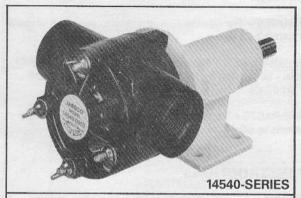
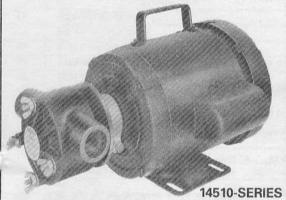


Models 14540-SERIES 14510-SERIES





MOTOR WARNING MOTOR CAN SPARK, EXPLOSION & DEATH GAN OCCUR. DO NOT USE WHERE FLAMMABLE VAPORS ARE PRESENT

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. See the "Chemical Resistance Table" located in the ITT Jabsco Catalog to help you select the most suitable impeller and pump material.

 INSTALLATION – Pedestal Mounted 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 end cover. Before starting, turn the pump shaft in the direction of the operating rotation.

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

SELF-PRIMING PUMPS

FEATURES

Pump Series No.: 14540-Series Pedestal Mounted

14510-Series Motor Pump Unit

Body: Glass-filled Epoxy Impeller: Neoprene, Nitrile or Viton*

Shaft Seal: Mechanical, Carbon-on-Ceramic, Nitrile

Ports: 1" NPT Internal

Shaft: 316 Stainless Steel, Hastelloy "B",

or Titanium

Motor: 115 Vac, Single Phase, 60 Hz, 1 HP,

1725 RPM, TEFC, overload protected,

capacitor start. Three-pronged grounded plug.

grounded

Weight: 14540-Series 8½ lb. (3,8 kg)

14510-Series 371/2 lb. (17,1 kg)

VARIATIONS AVAILABLE

MODEL	DESCRIPTION
14540-0001	Stainless Steel Shaft
14510-0001	Neoprene Impeller
14540-0003	Stainless Steel Shaft
14510-0003	Nitrile Impeller
14540-0004	Stainless Steel Shaft
14510-0004	Viton Imepeller
Translation of	Viton O-Rings
	Viton, Carbon/Ceramic Seal
14540-0021	Hastelloy B Shaft
14510-0021	Neoprene Impeller
14540-0023	Hastelloy B Shaft
14510-0023	Nitrile Impeller
14540-0024	Hastelloy B Shaft
14510-0024	Viton Impeller
	Viton O-Rings
	Viton, Carbon/Ceramic Seal
14540-0151	Titanium Shaft
14510-0151	Neoprene Impeller
14540-0153	Titanium Shaft
14510-0153	Nitrile Impeller
14540-0154	Titanium Shaft
14510-0154	Viton Impeller
	Viton O-Rings
	Viton, Carbon/Ceramic Seal

- DRIVE Belt or direct with flexible coupling for pedestal mounted unit. 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. A capacitor start type motor must be used.
- SPEEDS Pedestal Mounted Pump 100 RPM to the maximum shown in the performance table. For longer pump life, operate at lowest possible speeds.
- SELF-PRIMING Primed at low or high speeds. For vertical dry suction lift of 15 feet, a minimum of 1750 RPM is required. Pump will produce suction lifts up to 22 feet when wetted. BE SURE SUCTION LINES ARE AIRTIGHT OR PUMP WILL NOT SELF-PRIME.
- 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.

- DISCHARGE LINE When transferring liquids further than 25 feet, use one size larger discharge line than discharge opening.
- NOTICE If corrosive fluids are handled, pump life will be prolonged if flushed with water after each use or after each work day. Consult ITT Jabsco Chemical Resistance Guide (available from the factory) or the factory for further information.
- PESSURES For continuous operation, pressure should not exceed 20 psi.
- TEMPERATURES Neoprene 45° to 180°F (7° to 82°C), Nitrile - 50° to 180°F (10° to 82°C), Viton - 60° to 180°F, (15° to 82°C).
- SPARE PARTS A spare impeller and seal should be kept on hand to eliminate downtime.

TO SERVICE BEADING HOUSING (MEAN SERVE)

DISASSEMBLY AND ASSEMBLY INSTRUCTIONS

• Disassembly Steps

Assembly Steps

TO REPLACE IMPELLER

· Remove wing nuts washers and end cover

ceramic seal facing out of seal seat bore. Pedestal units only (14540-SERIES) check to make sure there are two washers on each through bolt next to pedestal. Assemble seal housing over through bolts so seal and seat

□ Assemble impeller, body, and end cover as in steps 4 □, 5 □, and 6 □.

faces contact.

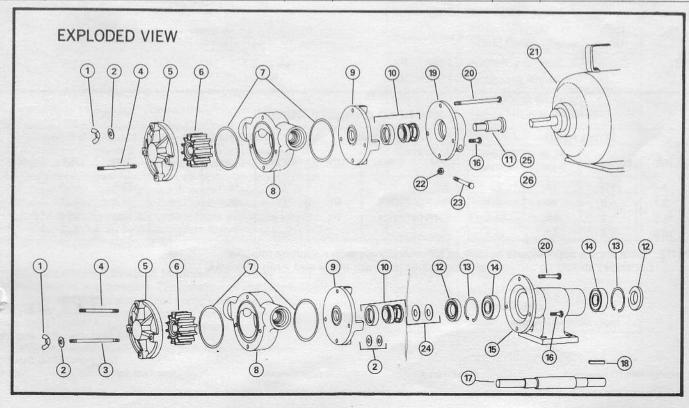
step #12.

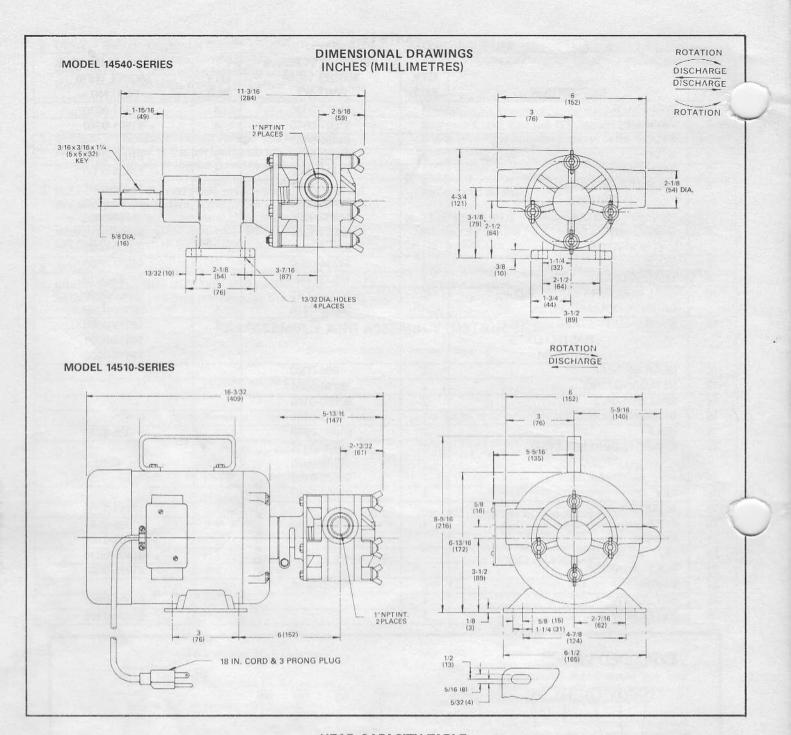
0.00		16						
Step	#	2.	•	Remove pump head from seal housing. Remove O-rings from body grooves.	Step	#13.		Follow steps 1 •, 2 •, 3 •, 8 •, and 9 • .
Step	#	3.		Push impeller from body bore.	Step	#14.		Use a thin screw driver blade to pry inner bearing seal from pedestal. Use retaining ring pliers to remove retaining ring.
Step	#	4.		Install new impeller in lubricated body bore by grasping hub and with a rotary motion push it into the body bore. Replace O-rings in body grooves.	Step	#15.		Press on drive end of shaft to remove shaft and bearing assembly from pedestal.
Step	#	5.		Position the body over the through bolts against the seal housing.	Step	#16.	•	Use thin screw driver blade to pry outer bearing seal from pedestal.
Step	#	6.		Install end cover and secure with washers and wing nuts.	Step	#17.		Support inner face of one bearing and press shaft through and out of bearing. Reverse shaft, support inner face of second bearing and press shaft through and out of bearing.
		W.		REPLACE SEAL ASSEMBLY	Step	#18.		Support inner race of ball bearing, press shaft through bearing until shaft shoulder bottoms firmly against bearing inner race.
Step				Follow steps 1 *, 2 *, and 3 *. Remove seal housing. Insert screw driver				Reverse shaft and repeat procedure to assemble second bearing on shaft.
отер		o.		through seal seat bore and pry seat and grommet from seal housing.	Step	#19.		Push shaft and bearing assembly into bearing housing from body end, secure with retaining
Step	#	9.	•	Remove drive sleeve from shaft, Remove seal and seal spring from drive sleeve.	Step	#20.		ring in housing. Press inboard bearing seal in bearing housing
Step	#1	0.		Install seal spring on drive sleeve. Lubricate				with lip facing impeller bore.
				seal with water and slide on drive sleeve with carbon facing away from spring. Install drive sleeve on shaft.	Step	#21.		Press outboard bearing seal in bearing housing with lip facing outwards.
Step	#1	1.		Install ceramic seal seat in grommet with grooved face towards grommet. Lubricate outer grommet surface with water and push seal seat assembly into seal housing with	Step	#22.		Assemble balance of pump parts following steps 10 \square , 11 \square , and 12 \square .



PARTS LIST

KEY	DESCRIPTION	QTY. REQ.	PEDESTAL VERSION MODEL 14540 PART NO.	QTY. REQ.	MOTOR PUMP UNITS MODEL 14510 PART NO.		
£ 1	WING NUT	4	91107-0030	4	91107-0030		
2	WASHER	5	91601-0040	4	91601-0040		
3	STUD	1	91090-0100				
4	STUD	2	91090-0110	2	91090-0110		
5	END COVER	1	17434-0000	1	17434-0000		
6	IMPELLER – NEOPRENE	1	14282-0001	1	14282-0001		
	- NITRILE		14282-0003		14282-0003		
	- VITON		14282-0004		14282-0004		
7	O-RING – NITRILE	2	92000-0310	2	92000-0310		
	-VITON		92000-0880		92000-0880		
8	BODY	1	14934-0000	1	14934-0000		
9	SEALHOUSING	1	, 14533-0000	1	14533-0010		
*10	SEAL ASSEMBLY STANDARD	1	96080-0040	1	96080-0280		
	CARBON/CERAMIC, VITON		96080-0210	1	96080-0290		
11	STUB SHAFT - STAINLESS STEEL			1	14513-0000		
	- HASTELLOY "B"				14513-0001		
	- TITANIUM				14513-0002		
12	BEARING SEAL	2	496-0000				
13	RETAINING RING	2	18716-0000				
14	BALL BEARING	2	92600-0120				
15	BEARING HOUSING	1	1269-0000				
16	BOLT	2	91095-0240	2	91095-0240		
17	SHAFT-STAINLESS STEEL	1	14538-0010				
	- HASTELLOY "B"		14538-0020				
	- TITANIUM		14538-0150				
18	KEY	1	91402-0110				
19	ADAPTOR			1	17433-0000		
20	BOLT	1	91095-0140	2	91095-0140		
21	MOTOR			1	18753-0165		
22	NUT-ADAPTOR			1	91105-0030		
23	BOLT-ADAPTOR			1	91095-0090		
24	WASHER	2	14536-0000				
25	SETSCREW	1			91084-0354		
26	SETSCREW	1			91084-0355		





HEAD CAPACITY TABLE

	TOTAL	HEAD		SPEED 500 RPM			SPEED 1160 RPM			SPEED 1750 RPM		
PSI	Kg/Sq cm	Ft. of Water	Metres of Water	GPM	L/Min	H/P	GPM	L/Min	H/P	GPIM	L/Min	H/P
4.3	0,3	10	3,0	8.0	30,3	1/6	16.5	62,5	1/3	25.5	96,5	3/4
8.7	0,6	20	6,1	7.5	28,4	1/4	16.0	60,5	1/3	24.6	93,1	3/4
17.3	1,2	40	12,2	5.4	20,4	1/4	14.3	54,1	1/3	23.0	87,1	3/4
26.0	1,8	60	18,3	-	-	_	12.8	48,4	1/2	21.0	79,5	1

NOTE: Table shows approximate head flow for new pumps with neoprene impeller.

Capacities should be reduced approximately 10% with nitrile and viton impellers.

ITT JABSC

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