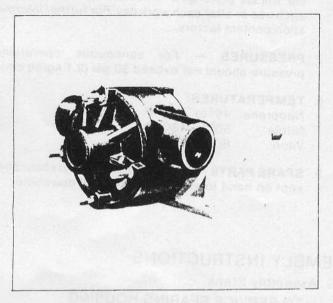
JABSCO®

MODEL 14540-SERIES

Self-Priming Pumps



APPLICATIONS

Designed for: "transfers," "circulation," "spill returns," "filtration" and "filling line" use. Easily handles pure solutions, foaming liquids, emulsions, suspended solids, gels and ferments. Because the plastic pump is resistant to corrosion and metallic contamination it is widely used for pumping photo chemicals, plating compounds, lab solutions, pharmaceuticals, cosmetics, weak acids, alkalies, liquid fertilizers, insecticides, dyes, detergents, waxes and many more.

CAUTION: 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.

HEAD CAPACITY TABLE

TOTAL HEAD		500 RPM		1160 RPM		1750 RPM	
PSI (kg/sq cm)	Ft. of Water (metre)	GPM (L/min) 8.0 (30,3)	нР	GPM (L/min)	НР	GPM (L/min) 25.5 (96,5)	H P
4.3 (,30)	10 (3,0)		1/6	16.5 (62,5)	1/3		
8.7 (,61)	20 (6,1)	7.5 (28,4)	1/4	16.0 (60,5)	1/3	24.6 (93,1)	3/4
17.3 (1,21)	40 (12,2)	5.4 (20,4)	1/4	14.3 (54,1)	1/3	23.0 (87,1)	3/4
26.0 (1,83)	60 (18,3)		_	12.8 (48.4)	1/2	21.0 (79,5)	1

Motor must be capacitor start type

DESIGN FEATURES

Body: Ep

Epoxy Plastic

Impeller:

Neoprene, Nitrile or Viton*

Shaft Seal:

Mechanical

Ports:

1" NPT Internal

Shaft:

Type 316 Stainless Steel,

Titanium or Hastelloy "B"

Shipping Weight:

8-1/2 lbs (3,8 kg)

VARIATIONS AVAILABLE

MODEL	DESCRIPTION				
14540-0001	Stainless Steel Shaft Neoprene Impeller				
14540-0003	Stainless Steel Shaft Nitrile Impeller				
14540-0004	Stainless Steel Shaft Viton Impeller Viton O-Rings Viton, Carbon/Ceramic Seal				
14540-0021	Hastelloy B Shaft Neoprene Impeller				
14540-0023	Hastelloy B Shaft Nitrile Impeller				
14540-0024	Hastelloy B Shaft Viton Impeller Viton O-Rings Viton, Carbon/Ceramic Seal				
14540-0151	Titanium Shaft Neoprene Impeller				
14540-0153	Titanium Shaft Nitrile Impeller				
14540-0154	Titanium Shaft Viton Impeller Viton O-Rings Viton, Carbon/Ceramic Seal				

*Viton is a trademark of E. I. Du Pont de Nemours and Company.

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OPERATING INSTRUCTIONS

- 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 Belt or Direct with flexible coupling. 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. Impeller starting torque is 4.8 ft - lbs., size motor accordingly.
- 3. SPEEDS 100 RPM to the maximum shown in the performance table. For longer pump life, operate at lowest possible speeds.
- SELF-PRIMING Primes at low or high speeds. For vertical dry suction lift of 10 feet (3,0m), a minimum of 800 RPM is required. Pump will produce suction lifts up to 22 feet (6,7 m) when wetted. BE SURE SUCTION LINES ARE AIRTIGHT OR PUMP WILL NOT SELF-PRIME.

Step #12.

Assemble impeller, body, and

and $6\square$.

end cover as in steps 40, 50,

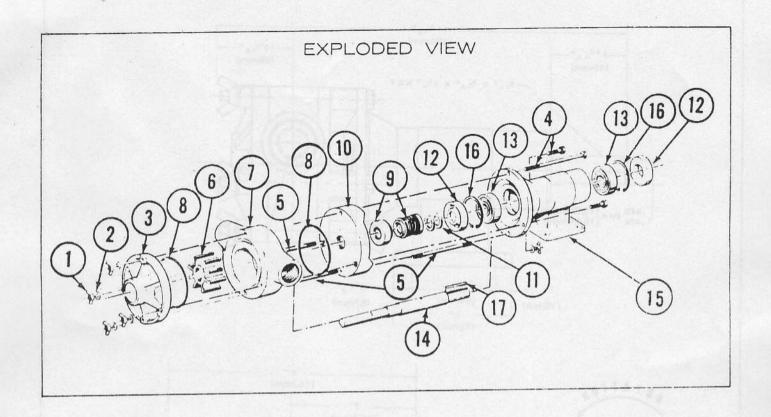
- RUNNING DRY Unit depends on liquid pumped for lubrication. DO NOT RUN DRY FOR MORE THAN 30 SECONDS. Lack of liquid will burn the impeller and damage the plastic components.
- 6. CAUTION If corrosive fluids are handled, pump life will be prolonged if flushed with water after each use or after each work day. For further information contact factory.
- 7. PRESSURES For continuous operation, pressure should not exceed 30 psi (2.1 kg/sq cm).

8. TEMPERATURES:

Neoprene: 45° to 180° F 50° to 180° F Nitrile: 60° to 180° F Viton:

 SPARE PARTS — A spare impeller & seal should be kept on hand to eliminate excessive downtime.

			DISASSEMBLY AND AS	SEMBL	YINS	TR	RUCTIONS
			Disassembly	☐ Asse	mbly S	tep	S
		TO	REPLACE IMPELLER	TO	SERV	ICE	BEARING HOUSING
Step	#1.		Remove wing nuts, washers and	Step	#13.		Follow steps 1 •, 2 •, 3 •, 8 •, and 9 •.
Step	#2.	•	end cover. Remove pump head from seal housing. Remove O-rings from body grooves.	Step	#14.		Use a thin screw driver blade to pry inner bearing seal from pedestal. Use retaining ring pliers to remove retaining ring.
Step	#3.		Push impeller from body bore. Install new impeller in lubricated body bore by grasping hub and with a rotary motion push it into		#15.	•	remove shaft and bearing assembly from pedestal.
			the body bore. Replace Orings	Step	#16.		Use thin screw driver blade to pry outer bearing seal from pedestal.
Step	#5.		in body grooves. Position the body over the through bolts against the seal	Step	#17.		ing and press shaft through and suit of hearing. Reverse shaft.
Step	#6.		housing. Install end cover and secure with washers and wing nuts.				support inner face of second bearing and press shaft through and out of bearing.
	-	TO F	REPLACE SEAL ASSEMBLY	Step	#18.		Support inner face of ball bearing, press shaft through bearing
Step Step	#7. #8.	•	Follow steps 1 •, 2 •, and 3 •. Remove seal housing. Insert screw driver through seal seat bore and pry seat and grommet from seal housing.				ly against bearing inner face. Reverse shaft and repeat procedure to assemble second bearing on shaft.
Step			Remove seal and seal spring from shaft. Install seal spring on shaft		#19.		Push shaft and bearing assembly into hearing housing from body
Step	#10.		ricate seal with water and slide on shaft with carbon facing away	Step	#20.		end, secure with retaining ring in housing. Press inboard bearing seal in bearing housing with lip facing impeller bore.
Step	#11.	. 🗆	grommet with grooved face	Otop	#21.		Press outboard bearing seal in bearing housing with lip facing outwards
		٠	push seal seat assembly into seal housing with ceramic seal facing out of seal seat bore. Assemble	Step	#22.		Assemble balance of pump parts following steps 10□, 11□, and 12□.
			so seal and seat faces contact.				

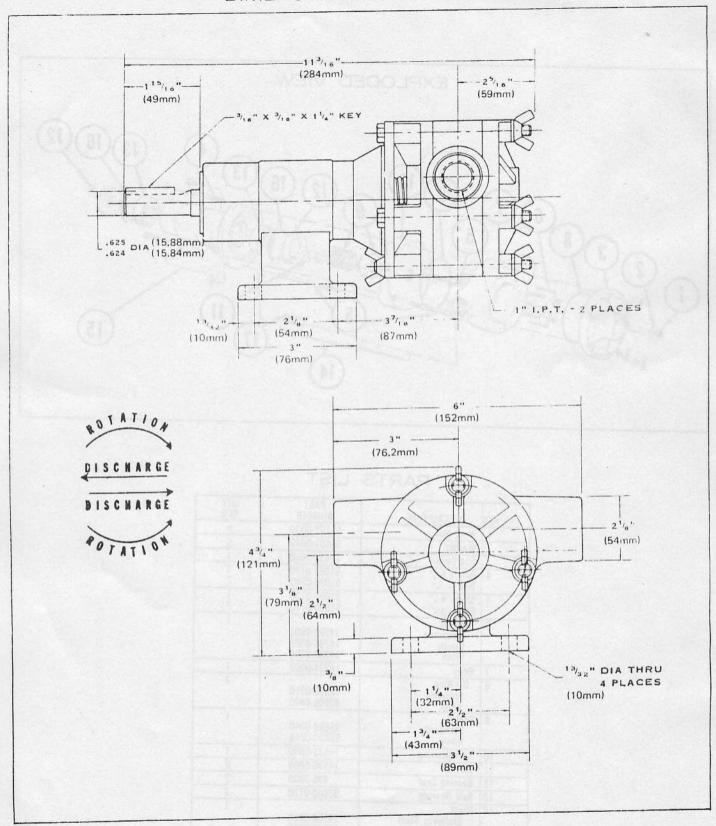


PARTS LIST

KEY	DESCRIPTION	PART NUMBER	Q I Y REQ			
I	Wing Nut	91107-0030	5			
2	Washer	91601-0040	5			
3	End Cover	17434-0000	1			
4	Bolt - 4%" Bolt - 4"	91095-0140 91095-0240	1 2 1 2			
5	Stud - 4 4" Stud - 3 4"	91090-0100 91090-0110				
6 Impeller Neoprene Nitrile Viton		14282-0001 14282-0003 14282-0004				
7	Body	14934-0000	1			
8	0 — Ring Standard Viton	92000-0310 92000-0880	1			
9	Seal • Standard Viton	96080-0040 96080-0210				
10	Seal Housing	14533-0000	1			
11	Washer	14536-0000	2			
12	Bearing Seal	496-0000	2			
13	Ball Bearing	92600-0120	2			
14	Shaft Stainless Steel Hastelloy "B" Titanium	14538-0010 14538-0020 14538-0150	1			
15	Bearing Housing	1269-0000	1			
16	Retaining Ring	18716-0000	2			
17	Key	91402-0110	1			

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DIMENSIONAL DRAWINGS



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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Form 43000-0129 Rev. 8/85