

**JABSCO®**

# Model 1673-Series

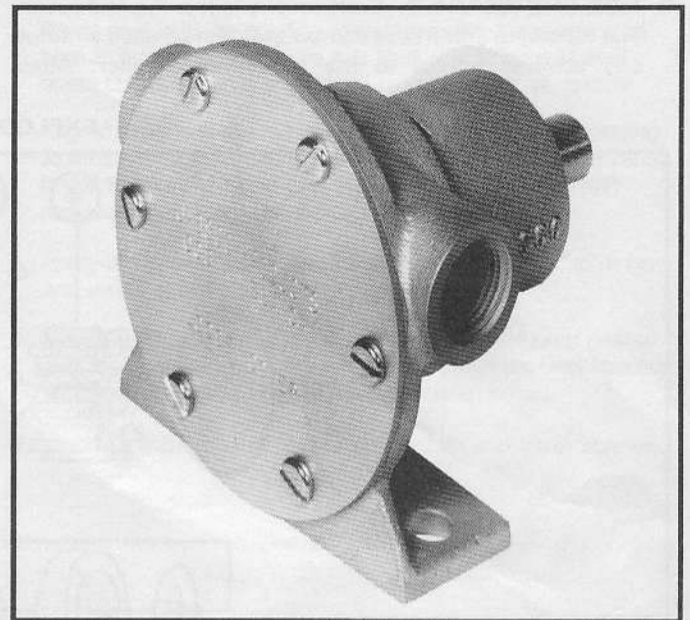
## SELF-PRIMING PUMPS

### FEATURES

<b>Body:</b>	Bronze
<b>Impeller:</b>	Neoprene or Nitrile (Oil Resistant)
<b>Shaft:</b>	Stainless Steel
<b>Shaft Seal:</b>	Lip Seal, Buna N
<b>Bearings:</b>	Sealed Ball Bearings
<b>Ports:</b>	1/2" NPT
<b>Weight:</b>	4-1/4 lb (2 kg) approx.

### VARIATIONS AVAILABLE

MODEL	VARIATIONS
1673-1001	Neoprene Impeller
1673-1003	Nitrile Impeller (Oil Resistant)
1673-1051	Half Thickness Cam, (Where reduced capacity is required with a fixed speed)



Model 1673-Series

## APPLICATIONS & OPERATING INSTRUCTIONS

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

**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 AND HOME EMERGENCY 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.

**NOTICE:** Do not press pulley or coupling on the shaft without supporting the shaft at the opposite end to prevent its movement into the impeller bore.

**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.



**Exposed pulleys and belts can cause injury. Install shield around pulleys and belts.**

- 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 lift of 10 feet (3,0m), a minimum of 800 RPM is required. Pump will produce suction lift of up to 22 feet (6,7m) when wetted. **BE SURE SUCTION LINES ARE AIRTIGHT OR PUMP WILL NOT SELF-PRIME.**
- 5. RUNNING DRY** – Unit depends on liquid pumped for lubrication. **DO NOT RUN DRY** for more than 30 seconds. Lack of liquid will damage the impeller.
- 6. NOTICE** – Do not pump light fraction petroleum derivatives, solvents, thinners, highly concentrated or organic acids. Damage to pump may result. Consult Jabsco Chemical Resistance Table (available upon request from ITT Jabsco) for proper body materials and impeller compounds. If corrosive fluids are handled, pump life will be prolonged if pump is flushed with water after each use or after each work day.

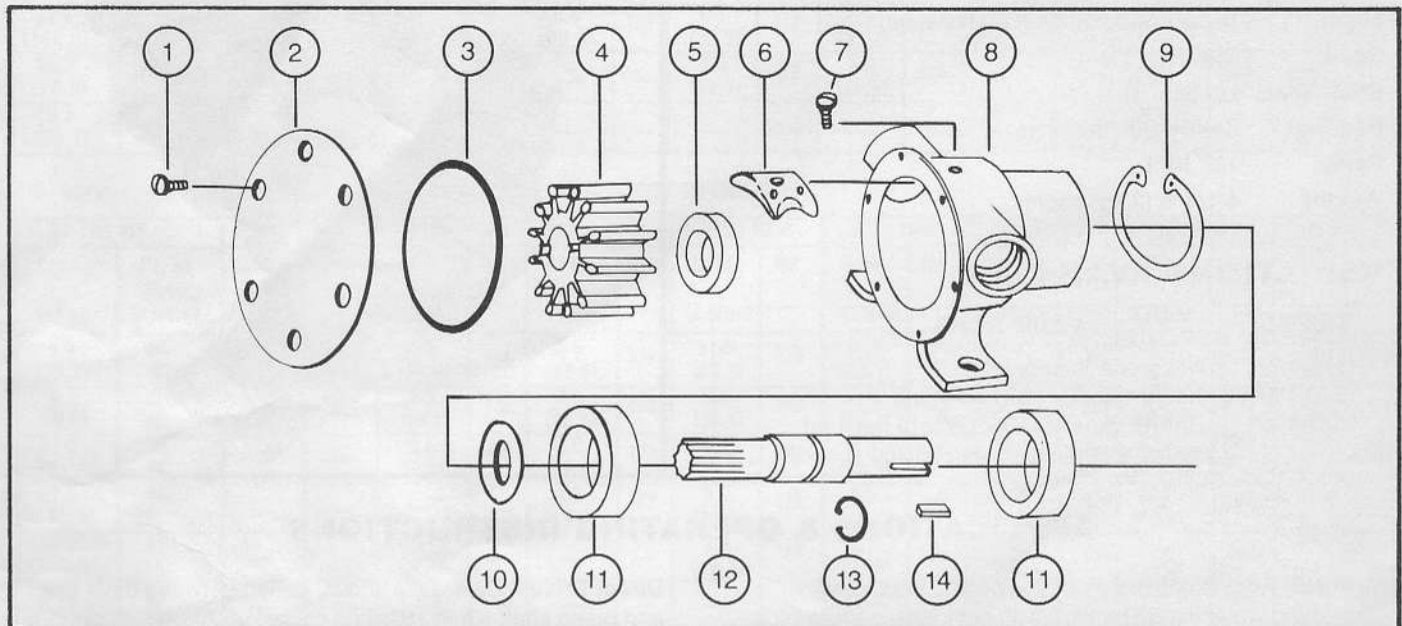
**OPERATING INSTRUCTIONS (Cont.)**

- 7. PRESSURES** – Consult Head Capacity Table for recommended maximum for continuous operation. If pressures exceed those shown, consult the factory.
- 8. TEMPERATURES** – Neoprene 45°-180°F (7°-82°C), Nitrile 50°-180°F (10°-82°C).
- 9. FREEZING WEATHER** – Drain unit by loosening end cover. The following anti-freeze compounds can be used without any adverse effects to the neoprene impeller: Atlas

“Permaguard”, DuPont “Zerex” and “Telar”, Dow Chemical “Dowguard” and Olin Mathison “Pyro Permanent”. Most methyl alcohol (methanol) based anti-freeze can be used with neoprene. **(DO NOT USE PETROLEUM BASED ANTI-FREEZE COMPOUNDS OR RUST INHIBITORS.)**

- 10. SPARE PARTS** – To avoid costly shut downs, keep a JABSCO Service Kit on hand.

**EXPLODED VIEW**



**PARTS LIST**

KEY	DESCRIPTION	PART NO.	QTY.
1	SCREW KIT (CAM & END COVER SCREWS)†	18753-0134	1
2	END COVER	11836-0000	1
3	*O-RING	18753-0133	1
4	*IMPELLER NEOPRENE NITRILE	1210-0001 1210-0003	1
5	*SEAL	92700-0060	1
6	CAM FULL THICKNESS HALF THICKNESS	490-0001 2434-0000	1
7	SCREW, CAM	SEE KEY 1	
8	BODY	18753-0128	1
9	RETAINING RING	18753-0131	1
10	SLINGER	3286-0000	1
11	BEARING	18753-0130	2
12	SHAFT	18753-0129	1
13	RETAINING RING	18753-0132	1
14	KEY	9215-0010	1
	SERVICE KIT NEOPRENE NITRILE	90015-0001 90015-0003	

\* Parts supplied in Service Kit. Also included is an end cover gasket for older model pumps. Do not use gasket with O-ring end cover seal.

† Screw Kit contains 7 each #10-32 x 3/8" pan. hd. mach. screws and 1 each #10-32 x 5/16" pan. hd. mach. screw. The 5/16" screw is used only with a half thickness cam.



**HEAD CAPACITY TABLES**  
**1673-1001 NEOPRENE**

TOTAL HEAD		500 RPM		1160 RPM		1750 RPM		2100 RPM		2450 RPM		2750 RPM		3000 RPM		3600 RPM	
P.S.I. (kPa)	Ft. of Water (metre)	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP
4.3 (29,7)	10 (3)	3.0 (11,3)	1/6	7.6 (28,7)	1/4	11.0 (41,6)	1/4	13.0 (49,2)	1/3	15.2 (57,5)	1/2	16.7 (63,2)	1/2	18.0 (68,1)	1/2	19.6 (74,2)	3/4
8.7 (60,0)	20 (6)	1.8 (6,8)	1/6	6.4 (24,2)	1/4	10.0 (37,8)	1/4	11.5 (43,5)	1/3	13.7 (51,8)	1/2	15.4 (58,3)	1/2	17.0 (64,3)	1/2	18.8 (71,1)	3/4
13.0 (89,7)	30 (9)	—	—	4.8 (18,2)	1/4	8.5 (32,2)	1/3	10.0 (37,8)	1/2	12.0 (45,4)	1/2	13.6 (51,5)	3/4	15.3 (57,9)	3/4	17.5 (66,2)	3/4
17.3 (119,4)	40 (12)	—	—	3.3 (12,5)	1/4	6.7 (25,3)	1/3	8.5 (32,2)	1/2	10.4 (39,3)	1/2	12.0 (45,4)	3/4	13.5 (51,1)	3/4	16.0 (60,5)	1
21.6 (149,0)	50 (15)	—	—	—	—	5.0 (18,9)	1/2	6.7 (25,3)	1/2	8.5 (32,2)	3/4	10.0 (37,8)	3/4	11.8 (44,6)	3/4	14.5 (54,9)	1
26.0 (179,4)	60 (18)	—	—	—	—	—	—	5.0 (18,9)	1/2	7.0 (26,5)	3/4	8.3 (31,4)	3/4	10.0 (37,8)	3/4	13.0 (49,2)	1
30.3 (209,1)	70 (21)	—	—	—	—	—	—	—	—	—	—	6.5 (24,6)	3/4	8.0 (30,3)	1	11.0 (41,6)	1

**1673-1003 NITRILE**

TOTAL HEAD		500 RPM		1160 RPM		1750 RPM		2100 RPM		2450 RPM		2750 RPM		3000 RPM		3600 RPM	
P.S.I. (kPa)	Ft. of Water (metre)	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP
4.3 (29,7)	10 (3)	2.2 (8,3)	1/6	5.8 (21,9)	1/4	9.5 (35,9)	1/4	11.5 (43,5)	1/3	13.3 (50,3)	1/2	15.0 (56,8)	1/2	16.0 (60,5)	1/2	18.2 (68,9)	3/4
8.7 (60,0)	20 (6)	—	—	4.3 (16,3)	1/4	7.6 (28,7)	1/3	9.4 (35,6)	1/3	11.4 (43,1)	1/2	13.0 (49,2)	1/2	14.4 (54,5)	1/2	17.0 (64,3)	3/4
13.0 (89,7)	30 (9)	—	—	2.5 (9,4)	1/4	6.0 (22,7)	1/3	7.4 (28,0)	1/2	9.3 (35,2)	1/2	11.0 (41,6)	1/2	12.6 (47,7)	3/4	15.3 (57,9)	3/4
17.3 (119,4)	40 (12)	—	—	—	—	4.2 (15,9)	1/2	5.6 (21,2)	1/2	7.5 (28,4)	1/2	9.2 (34,8)	3/4	10.8 (40,9)	3/4	13.6 (51,5)	1
21.6 (149,0)	50 (15)	—	—	—	—	—	—	3.9 (14,7)	1/2	5.7 (21,6)	3/4	7.2 (27,2)	3/4	9.0 (34,0)	3/4	11.7 (42,3)	1
26.0 (179,4)	60 (18)	—	—	—	—	—	—	—	—	—	—	5.5 (20,8)	3/4	7.1 (26,9)	3/4	9.7 (36,7)	1

**1673-1051 HALF CAM, NEOPRENE**

TOTAL HEAD		500 RPM		1160 RPM		1750 RPM		2100 RPM		2450 RPM		2750 RPM		3000 RPM		3600 RPM	
P.S.I. (kPa)	Ft. of Water (metre)	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP	GPM (L/min)	HP
4.3 (29,7)	10 (3)	1.6 (6,1)	1/6	4.1 (15,5)	1/6	6.3 (23,8)	1/4	7.7 (29,1)	1/3	9.0 (34,0)	1/3	10.1 (38,2)	1/2	11.0 (41,6)	1/2	13.1 (49,6)	3/4
8.7 (60,0)	20 (6)	1.2 (4,5)	1/6	3.6 (13,6)	1/6	5.8 (22,0)	1/4	7.0 (26,5)	1/3	8.4 (31,8)	1/2	9.5 (35,9)	1/2	10.2 (38,6)	1/2	12.3 (46,5)	3/4
13.0 (89,7)	30 (9)	—	—	3.1 (11,7)	1/6	5.0 (18,9)	1/3	6.2 (23,4)	1/3	7.6 (28,7)	1/2	8.6 (32,5)	1/2	9.4 (35,6)	3/4	11.3 (42,9)	3/4
17.3 (119,4)	40 (12)	—	—	2.4 (9,1)	1/6	4.1 (15,5)	1/3	5.3 (20,0)	1/2	6.7 (25,3)	1/2	7.7 (29,1)	3/4	8.9 (31,8)	3/4	10.3 (39,0)	3/4
21.6 (149,0)	50 (15)	—	—	—	—	3.1 (11,7)	1/3	4.2 (15,9)	1/2	5.7 (21,5)	1/2	6.7 (25,3)	3/4	7.4 (28,0)	3/4	9.2 (34,8)	3/4
26.0 (179,4)	60 (18)	—	—	—	—	—	—	—	—	4.5 (17,0)	1/2	5.6 (21,2)	3/4	6.3 (23,8)	3/4	8.1 (30,6)	3/4

NOTE: Progressively longer life may be expected as operating pressures and speeds are reduced. Factory Application Engineering assistance suggested for operation in light shaded area and recommended for heavy shaded area. Capacitor type motor recommended. Table shows approximate Head-Flow for new pump in U S gallons (and litres) per minute.

THE PRODUCTS DESCRIBED HEREIN ARE SUBJECT TO THE JABSCO® ONE YEAR LIMITED WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

**ITT Jabsco**

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