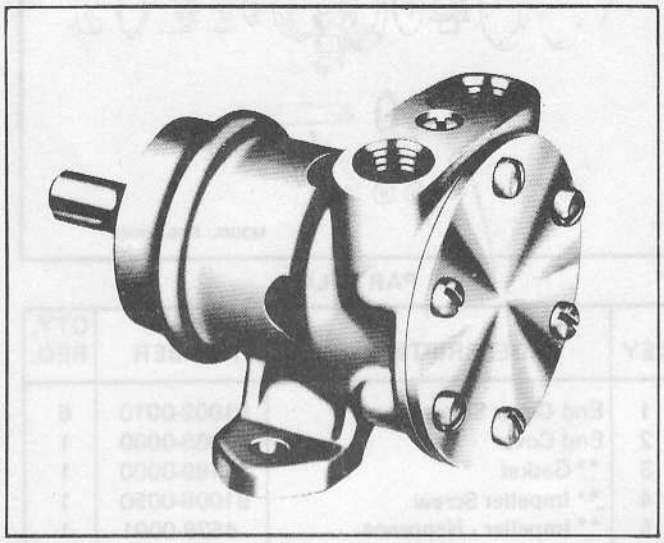
# Model 2760-SERIES



## SELF-PRIMING PUMPS

### FEATURES

| | |
|---|---|
| Body: | Bronze |
| Impeller: | Neoprene, Nitrile |
| Shaft: | Stainless Steel |
| Wear Plate: | Replaceable |
| Shaft Seal: | Lip Type |
| Bearings: | Sealed Ball Bearing |
| Ports: | 1/4" NPT Internal |
| Weight: | 1-1/2 lbs (0,7 kg) (approx.) |

VARIATIONS AVAILABLE: 2760-0001 Neoprene Impeller
2760-0003 Nitrile Impeller

### APPLICATIONS

MARINE: Engine cooling, Pumping bilges, Washdowns, Circulating water in bait tanks.

INDUSTRIAL: Circulating and transferring, Velocity-mixing, Pumping machine tool coolants, Return spill, Sump drainage, Chemicals, Pharmaceuticals, Soap, Liquors, Ink, Dyes, Alcohol, Various acids, Tanning liquors, Glycerine, Brine,



## OPERATING INSTRUCTIONS

1. **INSTALLATION** – Pump may be mounted in any position. Intake and discharge ports are determined by the direction of shaft rotation (refer to Dimensional Drawing). Before installing, turn the pump shaft in the direction of the operating rotation.
2. **DRIVE** – Belt or Direct with flexible coupling.

   **BELT DRIVE** – Overtight belt load will reduce bearing life.

   **WARNING: EXPOSED PULLEYS AND BELTS CAN CAUSE INJURY. INSTALL SHIELD AROUND PULLEYS AND BELTS.**

   **DIRECT DRIVE** – Clearance should be left between drive shaft and pump shaft when installing coupling. Always mount and align pump and drive shaft before tightening the coupling set screw.

   NOTICE: If drive pulley or coupling must be pressed on shaft, remove end cover and impeller and support shaft from impeller end during press operation. Do not hammer a pulley or coupling on shaft. Failure to follow above instructions can damage the pump.
3. **SPEEDS** – 100 RPM to the maximum shown in the performance table. Consult the factory for operation at speeds above those shown. For longer pump life, operate at lowest possible speeds.
4. **SELF-PRIMING** – Primes at low or high speeds. For vertical dry suction lift of 10 feet, a minimum of 800 RPM is required. Pump will produce suction lift up to 22 feet when wetted. BE SURE SUCTION LINES ARE AIRTIGHT OR PUMP WILL NOT SELF-PRIME.
5. **RUNNING DRY** – Unit depends on liquid pumped for lubrication. **CAUTION:** Do not run dry for more than 30 seconds. Lack of liquid will damage the impeller.
6. NOTICE: If pumping light fraction petroleum derivatives, solvents, thinners, highly concentrated or organic acids, consult Jabsco Chemical Resistance Table (which is available upon request from ITT Jabsco) for proper body materials and impeller compounds. If corrosives fluids are handled, pump life will be prolonged if pump is flushed with water after each use or after each work day.
7. **PRESSURES** – Consult Head Capacity Table for recommended maximum for continuous operation. If pressures exceed those shown, consult the factory.
8. **TEMPERATURES** – Neoprene 45° - 180°F (7° - 82°C) Nitrile 50° - 180°F (10° - 82°C).
9. **FREEZING WEATHER** – Drain unit by loosening end cover.
10. **GASKET** – Use a standard pump part. Thicker gasket will reduce priming ability. A thinner gasket will cause the impeller to bind. Standard gasket is 0.010" thick.
11. **SPARE PARTS** – To avoid costly shut downs, keep a JABSCO Service Kit on hand.

### HEAD CAPACITY TABLE

| TOTAL HEAD | | 500 RPM | | 1160 RPM | | 1750 RPM | | 2100 RPM | | 2450 RPM | | 3000 RPM | | 3600 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PSI (kg/sq cm) | Ft. of Water (Metre) | GPM (L/Min) | HP | GPM (L/Min) | HP | GPM (L/Min) | HP | GPM (L/Min) | HP | GPM (L/Min) | HP | GPM (L/Min) | HP | GPM (L/Min) | HP |
| 4.3 (0,3) | 10 (3) | 1.2 (4,5) | 1/12 | 2.6 (9,8) | 1/6 | 3.9 (14,8) | 1/6 | 4.6 (17,7) | 1/4 | 5.2 (19,6) | 1/4 | 6.1 (23) | 1/4 | 6.9 (26,1) | 1/3 |
| 8.7 (0,6) | 20 (6) | 1.1 (4) | 1/12 | 2.4 (10,5) | 1/6 | 3.6 (13,6) | 1/6 | 4.3 (16,2) | 1/4 | 4.8 (18) | 1/4 | 5.6 (21,1) | 1/4 | 6.5 (24,9) | 1/3 |
| 13.0 (0,9) | 30 (9) | 0.8 (3) | 1/12 | 2.1 (7,8) | 1/6 | 3.1 (11,7) | 1/6 | 3.8 (14,4) | 1/4 | 4.2 (15,9) | 1/4 | 5.1 (19,2) | 1/3 | 5.9 (22,3) | 1/3 |
| 17.3 (1,2) | 40 (12) | | | 1.7 (6,4) | 1/6 | 2.6 (9,8) | 1/6 | 3.2 (12,1) | 1/4 | 3.7 (13,9) | 1/4 | 4.5 (16,9) | 1/3 | 5.2 (19,6) | 1/3 |
| 21.6 (1,5) | 50 (15) | | | | | | | 2.5 (9,3) | 1/4 | 3.0 (11,3) | 1/4 | 3.8 (14,4) | 1/3 | 4.5 (16,9) | 1/3 |

NOTE: Progressively longer life may be expected as operating pressures and speeds are reduced. Factory Application Engineering assistance suggested for operation in light shaded area and recommended for heavy shaded area. Capacitor type motor recommended. Table shows approximate Head-Flow for new pump in U.S. gallons per minute.

## SERVICE INSTRUCTIONS

**Impeller Replacement:** Remove end cover screws, end cover and gasket. Grasp impeller hub with water pump pliers and pull straight out of body. Lubricate impeller bore. With rotary motion, begin putting impeller in body bore. Once started, line up impeller screw with slot in shaft and push impeller straight into body. Lubricate face of impeller, install gasket, end cover, and secure with end cover screws.

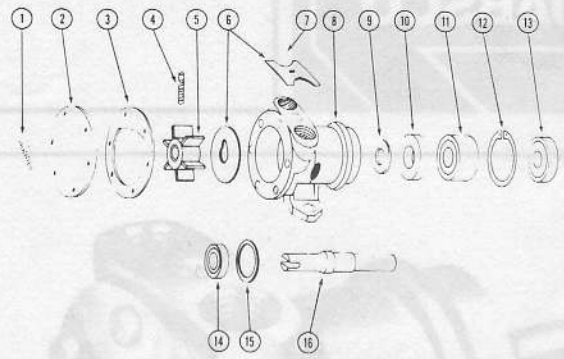
**Major Repair:** Follow steps outlined above to remove impeller. Remove outer bearing seal, remove bearing to body retaining ring. Pressing on impeller end of shaft, remove shaft and bearing assembly. Remove inner bearing seal. Remove slinger from inside bearing housing. Remove cam and wearplate from impeller bore. Clean sealant off of cam top. Remove seal and O-ring. Use care not to scratch or mar O-ring groove or seal bore. Supporting bearing inner race, press shaft through bearing.

## ASSEMBLY

Press bearing on shaft. Use care to support inner race of bearing. Drop slinger into bearing bore. Lubricate inner bearing seal with water pump grease or equivalent, and press into body bearing seal bore with lip facing away from bearing. Insert slotted end of shaft into bearing bore, aligning slinger on shaft and pressing on bearing outer race, press bearing and shaft assembly into bore. Install bearing to body retaining ring in body groove with flat side toward bearing.

Lubricate outer bearing seal with grease and press into bore until flush with body. Install seal in place, using care to protect lip from burrs or protrusions on shaft. Lip of seal must face impeller bore. Place O-ring in recess between lip seal and body. Install wearplate and cam assembly. Apply a thin coat of sealant to top of cam and cam screw threads, tighten cam screw making sure cam is flush with end cover surface. Replace impeller, gasket and end cover as outlined above.

## EXPLODED VIEW



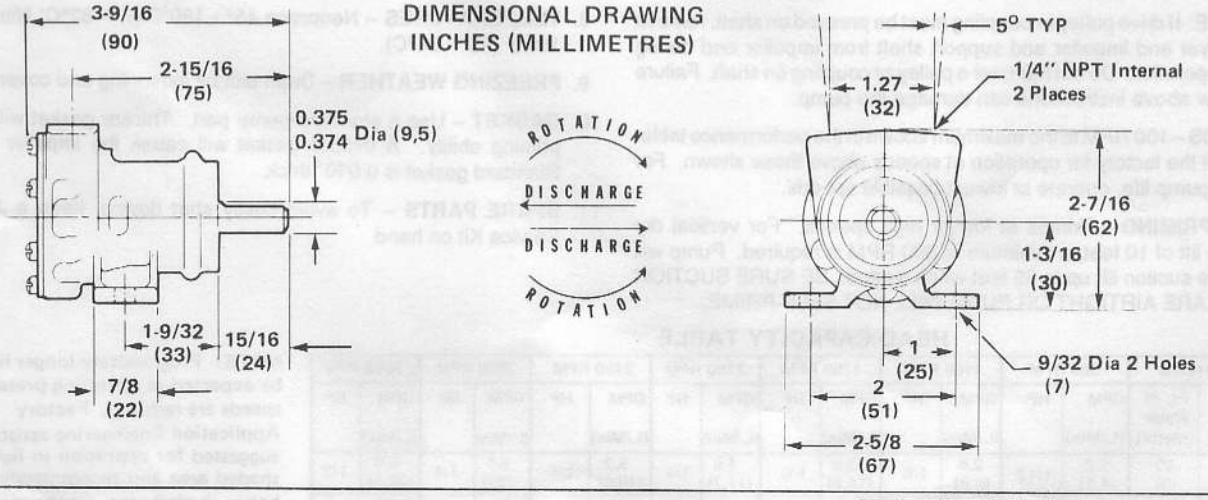

MODEL: 2760-SERIES

## PARTS LIST

| KEY | DESCRIPTION | PART NUMBER | QTY. REQ. |
|---|---|---|---|
| 1 | End Cover Screw | 91002-0010 | 6 |
| 2 | End Cover | 12066-0000 | 1 |
| 3 | ** Gasket | 1189-0000 | 1 |
| 4 | ** Impeller Screw | 91009-0050 | 1 |
| 5 | ** Impeller - Neoprene | 4528-0001 | 1 |
| | Nitrile | 4528-0003 | |
| 6 | Wearplate & Cam Assembly | 4271-0000 | 1 |
| 7 | Cam Screw | 91002-0030 | 1 |
| 8 | Body | 2767-0000 | 1 |
| 9 | Slinger | 6342-0000 | 1 |
| 10 | Inner Bearing Seal | 1041-0000 | 1 |
| 11 | Ball Bearing | 92600-0080 | 1 |
| 12 | Retaining Ring (Brg. to Body) | 18717-0000 | 1 |
| 13 | Outer Bearing Seal | 1039-0000 | 1 |
| 14 | ** Seal | 92700-0110 | 1 |
| 15 | ** O-Ring | 92000-0560 | 1 |
| 16 | Shaft | 1053-0000 | 1 |
| | Service Kit - Neoprene | 90023-0001 | |
| | Nitrile | 90023-0003 | |

** Parts supplied in Service Kit

## DIMENSIONAL DRAWING
## INCHES (MILLIMETRES)




The products described herein are subject to the JABSCO one year Limited Warranty, which is available for your inspection upon request.


ITT Jabsco
ITT Fluid Technology Corporation
*1485 Dale Way, P.O. Box 2158, Costa Mesa, CA 92628-2158*
*Tel: (714) 545-8251; Fax: (714) 957-0609*
*Bingley Road, Hoddesdon, Hertfordshire EN11 OBU, England*
*Tel: 0992-467191; Tlx: 263251 G; Fax: 0992-467132*




Form: 43000-0224 Rev. 3/93