PIPE SIZE: INLET 1 1/2", OUTLET 1 1/4"

FEATURES
• Bronze Construction
• Stainless Steel Shaft
• Carbon Face Mechanical Pump Seals - Buna STD
• Viton(R)* (S10) or Teflon(R)* (S11) Pump Seals
  Available for Solvent Transfer
• Field convertible to pedestal drive model
• Will Handle Contaminated Liquids
• Extremely Quiet
• Pump-heads only easily field mounted to
  standard footless “C” flange motors
• Keyless impeller option (830B-07)

LIQUIDS
The special pump alloys used provide corrosion resis-
tance 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 horse-
power 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.

CHARACTERISTICS
This close-coupled pump uses a standard NEMA
56C motor with no base. Single phase motors are non-
reversible and are wired for the proper pump rotation which is
counter-clockwise looking at inlet end of pump. See the dimen-
sional drawing on back. 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
and it is limited to 212°F. Viton(R)* seals and Teflon(R)* seals are
available for severe solvents, difficult chemicals, and elevated tem-
peratures.

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 the non-leaking foot valve for start-
ing 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.

* Viton(R) is a registered trademark of DuPont Dow Elastomers. Viton(R) or equivalent FKM will be used.
  Teflon(R) is a registered trademark of DuPont. Teflon(R) or equivalent PTFE will be used.
INSTRUCTIONS FOR ASSEMBLING PUMP TO MOTOR

The following instructions apply in cases where a customer chooses to purchase the pump only and supplies his/her own motor for close coupled mounting. The motor must have a NEMA C-Flange, 5/8” diameter straight shaft with 3/16” key, 3450 RPM speed and the horsepower must agree with the pump size as follows:

**Pump No. 830, HP**

Assemble pump to motor step by step as follows:

1) Slide pre-assembled pump with hollow shaft over motor shaft. Insert Key 12.
2) Apply an axial push force against screw head in impeller eye (to overcome seal spring tension) while tightening set screws in shaft collars 13 and 14. SEE DIAGRAM.
3) Bolt pump to motor flange with four hex. head cap screws 8.

Specifications are subject to change without notice. All motor dimensions are subject to variations among motor manufacturers.

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**EXPLODED VIEW AND PARTS LIST**

**PUMP & MOTOR OPTIONS***

*Note: These are the most frequently used pump and motor combinations. If you have other needs, our sales reps can recommend a pump and motor for your application.

**DIMENSIONS**

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**INSTRUCTIONS FOR ASSEMBLING PUMP TO MOTOR**