



Models 15510-9775
 15530-9775
 15550-9775
 15570-9765

JABSCO SANITARY PUMPS

FEATURES

Body: Type 316 Stainless Steel
Impeller: Jabsco Neoprene Compound
Shaft: Type 316 Stainless Steel
Seal: Mechanical, Carbon-on-Ceramic, Nitrile
Bearings: Roller and Ball Bearings
Ports: 1½" or 2" Clamp Type
Weight: 15510-Series 9lb (approx.)
 15530-Series 15lb (approx.)
 15550-Series 21lb (approx.)
 15570-Series 39lb (approx.)

VARIATIONS AVAILABLE

| Variation | 10 GPM | 25 GPM | 50 GPM | 100 GPM |
|-----------------------------------|------------|------------|------------|------------|
| Port Size | 1-1/2" | 1-1/2" | 2" | 2" |
| Neoprene Impeller and Clamp Ports | 15510-9775 | 15530-9775 | 15550-9775 | 15570-9765 |

APPLICATIONS AND OPERATING INSTRUCTIONS

Some of the many diverse products handled by Jabsco pumps include:

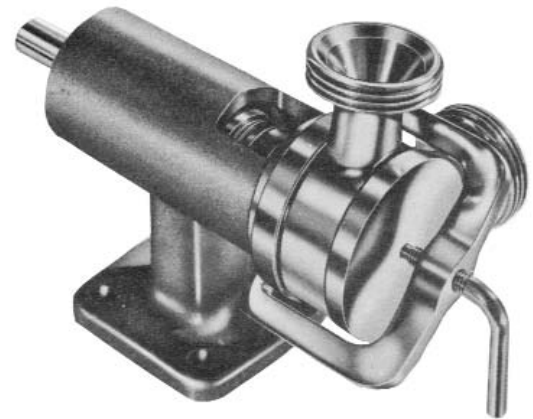
DAIRY PROCESSING – Buttermilk, Condensed Milk, Cream, Milk Whey, Eggs and other assorted dairy products.

FOOD PROCESSING – Sugar liquors, Brines, Catsup, Chocolate, Glaze, Gelatin, Honey, Jams, Jellies, Mayonnaise, Molasses, Mustard, Pickle Relish, Vinegar, Water, Yeast Slurries.

BEVERAGE PROCESSING – Alcohol, Beer, Brewery Slop, Cider, Distillery Wort, Extracts, Flavors, Juice, Mash, Soft Drinks, Wines.

MISCELLANEOUS – Chemicals, Cosmetics, Pharmaceuticals.

1. **INSTALLATION** – Pump may be mounted in any position. The rotation of the pump shaft determines the locations 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 counter clockwise rotation is desired, follow steps 1, 2 & 3 of disassembly and steps 3, 4 & 5 of assembly instructions to change direction of impeller blade deflection under cam. Before use, rotate pump shaft in direction of operating rotation.



2. **DRIVE** – Belt or Direct.

BELT – Proper belt tension will insure optimum performance, bearing and belt life.

DIRECT – Clearance should be left between drive shaft and pump shaft when installing coupling. Mount and align pump and drive shaft before tightening set screw. Flexible coupling usually desirable.

NOTE: Capacitor type motor is required.

3. **SPEEDS** – 100 RPM to maximum shown in performance table. Speed determines pump capacity. For maximum pump life, operate at lowest possible speeds. Refer to the viscosity/speed chart for maximum allowable speeds.

4. **SELF-PRIMING** – Primes at low or high speeds. For vertical dry suction lift of 10 feet, a minimum of 1,000 RPM is required. Pump can produce up to 20 feet of lift when wetted. **INTAKE LINES MUST BE AIRTIGHT** to prevent product foaming and to assure self-priming. Self-priming is reduced when pumping higher viscosity fluids. Consult factory.

5. **RUNNING DRY** – The impeller is lubricated by the product being pumped. **DO NOT RUN DRY** for more than 30 seconds. Lack of liquid may damage the impeller.

6. **TEMPERATURES** – 40°F – 150°F. Consult factory for impeller recommendation on applications outside this range.

7. **PRESSURES** – Consult performance chart. Line losses due to product viscosity must be considered when calculating operating pressures.

| | |
|--|--|
| | WARNING Injury hazard. Exposed pulleys and belts can cause injury. Install shield around pulleys and belts. Stay clear while machinery is operating. |
|--|--|

HEAD CAPACITY TABLE

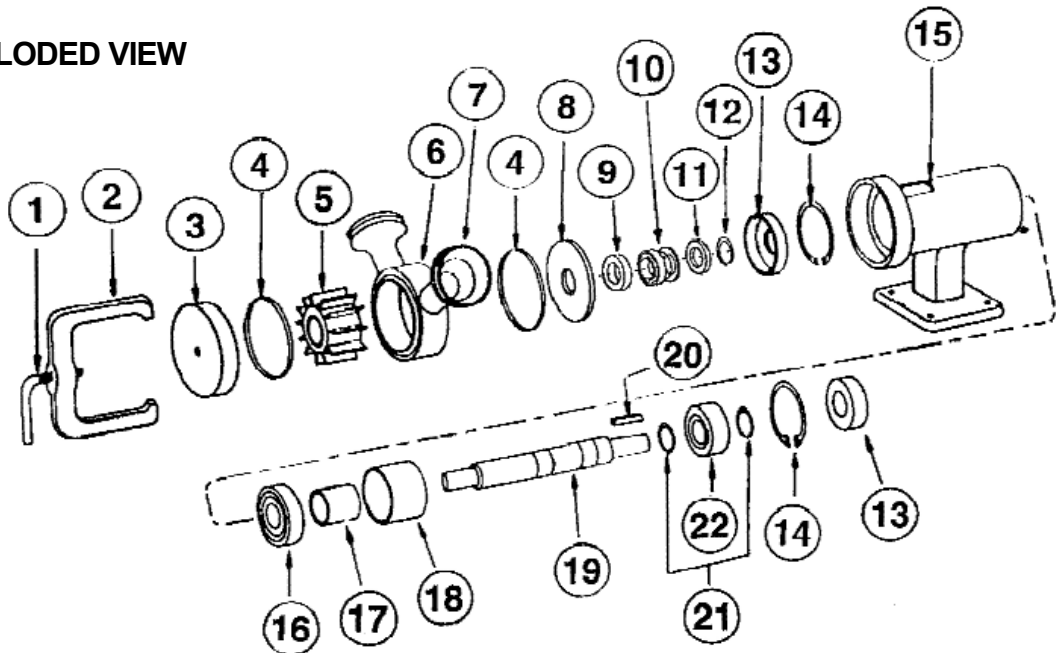
| | TOTAL HEAD | | 500 RPM | | 1150 RPM | | 1750 RPM | |
|-----------------------------------|------------|---------------|---------|-----|----------|-------|----------|-----|
| | PSI | Feet of Water | GPM | H.P | GPM | H.P | GPM | H.P |
| 15510-Series High Pressure | 8.7 | 20 | 2.9 | 1/6 | 6.9 | 1/3 | 10.4 | 1/2 |
| | 17.3 | 40 | 2.7 | 1/6 | 5.2 | 1/3 | 8.7 | 1/2 |
| | 26.0 | 60 | 2.3 | 1/6 | 3.0 | 1/2 | 6.2 | 1/2 |
| | 34.6 | 80 | | | | | 4.0 | 3/4 |
| 15530-Series Standard Pressure | 4.3 | 10 | | | 16.5 | 1/3 | 25.5 | 3/4 |
| | 8.7 | 20 | 8.0 | 1/6 | 16.0 | 1/3 | 24.6 | 3/4 |
| | 17.3 | 40 | 7.5 | 1/4 | 14.3 | 1/3 | 23.0 | 3/4 |
| | 26.0 | 60 | 5.4 | 1/4 | 12.8 | 1/2 | 21.0 | 1 |
| 15550-Series High Pressure | 8.7 | 20 | 16.5 | 3/4 | 37.4 | 1-1/2 | 54.8 | 3 |
| | 21.6 | 50 | 15.5 | 3/4 | 36.8 | 2 | 53.7 | 3 |
| | 34.6 | 80 | 14.0 | 3/4 | 35.0 | 2 | 51.8 | 5 |
| | 47.6 | 110 | 12.5 | 1 | 32.7 | 2 | 48.5 | 5 |
| 15570-Series Standard Pressure | 8.7 | 4.3 | | | 72.0 | 2 | 102.0 | 3 |
| | 17.3 | 8.7 | 25.5 | 3/4 | 65.0 | 3 | 91.0 | 5 |
| | 21.6 | 17.3 | 20.0 | 1 | 62.0 | 3 | 84.0 | 5 |
| | 26.0 | 26.0 | 17.0 | 1 | 57.0 | 3 | 77.0 | 5 |
| | 30.3 | 34.6 | | | | | 67.0 | 5 |

Table shows approximate head-flow for new pump handling water. Use capacitor start motor. For operation at speeds not shown, contact factory for application engineering assistance. Progressively longer life may be expected as operating speeds and pressures are reduced. Table shows approximate head-flow for new pump in U.S. gallons.

PUMP SPEED SELECTION ACCORDING TO PRODUCT VISCOSITY

| Viscosity S.S.U. | Pump Speed (Max. RPM) | Viscosity S.S.U. | Pump Speed (Max. RPM) | Viscosity S.S.U. | Pump Speed (Max. RPM) | Viscosity S.S.U. | Pump Speed (Max. RPM) |
|------------------|-----------------------|------------------|-----------------------|------------------|-----------------------|------------------|-----------------------|
| 50 | 1750 | 700 | 1680 | 4000 | 1400 | 15000 | 787 |
| 100 | 1750 | 800 | 1645 | 5000 | 1312 | 20000 | 700 |
| 200 | 1750 | 900 | 1610 | 6000 | 1225 | 30000 | 612 |
| 300 | 1750 | 1000 | 1575 | 7000 | 1138 | 40000 | 525 |
| 400 | 1750 | 1500 | 1540 | 8000 | 1050 | 50000 | 437 |
| 500 | 1750 | 2000 | 1505 | 9000 | 962 | 75000 | 298 |
| 600 | 1750 | 3000 | 1450 | 10000 | 875 | 100000 | 175 |

EXPLODED VIEW



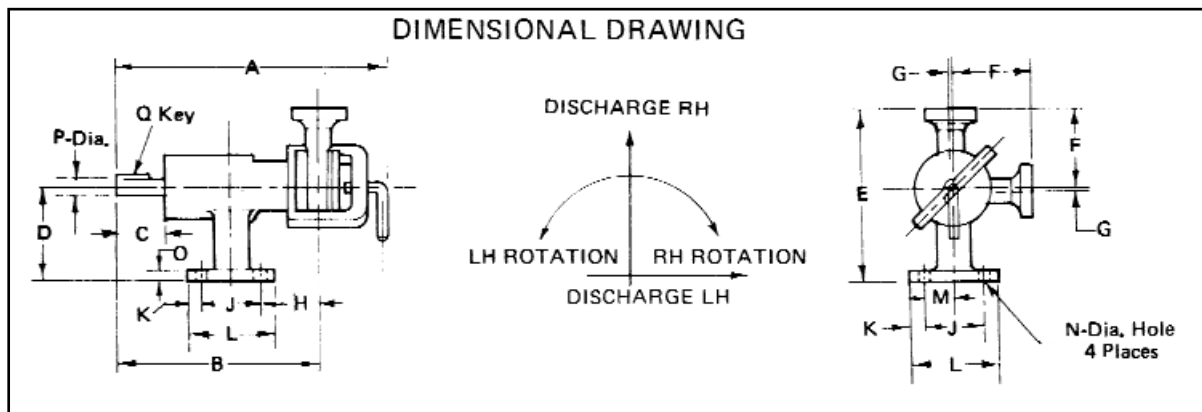
PARTS LIST

| Model 15510-9775 | | | |
|------------------|--------------------------------------|------------|----------|
| Key | Description | Part # | Quantity |
| 1 | Clamp Screw | 10408-0010 | 1 |
| 2 | Clamp | 12695-0000 | 1 |
| 3 | End Cover | 15511-0000 | 1 |
| 4 | O-Ring | 92000-0290 | 2 |
| 5 | Impeller (High Pressure Neoprene) | 8980-0005 | 1 |
| 6 | Body | 1513-0000 | 1 |
| 7 | O-Ring (Clamp Port) | 92000-0710 | 2 |
| 8 | Waerplate | 15512-0000 | 1 |
| 9 | Seal, Seat | 96080-0558 | 1 |
| 10 | Seal, Mechanical | 96080-0557 | 1 |
| 11 | Washer, Flat | 91613-1434 | 1 |
| 12 | Retaining Ring | 91701-4444 | 2 |
| 13 | Seal, Lip | 92701-0110 | 2 |
| 14 | Retaining Ring | 91700-3024 | 1 |
| 15 | Bearing Housing | 15514-0000 | 1 |
| 16 | Bearing (Roller) | 92601-0350 | 1 |
| 17 | Bearing Spacer, Inner | 10693-0010 | 1 |
| 18 | Bearing Spacer, Outer | 10449-0010 | 1 |
| 19 | Shaft | 15515-0000 | 1 |
| 20 | Key | 9215-0000 | 1 |
| 21 | Retaining Ring | 91700-2470 | 2 |
| 22 | Bearing (Ball) | 82601-0330 | 1 |

| Model 15530-9775 | | | |
|------------------|---------------------------------|------------|----------|
| Key | Description | Part # | Quantity |
| 1 | Clamp Screw | 9551-0010 | 1 |
| 2 | Clamp | 12698-0000 | 1 |
| 3 | End Cover | 15531-0000 | 1 |
| 4 | O-Ring | 92000-0310 | 2 |
| 5 | Impeller (Standard Neoprene) | 8981-0005 | 1 |
| 6 | Body | 15533-0000 | 1 |
| 7 | O-Ring (Clamp Port) | 92000-0710 | 2 |
| 8 | Waerplate | 1532-0000 | 1 |
| 9 | Seal, Seat | 96080-0558 | 1 |
| 10 | Seal, Mechanical | 96080-0557 | 1 |
| 11 | Washer, Flat | 91613-1434 | 1 |
| 12 | Retaining Ring | 91701-0260 | 2 |
| 13 | Seal, Lip | 92701-0170 | 2 |
| 14 | Retaining Ring | 91700-3024 | 1 |
| 15 | Bearing Housing | 15534-0000 | 1 |
| 16 | Bearing (Roller) | 92601-0340 | 1 |
| 17 | Bearing Spacer, Inner | 10428-0010 | 1 |
| 18 | Bearing Spacer, Outer | 10525-0010 | 1 |
| 19 | Shaft | 15535-0000 | 1 |
| 20 | Key | 9215-0000 | 1 |
| 21 | Retaining Ring | 91700-0980 | 2 |
| 22 | Bearing (Ball) | 92601-0300 | 1 |

| Model 15550-9775 | | | |
|------------------|--------------------------------------|------------|----------|
| Key | Description | Part # | Quantity |
| 1 | Clamp Screw | 10697-0010 | 1 |
| 2 | Clamp | 12990-0000 | 1 |
| 3 | End Cover | 15551-0000 | 1 |
| 4 | O-Ring | 92000-0040 | 2 |
| 5 | Impeller (High Pressure Neoprene) | 8983-0005 | 1 |
| 6 | Body | 15553-0000 | 1 |
| 7 | O-Ring (Clamp Port) | 92000-0730 | 2 |
| 8 | Waerplate | 15552-0000 | 1 |
| 9 | Seal, Seat | 96080-0580 | 1 |
| 10 | Seal, Mechanical | 96080-0559 | 1 |
| 11 | Washer, Flat | 15557-0000 | 1 |
| 12 | Retaining Ring | 91701-2830 | 2 |
| 13 | Seal, Lip | 92702-0780 | 2 |
| 14 | Retaining Ring | 91700-3023 | 1 |
| 15 | Bearing Housing | 15554-0000 | 1 |
| 16 | N/A | | |
| 17 | Bearing Spacer, Inner | 10539-0010 | 1 |
| 18 | Bearing Spacer, Outer | 10291-0010 | 1 |
| 19 | Shaft | 15555-0000 | 1 |
| 20 | Key | 9214-0000 | 1 |
| 21 | Retaining Ring | 91700-1180 | 1 |
| 22 | Bearing (Ball) | 18753-0007 | 2 |

| Model 15570-9765 | | | |
|------------------|---------------------------------|------------|----------|
| Key | Description | Part # | Quantity |
| 1 | Clamp Screw | 18024-0000 | 1 |
| 2 | Clamp | 12927-0000 | 1 |
| 3 | End Cover | 15571-0000 | 1 |
| 4 | O-Ring | 92000-0300 | 2 |
| 5 | Impeller (Standard Neoprene) | 8984-0005 | 1 |
| 6 | Body | 15573-0000 | 1 |
| 7 | O-Ring (Clamp Port) | 92000-0410 | 2 |
| 8 | Waerplate | 15572-0000 | 1 |
| 9 | Seal, Seat | 96080-0560 | 1 |
| 10 | Seal, Mechanical | 96080-0561 | 1 |
| 11 | Washer, Flat | 15577-0000 | 1 |
| 12 | Retaining Ring | 91701-4370 | 2 |
| 13 | Seal, Lip | 92700-0870 | 2 |
| 14 | Retaining Ring | 91700-3022 | 1 |
| 15 | Bearing Housing | 15574-0000 | 1 |
| 16 | Bearing (Roller) | 92601-0240 | 1 |
| 17 | Bearing Spacer, Inner | 10378-0010 | 1 |
| 18 | Bearing Spacer, Outer | 10321-0010 | 1 |
| 19 | Shaft | 15575-0000 | 1 |
| 20 | Key | 8448-0000 | 1 |
| 21 | Retaining Ring | 91700-1370 | 1 |
| 22 | Bearing (Ball) | 92601-0230 | 2 |



| MODEL | PORT | I.D. | A | B | C | D | E | F | G | H | J | K | L | M | N | O | P | Q |
|--------------|-------------|--------|--------|---------|---------|-------|-------|-------|------|--------|-------|-----|-------|--------|-------|-------|-------|---------------------|
| 15510-SERIES | 1 1/2 Clamp | 1 1/16 | 10 1/4 | 7 9/16 | 1 3/4 | 3 1/2 | 6 1/4 | 2 3/4 | 1/8 | 2 1/4 | 2 1/4 | 1/2 | 3 1/4 | 1 1/8 | 13/32 | 3/8 | 5/8 | 3/16 x 3/16 x 1 1/8 |
| 15530-SERIES | 1 1/2 Clamp | 1 | 12 5/8 | 9 5/16 | 2 11/16 | 4 1/2 | 7 1/4 | 2 3/4 | 1/8 | 2 7/16 | 2 5/8 | 1/2 | 3 5/8 | 1 5/16 | 13/32 | 13/32 | 7/8 | 3/16 x 3/16 x 1 1/8 |
| 15550-SERIES | 2 Clamp | 1 1/4 | 13 3/4 | 10 | 2 7/8 | 4 1/2 | 7 7/8 | 3 3/8 | 1/16 | 3 | 2 5/8 | 1/2 | 3 5/8 | 1 5/16 | 13/32 | 7/16 | 1 1/8 | 1/4 x 1/4 x 1 1/2 |
| 15570-SERIES | 2 Clamp | 1 1/8 | 18 1/4 | 13 1/16 | 4 1/4 | 4 1/2 | 8 1/4 | 3 3/4 | 3/16 | 3 1/2 | 3 | 1/2 | 4 | 1 1/2 | 17/32 | 1/2 | 1 3/8 | 5/16 x 5/16 x 2 |

All dimensions are in inches

SERVICE INSTRUCTIONS – ALL MODEL PUMPS ASSEMBLY AND DISASSEMBLY OF PUMP HEAD

Before using pump, it should be disassembled and cleaned to remove any dust and dirt resulting from storage or shipping. Wash parts in standard cleaning solutions approved for handling stainless steel. Thoroughly rinse before reassembly. **DO NOT USE IODINE BASED SANITIZERS** as the iodine attacks the elastomer materials used in the impeller.

All parts have been expertly machined and polished. **HANDLE WITH CARE. DO NOT DROP OR MISHANDLE.**

DISASSEMBLY:

1. Remove end cover clamp, end cover and O-ring.
2. Grasp pump ports and slide pump body and impeller from shaft.
3. Remove O-ring and then push the impeller from the pump body.
4. Remove wearplate from pump.
5. Remove mechanical seal by inserting two screwdrivers behind seal collar, and gently lever collar and seal assembly forward on shaft. Use extreme care not to mar shaft surface. Remove seal seat and rubber cup from recess in wearplate.

ASSEMBLY:

1. Replace mechanical seal. Lightly lubricate shaft. Push on seal gently until it engages with washer, carbon face towards pump body. Fit rubber cup and seal seat into wearplate.
2. Slide wearplate seal seat assembly onto shaft until it mates with seal face.
3. Lubricate bore of pump body with Orange Solid Grease or suitable substitute and then replace impeller into pump body by twisting and pushing at the same time.
4. Lubricate and replace two O-rings on either side of body and install assembly on shaft. (Impeller blades bent under cam should point in opposite direction to operational rotation).
5. Position end cover and then replace end cover clamp. **CLAMP SHOULD BE HAND TIGHTENED.** Do not use wrench or hammer.

DETAILED DISASSEMBLY AND ASSEMBLY OF BEARING HOUSING

DISASSEMBLY:

1. Remove seal assembly from shaft.
2. Pry outer bearing seal from rear of bearing housing by inserting a screwdriver blade between O.D. of seal and housing bore. Remove housing retaining ring using retaining ring pliers.
3. Push on impeller drive end of shaft to remove shaft and bearing assembly. Outer race of front bearing and housing bearing will remain in housing.
4. Remove housing bearing spacer from housing.
5. Pry or tap out front bearing seal from housing bore and remove front retaining ring with retaining ring pliers.
6. Push outer race of front bearing from housing.
7. Remove retaining rings from shaft with retaining ring pliers. Use an arbor press to remove bearings from shaft. Roller bearing presses off toward impeller and ball bearing presses off toward drive end of shaft. Remove bearing spacer.

ASSEMBLY:

1. Push outer race of roller bearing into housing from impeller end. Install front housing retaining ring. Push outer race up against housing retaining ring.
2. Press front bearing seal into housing against front housing retaining ring (spring of lip seal faces outward).
3. Install large diameter bearing spacer into housing against outer race of bearing.
4. To replace bearing shaft:
 - (a) Install front shaft retaining ring.
 - (b) Press ball bearing on shaft against retaining ring (drive end of shaft).
 - (c) Install rear shaft retaining ring against ball bearing.
 - (d) Slide bearing spacer on shaft up to front retaining ring.
 - (e) Press roller bearing on shaft from impeller drive end up to spacer.
5. Liberally coat bearing race areas of bearings with bearing grease. Do not overpack with grease or overheating will occur.
6. From rear of housing, insert shaft/bearing assembly roller bearing first into housing taking care not to damage front bearing seal or bearings.
7. Install rear bearing seal into housing against retaining ring (with lip seal spring outward).
8. Replace seal assembly.

Jabsco



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