

BRONZE CENTRIFUGAL PUMPS

CENTRIFUGAL PUMPS SERIES 83PB



FEATURES

- All Bronze
- Mechanical Face Type Seal
- Fluoroelastomer (S10) or Polytetrafluoroethylene (PTFE) (S11) Seals Available on Special Order
- Heavy Duty Ball Bearings - Designed for Pulley
- Drive Applications
- Stainless Steel Shaft
- Field Convertible to Close Coupled Unit Using
- Standard Keyed Shaft "C" Flange Motor
- May Be Operated with the Shaft Horizontal or Vertical

DRIVE

The pedestal centrifugal pumps can be direct driven by electric motors at either 3450 R.P.M. or 1725 R.P.M. Performance for both speeds are shown in the curves above. The 81PB pedestal centrifugal pump can be pulley driven at any desired intermediate speed.

Because of the centrifugal pump impeller and body design, rotation must be as shown in the dimension diagram. Standard factory rotation is clockwise facing the pump shaft. If the pump is driven in the opposite direction it will pump only a very small amount.

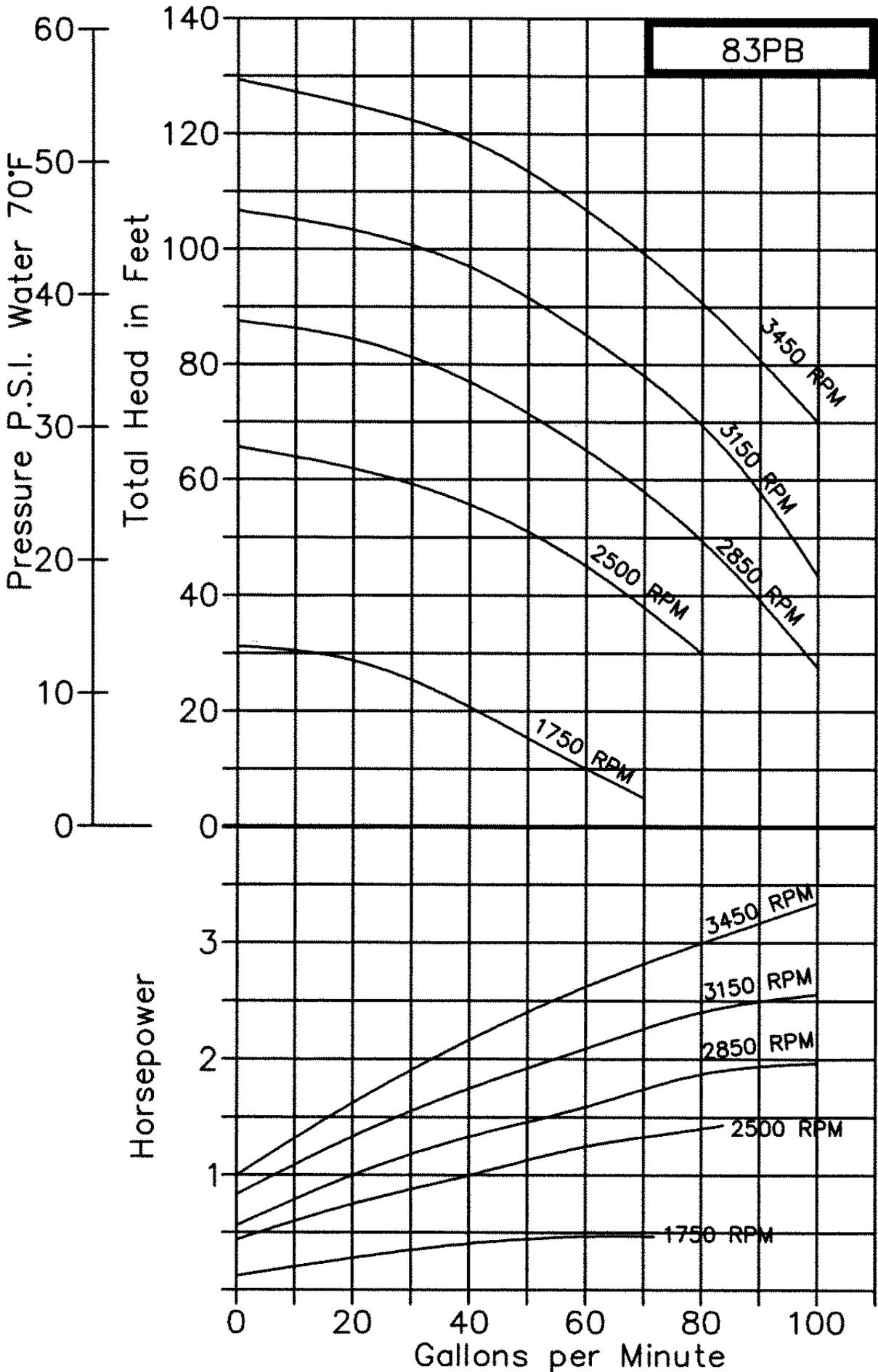
LIQUIDS AND TEMPERATURE

Bronze pumps are suitable for most common liquids in the PH-range from 4 to 11. The temperature limit for bronze pumps is 212o F, higher temperatures are possible with fluoroelastomer or Chemlon seals. If in doubt, consult with factory. Because centrifugal pumps are more efficient at higher shaft speeds, pumping of viscous or thick liquids is difficult. It is possible to lose as much as 40% pump performance when attempting to pump liquids of viscosity equal to S.A.E. 30 oil at room temperature. S.A.E. 30 oil at room temperature has a viscosity of 2000 Saybolt Seconds Universal. More viscous liquids are not recommended for centrifugal pumps.

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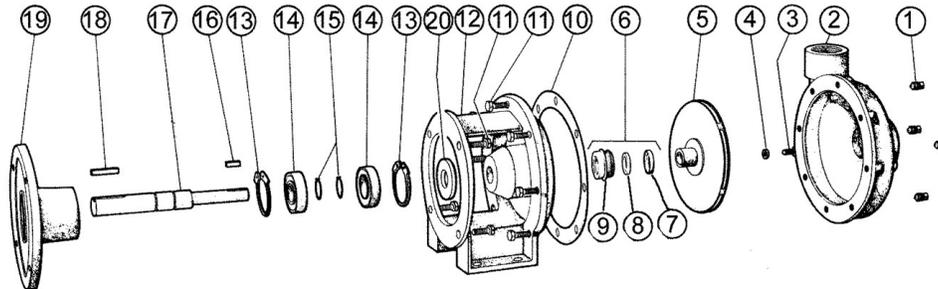
PERFORMANCE



SUCTION LIFT

This centrifugal pump is not self priming. Normally these pumps must be installed below the liquid level so that the liquid flows to the pump by gravity. However, if a foot valve is used at the beginning of the suction line and all air is bled from the suction line and pump by careful manual priming, these pumps will lift liquid on the suction side up to 15 ft. Such a system is only as positive as the ability of the foot valve to seal and keep the suction line and pump full of liquid. If the foot valve should leak, the pump will not prime.

EXPLODED VIEW AND PARTS LIST

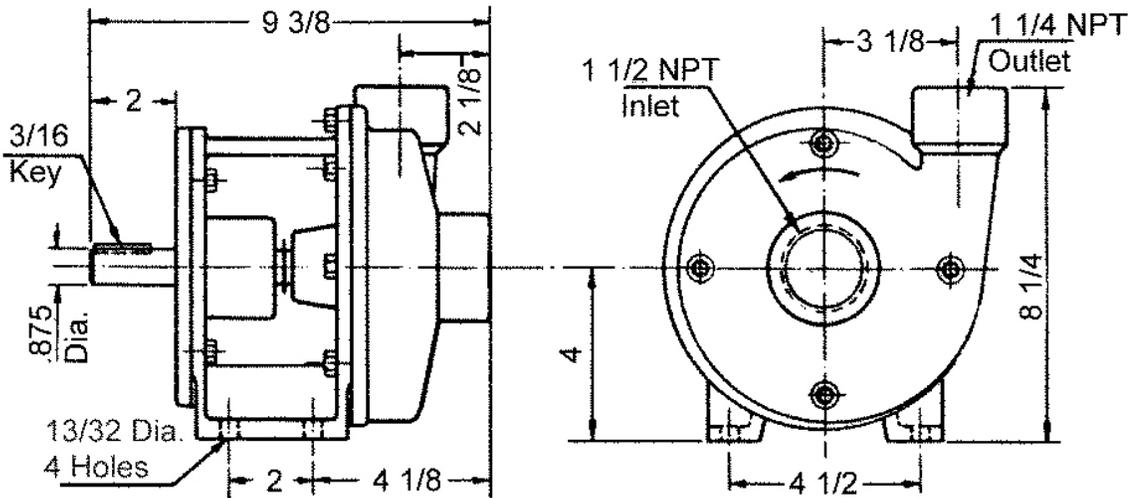


Pump No.	1 Pipe Plug	2 Body	3 Screw	4 Lock-washer	5 ¹ Impeller Assembly	6 ¹ Seal Assembly	7 ² Seal	8 ² Seal Wearface	9 ² Seal Head	10 ¹ Gasket	11 Screws	12 Adapter	13 Retaining Ring	14 Ball Bearing	15 Retaining Ring	16 Key	17 Shaft	18 Key	19 Bearing Plate	20 Slinger	Repair Kit
	4 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	12 Req'd	1 Req'd	2 Req'd	2 Req'd	2 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	
83PB	5395	7585	7656	7395	32353	32346	7427	7426	5377	7425	5411	7586	6053	5884	5885	7428	7455	6845	7587	7447	10953
83PBS-10	5395	7585	7656	7395	32353	32360	7427	7426	6141	7425	5411	7586	6053	5884	5885	7428	7455	6845	7587	7447	12267
83PBS-11	5395	7585	7656	7395	32427	32211	N/A	N/A	N/A	7425	5411	7586	6053	5884	5885	7428	7455	6845	7587	7447	12268

¹ These parts are included in the Repair Kit.

² Seal parts sold only as seal assembly - item 6.

DIMENSIONS



WITH MOTOR

