



MagnePump

At A Glance

3/4 Horsepower

MAWP:	5000 psi @ 650° F (345 bar @ 343° C)
Operating Speed:	3450 rpm @ 60 Hz 2875 rpm @ 50 Hz
Static Torque:	15 in.-lbs. (1.7 N-m)

5 Horsepower

MAWP:	2500 psi @ 650° F (172 bar @ 343° C)
Operating speed	3450 rpm @ 60 Hz 2875 rpm @ 50 Hz
Static Torque	150 in.-lbs (17 N-m)

Autoclave Engineers MagnePumps eliminate or reduce many of the problems associated with conventional pumps, such as leakage, contamination and packing heat generation. They are ideal for applications where purity of the fluid is a major consideration or where leakage of material could be hazardous.

In addition, power loss is eliminated due to no seal friction, delivering full motor horsepower to the pumping unit. Also, when adverse conditions exist the magnet drive functions as a clutch, eliminating overload and motor burnout.

3/4 HP MagnePumps

The 3/4 horsepower MagnePump is a packless design that provides improved efficiency: high torque with reduced heat losses. It is designed for liquid service and is rated for up to 5,000 psi (345 bar) system pressure.

5 HP MagnePumps

The 5 horsepower MagnePump is a packless design which requires no supplemental cooling source. A built-in centrifugal air circulator cools the magnet zone. The 5 HP MagnePump has outlet and inlet flanges in the same plane for easy piping. It is designed for liquid service and is rated for up to 2500 psi (172 bar).

Technical Specification

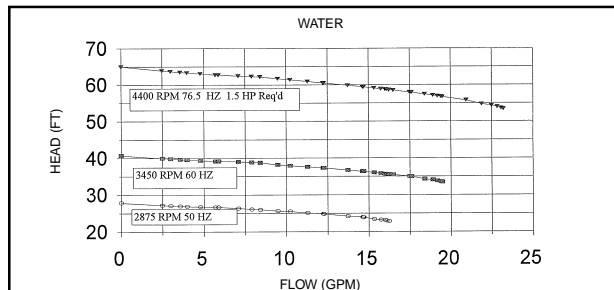
		3/4 HP	5 HP	
Operating Conditions	Maximum allowable working pressure	5000 psi (345 bar)	2500 psi (172 bar)	
	Maximum temperature	650°F (343°C)	650°F (343°C)	
	Operating speed	3450 rpm @ 60 HZ 2875 rpm @ 50 HZ	3450 rpm @ 60 HZ 2875 rpm @ 50 HZ	
	MagneDrive static torque	15 in.-lbs (1.7 N-m)	150 in.-bs. (17 N-m)	
	Magnet cooling	Water cooling must be used at all times.	No cooling required	
Pump Construction	Material	Pump/casing housing	316 SS/A286	316 SS/A286
		Impeller	316 SS	316 SS
		Shaft	316 SS	316 SS
		Fasteners	300 series stainless	300 series stainless
		Bearings	Carbon graphite*	Carbon graphite
		Seals	316/321 SS/silver plated	Nickel and silver
	Port size	Inlet	SF-1000 CX conn. (1.0" O.D. tubing, I.D. .688")	1-1/2" 2500 lb. ANSI flange conn. 1.5" I.D.
		Outlet	SF-1000 CX conn. (1.0" O.D. tubing, I.D. .688")	1" 2500 lb. ANSI flange conn. .95" I.D.
	Motor rating	Type	60 HZ: Exp-proof class 1, group D or 50 HZ: TEFC	50/60 HZ TEFC
		Power	3/4 HP	5 HP
		Voltage	115/230 vac, 60 HZ single phase or 110/220 vac, 50 HZ single phase	230/460 vac 50/60 HZ 3 phase

*Consult factory for alternate bearing materials.

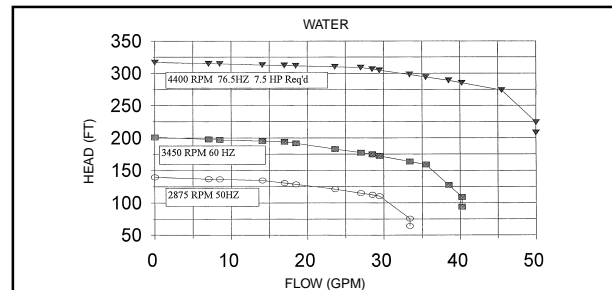
General Information

	3/4 HP	5 HP
Mounting position	Horizontal	Horizontal
Weight (approximate)	170 lbs. (77 kg)	380 lbs. (172 kg)
Maximum flow	19 GPM (72 LPM)	40 GPM (151 LPM)
Maximum head (3450 rpm)	40 feet (approx. 17 psi)	194 feet (approx. 84 psi)

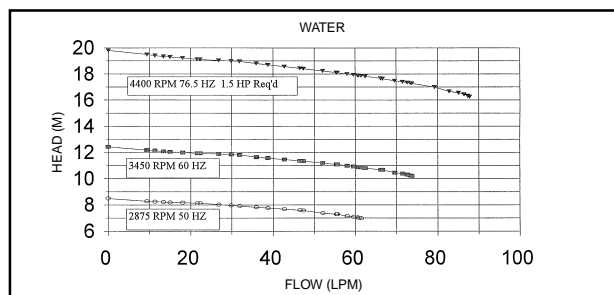
3/4 HP – Flow vs Head – GPM



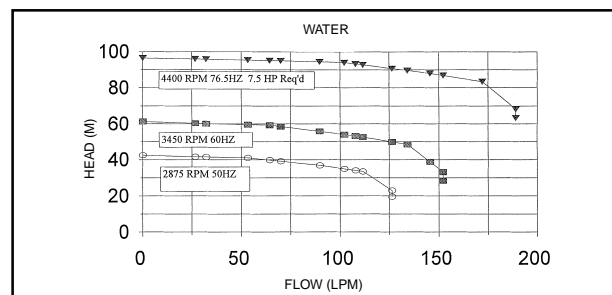
5 HP – Flow vs Head – GPM



3/4 HP – Flow vs Head – LPM



5 HP – Flow vs Head – LPM

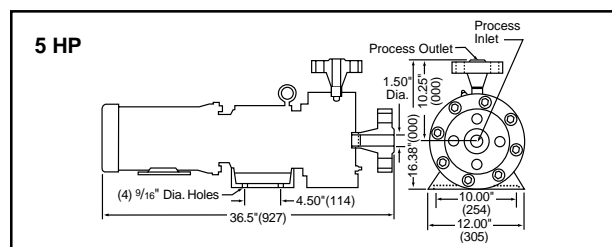
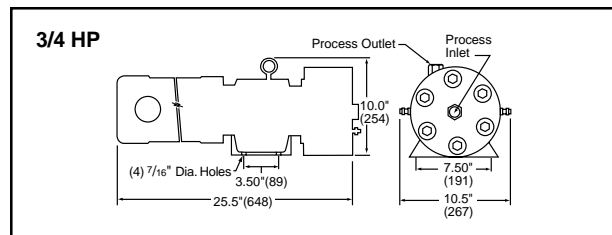


Note: Higher and lower curves are calculated.

Ordering Information

Horsepower	Catalog order no.	Voltage
3/4 HP	MP2040 05 65 50	50 HZ
3/4 HP	MP2040 05 65 60	60 HZ
5 HP	MP4093 02 65 60	50 HZ

Dimensions -inches (mm)



All dimensions are subject to change.

Autoclave Engineers

Division of Snap-tite, Inc

2930 West 22nd Street
Erie, Pennsylvania 16506-2302 USA
PH: 814-838-5700 FAX: 814-838-5855
e-mail: snaptite@snap-tite.com
www.autoclaveengineers.com

ISO-9001 Certified

ip-mp.598

! WARNING !

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE.

This document and other information from Snap-tite, Inc., its subsidiaries and authorized distributors, provides product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operation conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Snap-tite, Inc. and its subsidiaries at any time without notice.