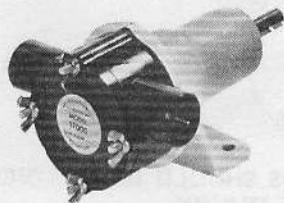
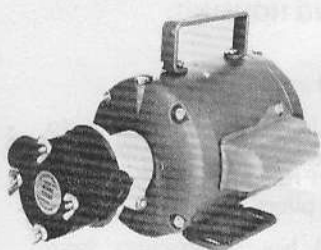



**JABSCO**®

## Models: 17000-SERIES 17020-SERIES



17000-Series



17020-Series

### SELF-PRIMING PUMPS

#### FEATURES

Pump Series No.:	<b>17000-Series Pedestal Mounted 17020-Series Motor Pump Unit</b>
Body:	<b>Glass-filled Epoxy</b>
Impeller:	<b>Neoprene, Nitrile or Viton*</b>
Shaft Seal:	<b>Mechanical, Carbon-on-Ceramic, Nitrile</b>
Ports:	<b>3/8" NPT Internal</b>
Shaft:	<b>Corrosion Resistant Steel with Epoxy Drive Sleeve</b>
Motor:	<b>115 Vac, Single Phase, 60Hz, 1/4 HP, 1725 RPM, TEFC, overload protected, capacitor start. Three-pronged grounded plug.</b>
Weight:	<b>17000-Series 3-1/2 lb (1,6 kg) 17020-Series 21 lb (9,5 kg)</b>

Models: 17000-SERIES, 17020-SERIES

#### VARIATIONS AVAILABLE

Model	Description
17000-0001 17020-0001	With Neoprene Impeller
17000-0003 17020-0003	With Nitrile Impeller
17000-0004 17020-0004	Viton Impeller, Seal and O-Ring

#### ⚠ MOTOR WARNING



MOTOR CAN SPARK.  
EXPLOSION & DEATH  
CAN OCCUR.

DO NOT USE WHERE  
FLAMMABLE VAPORS  
ARE PRESENT.

#### APPLICATIONS

Designed for "transfers," "circulation," "spill returns," "filtration," and "filling line" use. Easily handles pure solutions, foaming liquids, emulsions, suspended solids, gels and ferments. Because the plastic pump is resistant to corrosion and metallic contamination, it is widely used for pumping photo chemicals, plating compounds, lab solutions, pharmaceuticals, cosmetics, weak acids, alkalies, liquid fertilizers,

insecticides, dyes, detergents, waxes and many more. THERE IS NO METAL PUMP PART IN CONTACT WITH THE FLUID. Refer to Chemical Resistance Table in the Jabsco Industrial Catalog for assistance in selecting the most suitable impeller and pump material. The catalog is available upon request from the ITT Jabsco factory.

- INSTALLATION** – Pump may be mounted in any position. The rotation of the pump shaft determines the location of the pump's intake and discharge ports. Refer to Dimensional Drawing. Pump is normally assembled at factory for clockwise rotation (looking at end cover). If counterclockwise rotation is desired, follow steps 1 to 6 of disassembly and assembly instructions to change direction of impeller blade deflection under cam. This applies to pedestal pump only.
- DRIVE** – Belt or direct with flexible coupling for foot mounted unit. Clearance should be left between drive shaft and pump shaft when installing coupling. Always mount pump and align drive shaft before tightening the coupling set screw. Close coupled for motor pump unit.
- SPEEDS** – 100 RPM to the maximum shown in the performance table. For longer pump life, operate at lowest possible speeds.
- SELF-PRIMING** – Primes at high or low speeds. A minimum of 1200 RPM is required for vertical dry suction lift of 15 feet with 17000-0001, 10 feet with 17000-0003, and 5 feet with 17000-0004. Pump will produce suction lifts up to 22 feet when wetted. **BE SURE SUCTION LINES ARE AIRTIGHT OR PUMP WILL NOT SELF-PRIME.** Suction line should be as short as possible.
- RUNNING DRY** – Unit depends on liquid pumped for lubrication. **DO NOT RUN DRY FOR MORE THAN 30 SECONDS.** Lack of liquid will damage the impeller and other pump parts.
- DISCHARGE LINE** – When transferring liquids further than 25 feet, discharge line size should be increased to 1/2" nominal pipe diameter.

(Cont.)

Viton\* is a trademark of E. I. Du Pont de Nemours and Company.

## OPERATING INSTRUCTIONS (Cont.)

7. **NOTICE** – When corrosive fluids are handled, pump life will be prolonged if pump is flushed with water after each use or after each work day. For further information, consult Jabsco Chemical Resistance Table (available upon request from ITT Jabsco) or factory.
8. **PRESSURES** – For continuous operation, pressure should not exceed 21 psi (1,5 kg/cm<sup>2</sup>) for Neoprene and Nitrile impellers and 18 psi (1,3 kg/cm<sup>2</sup>) for Viton Impellers.
9. **TEMPERATURES** – Neoprene impellers are suitable for service at 45° - 180° F (8° - 82° C), Nitrile 50° - 180° F (10° - 82° C), Viton 60° - 180° F (15° - 82° C).
10. **SPARE PARTS** – A Jabsco service kit should be kept on hand to eliminate extensive downtime.

## DISASSEMBLY AND ASSEMBLY INSTRUCTIONS

● Disassembly Steps    □ Assembly Steps

**CAUTION: PUMPS WHICH HAVE HANDLED CORROSIVE, CAUSTIC OR TOXIC FLUIDS SHOULD BE DRAINED AND COMPLETELY FLUSHED PRIOR TO SERVICING. FAILURE TO DO SO MAY CAUSE INJURY.**

## TO REPLACE IMPELLER:

- Step #1. ● Remove end cover wing nuts, end cover and O-ring.
- Step #2. ● Remove pump head from bearing housing (Key 15 for 17000 Series) or adaptor (Key 20 for 17020 Series).
- Step #3. ● Grasp the hub of impeller with water pump type pliers and, with a rotary twist motion, withdraw the impeller from body bore.
- Step #4. □ Install new impeller in lubricated body bore (Key 6) by grasping the hub of impeller and with a rotary motion push it into the body bore.
- Step #5. □ Install pump head on the bearing housing (Key 15) or adaptor (Key 20) – locating drive flats in the impeller insert drive.
- Step #6. □ Install O-ring in end cover and secure to pump head with bolts, washers and wing nuts.

## TO REPLACE SEAL ASSEMBLY:

- Step #7. ● Follow step 1●, 2●, and 3●.
- Step #8. ● Remove seal seat and grommet from body seal bore (Key 6). Lubricate with water to facilitate seal removal. Insert screwdriver beneath seal seat and pry out of body seal bore.
- Step #9. ● Remove drive sleeve (Key 7) from shaft. Remove seal face and seal spring from drive sleeve.
- Step #10. □ Install seal spring on drive sleeve (Key 7). Lubricate carbon face seal with water and slide on drive sleeve with carbon facing away from spring.
- Step #11. □ Install ceramic seal seat in grommet with grooved face towards grommet. Lubricate outer surface of seal seat assembly with water and push assembly into body seal bore with ceramic seat facing out of bore.
- Step #12. □ Assemble impeller body and end cover as in steps 4□, 5□ and 6□.

## TO SERVICE BEARING HOUSING:

- Step #13. ● Follow steps 1●, 2●, 3●, 8● and 9●.
- Step #14. ● Remove from pedestal (Key 15) inboard bearing lip seal (Key 11) with hooked wire or screwdriver, and retaining ring (Key 17) using retaining ring pliers.
- Step #15. ● Remove shaft and bearing assembly from body end of pedestal (Key 15) by pressing on drive end of shaft.
- Step #16. ● Press outboard bearing lip seal (Key 12) out of pedestal (Key 15).
- Step #17. ● Remove bearing (Key 13) and spacer (Key 10) from shaft by supporting inboard bearing and pressing shaft thru bearings. Press on driver end of shaft.
- Step #18. □ To install inboard bearing, support inner race of bearing and press shaft driver end first into bearing until it bottoms firmly against shaft shoulder. Slide bearing spacer (Key 10) over shaft against inboard bearing.
- Step #19. □ To install outboard bearing, support inner race of bearing and press shaft driver end first into bearing until it bottoms against bearing spacer (Key 10).
- Step #20. □ Push shaft and bearing assembly, driver end first, into bearing housing (Key 15) from body end side and secure with retaining ring (Key 17) in housing.
- Step #21. □ Install inboard bearing seal (Key 11) in bearing housing (Key 15) with lip facing impeller bore.
- Step #22. □ Install outboard bearing seal (Key 12) in bearing housing (Key 15) with lip facing driver end of shaft.
- Step #23. □ Follow steps 10□, 11□ and 12□.

## NOTE:

When servicing series 17020, seal collar (Key 9) installed on motor shaft is to be secured on assembly with set screw length from face of register shoulder to nearest face of collar to be 15/32".

---

For technical advice or service please take your pump into your local pump service center.  
To order pump or parts or for pricing please go to the following links :

[Jabsco Pumps Home >>](#)

[Jabsco Pumps stock list >>](#)