

Models: 17000-SERIES **17020-SERIES**



SELF-PRIMING **PUMPS**

FEATURES

Pump Series No .: 17000-Series Pedestal Mounted 17020-Series Motor Pump Unit

> Body: Glass-filled Epoxy Impeller: Neoprene, Nitrile or Viton*

Mechanical, Carbon-on-Ceramic, Nitrile Shaft Seal:

Ports: 3/8" NPT Internal

Shaft: Corrosion Resistant Steel with Epoxy

Drive Sleeve

Motor: 115 Vac, Single Phase, 60Hz, 1/4 HP.

1725 RPM, TEFC, overload protected.

capacitor start. Three-pronged

grounded plug.

Weight: 17000-Series 3-1/2 lb (1,6 kg)

17020-Series 21 lb (9,5 kg)

VARIATIONS AVAILABLE

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

△ 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.

1. INSTALLATION - Pump may be mounted in any position. The rotation of the pump shaft determines the !ccation 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.

- 2. 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.
- 3. SPEEDS 100 RPM to the maximum shown in the performance table. For longer pump life, operate at lowest possible speeds.

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.

- 4. 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.
- 5. 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.
- 6. DISCHARGE LINE When transferring liquids further than 25 feet, discharge line size should be increased to 1/2" nominal pipe diameter.

(Cont.)

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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/cm²) for Neoprene and Nitrile impellers and 18 psi (1,3 kg/cm²) 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

PLIMPS WHICH HAVE HANDLED CORROSIVE CALISTIC OR TOXIC FLUIDS SHOULD BE DRAINED

	TO REPLACE IMPELLER:	то	SERVICE BEARING HOUSING:
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 #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 #3. ●	Grasp the hub of impeller with water pump type pliers and, with a rotary twist motion, withdraw the impeller from body bore.	Step #15. ●	Remove shaft and bearing assembly from body end of pedestal (Key 15) by pressing on drive end of shaft.
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	Step #16. ●	
Step #5.	Install pump head on the bearing housing (Key 15) or adaptor (Key 20) — locating drive flats in the impeller insert drive.	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.
	Install O- ring in end cover and secure to pump head with bolts, washers and wing nuts.	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 #7.	O REPLACE SEAL ASSEMBLY: Follow step 1 ♠, 2 ♠, and 3 ♠. Remove seal seat and grommet from body seal bore (Key 6). Lubricate with water to	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).
	facilitate seal removal. Insert screwdriver beneath seal seat and pry out of body seal bore.	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 #9.	Remove drive sleeve (Key 7) from shaft. Remove seal face and seal spring from drive sleeve.	Step #21.	Install inboard bearing seal (Key 11) in bearing housing (Key 15) with lip facing impeller
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 #22. □	Install outboard bearing seal (Key 12) in bearing housing (Key 15) with lip facing driver end of shaft.
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.	NOTE:	Follow steps 10 _, 11 _ and 12 g series 17020, seal collar (Key 9) installed on
Step #12. □	Assemble impeller body and end cover as in steps 4 , 5 and 6.	motor shaft length from collar to be 15	s to be secured on assembly with set screw face of register shoulder to nearest face of 32".

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