



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:

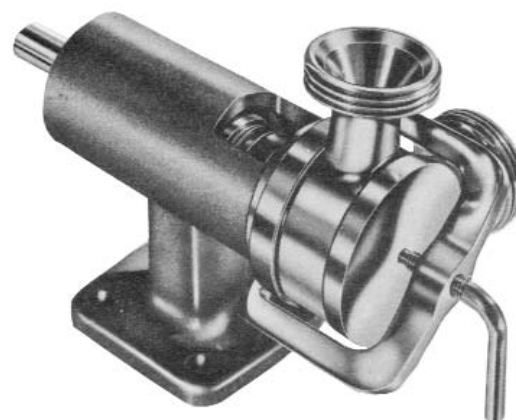
DAIRY PROCESSING – Buttermilk, Condensed Milk, Cream, Milk Whey, Eggs and other assorted dairy products.

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.



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

HEAD CAPACITY TABLE

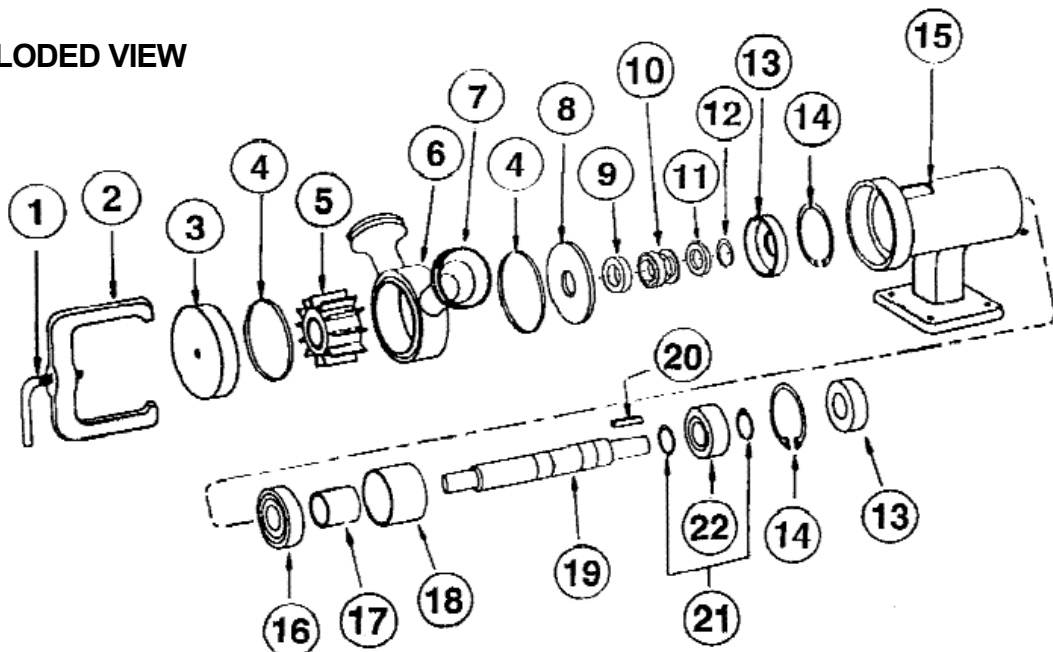
	TOTAL HEAD		500 RPM		1150 RPM		1750 RPM	
	PSI	Feet of Water	GPM	H.P	GPM	H.P	GPM	H.P
15510-Series High Pressure	8.7	20	2.9	1/6	6.9	1/3	10.4	1/2
	17.3	40	2.7	1/6	5.2	1/3	8.7	1/2
	26.0	60	2.3	1/6	3.0	1/2	6.2	1/2
	34.6	80					4.0	3/4
15530-Series Standard Pressure	4.3	10			16.5	1/3	25.5	3/4
	8.7	20	8.0	1/6	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	34.6	80					18.0	1
	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
15570-Series Standard Pressure	47.6	110	12.5	1	32.7	2	48.5	5
	60.5	140			28.5	2	43.2	5
	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



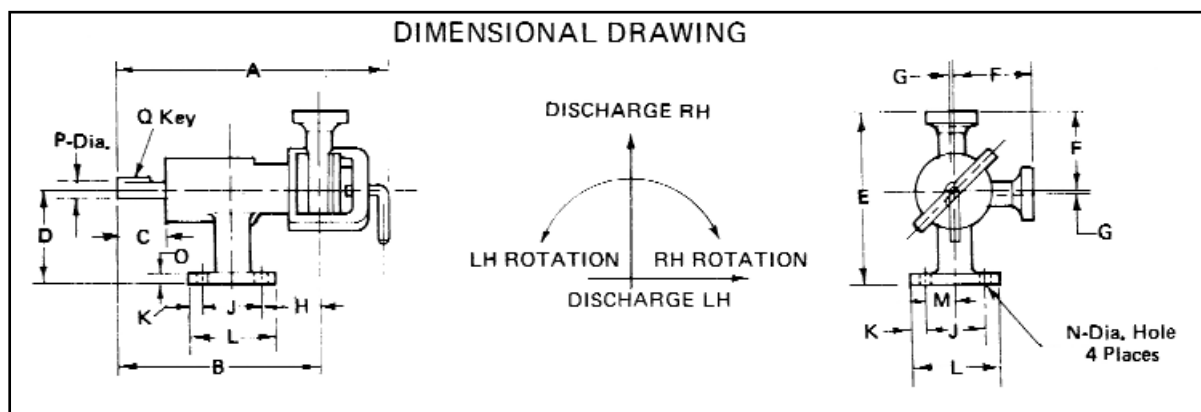
PARTS LIST

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 1/8	2 1/4	2 1/4	1/2	3 1/4	1 1/8	13/32	3/8	5/8	3 1/16 x 3 1/16 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 1/8	2 7/16	2 5/8	1/2	3 5/8	1 5/16	13/32	13/32	7/8	3 1/16 x 3 1/16 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 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 1/16	3 1/2	3	1/2	4	1 1/2	17/32	1/2	1 3/8	5 1/16 x 5 1/16 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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