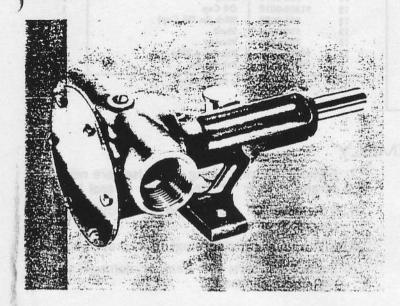
# Priming Pumps



**Product Data** 



#### DESIGN FEATURES

**Bronze Construction** 

Impeller: Jabsco Neoprene Compound

Shaft: Stainless Steel

Mechanical Lip Type Bearings: Plain

Body:

Ports:

Shaft Seal:

1" NPT

Weight: 61/4 lbs. (approximately)

# APPLICATIONS AND OPERATING INSTRUCTIONS

MARINE: Pumping bilges, Washdowns, Circulating water in bait tanks, Utility dock side pump, Engine cooling.

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, etc.

FARMING: Pumping water for stock, Pumping water from shallow wells and cisterns. Pumping liquid ballast into tractor tires.

PLUMBING & HOME EMER-GENCY USE: Pumping out flooded basements, Cesspools, Sumps, Water heaters and water closets, Drains and sinks, Draining fishponds and pools.

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.

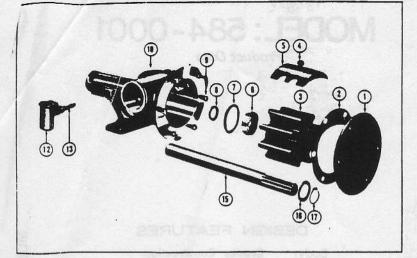
> Belt Drive — Overtight belt load will reduce pump bearing life.

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.

- 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 AIR TIGHT OR PUMP WILL NOT SELF-PRIME.
- RUNNING DRY Unit depends on liquid pumped for lubrica-

- tion. DO NOT RUN DRY for more than 30 seconds. Lack of liquid will burn the impeller.
- CAUTION Do not pump light. fraction petroleum derivatives, solvents, thinners, highly concentrated or organic acids. If corrosive fluids are handled pump life will be prolonged if flushed with water after each use or after each work day.
- PRESSURES Consult Head Capacity Table for recommended maximum for continuous operation. If pressures exceed those shown, consult the factory.
- TEMPERATURES 45°-180°
- 9. GASKET Use a standard pump part. Thicker gasket will reduce priming ability. A thinner gasket will cause the impeller to bind. Gasket is .010" thick.
- 10. OIL CUP Fill oil cup with SAE 20 or 30 weight oil.
- 11. SPARE PARTS To avoid costly shut downs, keep a JABSCO Service Kit on hand.

JABSCO PRODUCTS



KEY	PART NUMBER	DESCRIPTION	QTY.	
1	11837-0000	End Cover		
2	706-0000	*Gasket		
3	702-0001	*Impeller		
4	91004-0090	Screw (Cam)	103 193	
5	934-0000	Cam	1	
6	92700-0060	*Seal (Shaft)	1 1	
7	92000-0210	*"O" Ring	80	
8	92000-0120	Slinger ("O" Ring)	1	
9	91003-0010	Screws (End Cover)	6	
10	583-0000	Body	1 1	
12	91505-0010	Oil Cup	1	
13	302-0000	Wick (In Oil Cup)	1	
15	590-0000	Shaft		
16	723-0000	Washer	,	
17	91700-0620	Retaining Ring	1	
1156	90009-0001	Service Kit	+	

<sup>\*</sup>Parts Supplied in Service Kit

## DISASSEMBLY

- 1. Remove end cover screws, end cover and gasket.
- 2. Remove drive coupling or pulley.
- 3. Remove shaft and impeller assembly from body.
- 4. Remove snap ring and washer.
- 5. Slide impeller off shaft.
- 6. Remove seal, using a hooked wire.

- 7. Remove "O" ring, using pick. Use care not to scratch or mar "O" ring groove or seal bore.
- 8. Remove cam screw and cam, clean off permatex.
- 9. Remove slinger ("O" ring) from drain area.
- Inspect all parts for wear or damage and replace if necessary.

### ASSEMBLY

- 1. Permatex cam screw threads and top of cam and install in body with cam screw.
- 2. Install "O" ring in seal bore groove.
- 3. Instal! shaft in body until drive end is flush with end cover face.
- 4. Install slinger ("O" ring) in place on shaft in drain area.
- 5. Install seal in place, using care to protect lip from burrs or protrusions on shaft. Lip of the seal must face the impeller bore.
- 6. Lubricate impeller bore with Marfak 2HD grease.

- 7. Install impeller with a rotary motion until splines engage, then push straight in until bot tomed. Shaft must be held in place from drive end when installing impeller.
- 8. Slide washer over shaft and install retaining ring.
- Push shaft and impeller into bore until impeller bottoms.
- Install gasket and end cover and secure with screws.
- 11. Fill oil cup with SAE 20 or 30 weight oil.

#### HEAD CAPACITY TABLE

· TOTAL HEAD		500 RPM		1160 RPM		1750 RPM	
PSI (kg cm)	Head in Feet (Meters)	GPM Liter/Min	НР	GPM Liter/Min	НР	GPM Liter/Min	НР
4.3 (0,3)	10 (3,0)	6.8 (25,7)	1/4	16.5 (62,5)	1/3	26.0 (98,4)	3/4
8.7 (0,6)	20 (6,1)	6.3 (23,8)	1/4	15.9 (60,2)	1/2	24.5 (92,7)	3/4
17.3 (1,2)	40 (12,2)	4.7 (17,8)	1/4	13.5 (51,1)	1/2	21.0 (79,5)	1
26.0 (1,8)	60 (18,3)	and .		9.5 (36,0)	3/4	16.5 (62,5)	1
34.6 (2,4)	80 (24,4)	io IIIA s	. n			11.5 43,5)	1

#### DIMENSIONAL DRAWING

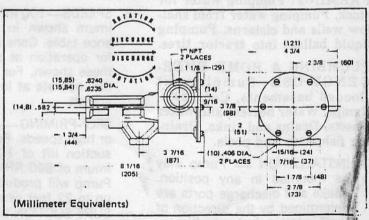


Table shows approximate head-flow for new pumps in U.S. gallons and livers per minute.

# JABSCO PRODUCTS II

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