

## PRODUCT DATA SHEET

5/7/2012

## BP44LS-CY360T

BakerPrime 4x4 Low Pressure Solids Handling Unit (Open, Trailer)

### 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.

### PERFORMANCE DATA

» Flow (min/max):	-	280 gpm / 1300 gpm
» Minimum Shutoff Head:	-	57 feet (25 psi) @ 1200 rpm (1)
» Maximum Shutoff Head:	-	128 feet (55 psi) @ 1800 rpm (1)
» Minimum Speed:	-	1200 rpm
» Maximum Speed:	-	1800 rpm
» Maximum Suction Lift:	-	25 feet (2)
» Maximum Casing Press:	-	150 psi
» Maximum Temperature:	-	190°F (7)
» Maximum Solids Size:	-	3" spherical diameter

### PUMP SPECIFICATIONS

» Impeller:	-	10.09"
» Bearing Lubrication:	-	Grease
» Vacuum System:	-	13 cfm Compressor/Venturi
» Mechanical Seal Lube:	-	SAE No. 30 Oil (3)

### PHYSICAL SPECIFICATIONS

» Suction Size:	-	4" flange
» Discharge Size:	-	4" flange
» Approximate Weight:	-	1687 lbs dry / 1900 lbs wet
» Overall Height:	-	62" (to top of lifting eye)
» Overall Width:	-	54" (outer most edges)
» Overall Length:	-	101" (nose to tail)

### MATERIAL SPECIFICATIONS

» Pump Casing:	-	Cast Iron
» Shaft Sleeve:	-	Heat Treated 416 SS
» Wear Rings:	-	Cast Iron
» Mechanical Seal Faces:	-	Tungsten/Silicon-Carbide
» Pump Shaft:	-	1144 SAE Stressproof
» O-rings:	-	Buna-N & Viton
» Impeller:	-	Cast Iron
» Check Valve Body:	-	Gray Iron No. 30
» Check Valve Flapper:	-	Buna-N

### ENGINE SPECIFICATIONS

» Engine Make/Model:	-	Yanmar 3TNV88
» Total Displacement:	-	1.6 Liter
» Aspiration:	-	Naturally Aspirated
» Max. Continuous BHP:	-	36.1 @ 3600 rpm (4)
» Crankcase Oil:	-	SAE 10W40 (5)
» Coolant:	-	50/50 Water/Antifreeze
» Safety Shutdowns:	-	High Water Temp & Low Oil Pressure
» Fuel Consumption:	-	1.12 gal/hr @ 1800 rpm (6)
» Run Time:	-	27 hours at 1800 rpm at 80% Engine Load
» Fuel Capacity/Type:	-	30 gal of No. 2 diesel
» Number of Cylinders:	-	Three

#### Notes:

- (1) Based on 1.0 specific gravity
- (2) Depends on flow rate, pump speed, and elevation. See performance curve.
- (3) Should always be visible and clear in appearance thru sight glass.
- (4) WARNING – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is less. See curve for max pump RPM.
- (5) Must be changed every 250 hours of runtime.
- (6) Run time fluctuates with speed and engine loads.
- (7) Equipment material limitation. Lower max temperature may be necessary due to application conditions and pump NPSH requirements.

BakerCorp Reference # 404-0101

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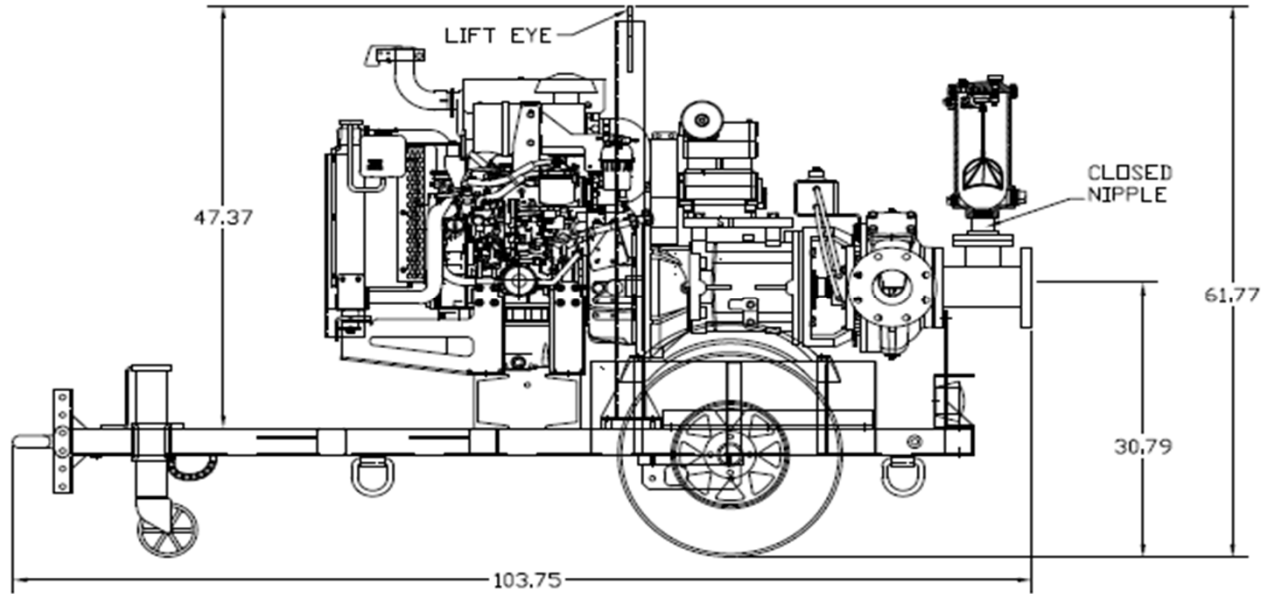
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PHYSICAL SPECIFICATIONS



PERFORMANCE CURVE

