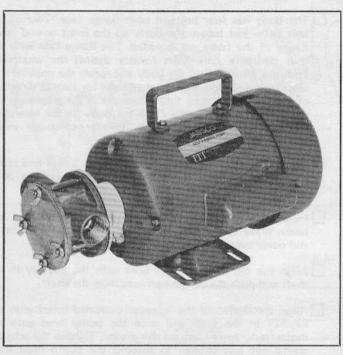


Model 12490-SERIES



SELF-PRIMING PUMPS FEATURES

Body:

Type 316 Stainless Steel

Impeller:

Neoprene and Nitrile

Seal: Shaft: Lip Type - Stainless Steel Case Steel Motor Shaft - with special

Stainless Steel Sleeve

Ports:

1" NPT Internal

Motor:

3/4 HP, 1725 RPM, 60 Hz Single Phase, 115/230 Vac, Continuous

Duty Totally Enclosed Fan

Cooled, 56 Frame, Capacitor Start, Thermal Overload Protection with Automatic Reset, Carrying Handle,

6' Cord with 3 Prong Grounded

Plug.

Weight:

35 lb (15,9 kg)

| MODEL | DESCRIPTION |
|------------|-------------------|
| 12490-0001 | Neoprene Impeller |
| 12490-0003 | Nitrile Impeller |



APPLICATIONS

CHEMICAL — Industrial Motor Pump Unit Circulating, Transferring and Filtering of Chemicals, Plating Solutions, Pharmaceuticals, Cosmetics and Farm Chemicals, Emptying and Filling Carboys, Vats, Tanks, Barrels or Entire Systems.

OPERATING INSTRUCTIONS

INSTALLATION — Pump may be installed in any position. Rotation of motor determines the location of the pump intake. The motor is normally wired for clockwise rotation when looking at pump cover with inlet port on the right.

SELF-PRIMING — Vertical, dry suction lift of 10' (3,1m). Pump will produce suction lift up to 22' (6,7m) when wet. BE SURE SUCTION LINES ARE AIRTIGHT or pump will not self-prime.

DISCHARGE – Use 1" ID discharge line when transferring liquids to 25' (7,6m); use 1-1/2" ID discharge line to 75' (22,9m).

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 and seal.

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.

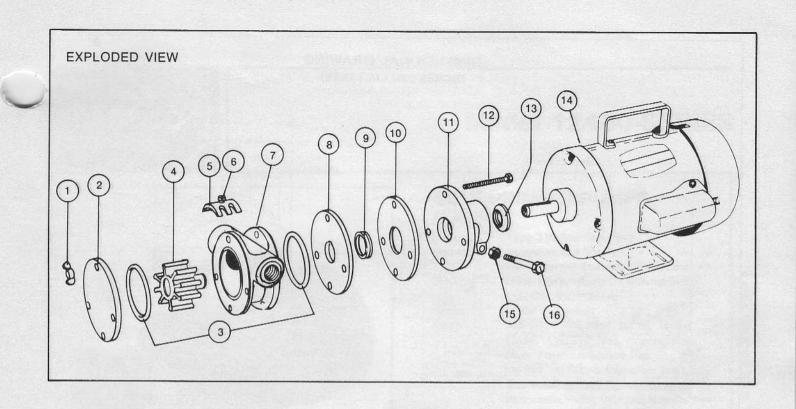
PRESSURES — For continuous operation, pressure should not exceed 20 PSI (1,4 kg/sq cm).

TEMPERATURE - Neoprene Impeller 45° to 180° F (7° to 82°C). Nitrile Impeller 50° to 180°F (10° to 82°C).

SPARE PARTS — A Jabsco Service Kit should be kept on hand to maintain all but the most badly worn pumps.

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|--|--|--|--|
| CAUTION: PUMPS WHICH HAVE HANDLED CORRO- SIVE, CAUSTIC OR TOXIC FLUIDS SHOULD BE | Install seal liner in bore of adaptor, aligning bolt holes carefully. | | |
| DRAINED AND COMPLETELY FLUSHED PRIOR TO SER- VICING. FAILURE TO DO SO MAY CAUSE INJURY. | Dip lip seal in water for lubrication and push into seal liner bore with lip of seal facing outwards. Wipe a thin film of grease on lip of seal. | | |
| TO REPLACE IMPELLER | | | |
| Remove wing nuts and end cover. | ☐ Install wearplate against liner, Align bolt holes. | | |
| Grasp impeller hub with water pump pliers and withdraw impeller from body. Check seal and internal parts for wear. Replace worn parts if necessary. | The body has four bolts in each flange face. Two of the bolt holes just below the ports on the front or end cover flange of the body are threaded. The flange face with the four clearance bolt holes locates against the wearplate. | | |
| Coat body bore and end of impeller extended insert with a light film of water pump grease. Align detent in impeller extended insert with keyway in shaft. Depress the two impeller blades which fit under the cam, and carefully push the impeller into the body bore. Use a screwdriver in the drain slot area to push the neoprene slinger up onto the end | Push the impeller into the body and rotate the impeller in a clockwise direction to align the blades for correct direction of rotation. Make sure the O-rings are in the grooves in the flange faces of the body. Place the body on the wearplate while carefully inserting the impeller extended insert through the seal. | | |
| of the extended insert. Rotate the impeller in a clockwise direction to assure the impeller blades are in the correct position for easy starting. | Install the two bolts through the adaptor flange and screw into threaded holes in front body flange. Tighten bolts evently and securely. | | |
| Replace end cover and secure with wing nuts. | ☐ Install top and bottom bolts through adaptor flange and | | |
| TO REPLACE SEAL ASSEMBLY | body. Make sure O-ring is in place in body groove. Install end cover over four bolts and secure with wing nuts. | | |
| Loosen adaptor clamp nut and remove pump head from motor. Use a screwdriver to spread the clamp slightly to facilitate removal. | Align the tab in the slinger bore with the keyway in the shaft and push the slinger part way onto the shaft. | | |
| Remove wing nuts, end cover, top and bottom bolts. | Align the detent in the impeller extended insert with the keyway in the shaft and push the pump head onto the | | |
| Unscrew remaining two bolts from body. Remove body and wearplate from adaptor. Push impeller from body bore. | motor hub, firmly against the motor. Tighten the adaptor clamp nut just enough to prevent the pump head from turning on the motor hub. If too tight, motor bearing will seize the shaft and become damaged during operation. | | |
| Remove seal liner and seal by pressing from motor end of adaptor. | Attach short lengths of hose to suction and discharge ports and place both hose ends in a bucket of water before plugging motor in, to check operation. | | |
| Remove seal from liner, Check all parts for wear. Replace if questionable | | | |

DISASSEMBLY STEDS TO ASSEMBLY STEDS

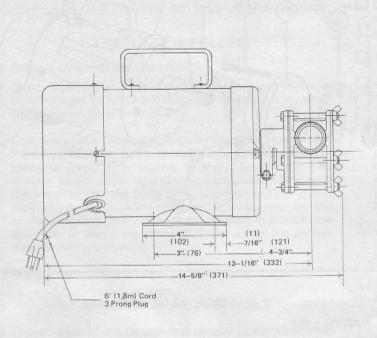


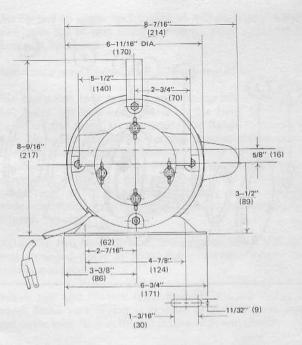
PARTS LIST

| Key | Description | Part Number | Qty. Req. | |
|-----|--|--------------------------|--------------|--|
| 1 | Wing Nut | 91107-0030 | | |
| 2 | End Cover | 12074-0000 | 1 | |
| 3 | * O-Ring | 92000-0310 | 2 | |
| 4 | *Impeller Neoprene | 12326-0001 | 1 | |
| | Nitrile | 12326-0003 | | |
| 5 | Cam | 1029-0000 | 1 | |
| 6 | Cam Screw | 91030-0020 | 1 | |
| 7 | Body | 468-0000 | 1 | |
| 8 | Wearplate | 4357-0000 | 1 | |
| 9 | *Seal | 92700-0520 | 1 | |
| 10 | Liner | 4354-0000 | 1 | |
| 11 | Adaptor | 4355-0000 | 1 | |
| 12 | Bolt (Body) | 91106-0150 | 4 | |
| 13 | Slinger | 6398-0000 | 1 | |
| 14 | Motor (Includes Handle, Cord, and Plug) | 18738-0000 | 1 | |
| 15 | Nut (Adaptor) | 91105-0030 | 1 | |
| 16 | Bolt (Adaptor) | 91095-0090 | 1 | |
| - | Replacement Pump Head Model 12490-0001 | 12498-0001 | _ | |
| | Model 12490-0003 | 12498-0003 | _ | |
| - | Service Kit Model 12490-0001 Model 12490-0003 | 90123-0001 90123-0003 | = | |

^{*}Part Supplied in Service Kit

DIMENSIONAL DRAWING INCHES (MILLIMETRES)





HEAD CAPACITY TABLE

| | TOTA | FLOW AT 1725 RPM | | | |
|------|------------------|---------------------|-----------------------|------|-----------------------|
| PSI | kgs per sq cm | feet of water | metres of water | GPM | litres of water |
| 4.3 | 0,3 | 10 | 3,0 | 26.0 | 98,4 |
| 8.7 | 0,6 | 20 | 6,1 | 24.5 | 92,7 |
| 17.3 | 1,2 | 40 | 12,2 | 21.0 | 79,5 |
| 26.0 | 1,8 | 60 | 18,3 | 16.5 | 62,5 |

Progressively longer life may be expected as operating pressures are reduced.

Table shows approximate head-flow for new pump with neoprene impeller in U.S. gallons and litres.

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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