤ Oil Filter:	-	John Deere RE59754
➤ Engine Air Filter:	-	John Deere C085001

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 2000 RPM. Run time increases with reduced speed and decreases with higher speed.
- ⁽⁵⁾ **WARNING** – this speed is for intermittent duty only. Maximum continuous duty speed is 2000 RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed. See pump curve.

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