

BRONZE CLOSE COUPLED CENTRIFUGAL PUMP

PIPE SIZE: INLET 3/4", OUTLET 1/2"



104M-06F26 Pictured

FEATURES

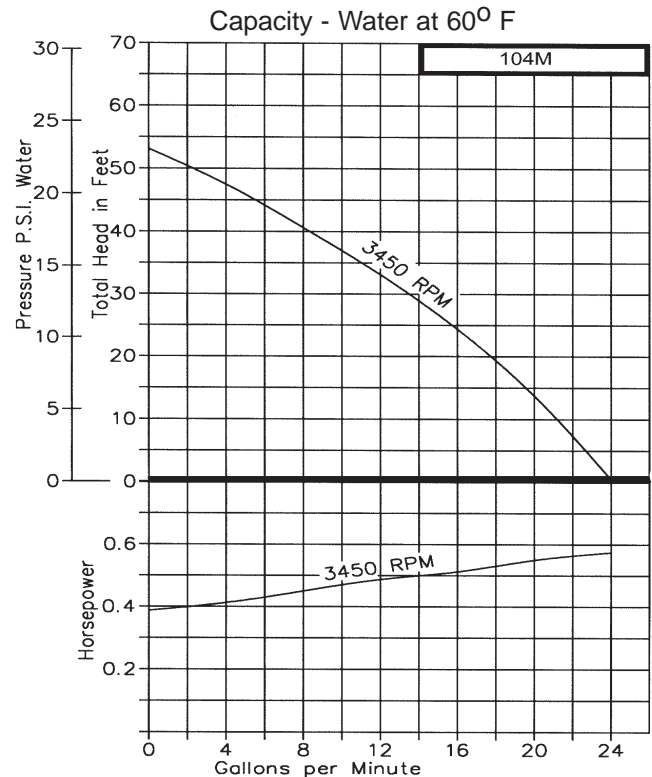
- Rugged bronze construction
- A standard in the marine air conditioning industry
- Extremely quiet operation
- O-ring housing seal eliminates gasket problems
- Teflon barrier seal to protect motor bearings
- Handles contaminated liquids
- Discharge port orientation flexibility - 8 positions
- Mechanical seal - carbon/ceramic
 - Buna - standard
 - Viton (S10) optional
 - Teflon (S11) optional
- Pump heads mount to standard footed NEMA 56J jet pump motors
- Shafts: 416 Stainless, Monel or 316 Passivated Stainless
- Multiple motor options available
- For industrial version - see Model 600 series

LIQUIDS

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.



CHARACTERISTICS

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. Single phase motors are non-reversible and are wired for the proper pump rotation which is counter-clockwise looking at inlet end of pump. See the dimensional drawing on back. Three phase motors must be checked out for proper rotation when pump is installed. Interchanging of any 2 wires in a 3-phase system will reverse motor rotation.

The pump uses a mechanical type shaft seal with a Buna rubber element. It is suitable for water, oils, and some mild solvents and it is limited to 212° F. Viton® seals and Teflon® seals are available for severe solvents, difficult chemicals, and elevated temperatures.

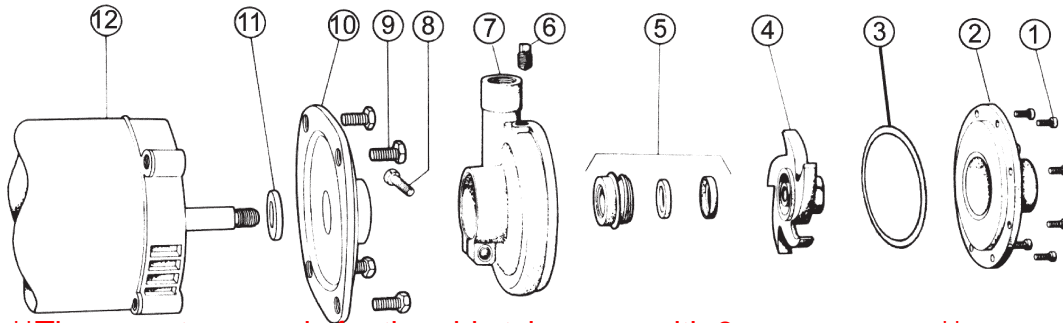
These centrifugal pumps are not self-priming. They must be installed below the liquid level so that the liquid flows to the pump by gravity (flooded suction). However, if a foot valve is used at the beginning of the suction line, and all air is bled from the pump by manual priming, the pump will lift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

* Viton® is a registered trademark of DuPont Dow Elastomers. Viton® or equivalent FKM will be used.
Teflon® is a registered trademark of DuPont. Teflon® or equivalent PTFE will be used.

BRONZE CLOSE COUPLED CENTRIFUGAL PUMP

EXPLODED VIEW AND PARTS LIST



****These parts are only for the old style pump with 8 cover screws.****

Pump No.	1	2	31	41	51	6	7	8	9	10	111	12	131*	Repair Kit
	Screw	Cover	O-Ring	Impeller	Seal Assy.	Plug	Body	Screw	Screw	Adapter	Lip Seal	Motor	Set Screw	
	8 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	2 Req'd	1 Req'd	1 Req'd	4 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd
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.

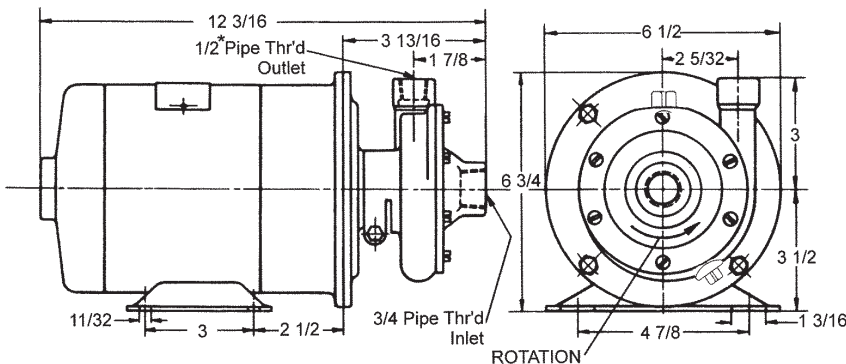
* Not shown - Impeller set screw for Three Phase motors only.

PUMP & MOTOR OPTIONS

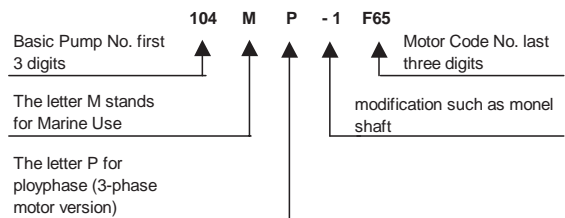
Note: These are the most frequently used pump and motor combinations. If you have other needs, our sales reps can recommend a pump and motor for your application.

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	monel	32273
104M-06F26	1/3	1.75	ODP	single	115 / 230	monel	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	monel	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	monel	33035
104MP-J57	1/2	1.60	ODP	three	230 / 460	416	6998
104M-01J26	1/2	1.65	ODP	single	115 / 230	monel	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

DIMENSIONS *3/4" External Thread also available (104M-06)



NUMBERING



Data sheet for new style pumps with 4 cover screws.

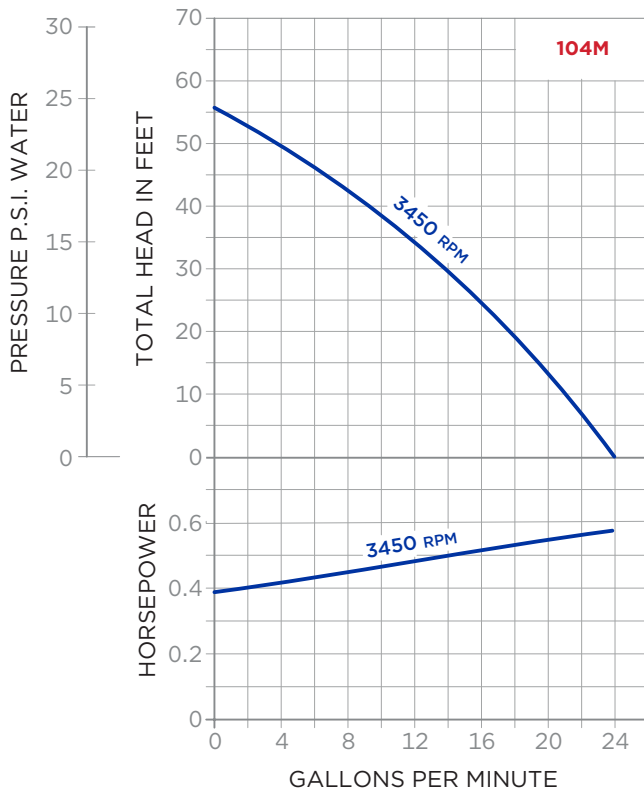


OBERDORFER
by Gardner Denver

BRONZE CLOSE-COUPLED CENTRIFUGAL PUMP
INLET 3/4" NPT, OUTLET 1/2" NPT

Model 104M

PERFORMANCE CAPACITY, WATER 70°F



Features

- Rugged bronze construction
- A standard in the marine air conditioning industry
- Extremely quiet operation
- O-ring housing seal eliminates gasket problems
- Teflon barrier seal to protect motor bearings
- Handles contaminated liquids
- Discharge port orientation flexibility
- Mechanical seal - carbon/ceramic - NBR options
- Pump heads mount to standard footed NEMA 56J jet pump motors
- 300 Series Stainless Steel standard also optional Monel
- Multiple motor options available
- For industrial version, see Model 600 Series

Liquids

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.



Data sheet for new style pumps with 4 cover screws.

Characteristics

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. Single phase motors are non-reversible and are wired for the proper pump rotation which is counter-clockwise looking at inlet end of pump. See the dimensional drawing on back. Three phase motors must be checked out for proper rotation when pump is installed. Interchanging of any 2 wires in a 3-phase system will reverse motor rotation.

The pump uses a mechanical type shaft seal with a NBR rubber element. It is suitable for water, oils, and some mild solvents and it is limited to 212°F. FKM seals and PTFE seals are available for severe solvents, difficult chemicals, and elevated temperatures.

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.

SPECIFICATIONS

MODEL	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	155	416	5859
104M-01F26	1/3	1.75	ODP	single	115/230	Monel	32273
104M-06F26	1/3	1.75	ODP	single	115/230	Monel	32273
104MP-F57	1/3	1.75	ODP	three	208 230/460	416	6996
104M-J19	1/2	1.65	ODP	single	115/230	146	5860
104M-J20	1/2	1.65	TEFC	single	115/230	416	7976
104MP01-J58	1/2	1.00	TEFC	three	208 230/460	Monel	33035
104MP-J57	1/2	1.60	ODP	three	230/460	416	6998
104M-01J26	1/2	1.65	ODP	single	115/230	Monel	32332



This picture is the old style 104M-06 pump with 8 cover screws. This old style pump is no longer available. The parts list on the page below is only for the new style pump with 4 cover screws.

****These parts are only for the new style pump with 4 cover screws.****

PARTS LIST - MODEL 104M

ITEM NO.	DESCRIPTION	COMPONENT NO.			QTY.	REPAIR KIT	
		104M	104MP	104M-06		104M	104MP
1	Screw	5385	5385	5385	4	104M	10720
2	Cover	5168-2	5168-2	5168-2	1	104MP	12173
3	O-Ring	9797-043	9797-043	9797-043	2	104M-06	10720
4	Impeller	6033	7432	6033	1	Items Included	3, 4, 5A, 5B, 11 & 13
5A*	Seal Head	2913	2913	2913	1		
5B*	Seal Wearface/ Seal Seat	601801	601801	601801	1		
6	Plug	7687	5395	7687	2		
7	Body	7515-2	7515-2	9738-2	1		
8	Screw	5595	5595	5595	1		
9	Screw	5411	5411	5411	4		
10	Adapter	6699	6699	6699	1		
11	Set Screw	NA	9849	NA	1		
12	Motor	See Chart	See Chart	See Chart	1		
13	Lip Seal	6683	6683	6683	1		
14	Name Plate	7736	7736	7736	1		

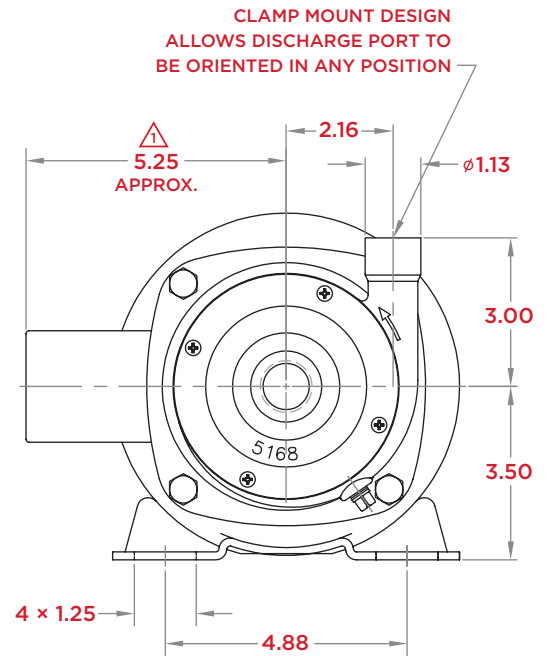
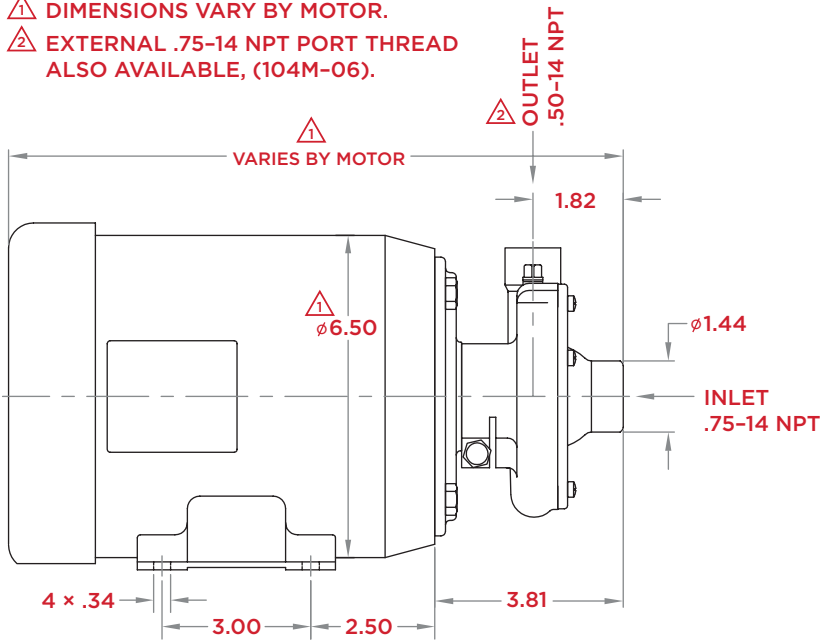
****Data sheet for new style pumps with 4 cover screws.****



Data sheet for new style pumps with 4 cover screws.

DIMENSIONS

- ⚠ DIMENSIONS VARY BY MOTOR.
- ⚠ EXTERNAL .75-14 NPT PORT THREAD ALSO AVAILABLE, (104M-06).



**Gardner
Denver**®

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NBR = Acrylonitrile-Butadiene, PTFE = Polytetrafluorethylene, FKM = Fluoroelastomer

Due to ongoing product improvements, data shown here is subject to change without notice.
Contact Oberdorfer Pumps for latest specifications.

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 Please recycle after use.