Pipe Size: Inlet 3/8" Outlet 3/8"

FEATURES:
- All Bronze Construction
- Heavy Duty Ball Bearings
- Designed for Pulley Drive
- Mechanical Seal
- Quiet Operation
- Handles Contaminated Liquids
- No Lubrication Required

LIQUIDS & TEMPERATURES:
Bronze pumps are suitable for most common liquids in the PH-range from 4 to 11.

The temperature limit for bronze pumps is 212° F; higher temperatures are possible with Viton®. If in doubt, consult with factory.

CHARACTERISTICS:
Oberdorfer centrifugal pumps have a single rotating metal impeller. Liquid enters at the center and is thrown outward radially by centrifugal force. The impeller is not in contact with other pump parts resulting in quiet, efficient, pumping action. The flow produced is not positive which permits the discharge line to be shut off completely without danger of overloading motors or bursting lines. Consequently a relief valve is not required.

The liquid flow is proportional to the pump speed—the higher the speed the greater the flow. Horsepower required varies directly as flow and pressure. Maximum horsepower is required with a wide open discharge line. This is the point of maximum flow. With a throttled discharge, the flow decreases at a greater rate than the pressure increases thereby requiring less horsepower at the higher pressures. This is known as an “unloading” feature of the pump.

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.

The pedestal centrifugal pumps can be direct driven by electric motors at either 3450 RPM or 1725 RPM. Performance for both speeds are shown in the curves above. The 50P pedestal centrifugal pumps can be pulley driven at any desired intermediate speed.

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. SAE 30 oil at room temperature has a viscosity of 2000 Saybolt Seconds Universal. More viscous liquids are not recommended for centrifugal pumps.

Heavy liquids can be pumped; however, they demand more horsepower in direct ratio to the weight of water. For example, carbon tetrachloride has a specific gravity of 1.6 which means it is 1.6 times heavier than water and the horsepower required is 1.6 times water horsepower.
### Bronze Close Coupled Centrifugal Pump
**Models 50P-15; 50P-35**

#### Exploded View and Parts List

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<thead>
<tr>
<th>Model</th>
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* Repair kit contains items 3, 4, 5, 11.

Differences between the 50P-15 and 50P-15: slinger between seal and bearing, keyed shaft at drive end, and top horizontal outlet position.

#### Dimensions

**SHAFT SEAL OPTIONS**
Mechanical Shaft Seals have Buna rubber components (212°F max) as standard. For temperatures up to 400°F a Viton®* seal must be selected by adding code S10 to the pump number.

In most instances, Viton®* seals are not field interchangeable with the standard Buna seals. Call factory for details.

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VITON® is a trademark of DuPont Dow. VITON® or equivalent FKM may be used.

Visit [www.oberdorfer-pumps.com](http://www.oberdorfer-pumps.com) to find in-depth descriptions of the world’s leading high-quality, dependable pumps.

Due to ongoing product improvements, data shown here is subject to change without notice. Contact Oberdorfer Pumps for latest specifications.