

BRONZE CLOSE COUPLED RUBBER IMPELLER PUMP

PIPE SIZE 3/4"



N305M-08F50

FEATURES

- Bronze construction - Corrosion resistant
- Buna Mechanical seal
- Portable
- Slotted motor base
- Neoprene Impeller STD (Buna optional N305M-02)
- Stainless Steel Shaft
- Buna O-ring seal between body and cover eliminates gasket problems
- Impeller easily replaced
- Available with AC or DC motors

IMPORTANT

Performance is based on full voltage supply. Use direct lines. Do not drain voltage with other electrical equipment on same circuit. Lower voltage reduces performance and overloads motor. Use adequate wires size and length to maintain supply voltage.

MOUNTING

Pump will operate satisfactorily when mounted in any position.

DO NOT RUN DRY

Rubber impellers generate high rubbing friction unless lubricated by liquid pumped. Lack of liquid will cause impeller to burn up.

DRIVE & ROTATION

The pump is driven directly from the electric motor shaft. An aluminum adapter connects the pump to the motor. Reversing supply leads to motor terminals reverses motor rotation. "In" and "Out" pump ports are also reversed. See diagram on reverse side.

| Water 70°F (neoprene impeller) | | Feet Hd | | 10 | 20 | 40 | 60 | 80 |
|--------------------------------|------------------|---------|----------------|------|------|------|------|------|
| Model | Voltage | HP | Pressure | 4.3 | 8.7 | 17.3 | 26.0 | 34.6 |
| N305M C81 8295 | 12 VDC | 1/4 | Flow (GPM) | 7.1 | 6.7 | | | |
| | | | Speed (RPM) | 1050 | 1040 | | | |
| | | | Current (AMPS) | 8.4 | 9.2 | | | |
| N305M C82 8295 | 24 VDC | 1/4 | Flow (GPM) | 15.3 | 14.5 | 11.9 | 6.4 | 2.0 |
| | | | Speed (RPM) | 2200 | 2190 | 2160 | 2140 | 2120 |
| | | | Current (AMPS) | 9.5 | 10.3 | 12.4 | 14.8 | 17.1 |
| N305M-08 C84 2924 | 12 VDC | 1/4 | Flow (GPM) | 13.8 | 13.0 | 9.7 | | |
| | | | Speed (RPM) | 1950 | 1930 | 1880 | | |
| | | | Current (AMPS) | 16.0 | 17.8 | 21.9 | | |
| N305M-08 F93 3073 | 24 VDC | 1/3 | Flow (GPM) | 13.8 | 12.9 | 9.6 | 4.7 | |
| | | | Speed (RPM) | 1920 | 1920 | 1910 | 1860 | |
| | | | Current (AMPS) | 8.3 | 9.3 | 11.1 | 13.9 | |
| N305M-08 F50 8458 | 115/230 VAC TEFC | 1/3 | Flow (GPM) | 12.9 | 12.1 | 8.9 | 4.2 | |
| | | | Speed (RPM) | 1780 | 1780 | 1780 | 1770 | |
| N305M-08 F97 8456 | 230/460 VAC TEFC | 1/3 | Flow (GPM) | 12.9 | 12.1 | 8.9 | 4.2 | |
| | | | Speed (RPM) | 1780 | 1780 | 1780 | 1770 | |

Notes: **Maximum recommended operating point**

LIQUIDS AND TEMPERATURE

Liquids compatible with neoprene can be pumped including fresh and salt water solutions and mild chemicals. Do not pump severe solvents or acids. When possible flush pump with fresh water after each use.

Extremes of cold and heat will affect impeller life. Limits of 40° to 140°F should be observed. Do not allow liquid in pump to freeze. Drain pump by loosening cover screws. Use methyl alcohol based anti-freeze compounds such as Zerex, Shell Zone, Pyro Permagard, Dowgard.

SUCTION LIFT

Suction lift of 15 ft. is possible when impeller is wet. Suction lines must be air tight in order for pump to self prime. a foot valve at beginning of suction line is recommended.

IMPELLER REPLACEMENT

The impeller must be replaced if it is worn out or has been damaged by debris or by running the pump dry. Symptoms of a defective impeller are low pumping pressure and low flow

To replace the impeller remove screws and cover. Pull out the impeller with nose pliers or two screwdrivers. Be careful not to dent the pumping chamber with these tools. When inserting new impeller, line up key slot in impeller with the key in the shaft. Use oil on shaft and avoid forcing the impeller onto the shaft.

The impeller should also be removed for storage periods to prevent the blades from taking a permanent set.

SEAL REPLACEMENT

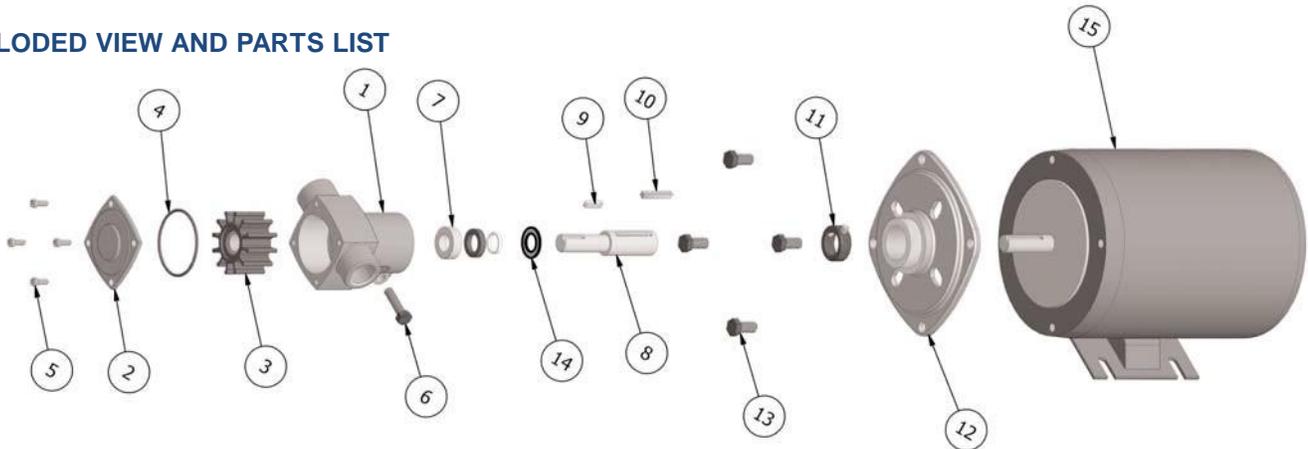
If water drips from the weep hole or from the area where the shaft exits the pump, the seal is defective and must be replaced. Prolonged running of the pump with a leaky seal can destroy the motor bearings resulting in catastrophic pump failure.

For seal replacement, the pump must be removed from the motor and disassembled in order to gain access to the seal area. Where mechanical seals are used, both components (stationary and rotating member) must be replaced at the same time.

Refer to exploded view drawings for seal location and part numbers for ordering purposes.

BRONZE CLOSE COUPLED RUBBER IMPELLER PUMP

EXPLODED VIEW AND PARTS LIST

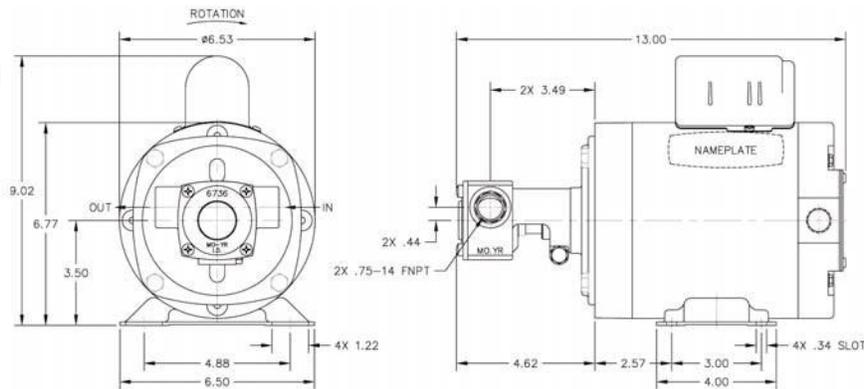


| Pump No. | Configuration Material / Motor HP / Voltage | Impeller | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | Repair Kit | | | |
|-------------|--|----------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------------|-------|------|-------|
| | | | Body | Cover | Impeller | O-Ring | Screw | Screw | Seal | Shaft | Key | Key | Collar | Adapter | Screw | Washer | Motor | | | | |
| | | | Qty. 1 | Qty. 1 | Qty. 1 | Qty. 1 | Qty. 4 | Qty. 1 | Qty. 4 | Qty. 1 | Qty. 1 | | | | |
| N305M | Neoprene | | | | | | | | | | | | | | | | | N/A | | | |
| N305M-C81 | Neoprene / 1/4 HP / 12VDC | 6620 | | | | | | | | | | | | 7990 | 5916 | | | 8295 | 10704 | | |
| N305M-C82 | Neoprene / 1/4 HP / 24VDC | | | | | | | | | | | | | | | | | 8295 | | | |
| N305M-02 | Buna | | | 8647 | | 8231 | | 5504 | | 5595 | | 32230 | | 8319 | | 6739 | | 6845 | 7991 | N/A | 12187 |
| N305M-08C74 | Neoprene / 1/4 HP / 12VDC | | 8318-1 | 6736 | | | | | | | | | | | | | | | | 2924 | |
| N305M-08F93 | Neoprene / 1/4 HP / 24VDC | | | | | | | | | | | | | | | | | | | 3073 | 10704 |
| N305M-08F50 | Neoprene / 1/3 HP / 120VAC | 6620 | | | | | | | | | | | | 7459 | 5411 | | | | | 8458 | |
| N305M-08F97 | Neoprene / 1/3 HP / 460VAC | | | | | | | | | | | | | | | | | | | 8456 | |

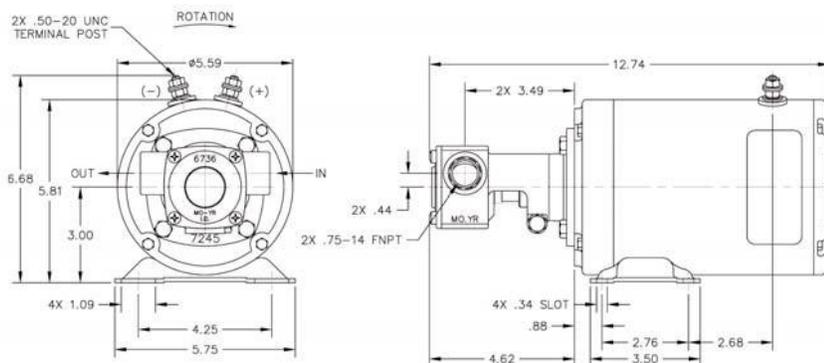
■ = Items that are included in repair kit.

DIMENSIONS

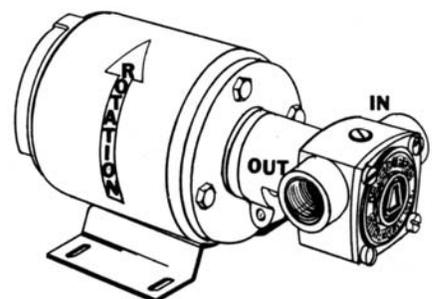
N305M-C81



N305M-08F50



STANDARD ROTATION



Specifications are subject to change without notice.