



OBERDORFER[®]

An Ingersoll Rand Business



Model 500 Bronze Close Coupled Centrifugal Pump



Features

- Pipe Size: 3/8"
- All Bronze Pump Castings
- Stainless Steel Motor Shaft
- Mechanical Seal
- Extremely Quiet
- Will handle difficult solvents with proper seals: Viton® (S10)
- Long Life
- Do Not Require Relief Valves
- Will Handle Contaminated Liquids

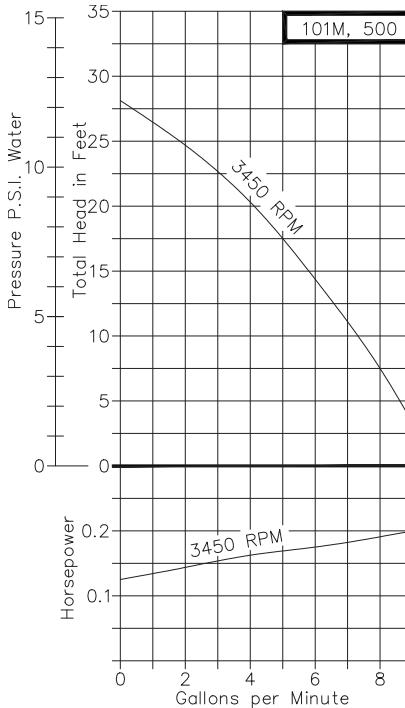
Liquids

The special pump alloys used provide corrosion resistance to many liquids including water, water solutions, and a wide range of commercial chemicals. Questions as to the chemical compatibility of special liquids should be referred to the factory.

Viscous liquids with a maximum viscosity of 2000 Saybolt Seconds Universal can be pumped. However, when pumping viscous liquids as compared with water, a reduction in flow and pressure occurs and the required horsepower rate increases.

Liquids heavier than water require additional horsepower in direct proportion to the increase in specific gravity. Liquids contaminated with small solids or abrasives can be handled, but a reduction in mechanical seal life must be expected.

Performance Capacity Water at 60°F



Characteristics

This close coupled pump uses a standard NEMA C Flange Jet Pump Motor with weld-on base and threaded shaft end to accept the pump impeller. Single phase motors are non-reversible and are wired for the proper pump rotation which is counter-clockwise looking at the inlet end of the pump. Three phase motors must be checked out for proper rotation when pump is installed.

Interchanging of any 2 wires in a 3-phase system will reverse motor rotation.

The pump uses a mechanical type shaft seal with a Buna rubber element. It is suitable for water, oils, and some mild solvents. It is limited to 212° F. Viton® seals are available for severe solvents, difficult chemicals, and elevated temperatures.

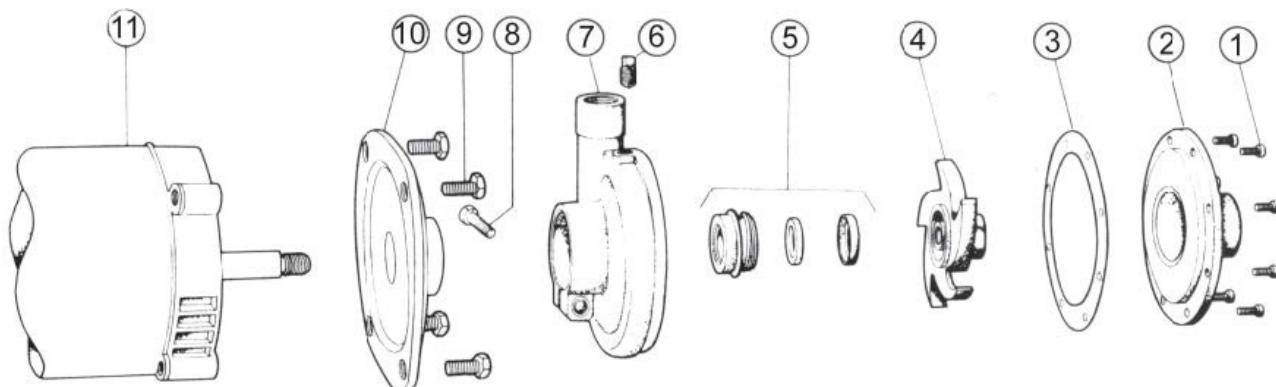
These centrifugal pumps are not self-priming. They must be installed below the liquid level so that the liquid flows to the pump by gravity (flooded suction). However, if a foot valve is used at the beginning of the suction line and all air is bled from the pump by manual priming, the pump will lift on the suction side up to 15 feet. Such a system relies entirely on a non-leaking foot valve for starting capability.

The flow of a centrifugal pump can be conveniently controlled by a throttling valve in the discharge line without the need for a relief valve. In centrifugal pumps, the horsepower demand will decrease as the pressure increases. Maximum horsepower occurs with a wide open discharge.





Exploded View and Parts List



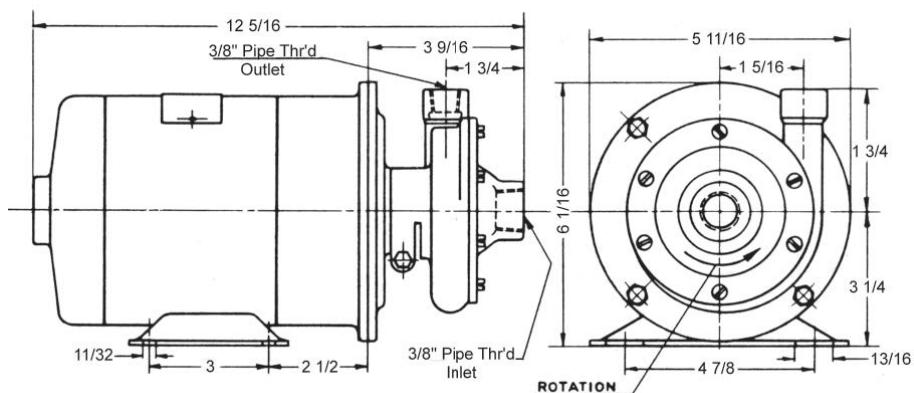
| | 1 | 2 | 3* | 4* | 5* | 6 | 7 | 8 | 9 | 10 | 11 | 12** | |
|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|------------------------|
| Model | Qty. 6 | Qty. 1 | Qty. 1 | Qty. 1 | Qty. 1 | Qty. 1 | Qty. 1 | Qty. 4 | Qty. 1 | Qty. 1 | Qty. 1 | Qty. 1 | Repair Kit |
| OB500 | OB5385 | OB6483 | OB6502 | OB6476 | OB32154 | OB6052 | OB6475 | OB5595 | OB5411 | OB7611 | --- | --- | OB10694 (Single Phase) |
| OB500P | OB5385 | OB6483 | OB6502 | OB7351 | OB32154 | OB6052 | OB6475 | OB5595 | OB5411 | OB7611 | --- | OB9849 | OB11062 (Three Phase) |

* Repair kit contains items 3, 4, 5, 12. ** Parts not shown

Pump and Motor Options

| Pump No. | Electric Motor | Motor Shaft | Part No. |
|-----------|--|-----------------|----------|
| OB500-F13 | 3450 RPM, 1/3 HP, Single, 115V, ODP | Stainless Steel | OB5859 |
| OB500-F20 | 3450 RPM, 1/3 HP, Single, 115/230V, TEFC | Stainless Steel | OB7986 |
| OB500-F21 | 3450 RPM, 1/3 HP, Single, 115/230V, XP | Stainless Steel | OB8214 |
| OB500-J19 | 3450 RPM, 1/2 HP, Single, 115/230V, ODP | Stainless Steel | OB5860 |
| OB500-J20 | 3450 RPM, 1/2 HP, Single, 115/230V, TEFC | Stainless Steel | OB7976 |
| OB500-F57 | 3450 RPM, 1/3 HP, Three, 220/440V, ODP | Stainless Steel | OB6996 |
| OB500-F68 | 2850 RPM, 1/3 HP, Three, 220/380V, TEFC | Stainless Steel | OB8654 |
| OB500-J58 | 3450 RPM, 1/2 HP, Three, 220/440V, TEFC | Stainless Steel | OB9214 |

Dimensions



Numbering

