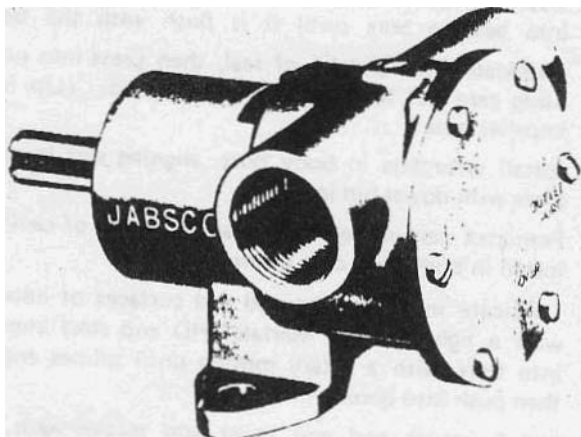


JABSCO" PUMPS

Self-Priming
Ball Bearing Pump

MODEL 1108-0001

PRODUCT DATA



MOOEL 1108-0001

DESIGN FEATURES

Body: Cast Iron Construction
 Impeller: Jabsco Neoprene Compound
 Shaft: **Stainless** Steel
 Wearplate: Replaceable
 Shaft Seal: Lip Type
 Bearings: Sealed Ball Bearings
 Ports: **1" NPT**
 Weight: 5 lbs. (approximately) 2,3 **Kgs**

TYPICAL APPLICATIONS

Circulating and transferring liquids

- **Returning** spilled liquids to process
- Chemical manufacturers and pharmaceutical houses - 10 pump soap, liquors, ink, dyes, **medicines**, alcohol, **various acids**, tanning liquors, lotions, glycerine, etc.
- **Circulating** abrasive slurries (**low** speed - 500 RPM or less)
- Circulating and transferring alkaline solutions
- Inexpensive, expendable acid pump
- Circulating and processing wood pulp slurries
- Transferring and applying **liquid** fertilizers

HEAD CAPACITY TABLE

| TOTAL HEAD | | 500 RPM | | 1160 RPM | | 1750 RPM | |
|----------------------|----------------------------------|----------------|-----|---------------------|-----|----------------|-----|
| P.S.I. (kg/sq em) | Ft. of Water Imated | GPM (L/min) | HP | GPM ILlminJ | HP | GPM (Llmin) | HP |
| 4.3 10,31 | 10 (3,0) | 6.8 125,71 | 1/4 | 16.5 162,51 | 1/3 | 26.0 198,4) | 3/4 |
| 8.7 (0,6) | 20 16,1) | 6.3 123,81 | 1/4 | 15.9 (60,2) | 1/2 | 24.5 19271 | 3/4 |
| 17.3 (1,2) | 40 112,21 | 4.7 117,8) | 1/4 | 13.5 (51,1J | 1/2 | 21.0 (79,5) | 3/4 |
| 26.0 11,81 | 60 118,31 | - | - | 9.5 (36,0 | 3/4 | 16.5 162,51 | 1 |
| 34.6 12,41 | 80 124,41 | - | - | - | - | 11.5 143,51 | 1 |

Table shows approximate head-flow for new pump in U. S. gallons per minute with neoprene impeller Capacitor start or high starting torque motor recommended.

JABSCO PRODUCTS

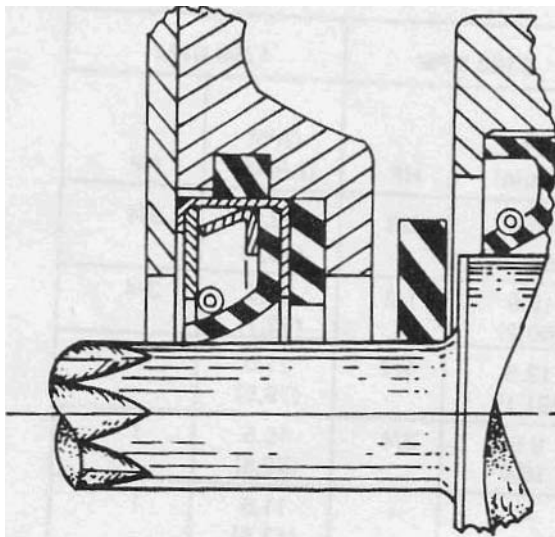
OISASSEMBLY

1. Remove and cover **screws**, end cover and gasket.
2. Grasp hub of impeller with water **pump** pliers and withdraw **from** body.
3. Remove cam screw and cam, clean permatex from **cam** and body bore.
4. Remove wearplate.
5. **Insert** screwdriver between O.O. of outer bearing **seal** and bearing bore, and **pry** seal **out**.
6. Remove bearing to body retaining ring.
7. Press on impeller drive end of shaft to remove shaft and bearing assembly.
8. **Use** extreme **care** not to mar body bore, insert **screw**-driver between O.O. of inner bearing seal and bearing **seal** bore and pry out seal.
9. **Press** seal out of body towards Impeller bore.
10. Remove bearing to shaft retaining ring.
11. Support bearing inner race. press on **drive** end of shaft to remove shaft from bearing. Do not **attempt** to remove bronze bushing which is pinned to shaft.
12. Inspect **all parts** for wear or **damage** and replace where necessary.

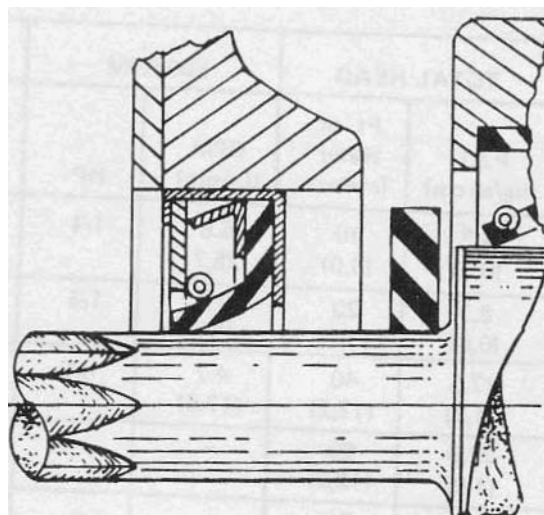
ASSEMBLY

1. Lubricate inner bearing seat lip with grease and press into body bearing seal bore with lip facing away from **bearing** bore.

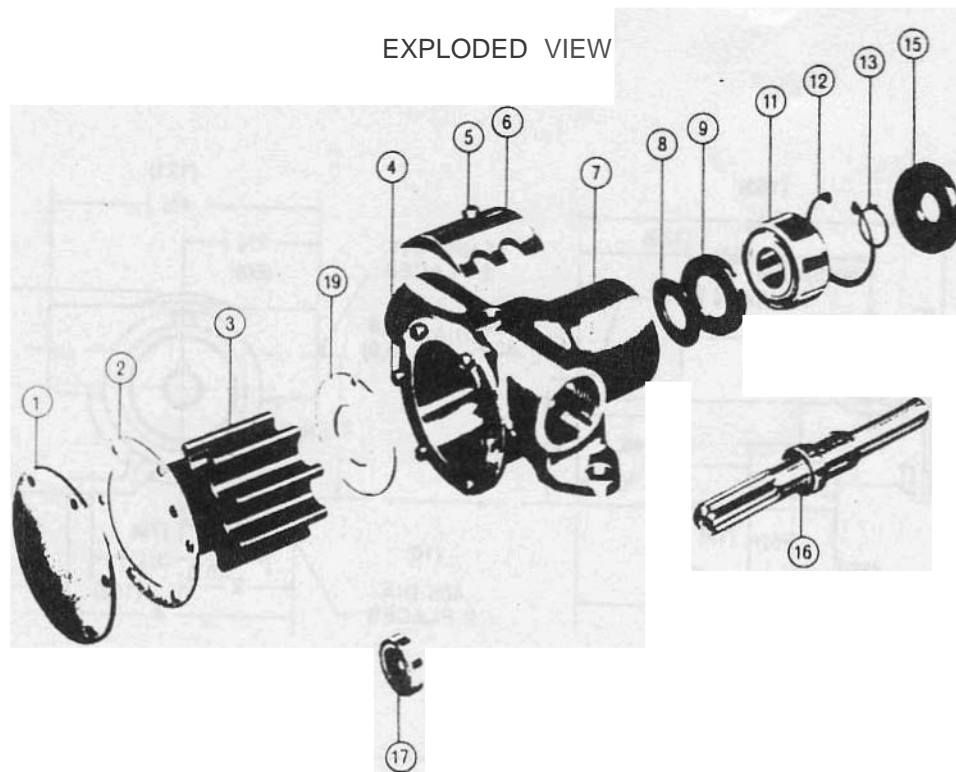
2. Assemble bearing to shaft, using care to support inner **race** of bearing, while pressing **against** the large shoulder of the bronze bushing.
3. Install bearing to shaft retaining ring with flat side toward bearing.
4. Position slinger in body drain area. Insert splined end of shaft through bearing bore and guide slinger over shaft until bearing **contacts** body.
5. Pressing on bearing outer race, install bearing into bore.
6. **Install** bearing to body retaining ring in body groove with flat **side** toward bearing.
7. Lubricate **outer** bearing seal lip with grease and press into bearing bore until it is flush with the body.
8. Lubricate O.O. and lip of **seal**, then press into **place**, using care not to damage or **cut** seal lip. (lip faces impeller bore.)
9. **Install** wearplate in body bore, aligning slot in wearplate **with** dowel pin in body.
10. Permatex cam screw threads and top side of cam and **install** in body with cam **screw**.
11. Lubricate impeller bore and end surfaces of impeller with a light coat of Marfak 2HD and start impeller into bore with a rotary motion until splines engage, then push into bore.
12. Install gasket and end cover and secure **with** end cover screws.



Lip seal with 92000-21 'O' Ring and 316&0000 spacer, original **seal** design model 1108 **prior** to 1965.



lip seal press fit - current **assembly** model 1108-0001.



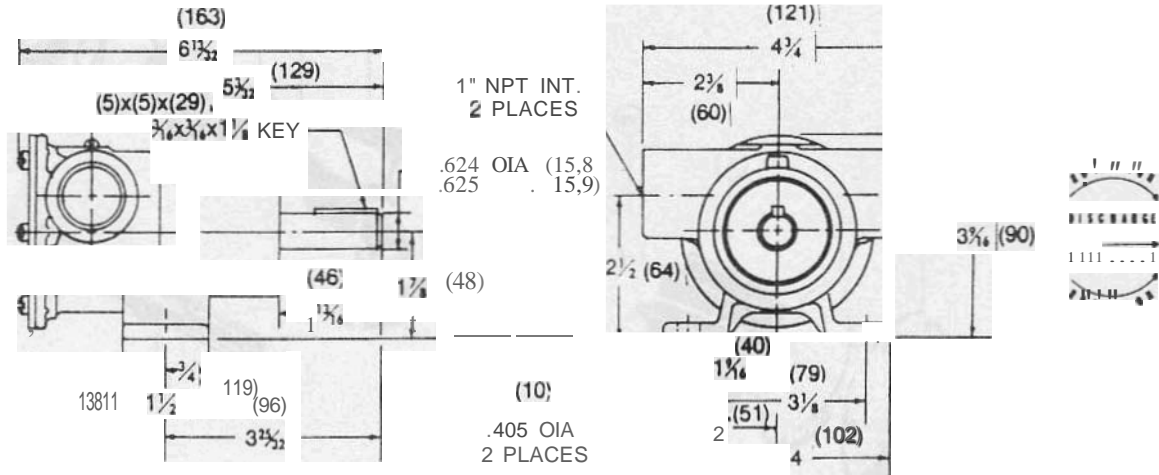
Insist on genuine Jabsco parts-made only by ITT Jabsco Products-the original and world's leading manufacturer of **self-priming** flexible neoprene impeller pumps.

PARTS LIST

SERVICE KITS

| Key | Part Number | Description | Qty. Req. | Pump Model Number | Service Kit Number |
|-----|-----------------------|--------------------------------|-----------|--|-------------------------|
| 1 | 11834-0000 | End Cover | 1 | 1108-0001 | 9001 4 -0001 |
| 2 | 890-0000 | Gasket | 1 | | |
| 3 | 1111-0001 | Impeller | 1 | Service Kit includes impeller, gasket, and seal assembly. | |
| 4 | 91053-0050 | Screw (End Cover) | 6 | | |
| 5 | 91053-0060 | Screw (Cam) | 1 | | |
| 6 | 1115-0000 | Cam | 1 | | |
| 7 | 1110-0000 | Body | 1 | | |
| 8 | 3180-0000 | Slinger | 1 | | |
| 9 | 913-0000 | Bearing, Seal (Inner) | 1 | | |
| 11 | 92600-0060 | Bearing, Ball | 1 | | |
| 12 | 91701-1850 | Retaining Ring (8rg. to Body) | 1 | | |
| 13 | 91700-2470 | Retaining Ring (8rg. to Shaft) | 1 | | |
| 15 | 914-0000 | Bearing, Seal (Outer) | 1 | | |
| 16 | 6718-0000 | Shaft | 1 | | |
| 17 | 92700-0290 | Seal Lip | 1 | | |
| 19 | 4176-0000 | Wearplate | 1 | | |
| | 9215-0000 | Key-Pump Drive (Not Shown) | 1 | | |

DIMENSIONAL DRAWING



(MILLIMETER EQUIVALENTS)

OPERATING INSTRUCTIONS

- 1. INSTALLATION** — Pump may be mounted in any position. The rotation of the pump shaft determines the location of the pump's intake and discharge ports. Refer to dimensional drawing. Before starting, turn the pump shaft in the direction of the operating rotation.
- 2. DRIVE** - Bell or **Direct** with flexible coupling.
Belt DRIVE-Overtight belt load will reduce pump bearing life.
DIRECT DRIVE-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.
- 3. SPEEDS**-100 RPM to the maximum shown in the performance table. 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 lifts up to 22 feet when wetted. BE SURE SUCTION LINES ARE AIR TIGHT OR PUMP WILL NOT SELF-PRIME.
- 5. RUNNING DAY** - Unit depends on liquid pumped for lubrication. DO NOT RUN DRY FOR MORE THAN 30 SECONDS. Lack of liquid will burn the impeller.
- 6. CAUTION** - Do not pump petroleum derivatives, solvents, thinners, highly concentrated or organic acids. If corrosive fluids are handled, pump life will be prolonged, it flushed with water after each use or after each work day.
- 7. PRESSURES** - For continuous operation, pressure should not exceed 30 psi for the standard Model 1108.
- 8. TEMPERATURES**-NEOPRENE IMPELLER 45° TO 1800F. (7,2°- 82,2° C)
- 9. FREEZING TEMPERATURES**-Drain unit by loosening end cover.
- 10. GASKET**-Use standard pump part. A thicker gasket will reduce priming ability. A thinner gasket will cause impeller to bind. Standard gasket is .010 thick.
- 11. SPARE PARTS** - A JABSCO 90014-0001 service kit should be kept on hand to service all but the most badly worn 1108-0001 pumps.

JABSCO PRODUCTS 

A Unit of International Telephone and Telegraph Corporation, 1485 Dale Way, Costa Mesa, California 92626

Telephone: (714) 545-8251

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 >>](#)