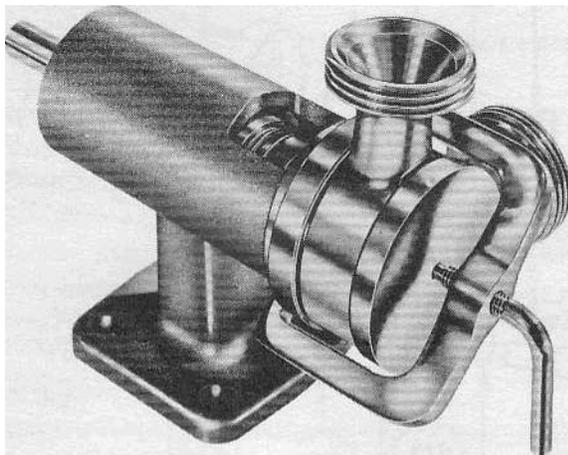




Models 15010-SERIES  
15030-SERIES  
15050-SERIES  
15070-SERIES



**PUREFLO® SANITARY PUMPS**  
FEATURES

- Body: Type316StainlessSteel
- Impeller: Jabsco Neoprene Compound
- Shaft: Type316 Stainless Steel
- Seal: Sanitary Mechanical Carbon Face
- Bearings: Roller and Ball Bearings
- Ports: 1-1/2" or 2" Acme Sanitary Threads with Bevel Seat or Clamp Type
- Weight: 15010-8er1e5 9lbs(approx.)  
15030-5er1es 1S lbs (approx.)  
15050-8er18s 21 lbs (approx.)  
15070-Series 391bs (approx.)

Models 15010-, 15030-, 15050-, 15070-Series

VARIATIONS AVAILABLE

VARIATION	10GPM	25GPM	50GPM	100GPM
Port Size	1 1/2"	1 1/2"	2"	2"
Standard Neorene Imoaller and Acme Ports	15010-0665	15030-0665	15050-0665	15070-0665
Standard Neorene Imoaller and Clamo Ports	15010-0765	15030-0765	15050-0765	15070-0765
High Pressure Neoprene Impeller and Acme Ports	15010-0675	15030-0675	15050-0675	
High Pressure Neoprene Impeller and Clamp Ports	15010-0775	15030-0775	15050-0775	

APPLICATIONS AND OPERATING INSTRUCTIONS

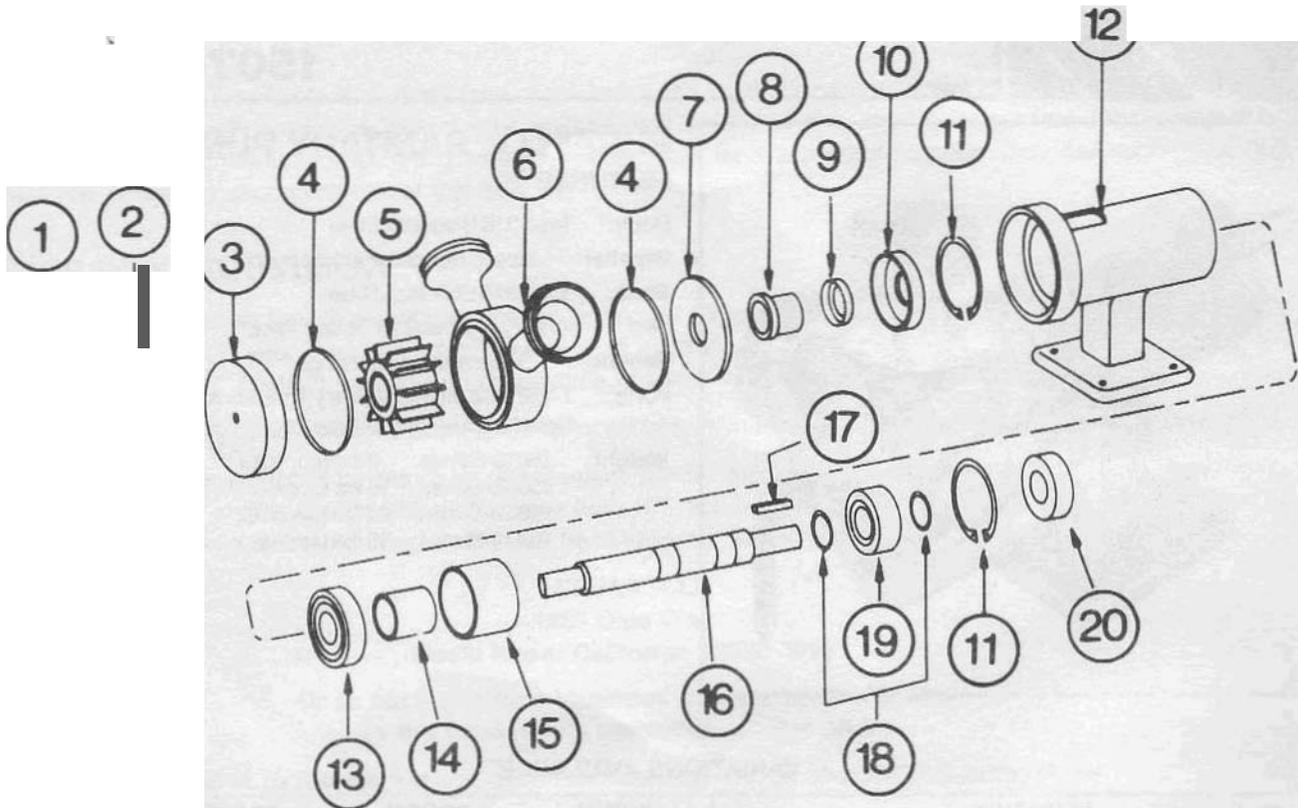
Some of the many diverse products handled by Pure/lo pumps include: DAIRY PROCESSING Buttermilk, Condensed Milk. Cream. Milk Whey, Eggs and other assorted dairy products, FOOD PROCESSING Sugar Liquors, Brines, Catsup, Chocolate. Glaze, Gelatin, Honey, Jams, Jellies, Mayonnaise, Molasses, Mustard, Pickle Relish. Vinegar, Water. Yeast Slurries. BEVERAGE PROCESSING Alcohols, Beers, 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 forclockwise rotation (looking at end cover). If counter clockwise rotation is desired, follow steps 1, 2&3ofdisassembly and steps 3, 4& 501 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.
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 wened. 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. Contact factory for Impeller recommendation on applications outside this range,
7. PRESSURES - Consult performance chart. When operating pressures approach the upper recommended ranges for standard pressure impellers, it is ordinarily desirable to use a high pressure model to increase impeller life. Line losses due to product viscosity must be considered when calculating operating pressures.

NOTE: Capacitor type motor is required.

WARNING: A SAFETY GUARD MUST BE INSTALLED WITH EITHER TYPE DRIVE.

EXPLODED VIEW



PART LIST

MODEL IS010-SERIES

KEY	DESCRIPTION	PART #	QTY.
1	Clamp Screw	10408-0010	1
2	Clamp	12695-0000	1
3	EndCover	10435-0001	1
4	O-Ring	92000-0290	2
5	Impeller (Standard Neoprene)	7614-0005	1
	(High Pressure Neoprene)	8980-0005	1
6	Body (Acme Thread)	15014-0061	1
	(Clamp Type)	15014-0071	1
7	O-Ring (Clamp Port)	92000-0710	2
8	Wearplate	10396-0010	1
9	Seal Assembly	7749-0000	1
10	Seal Collar	5307-0000	1
11	Allen Wrench	92351-0020	1
12	Seal (Roller Bearing)	92701-0110	1
13	Retaining Ring (Housing)	91700-2920	2
14	Bearing Housing	12234-0000	1
15	Bearing (Roller)	92601-0350	1
16	Bearing Spacer (Shaft)	10693-0010	1
17	Bearing Spacer (Housing)	10449-0010	1
18	Shaft	10447-0001	1
19	Key	9215-0000	1
20	Retaining Ring (Shaft)	91700-2470	2
21	Bearing (Ball)	92601-0330	1
22	Seal (Ball Bearing)	92701-0110	1
23	Service Kit (Standard Neoprene)	90072-0005	1
	(High Pressure Neoprene)	90073-0005	1

MODEL 15030-SERIES

KEY	DESCRIPTION	PART #	QTY.
1	Clamp Screw	9551-0010	1
2	Clamp	12696-0000	1
3	Endcover	10515-0001	1
4	O-Ring	92000-0310	2
5	Impeller (Standard Neoprene)	8981-0005	1
	(High Pressure Neoprene)	8840-0005	1
6	Body (Acme Thread)	15034-0061	1
	(Clamp Type)	15034-0071	1
7	O-Ring (Clamp Port)	92000-0710	2
8	Wearplate	10046-0010	1
9	Seal Assembly	8728-0000	1
10	Seal Collar	8727-0000	1
11	Allen Wrench	92351-0020	1
12	Seal (Roller Bearing)	92701-0170	1
13	Retaining Ring (Housing)	91701-0260	2
14	Bearing Housing	12658-0000	1
15	Bearing (Roller)	92601-0340	1
16	Bearing Spacer (Shaft)	10428-0010	1
17	Bearing Spacer (Housing)	10525-1010	1
18	Shaft	10517-0001	1
19	Key	9215-0000	1
20	Retaining Ring (Shaft)	91700-0980	2
21	Bearing (Ball)	92601-0300	1
22	Seal (Ball Bearing)	92701-0170	1
23	Service Kit (Standard Neoprene)	90089-0005	1
	(High Pressure Neoprene)	90090-0005	1

HEAD CAPACITY TABLE

	TOTAL HEAD		SOORPM		1160 RPM		1750 RPM	
	PSI	Feet Water	GPM	H.P.	GPM	H.P.	GPM	H.P.
1501o-SERIES	4.3	10	3.5	116	7.5	114	11.3	112
<b>Standard Pressure</b>	8.7	20	3.1	116	6.7	1/4	10.2	112
	<b>13.0</b>	30	2.6	116	5.5	113	9.0	112
	21.6	50					5.2	112
1501D-SERIES	8.7	20	2.9	1/6	6.9	1/3	10.4	112
<b>High Pressure</b>	17.3	40	2.7	1/6	5.2	1/3	8.7	112
	26.0	60	2.3	1/6	3.0	112	6.2	112
	34.6	80					4.0	3/4
<b>15030-SERIES</b>	4.3	10	8.0	1/6	16.5	1/3	25.5	3/4
<b>Standard Pressure</b>	8.7	20	7.5	114	16.0	1/3	24.6	3/4
	17.3	40	SA	114	14.3	1/3	23.0	3/4
	26.0	80			12.8	112	21.0	1
	34.6	80					18.0	1
<b>15030-SERIES</b>	17.3	40	7.0	1/3	15.0	3/4	22.8	1
<b>High Pressure</b>	26.0	60	6.3	1/3	13.8	3/4	21.9	1
	34.6	80	6.0	112	12.4	1	20.8	1
	51.5	120	4.5	112	9.1	1	17.1	1-112
	60.5	140			7.0	1	14.2	1-1/2
15050-SERIES	4.3	10	15.5	1/2	35.2	3/4	54.0	1-1/2
<b>Standard Pressure</b>	8.7	<b>20</b>	15.0	112	33.8	3/4	52.8	1-1/2
	17.3	40	13.5	1/2	29A	1	50.0	1-112
	26.0	60	" 3	1/2	23.2	<b>1-1/2</b>	46.0	2
	34.6	80					<b>41.4</b>	3
<b>15050-SERIES</b>	8.7	20	16.5	3/4	37.4	1-1/2	54.8	3
<b>High Pressure</b>	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
	80.5	140			28.5	2	43.2	5
1507o-SERIES	8.7	20	25.5	3/4	73.0	2	102.0	3
<b>Standard Pressure</b>	17.3	40	20.0	1	65.0	3	91.0	5
	21.6	50	17.0	1	61.0	3	84.0	5
	26.0	80			57.0	3	77.0	5
	30.3	70					67.0	5
1507D-SERIES	8.7	20	30.0	1	70.0	2		
<b>High Pressure</b>	17.3	40	26.0	1	66.0	3		
	26.0	60	23.0	1	62.0	3		
	34.6	80	18.0	1-1/2	56.0	3		
	43.3	100			50.0	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.	PumpSpeed (Max. RPM)	Viscosity S.S.U.	PumpSpeed (Max. RPM)	Viscosity S.S.U.	PumpSpeed (Max. RPM)	Viscosity S.S.U.	PumpSpeed (Max. RPM)
50	1750	700	1680	4,000	1400	15,000'	787
100	1750	800	1645	5,000	1312	20,000'	700
200	1750	900	1610	6,000	1225	30,000'	612
300	1750	1,000	1575	7,000	1136	40,000'	525
400	1750	1,500	1540	8,000	1050	50,000'	437
<b>500</b>	1750	2,000	1505	9,000	<b>962</b>	75,000'	298
<b>600</b>	1715	3,000	1450	10,000	875	100,000'	175

• Use High Pressure Impeller

MODEL 1S0So-SERIES

MODEL 1507Q-SERIES

KEY	DESCRIPTION	PART #	QTY.	KEY	DESCRIPTION	PART #	QTY.
1	Clamp Screw	10697-0010	1	1	ClampScrew	18024-0000	1
2	Clamp	<b>12996-0000</b>	1	2	Clamp	12927-0000	1
3	End Cover	10299-0001	1	3	End Cover	10345-0001	1
4	O-Ring	<b>92000-0040</b>	2	4	O-Ring	<b>92000-0030</b>	2
5	Impeller (Standard Neoprene)	<b>14346-0005</b>	1	5	Impeller (Standard Neoprene)	8963-0005	1
	(High Pressure Neoprene)	8983-0005	1		(High Pressure Neoprene)	<b>8600-0005</b>	1
6	Body (Acme Thread)	<b>15054-0061</b>	1	6	Body (Acme Thread)	<b>15074-0061</b>	1
	(Clamp Type)	15054-0071	1		(Clamp Type)	15074-0071	1
t	O-Ring (Clamp PM)	92000-0730	2	t	O-Ring (Clamp Port)	92000-0730	2
7	Wearplate	10276-0010	1	7	Wearplate	10346-0010	1
B	Seal Assembly	9023-0000	1	B	Seal Assembly	14052-0000	1
9	Seal Collar	7866-0000	1	9	Seal Collar	8248-0000	1
t	Allen Wrench	92351-0050	1	t	Allen Wrench	92351-0050	1
10	Seal (Roller Bearing)	92702-0780	1	10	Seal (Roller Bearing)	92700-0870	1
11	Retaining Ring (Housing)	91701-2830	2	11	Retaining Ring (Housing)	91701-4370	2
12	Bearing Housing	12944-0000	1	12	Bearing Housing	14028-0000	1
13	Bearing (Roller)	18753-0007	1	13	Bearing (Roller)	92601-0240	1
14	Bearing Spacer (Shall)	10539-0010	1	14	Bearing Spacer (Shall)	10378-0010	1
15	Bearing Spacer (HOUSing)	10291-0010	1	15	Bearing Spacer (Housing)	10351-0010	1
16	Shall	10277-0001	1	16	Shaft	10347-0001	1
17	K"	9214-0000	1	17	K"	8448-0000	1
16	Retaining Ring (Shall)	91700-1180	2	J	Retaining Ring	91700-1370	2
19	Bearing (Ball)	18753-0007	1	19	Bearing (Ball)	92601-0230	1
20	Seal (Ball Bearing)	92702-0780	1	20	Seal (Ball Bearing)	<b>92700-0870</b>	1
t	Service Kit (Standard Neoprene)	90093-0005		t	Service Kit (Standard Neoprene)	<b>90080-0035</b>	
	(High Pressure Neoprene)	90094-0005					



Parts **supplied** In **Service Kit**

t Not **Shown**

Parts **supplied** in **Service Kit**.

t Not **Shown**

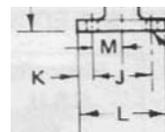
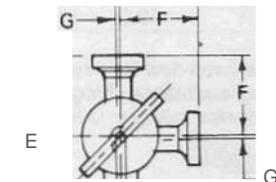
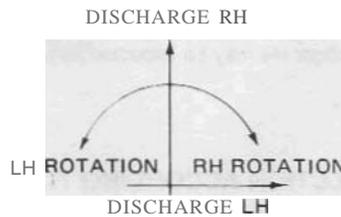
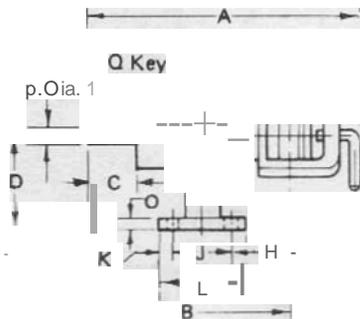
NOTE: Serial number of pump, which is found on the label, must be specified when ordering parts.

Explanation of Serial Numbers:

- Effective March 30, 1970 the serial number consists of Month and Year of manufacture. e.g. 570 May 1970.
- Prior 10 March, 1970

The first part of the serial number denotes the capacity of the pump. For example, serial number 100-3021 was used on a 100 GPM pump. The first number in the second series of digits denotes the year the pump was manufactured. For example, serial number 100-3021 reveals the pump was produced in 1963. The use of this digit is VERY IMPORTANT. A pump bearing the serial number 100-401 is a "later" number than serial number 100-3021. Pumps with serial number containing letter "A" are of a more recent design, except as noted in 1 above.

DIMENSIONAL DRAWING INCHES



N-Dia. Hole  
4 Places

MODEL	PORT	I.D.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	a
15010-Series	1 1/2 Acme	1"	10 3/8	7 1/2	1 3/4	3 1/2	6 7/8	2 15/16	1/8	2 1/2	2 1/2	1/2	3 1/2	1 1/8	1 3/32	3/8	5/8	3/16 x 3/16 x 1 1/8
	1" Clamp	1"	10 3/8	7 1/2	1 3/4	3 1/2	6 7/8	2 3/4	1/8	2 1/2	2 1/2	1/2	3 1/2	1 1/8	1 3/32	3/8	5/8	3/16 x 3/16 x 1 1/8
15030-Series	1 1/2 Acme	1"	12 5/8	9 5/8	2 1/16	4 1/2	7 1/2	3 3/4	1/8	2 7/8	2 5/8	1/2	3 5/8	1 5/16	1 3/8	1 3/8	7/8	3/16 x 3/16 x 1 1/8
	1 1/2 Clamp	1"	12 5/8	9 5/8	2 1/16	4 1/2	7 1/2	2 3/4	1/8	2 7/8	2 5/8	1/2	3 5/8	1 5/16	1 3/8	1 3/8	7/8	3/16 x 3/16 x 1 1/8
15050-Series	2 Acme	1 1/2"	13 3/4	10	2 7/8	4 1/2	8 1/2	3 3/4	1/8	3	2 5/8	1/2	3 5/8	1 5/16	1 3/32	7/16	1 1/2"	1" x 1" x 1 1/2"
	2 Clamp	1 1/2"	13 3/4	10	2 7/8	4 1/2	7 7/8	3 3/8	1/8	3	2 5/8	1/2	3 5/8	1 5/16	1 3/32	7/16	1 1/2"	1" x 1" x 1 1/2"
15070-Series	2 Acme	1 1/2"	18 1/2	13 1/8	4 1/2	4 1/2	8 5/8	4 1/8	3/8	3 1/2	3	1/2	4	1 1/2	1 7/32	1/2	1 3/8	5/16 x 5/16 x 2
	2 Clamp	1 1/2"	18 1/2	13 1/8	4 1/2	4 1/2	8 1/2	3 3/4	3/8	3 1/2	3	1/2	4	1"	1 7/32	1/2	1 3/8	5/16 x 5/16 x 2

## 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 a-ring and then push the impeller from the pump **body**.
4. Remove **wearplate** from pump
5. Slide seal assembly off the shaft. **DO NOT** damage the carbon seal face in handling. **DO NOT** **loosen** or remove seal collar, except as noted below.

### Assembly:

1. Slide seal assembly onto shaft (**carbon** face toward pump head).
2. Replace wearplate. **BE SURE THAT FLAT SIDE IS TOWARD PUMP HEAD AND THE SIDE WITH THE RAISED BOSS IS TOWARD CARBON FACE OF SEAL ASSEMBLY.**

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 same time.
4. 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.

**NOTE:** The seal collar is set at the factory to provide proper seal compression and should not require further adjustment.

**If adjustment is required:** **With** pump head disassembled; loosen two set screws on seal collar. **Replace** seal assembly on shaft and **then install** wearplate in REVERSE POSITION with **flat side** toward seal. While holding **wearplate** in position against adaptor, push seal assembly and seal collar against wearplate and **tighten** the two set screws in seal collar. Remove wearplate and replace to correct position with raised boss against carbon face of seal before assembling pump. **DO NOT ASSEMBLE PUMP WITH WEARPLATE IN REVERSE POSITION.**

## DETAILED DISASSEMBLY AND ASSEMBLY OF BEARING HOUSING

### DISASSEMBLY

1. Loosen set screws in seal collar. Remove seal collar from shaft.
2. Pry outer bearing seal from rear of bearing housing by inserting a screwdriver blade **between** 0.01 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 oil toward **impeller** and ball bearing presses off toward drive end of shaft. **Remove** bearing spacer.
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 result.
6. From rear of housing, insert shaft bearing assembly roller bearing first into **housing** taking care not to damage front bearing seal or bearings.

### 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).
7. Install rear bearing seal into housing against **retaining** ring (with **lip** seal spring outward).
8. Press rear bearing seal into **housing** against retaining ring (with lip seal spring outward).
9. Replace seal **collar**, position and secure as described in instructions on assembly and disassembly of pump head components.

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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 >>](#)