FEATURES

- Rugged bronze Construction
- Quiet Operation
- O-Ring housing seal eliminates gasket problems
- Wide Hydraulic Range - Four Impeller sizes
- Handles contaminated liquids
- Discharge port orientation flexibility - 8 positions
- Mechanical Seal - Carbon/Ceramic
  Buna - standard
  Viton® (S10) optional
  Teflon® (S11) optional
- Pump heads mount to standard footed NEMA 56J Jet Pump Motors
- Shafts: 416 Stainless
- Multiple motor options available
- For marine version of Model 700B - see Model 109MB
- For pedestal style version of Model 700D, see Model 70P

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.

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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. (See the dimensional drawing on back.) Three phase motors must be checked out for proper rotation when the 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 N rubber element. It is suitable for water, oils, and some mild solvents and it is limited to 212°F and 75 P.S.I. Viton® seals and Teflon® seals are available for severe solvents and difficult chemicals.

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 horse power demand will decrease as the pressure increases. Maximum horse power occurs with a wide open discharge.

**Pump No.** | **Electric Motor**
---|---
A 700A-F13 | 1/3 HP, 3450 RPM, 115 v, Single Phase, ODP
A 700AP-F57 | 1/3 HP, 3450 RPM, 220/440 v, Three Phase, ODP
B 700B-J19 | 1/2 HP, 3450 RPM, 115/230v, Single Phase, ODP
B 700BP-J57 | 1/2 HP, 3450 RPM, 220/440v, Three Phase, ODP
C 700C-M19 | 3/4 HP, 3450 HP, 115/230v, Single Phase, ODP
C 700CP-M66 | 3/4 HP, 3450 HP, 208/220v, Three Phase, ODP
D 700D-T19 | 1 1/2 HP, 3450 RPM, 115/230v, Single Phase, ODP
D 700DP-T57 | 1 1/2 HP, 3450 RPM, 220/440v, Three Phase, ODP

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.

**CAPACITY** Water at 70°F / 3450 RPM

- Water at 70°F / 3450 RPM
- Pressure P.S.I. Water
- Total Head, Feet
- Displacement, Gallons per Minute
- Horsepower
CLOSE COUPLED BRONZE
CENTRIFUGAL PUMP

EXPLODED VIEW AND PARTS LIST

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Notes: Repair Kits contain items 5, 6, 7 & 11 (and includes impeller shims 602502 and 602503, gasket for older units)

DIMENSIONS

Specifications are subject to change without notice. All motor dimensions are subject to variations due to differences in motor makes.

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