

FLEXIBLE IMPELLER PUMP-MOTOR ASSEMBLY

OPERATION AND
SERVICE GUIDE
O-560B
JAN. 1998

MODEL	PRICE CODE NO.
1/2 JPH	48-0070A
1/2 JPH - 015	48-0071A
1/2 JPH - 02	48-0072A

Refer to Bulletin P-617 and
Parts List P-2000.

SAFETY PRECAUTIONS

BEFORE STARTING PUMP:

1. Read operating instructions and instructions supplied with chemicals to be used.
2. Refer to a chemical resistance data chart for compatibility of material in pump with solution to be used.
3. Note temperature and pressure limitations.
4. Personnel operating pump should always wear suitable protective clothing: face mask or goggles, apron and gloves.
5. All piping must be supported and aligned independently of the pump.
6. Always close valves slowly to avoid hydraulic shock.
7. Ensure that all fittings and connections are properly tightened.

BEFORE CHANGING APPLICATION OR PERFORMING MAINTENANCE:

1. Wear protective clothing as described in Item 4 above.
2. Flush pump thoroughly with a neutralizing solution to prevent possible harm to personnel.
3. Verify compatibility of materials as stated in Item 2 of SAFETY PRECAUTIONS above.

NOTE: If your solution is not compatible with Neoprene, see Parts List P-2000 for other materials used for impellers, "O"-rings etc. Use 5/8" I.D. hose on inlet and outlet.

PUMP MATERIAL

The only metallic parts in the flexible impeller pump are the shaft and drive pin. Be sure that the materials of construction are suitable for the chemical or acid to be pumped. All pump models have the following part materials.

IMPELLER	-	NEOPRENE
COVER & BODY	-	PHENOLIC
"O" RINGS	-	NEOPRENE
BUSHINGS	-	TEFLON
SEALS	-	NEOPRENE

Shafts and impeller pins for the following models are:

1/2 JPH	-	TYPE 316 S.S.
1/2 JPH - 015	-	TITANIUM
1/2 JPH - 02	-	HASTELLOY "B"

RUNNING DRY

Pump depends on liquid being pumped for lubrication. Do not run dry for more than ten seconds. Lack of lubrication will burn the impeller and damage the plastic components.

PRESSURE

Pump is capable of producing a maximum pressure of 13 PSIG. Do not exceed this pressure for maximum pump life.

SELF-PRIMING

It is suggested that the impeller be wetted before operating. Pump will produce up to 22 feet of suction lift. The rotation of the pump shaft determines the location of the pump intake and discharge ports.

PUMP SERVICE

DISASSEMBLY:

1. Unscrew end cover with Part No. 44-0198, wrench. USE CARE NOT TO BREAK RIBS.
2. Withdraw impeller and shaft assembly.
3. Remove impeller to shaft screw, then slide impeller off the shaft.
4. Using a hooked wire, deform seal and remove from body. Use care not to mar or scratch seal body.

NOTE: Inspect all parts for wear or damage and replace if necessary.

ASSEMBLY:

1. Lubricate seal. Deform and install in body. Make certain seal is properly seated after installation. Remove bearing. Install "O"-ring into cup of seal. Replace bearing in body.
2. Slide impeller on shaft, aligning holes in impeller and shaft.
3. Press in impeller drive screw.
4. Lightly oil drive end of shaft and install in body with rotating motion. Be sure shaft is free of burrs.
5. Install "O"-ring in cover.
6. Screw cover onto body. TIGHTEN HAND TIGHT ONLY.

HEAD CAPACITY TABLE:

TOTAL HEAD				1750 RPM		
LBS. PER SQ. IN.	KG./cm. ²	FT. OF WATER	METERS OF WATER	GPM	l/min.	HP
4.3	0.3	10	3.0	5.8	22.0	1/3
8.7	0.6	20	6.1	5.0	18.9	1/3
13.0	0.9	30	9.1	3.8	14.4	1/3

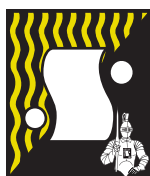
Table shows approximate head and flow for new pump with Neoprene impeller. Capacities reduced approximately 10% for Nitrile and Viton impellers.

CAUTION:

If corrosive fluids are handled, pump life will be prolonged if flushed with water after use or after each work day. Do not pump abrasive fluids as damage to the impeller and body could result.

SPARE PARTS

A spare impeller and seal should be kept on hand to eliminate down time.



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