

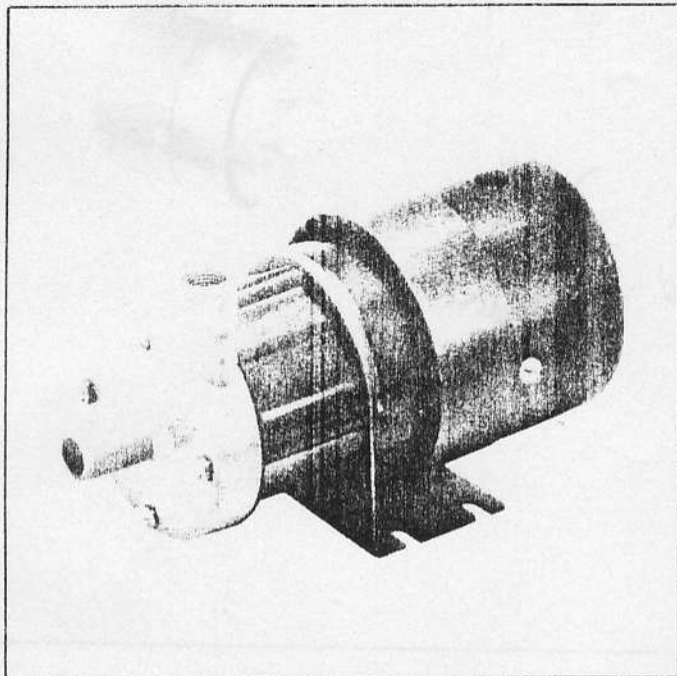
JABSCO®

Seal-Less Magnetic Drive Centrifugal Pumps

MODEL 17870-0001

PRODUCT DATA

DESIGN FEATURES



Pump Material: Glass-filled epoxy and CPVC suitable for temperatures to 180° F (82° C)

Impeller Design: Enclosed, 1.80" dia.

Magnetic Drive: Chemical resistant coated magnets

Ports: Suction 3/4" ID slip-on hose
Discharge 3/8" NPT internal
3/4" ID slip-on hose

Motors: 115 Vac, single phase, 60 Hz, 3000 RPM, totally enclosed fan cooled, thermal overload protected, class "B" insulation

Weight: 7 lbs (3,2 kgs)



APPLICATION AND OPERATING INSTRUCTIONS

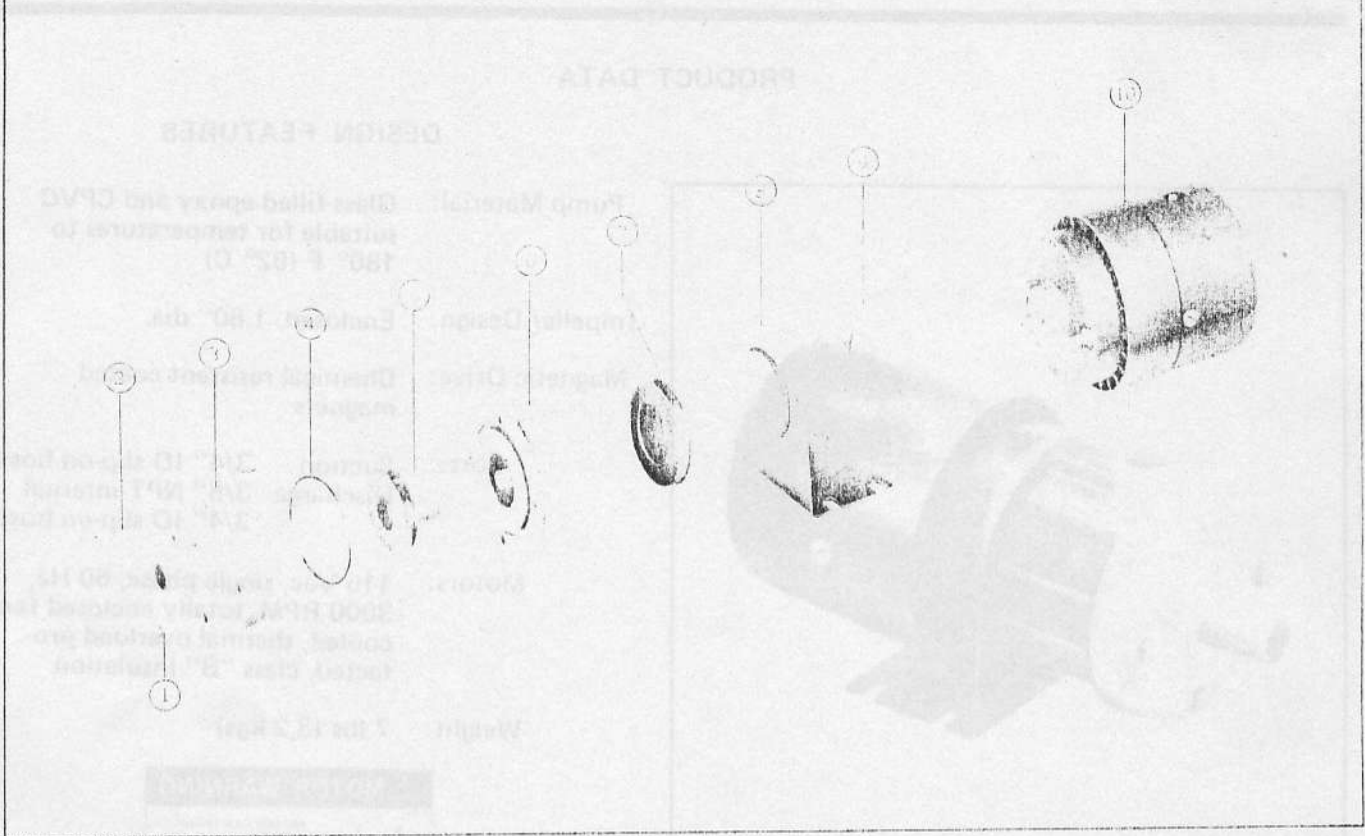
Pump designed for transfers, circulation, filtration and drainage. The magnetic drive centrifugal pump does not need a seal. It is a leak proof design. This all plastic pump does not have metal parts in contact with the fluid. Capable of handling photo chemicals, corrosive fluids, plating solutions, lab solutions and many others.

1. **INSTALLATION** — Pump is a non self-priming centrifugal design. Flooded suction installation is recommended. Rotation is clockwise (viewed from motor end).
2. **PRIMING** — Pump must be primed before starting. Do not run dry. Damage to pump will result.
3. **NOTICE** — Use only plastic fittings in discharge port. Do not overtighten. Damage to pump may result if disregarded.
4. **LOCATION** — Pump inlet should be located below liquid surface. Keep suction and discharge line as free of elbows and valves as practical to obtain maximum performance.
5. **SUCTION AND DISCHARGE LINES** — Both should be supported independent of pump. Suction line should be airtight. Discharge lines should be designed with minimum number of fittings and bends to reduce head loss from friction.
6. **PRIMING** — If there is some suction lift, a flap type foot valve can be used to facilitate priming.

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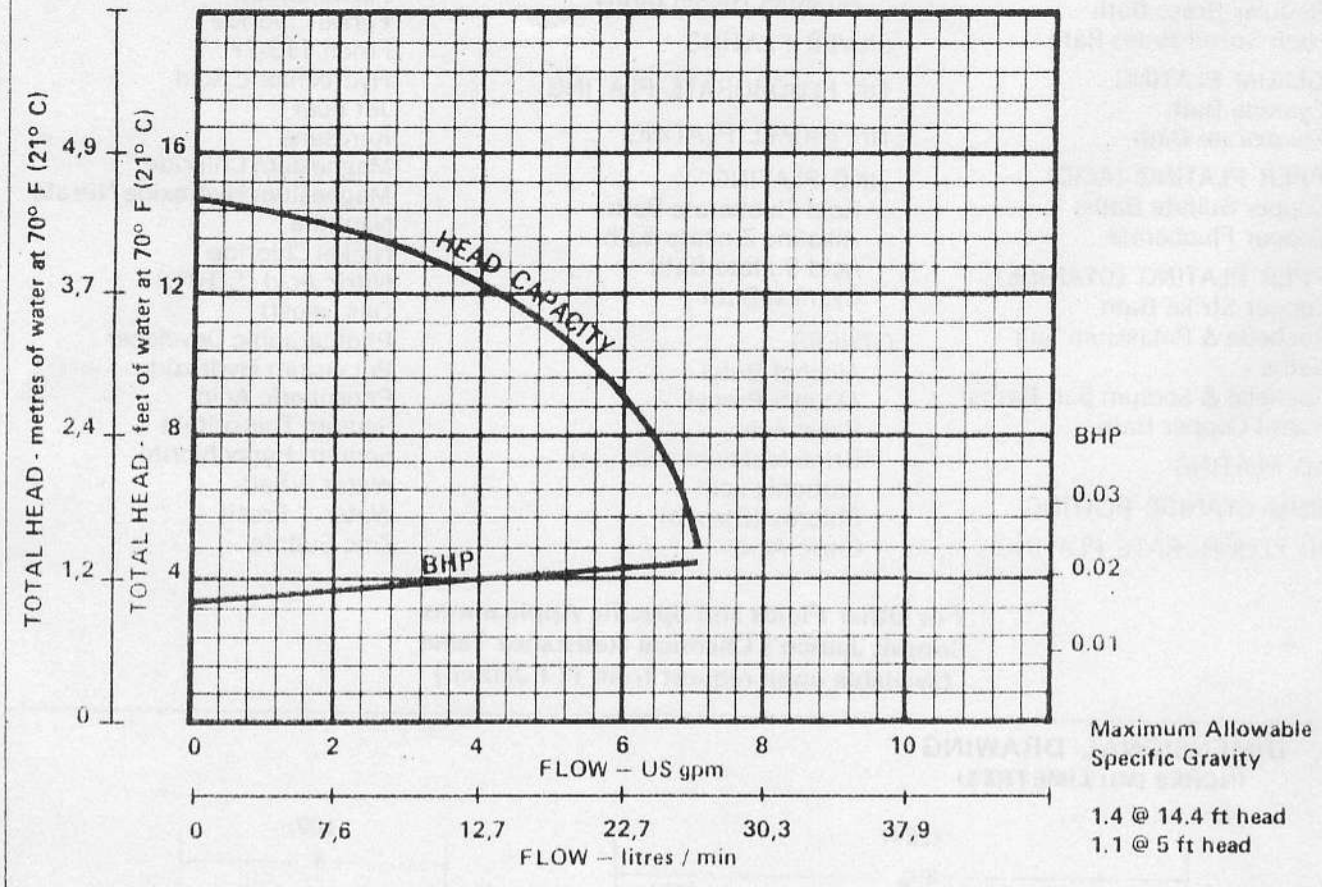
EXPLODED VIEW



PARTS LIST

Key	DESCRIPTION	Qty. Req.	Part No.
1	Nut, Hex	4	94000-0050
2	Screw	2	91014-0050
3	Pump Body	1	17867-0000
4	O-ring	1	92000-0990
5	Impeller Assy.	1	17874-0009
6	Magnet Housing	1	17876-0000
7	Drive Magnet Assy.	1	17875-0000
8	Mounting Bracket	1	17864-0000
9	Spacer	1	17868-0000
10	TEFC Motor	1	93004-2430

PUMP PERFORMANCE



SERVICE INSTRUCTIONS

DISASSEMBLY

1. Loosen nuts and screws, remove body.
2. Remove impeller assembly from seal housing.
3. Remove O-ring from seal housing.
4. Remove seal housing from motor bracket.
5. Loosen set screw and remove drive magnet assembly from shaft; only if necessary to replace drive magnet assembly.
6. Remove bracket and spacer.

ASSEMBLY

1. Install spacer on motor.
2. Install mounting bracket on motor bearing boss.
3. Install drive magnet assembly on shaft. There should be 0.030" clearance between magnet drive cup boss and face of motor bearing. Secure drive magnet assembly to shaft with set screw.
4. Locate and engage magnet housing on mounting bracket. Locating pins must engage in bracket.
5. Install O-ring in magnet housing.
6. Install impeller assembly in magnet housing bore.
7. Install body on magnet housing. Torque nuts to 10 inch-pounds. Install and tighten screws.

A FEW OF THE MANY CHEMICALS AND FLUIDS HANDLED:

PLATING SOLUTIONS

BRASS PLATING

- Regular Brass Bath
- High Speed Brass Bath

CADMIUM PLATING

- Cyanide Bath
- Fluoborate Bath

COPPER PLATING (ACID)

- Copper Sulfate Baths
- Copper Fluoborate

COPPER PLATING (CYANIDE)

- Copper Strike Bath
- Rochelle & Potassium Salt Baths
- Rochelle & Sodium Salt Baths
- Barrel Copper Bath

GOLD PLATING

INDIUM CYANIDE PLATING

LEAD FLUOBORATE PLATING

NICKEL PLATING

- Nickel Fluoborate Bath
- All other Nickel Baths

SILVER PLATING

TIN FLUOBORATE PLATING

TIN NICKEL PLATING

ZINC PLATING

- Acid Fluoborate Bath
- Alkaline Zincate Bath
- Acid Sulfate Bath
- Cyanide Bath

OTHERS:

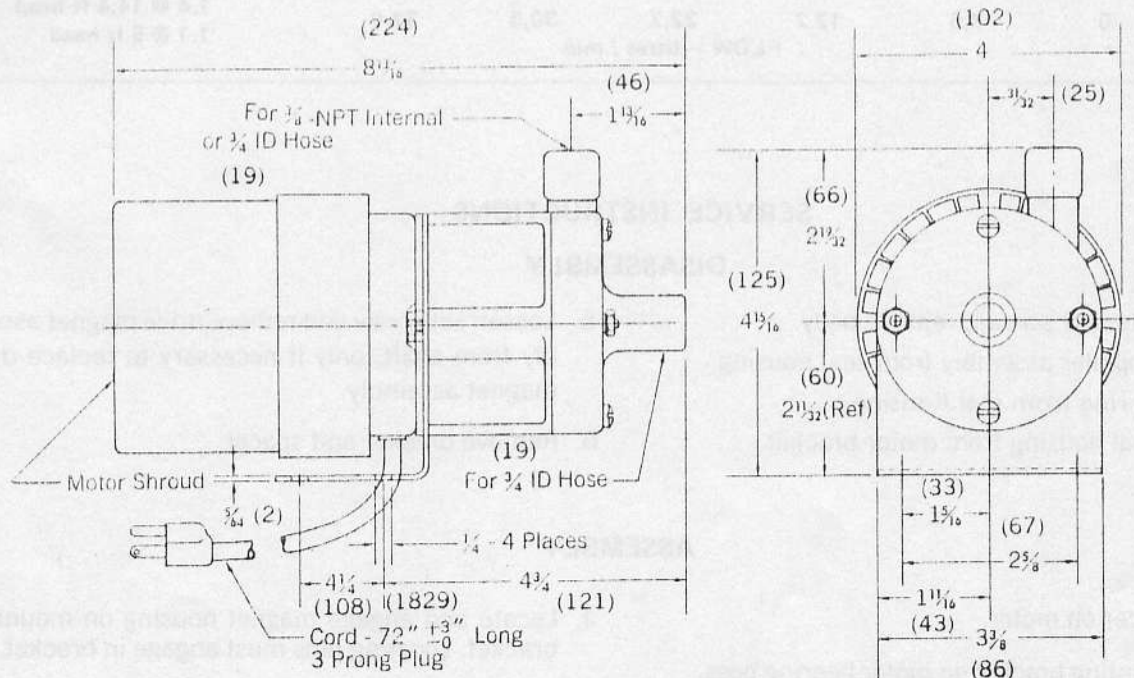
- Alcohol Butyl
- Alcohol Propyl
- Boric Acid
- Brine (calcium chloride)
- Carbonic acid
- Chlorox (Bleach)
- Citric Acid

OTHERS (Cont'd):

- Ferric Nitrate
- Ferric Sulfate
- Ferric Chloride
- Freon 113-TF
- Hydrochloric Acid
- Jet Fuel
- Kerosene
- Magnesium Chloride
- Magnesium Hydroxide Nitrate
- Naphtha
- Nickel Chloride
- Nitric Acid (5-10%)
- Oils (most)
- Photographic Developer
- Potassium Hydroxide
- Phosphoric Acid
- Sodium Thiosulfate
- Sodium Hypochlorite
- Water — Salt
- Water — Fresh
- Zinc Sulfate

For Other Fluids and Specific Applications
Consult Jabsco's Chemical Resistance Table
(available upon request from ITT Jabsco)

DIMENSIONAL DRAWING
INCHES (MILLIMETRES)



THE PRODUCT DESCRIBED HEREIN IS SUBJECT TO THE JABSCO ONE YEAR LIMITED WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

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