

The MPC, Metering Pump Controller, expands the flow range capability of the PULSAR, Pulsar Hypo2Pump, Series M, and OMNI model pumps. The MPC is a speed based control system for automatic control with an analog input signal and manual controller either at the pump or up to 1000 feet away (304 meters) from the pump with the MPC's exclusive handheld keypad.

### Key Features

- Detachable ergonomic handheld keypad with 4.5 feet (1.3 m)
- Handheld keypad can be mounted up to 1000 feet (304m) from pump
- 1000:1 turndown for wide range of flow
- Motor on/off control on the handheld keypad with high visibility red button
- UL, CSA, and CE approved
- Uses a commercially available inverter rated motor (standard motor is not NEMA 4X (IP56))
- Displays pump output in units of flow (gph or lph)\*
- NEMA 4X (IP56) rating on both pump mounted and handheld keypad enclosures (Requires different rated motor)
- Stroke length indication on the controller display\*
- Automatic re-calibration of the pump curve with manual changes in stroke length
- Security code to lock out unauthorized users
- Designed with safety and ergonomics in mind

\*Not standard on Series M or Series M-Model L1, available as an option on Series M.



### Operating Benefits

- Steep turndown of 1000:1 with speed only
- Handheld control unit for multiple mounting options-at pump, in control room anywhere within 1000 ft.
- Manual stroke length control remains
- Flows in gph or lph is shown on handheld control
- Simple to wire, startup, and use
- Motor on/off at handheld
- Digital inputs and outputs in addition to analog signals



### Aftermarket & Accessory Offerings

- KOPkits<sup>®</sup>
- Calibration Columns
- Y Strainers
- Pressure Relief Valves
- Back Pressure Valves
- Pulsation Dampeners
- Pressure Gauges
- PULSAlarm Leak Detection



# MPC<sup>®</sup> Metering Pump Controller

## Features Comparison

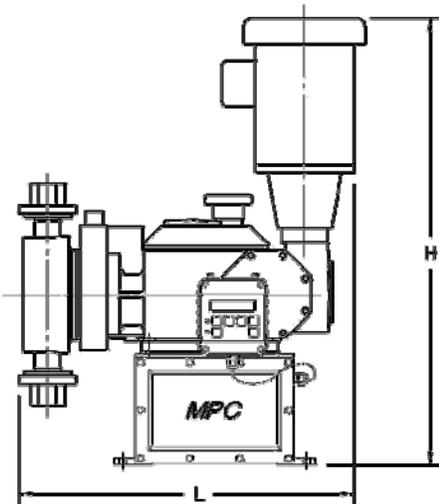
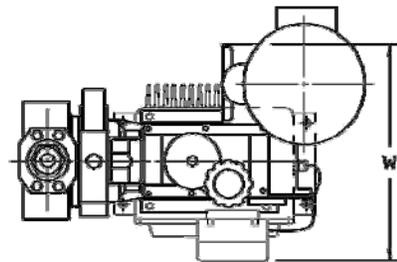
Feature	MPC	Competition	DC Drive	AC Drive	Vector
NEMA 4X Enclosure (minimum IP56)	X	----	X	X	X
Typical Turndown	<b>1000:1</b>	90:1	20:1	10:1	100:1
CSA Approval & UL Approved	X	----	Optional	Optional	Optional
On Board Pump & Process System Diagnostics	X	X	----	----	----
Simple Flow & Signal Calibration Routine	X	X	----	----	----
Keypad with Liquid Crystal Display	X	X	----	X	X
Single Function Auto/Manual Switch	X	----	X	X	X
Motor ON/OFF Control at Pump	X	X	----	----	----
Memory of Settings	X	X	----	X	X
Alarm Outputs	X	X	----	Optional	Optional
Uses a Motor Requiring No Maintenance	X	X	----	X	X
Factory Calibration of Flow w/Flow Indication at Pump	X	X	----	----	----
Auto Re-Calibration of Flow if Manual Stroke Length Control Changes	X	----	----	----	----
CE Mark Standard	X	X	Optional	Optional	Optional
Modular for Field Convert from Pump Mount to Wall Mount Controls	X	----	----	----	----

### Engineering Data

- Power Input Options:** Single Phase, 115 or 230VAC (50 or 60 Hz)
- Analog Input/output:** One of each, Range is 4-20 mA
- Digital Input:** (Two) Powered (up to 24V) or Non-powered solid-state contacts -user configurable
- Digital Output:** (Three) Non-powered solid-state contacts-user configurable
- Rated Ambient Temperature:** 0°C-40°C (32°F-104°F)
- Steady State Accuracy:** +/-1% over a 3:1 speed turndown  
+/-2% over a 1000:1 speed turndown

### Dimensions

DIM	MODEL 25		MODEL 55	
	Inch	MM	Inch	MM
L	21.3	542.1	22.0	559.8
W	12.8	325.1	12.8	325.1
H	33.5	851.3	33.5	851.3
Approx Shipping Weight	146 Lbs	66.2 Kg	161 Lbs	73 Kg



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