

**PULSAtron**<sup>®</sup>  
DIAPHRAGM METERING PUMPS  
SERIES M

The Best Solution for  
Higher-Capacity, Reliable Metering



# PULSAtron<sup>®</sup> SERIES M

**Extending the capabilities of the PULSAtron electronic metering pumps, the Series M builds on a heritage of industrial duty pumps from Pulsafeeder, the recognized leader in metering pump technology.**

**The PULSAtron Series M is World-Class – designed to meet your country's specific needs.**

### **Precise Flow Control**

A large, easy-to-grip handwheel with 1% graduations allows you to control the desired stroke setting to a resolution capability of 1/4% over a range from 1-100%. Accuracy is better than  $\pm 2\%$  of rated capacity.

### **5-Year Warranted Drive**

The non-vented gear box design prevents the ingress of water and other harmful materials. This superior design, coupled with quality materials, affords an exceptional reliability warranted for 5 years.

### **Best Performance**

Our guided check valves, with their state-of-the-art ball and seat design, provide precise metering and excellent priming and suction lift. Convenient cartridge valve design as shown for PVC and PVDF construction. 3-Component valves with 4-bolt tie bar design offer extra rigidity for 316SS and all flanged selections.

### **Superior Diaphragms**

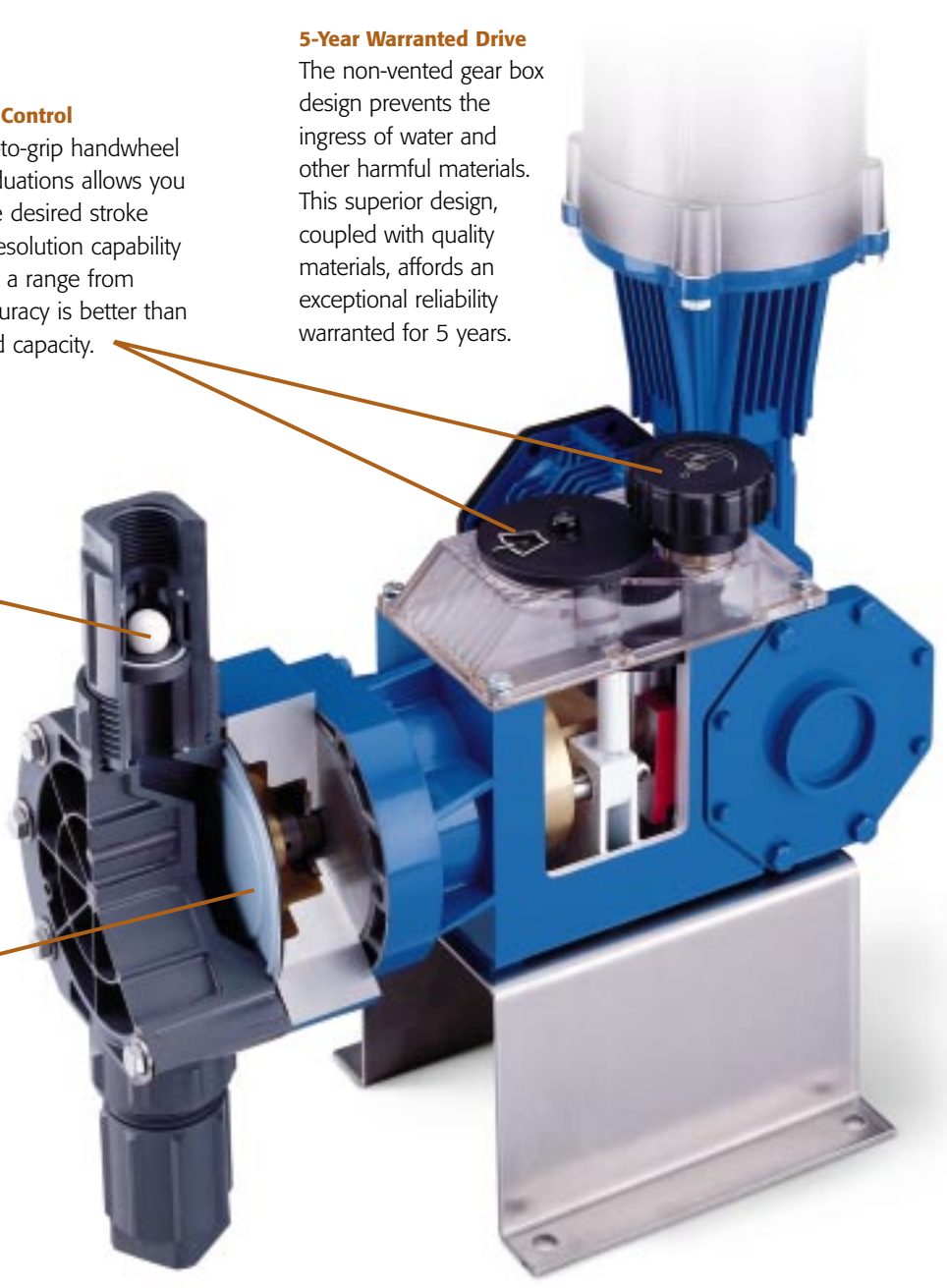
Teflon-faced, metal-reinforced diaphragms are designed and constructed to exacting standards for leak-free, sealless integrity and long life.

### **Product Isolation**

Maximum product and pump protection provided by isolating the wet end of the pump from the drive mechanism.

### **Highly Adaptable**

Simple to install with small footprint and multiple motor orientations, able to fit any space requirements and affords best access.

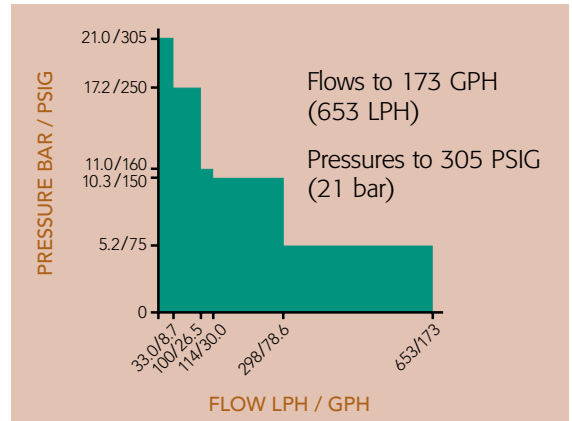


W I D E S E L E C T I O N

**Tested and Proven Liquid End Materials**

Wet-end materials include PVC, PVDF and 316SS heads and fittings for best chemical compatibility at pressures up to 305 PSIG (21 bar).

LIQUID END CONSTRUCTION			
HEAD	BALL	SEAT	GASKET
PVC	Ceramic, Alloy C	PVC	PTFE
PVDF	Alloy C	PVDF	PTFE
316SS	316SS, Alloy C	316SS, 020SS	PTFE



OPTIONS TO ENHANCE SAFETY AND EFFICIENCY



**Multiplex Pump Arrangements**

PULSAtron Series M pumps can be combined in multiplex configurations (parallel or opposed) to save space and meet your specific connection needs. Duplex pumps allow you to control the ratio of two different fluids into a common stream or provide continuous flow of a single fluid. Also, by running multiple pumps off the same motor and gear box, you can save energy and improve cost efficiency.



**Flow Control**

Flow control is available via both stroke length and motor speed. The micro-processor-based MLC stroke length controller provides many exclusive features including on-board calibration, advanced capabilities and flexible operations interface, compliance with worldwide standards, on-board batch/turndown programming, systems protections and mechanical override. For basic motor speed control, the DC SCR drive allows for both manual and signal following capability.



**Worldwide Process Connections**

Connections are available to meet all worldwide requirements, including NPT and BSPT threaded, along with ANSI and DIN flanged options.

**Teflon Double Diaphragm Leak Detection System**

Safeguard your system against costly product losses and equipment damage and protect the integrity of your process with an optional leak detection system.

## KOPkits®



Pulsafeeder has built a reputation for superior reliability by supplying carefully designed, high-quality equipment. Even the best equipment, however, requires a minimal amount of maintenance. KOPkits are designed to guard against unnecessary downtime and assure the highest level of efficiency and uninterrupted service from our PULSAtron pumps. KOPkits contain the recommended spare parts that usually require preventive maintenance. KOPkits are immediately available in all wetted material at affordable prices.

## Back Pressure Valves



Used to provide positive back pressure for systems with less than 5 PSI pressure difference between the discharge and suction sides to insure best metering performance.

## Pressure Relief Valves



Sound system design requires the installation of a pressure relief valve on the discharge side of all metering pumps.

Pressure relief valves protect system piping and components by eliminating high pressure conditions caused by an inadvertent closure of a valve or other line restriction.

## Calibration Columns



Calibration Columns are used on the supply side of the pump to permit pump-flow calibration. These columns are constructed of clear PVC tubes with PVC end caps or an option for Borosilicate glass with Teflon® end caps and should be sized for a 30-second draw down.

## Y Strainer



Strainers, with a 100 mesh screen, should be used to assure proper pump check valve performance when solids are present in the supply fluid. Allow for a 1 PSI maximum pressure loss through a clean screen.

## Pulsation Dampeners



Pulsation Dampeners are used to convert pulsing flow to uniform flow. This may be desirable to eliminate piping vibrations or to significantly reduce pressure loss through the discharge or suction line.

**PULSAFEEDER**  
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