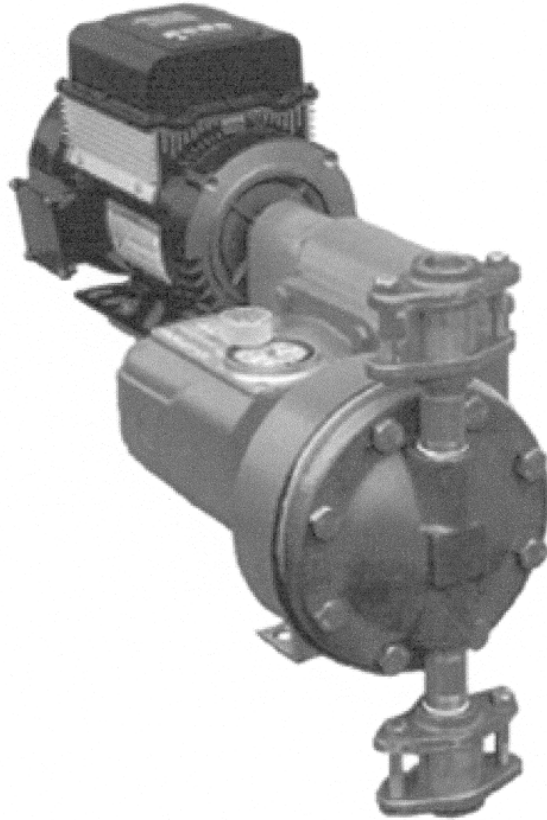


MADDEN MH Series Diaphragm Metering Pumps

Accurate, Dependable Metering Pumps for Liquid Chemicals



MH Series Simplex pump. Shown with optional variable speed motor.

These simple, rugged, accurate pumps are used in many industrial plants for injecting a controlled flow of highly reactive liquids such as acids, caustics and water treatment chemicals. Heavy duty industrial grade construction means these tough pumps will deliver many years of trouble free 24-7-365 pumping. Simplex capacity up to 180 GPH, and duplex capacity up to 360 GPH

- ✓ MH Series pumps are designed for $\pm 1\%$ steady state repeatable accuracy over a 10:1 turndown range.
- ✓ Manual output control knob is located on top of the pump for easy access.
- ✓ Automatic pump output control is available for pumps equipped with a variable speed motor, such as the Franklin Type IMDS motor. (See type F catalog sheet)
- ✓ Industrial grade worm gear reducer is integral with the pumping mechanism. Precision internal pump parts run in an oil bath for extended service life. No external lubrication required.
- ✓ Double diaphragm option is available for superior protection from dangerous liquids.
- ✓ When equipped with the proper materials the MH Series pumps are excellent for pumping dangerous liquids such as acids, caustics and solvents. Liquids with suspended solids such as diatomaceous earth and lime slurry can be accurately pumped.
- ✓ Standard motors are industrial grade 3/4 to 1-1/2 HP 56 frame foot mounted TEFC. Motors are available for explosion proof, washdown, and mill & chem plant duty, and for 1 or 3 phase, 50 or 60 Hz power.
- ✓ Tough fabric reinforced rubber diaphragms protect the drive train from the pumped liquid. The short stroke with 4.5" diameter piston increases diaphragm life by reducing fatigue.
- ✓ Internal components the same as MF Series pumps.

MH SERIES DIAPHRAGM METERING PUMPS

Pump Models and Wetted End Materials

MH Series Pumps, Simplex (one pumping head)

Model No.	Output range GPH per head	Output range L/hr per head	Max pressure psi/bar	Piping connection	Motor HP/kw	Stroke speed, 1,725 rpm motor
MH196D	9.6-96	36-363	150/10.6	3/4" NPT	3/4/.56	115 spm
MH1125E	12-125	47-473	150/10.6	3/4" NPT	1/.75	172 spm
MH1150F	15-150	57-568	150/10.6	3/4" NPT	1.5/1.12	172 spm
MH1180E	18-180	68-681	50/3.5	3/4" NPT	1/.75	172 spm
MH1180F	18-180	68-681	100/7	3/4" NPT	1.5/1.12	172 spm

MH Series Pumps, Duplex (two pumping heads)

Model No.	Output range GPH per head	Output range L/hr per head	Max pressure psi/bar	Piping connection	Motor HP/kw	Stroke speed, 1,725 rpm motor
MH296D	9.6-96	36-363	150/10.6	3/4" NPT	3/4/.56	115 spm
MH2125E	12-125	47-473	150/10.6	3/4" NPT	1/.75	172 spm
MH2150F	15-150	57-568	150/10.6	3/4" NPT	1.5/1.12	172 spm
MH2180E	18-180	68-681	50/3.5	3/4" NPT	1/.75	172 spm
MH2180F	18-180	68-681	100/7	3/4" NPT	1.5/1.12	172 spm

For total output capacity when both outputs are combined multiply data above by 2.

Wetted end materials to resist corrosion and abrasion

Solution head and valve bodies	Diaphragm	Backup Diaphragm	Valve balls	Valve seats
PVC	Neoprene	Neoprene	316 SS	Teflon, Glass filled
Teflon	Teflon faced	Hypalon	Carpenter 20	316 SS
316 SS	Hypalon	Viton	Hastelloy C	Ceramic
Carpenter 20	Viton		Telfon	
	TFE/Viton		Viton	

Pump Specifications

SPECIFICATION: The Contractor shall furnish a diaphragm metering pump as follows: liquid to be pumped: (liquid), pumping rate: ___ GPH, at a maximum pressure: ___ PSI. The pump output will be adjustable from 0 to 100% while the pump is running using an adjustment knob located on the pump top. The pump will be of the mechanical diaphragm type with the piston directly connected to the diaphragm. Single check ball valves for both the suction and discharge connections will be included. The industrial grade gear reducer will have a bronze wheel and steel worm, and along with the pump mechanism, will be enclosed and running in an oil bath. No external lubrication will be required. Pump wetted end materials of construction: wetted end: _____, diaphragm: _____, replaceable valve seats: _____, double valve balls: _____, (optional: Type DDB double diaphragm will be provided for extra protection from the pumped liquid, backup diaphragm material: _____.) Piping connections will be 3/4" NPT.

The motor will be 56 frame foot mounted, connected with a flexible coupling to the gear reducer, (___) HP, 1/60/115-230 or 3/60/230-460, 1725 rpm, TEFC. Paint finish: (manufacture's standard acrylic enamel, or optional polyurethane top coat with epoxy primer for premium corrosion resistance.)

Preferred manufacturer: Madden Manufacturing, Inc., Model no. MH____ (simplex or duplex) diaphragm metering pump, rated for (___) gallons per hour.

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