

BRONZE CLOSE COUPLED CENTRIFUGAL PUMP

CENTRIFUGAL PUMPS SERIES 104M



FEATURES

- Rugged bronze construction
- · A standard in the marine air conditioning industry
- Extremely quiet operation
- O-ring housing seal eliminates gasket problems
- Polytetrafluoroethylene (PTFE) barrier seal to protect motor bearings
- Handles contaminated liquids
- Discharge port orientation flexibility 8 positions
- Mechanical seal carbon/ceramic, Nitrile standard, Fluoroelastomer (S10) optional Polytetrafluoroethylene (PTFE) (S11)
- Pump heads mount to standard footed NEMA 56J jet pump motors
- Shafts: 416 Stainless, Nickel Alloy or 316 Passivated Stainless
- Multiple motor options available

DRIVE

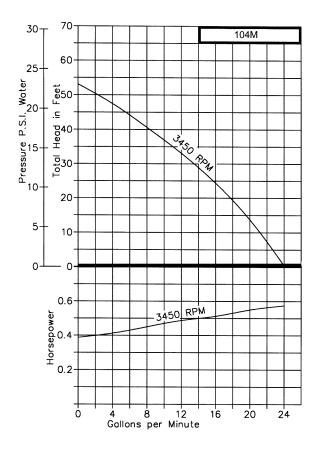
This close-coupled pump uses a standard NEMA C-Flange Jet Pump Motor with weld-on base and threaded shaft end to accept the pump impeller. Multiple motor options are available.

LIQUIDS AND TEMPERATURE

The special pump alloys used provide corrosion resistance to many liquids including water, water solutions, and a wide range of commercial chemicals. Questions as to the chemical compatibility of special liquids should be referred to the factory.

Viscous liquids with a maximum viscosity of 2000 Saybolt Seconds Universal can be pumped. However, when pumping viscous liquids as compared with water, a reduction in flow and pressure occurs and the required horsepower rate increases. Liquids heavier than water require additional horsepower in direct proportion to the increase in specific gravity. Liquids contaminated with small solids or abrasives can be handled, but a reduction in mechanical seal life must be expected.

PERFORMANCE

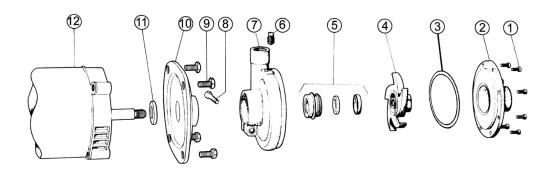


SUCTION LIFT

These centrifugal pumps are not self-priming. They must be installed below the liquid level so that the liquid flows to the pump by gravity (flooded suction). However, if a foot valve is used at the beginning of the suction line, and all air is bled from the pump by manual priming, the pump will lift on the suction side up to 15 feet.

Such a system relies entirely on the non-leaking foot valve for starting capability. The flow of a centrifugal pump can be conveniently controlled by a throttling valve in the discharge line without the need for a relief valve. In centrifugal pumps, the horsepower demand will decrease as the pressure increases. Maximum horsepower occurs with a wide open discharge.

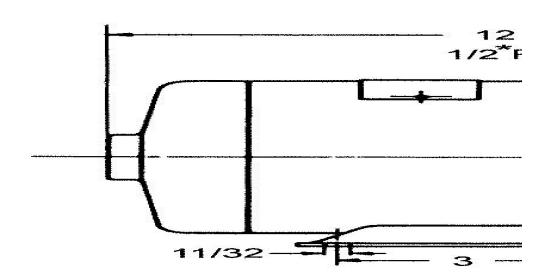
EXPLODED VIEW AND PARTS LIST



Pump No.	1	2	31	41	51	6	7	8	9	10	111	12	131*		
	Screw	Cover	O-Ring	Impeller	Seal	Plug	Body	Screw	Screw	Adapter	Lip Seal	Motor	Set	Repair	
					Assy.						,		Screw	Kit	
	8 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	2 Reqd	1 Reqd	1 Reqd	4 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	
104M	5385	5168	9797-042	6033	32155	7687	7515	5595	5411	6699	6683			10720 (Single Phase)	
104M-06	5385	5168	9797-042	6033	32155	7687	9738	5595	5411	6699	6683	-		10720 (Single Phase)	
104MP	5385	5168	9797-042	7432	32155	5395	7515	5595	5411	6699	6683		9849	12173 (Three Phase)	

¹ Repair kit contains items 3, 4, 5, 11 & 13.

DIMENSIONS



^{*} Not shown - Impeller set screw for Three Phase motors only.

ADDITIONAL

File: 104M Table revised 05/30/06

Pump No.	HP	SF	Enclosure	Phase	Voltage	Shaft Construction	Motor Item 12
104M-F13	1/3	1.75	ODP	single	115	416	5859
104M-06F13	1/3	1.75	ODP	single	115	416	5859
104M-01F26	1/3	1.75	ODP	single	115 / 230	Nickle Alloy	32273
104M-06F26	1/3	1.75	ODP	single	115 / 230	Nickle Alloy	32273
104M-F17	1/3	1.75	ODP	single	115 / 230	316 passivated	3032
104M-06F17	1/3	1.75	ODP	single	115 / 230	316 passivated	3032
104M-F21	1/3	1.75	XP	single	115 / 230	416	8214
104MP01-F65	1/3	1.75	ODP	three	208 230 / 460	Nickle Alloy	32355
104MP-F57	1/3	1.75	ODP	three	208 230 / 460	416	6996
104M-J19	1/2	1.65	ODP	single	115 / 230	416	5860
104M-J20	1/2	1.65	TEFC	single	115 / 230	416	7976
104MP01-J58	1/2	1.00	TEFC	three	208 230 / 460	Nickle Alloy	33035
104MP-J57	1/2	1.60	ODP	three	230 / 460	416	6998
104M-01J26	1/2	1.65	ODP	single	115 / 230	Nickle Alloy	32332
104M-J24	1/2	1.65	ODP	single	115 / 230	316 passivated	3031
104M-J89	1/2	1.00	TENV	DC	12V	416	2386
104MP-M58	3/4	1.15	TEFC	three	230 / 460	416	7967