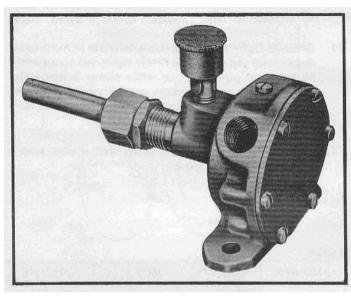


Models 4530-SERIES 4540 SERIES



SELF-PRIMING PUMPS FEATURES

Body: Bronze

Impeller: Neoprene or Nitrile

Shaft: Stainless Steel

Shaft Seal: Packing Type

Bearings: Plain

Ports 1/4" NPT Model 4530

3/8" NPT Model 4540

Weight: '-1/4 lb. approx. (0,56 kg) Model 4530

2.1!4Ibs approx. (1,0 kg) Modal 4540

VARIATIONS AVAILABLE

MODEL VARIATION INCORPORATED

4530.0001 Neoprene Impeller 4530-0003 Nitrile Impeller 4540-0001 Neoprene Impeller 4540-0003 Nitrile Impeller

APPLICATION & 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 ooolants, Return spill, Sump drainage, Chemicals. Pharmaceuticals, SoaP. Liquors, Inks, 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.

- INSTALLATION Pump may be mounted in any position. Intake and discharge ports are determined by the direction of shaft rotation (referto Dimensional Drawing).

 Before installing, turn the pump shaft in the direction of the operating rotation,
- 2. DR IVE Belt or Direct with flexible coupling.

Belt Drive — Overtight belt load will reduce pump bearing life. Direct Drive is recommended for operating speeds above 1750 RPM.

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 Head CapacitY Table. Consult the factory for operation 8t 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 (3m) a minimum of 800 RPM is required. Pump will produce suction lift 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 DRYformore than 30 seconds. Lack of liquid will damage the impeller.
- 6. NOTICE-If pumping light fraction petroleum derivatives, solvents, thinners, highly concentrated or organic acids, consult JABSCO Chemical Resistance Table (which is 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.



Exposed pulleys. Can cause injury.

Install guard around pulleys and belt. Keep clear while machinery is operating.

OPERATING INSTRUCTIONS (Cont.)

- PRESSURES Consult Head Capacity Table for recommended maximum for continuous operation. If pressures exceed those shown, consult the factory.
- TEMPERATURES Neoprene impellers are suitable for service at 45° to 180°F (7" to 82°C). Nitrile: S0" to 180°F (10° to 82°C).
- 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.

- DO NOT USE PETROLEUM BASED ANTI-FREEZE COMPOUNDSOR RUST INHIBITORS.
- 10. GASKET Use a standard pump part. Thicker gasket will reduce priming ability. A thinner gasket will cause the impeller to bind. Standard gasket is 0.010" thick.
- 11. GREASE CUP- Fill grease cup with water pump grease. Grease cup cap should be firmly tightened about every 50 hours of pump service while pump is operating. Leakage may occur through grease cup at pressures above 20 PSI. If this occurs, replace grease cup with ball check grease cup.
- sPARE PARTS To avoid costly shut downs, keep a Jabsco Service Kit on hand.

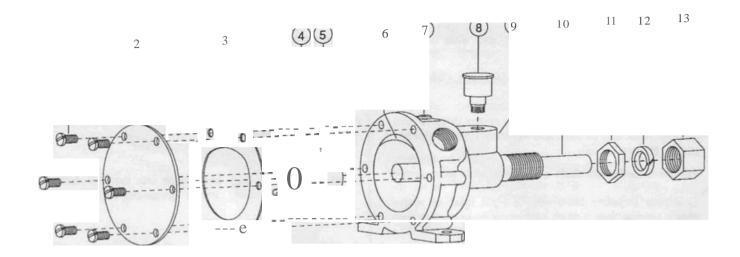
HEAD CAPACITY TABLE

MODEI 4530-SERIES															
TOTAL HEAO		500 RPM		1160 RPM		1750 RPM		2100 RPM		2450 RPM		3000 RPM		3600 RPM	
PSI Ikg/sq em)	Ft. of Water (Metre)	GPM (L/Min)	HP	GPM (L1Min)	HP	GPM.1 (L/Min)	HP	GPM (LIMin)	HP	GPM IL/Min)	HP	GPM IL/Min}	HP	GPM (L/Min)	HP
4.3 10.31	10 (3)	1.2 14,51	1/12	2.6 19,5I	1/6	3.9 (14,8)	1/6	145n	1/4	5.2 (196)	1/4	6.1 (23)	1/4	6.9 (26,1)	1/3
S.7 10,61	20 (6)	1.1 141	1112	2.4 1\0,51	1/6	3.6 113,61	1/6	4.3 (16,2)	1/4	4.S 11S1	1/4	5.6 121 11	114	6.5 {2491	\/3
13.0 (0,9)	30 (9)	0.8 (3)	1112	2.1 17,SI	\/6	,\3 ₁ 1"	1/6	/.3 ₄ S,"	1/4	4.2 (159)	1/4	6,1 119,21	1/3	5.9	1/3
17.3 (1,2)	40 (12)			1.7 (6,4)	1/6	2.6 19,5I	1/6	3.2 (12,1)	1/4	3.7 (13,91	1/4	4.5 (16,9)	,/3	5.2	1/3
21.6 15)	50 1151							2.5 19,31	1/4	3.0 111,31	1/4	3.8 11441	1/3	4.5 (16,9)	1/3

MODEL 4540-SERIES															
TOTAL HEAD		500 RPM		1160 RPM		1750 RPM		2100 RPM		2450 RPM		3000 RPM		3600 RPM	
PSI (kglsq em)	Ft. of Water (Metre)	GPM ILIMin)	HP	GPM (L/Min)	HP	GPM (L/Min)	HP	GPM (LIMin)	HP	GPM L/Min)	HP	GPM ILiMI.1	Нр	GPM (L/Min)	HP
4.3 10,3)	to 131	1.5 (5 ,7)	1112	3.S (14,4)	1/6	5.S (21)	1/4	6.9 126,11	1/3	7.S 129,5)	1/3	9.6 (36,4)	1/3	n.1 142)	1/2
S.7 10,61	20 161	0.9 13,41	1112	3.0 111,4)	\/6	4.S I∖SI	\/4	5.S (21)	\/3	7.0 126,51	\/3	8.6 (32. 5)	'/3	9.9 137,4)	1/2
13.0 10,91	30 191			1.7 16,41	1/6	3.6 (13,61	\/4	4.6 117,7)	1/3	5.9 122,31	1/3	7.3 127,61	1/2	8.6 (32,5)	1/2
17.3 11,2)	40 1121							3.2 (12,11	1/3	4.4 06.6)	1/3	5.9 122,31	1/2	1.3 127,61	1/2
21.6 151	50 1\51											4.4 (16,6)	1/2	5,7 {21,51	\/2

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

EXPLODED VIEW



PARTS LIST

KEY	DESCRIPTION	4530-SERIES	4540·SERIES	QTY.
1	Screw (End Cover)	91002.0010	91002.0010	6
2	End Cover	11835-0000	'1830-0000	1
3'	Gasket	1126-0000	2995.0000	1
4'	Impeller, Neoprene Impeller, Nitrile	4528-0001 4528-0003	4527·0001 4527-0003	1
5	Screw (Impeller)	91009.0050	91009.0070	
6	C,m	4538-0000	2907.0000	1
7	Screw (Cam)	91002.0020	91002.0020	1
8	Grease Cup	91501-0010	9 1501 • 0010	1
9	Body	4534-0000	4544-0000	1
10	Shaft	4537-0000	4547-0000	1
11	Lock Nut	4533-0000	4548-0000	1
12'	Packing	4539-0000	4549.()()()Q	1
13	Packing Nut	4536-0000	4546-0000	1
Not Shown	Shaft Key	-	11847-0000	1
Not Shown	Service Kit, Neoprene Service Kit, Nitrile	90001-0001 90001-0003	90002-0001 90002-0003	-

*Parts supplied in Service Kit

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DISASSEMBLY

- 1. Remove end cover screws, end cover and gasket.
- 2. Remove drive coupling or pulley and loosen packing nut.
- 3. Clean and remove burrs from flatted end of shaft.
- 4. Remove shaft and impeller assembly from body.
- Remove drive screw from impeller and slide impeller off the shaft.

- 6. Remove cam screw and cam, clean off sealant.
- 7. Remove packing nut.
- 8. Remove packing with pick or screwdriver.
- 9. Inspect all parts for wear or damage and replace if necessary.

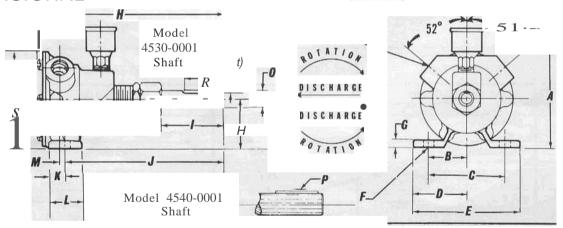
ASSEMBLY

- Apply thin coat of sealant to cam screw threads and top and back end of cam and install in body with cam screw. (Leave loose).
- 2. Position impeller on shaft and secure with drive screw.
- 3. Lubricate impeller bore with a light coat of water pump grease, insert shaft and impeller assembly into body with a rotary motion.
- 4. Dip new packing in SAE 10 or 20 weight oil and install packing.
- 5. Install packing nut. Do not tighten.

- Install gasket and end cover with end cover screws. Tighten cam screw.
- 7. Fill grease cup full and grease cup cap 3/4 full with water pump grease. Install grease cup cap and tighten firmly.
- 8. Hand tighten packing nut. During operation, tighten packing nut until pump stops dripping; set locking nut. NOTE: Packing and shaft life will be improved if pump is allowed to drip about 3 drops per minute. After a few minutes of operation, re-tighten grease cup cap.

DIMENSIONAL DRAWING

T (2-PLACES)



TABULATIONS FROM ABOVE DRAWING

THE CENTRAL PROPERTY OF THE PR											
MODEL	Α	В	С	D	E	F	G	Н	1	J	
4530- Series	3-1/8" (791	1-1/32" (26)	2-1/16" (52)	1-13/32" 136)	2-13/16" 1711	9/32" Dia 17,1)	3/16" 14,B)	<i>4-718''</i> 11241	1-11 /16" 1331	4·1/8" 1105)	
4540- Series	3-3/4" 195)	1-1/8" (28)	2-1/4" 157)	1·9/16" 140)	3-1/8" (791	13/32" Dia 110,31	1/4" 16,4)	5-11/32" 11381	1-11/16" (431	4·13/16" (122)	
MODEL	K	I	M	Ν	0	P	0	R	S	T	
4530- Series	7/16" (11,1)	7/8" 122,2)	1/8" 13,2)	1-1 /4" 1331	0.375 0.374 Dia 1951	-	0.024 10,6)	1-1/8" 1281	2-112" 163)	1/4" NPT (6,41	
4540- Series	112" 112,71	1" (25,4)	1/8" 13,21	1-5/8" 141)	0.500 0.501 Dia (12,7)	Key – 1/8" x 1/8" x 1"	_	_	3-3/16" 181)	3/8" NPT (9,51	

(Millimetre eqUivalents)

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

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Trim Jabsco

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