



**CHEM·TECH**

# DIAPHRAGM AND PERISTALTIC METERING PUMPS

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*SIMPLE, RELIABLE, REAL PERFORMANCE*



# REAL PERFORMANCE CHEM-TECH

## *Pulsafeeder simplifies metering pump technology.*

Technology is the key to delivering responsible products to the markets that we serve. Leading the way in the development of metering technologies, Pulsafeeder continues to set the standard for accuracy, reliability and safety.

Helping customers find a new approach to an old problem is what we do best.

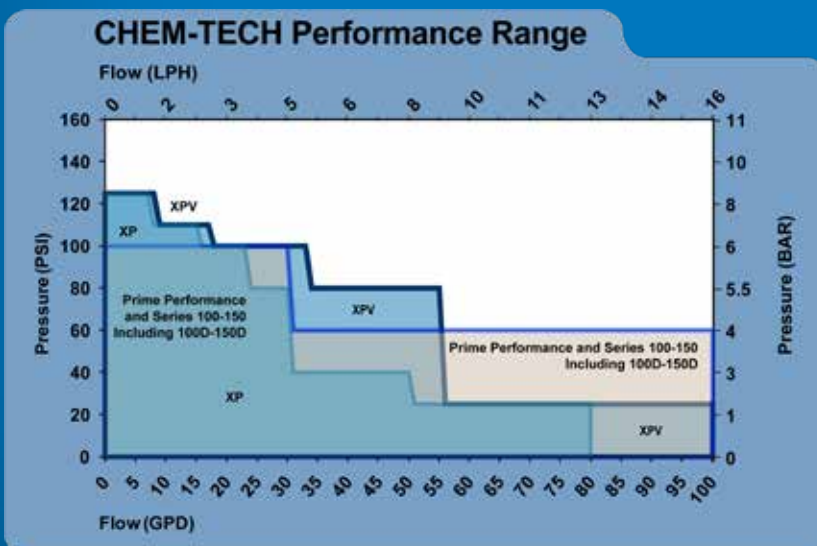
In the water conditioning market the CHEM-TECH product line has addressed the needs of professionals for over 50 years through products that are:

**Reliable:** Products you can rely on to precisely dose water treatment chemical(s) to meet your needs.

**Easy-to-Use:** Simple, intuitive products to operate and maintain, with as few parts as possible.

**Affordable:** True value, including initial purchase, operating costs and maintenance leading up to total cost of ownership benefit.

**Long-lasting:** Robust, durable components, products and systems designed and manufactured to withstand the conditions of service.



All Chem-Techs are tested and rated under hot conditions guaranteeing that the flow and pressure ratings meet the specifications.



## MAKING YOUR LIFE EASY.

Pulsafeeder strives to offer everything necessary for your fluid handling needs. Offering a complete solution to your need of ancillary products that enhance and compliment Pulsafeeder pumps makes life simpler for water treaters.



# DIAPHRAGM PUMPS FOR DEPENDABILITY AND EASE OF MAINTENANCE.

Diaphragm metering pumps are respected by professionals around the world for dependability, easy maintenance and versatility in a wide range of water conditioning applications. Fluid Handlers rely on Chem-Tech pumps for an economical, consistent performance.

The key element which differentiates these pumps from other types is the elastomer diaphragm. This diaphragm is sealed against the reagent head forming a seal-less, leak free pumping chamber. The motor is connected to the diaphragm to create the pumping motion. As the diaphragm moves away from the face of the reagent head, it creates a vacuum which closes the discharge check valve and opens the suction check valve, drawing the pumped fluid into the pumping chamber. As the motor forces the diaphragm toward the face of the reagent head, the suction check valve closes and the discharge check valve opens allowing the liquid to flow out the discharge valve.



## 100 / 150 SERIES

- Feed rates from 3 to 100 gpd (0.47 to 15.76 lph) / Pressures up to 100 psi (7 bar)
- Bleed Valve Assembly: Aids in the priming and relieves pressure from the discharge line
- pH Adjustment Applications: Soda Ash, Caustic



## DEGASSING SERIES

- Feed rates from 15 to 100 gpd (2.34 to 15.76 lph) / Pressures up to 100 psi (7 bar)
- Self priming
- Degass Head Assembly: Top mounted vent valve evacuates gas bubbles for return to the tank to eliminate vapor lock
- Disinfection Applications: Chlorine, Hydrogen Peroxide, Chemicals that tend to out gas

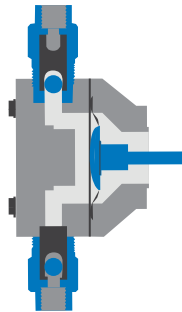
***Simple Installation: Injection back pressure valve assembly enables injection at an angle and inhibits siphoning.***

# ADVANCED FEATURES AND FUNCTIONS TO BETTER SERVE YOUR CUSTOMERS.



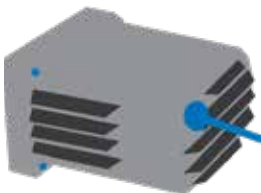
## PREMIUM CONSTRUCTION.

- Few moving parts
- Chemical resistant materials: Motor and gear shaft are treated with a special lubricant to extend th life of the pump in normal operating environments
- Sealed gear train: Lowers maintenance and extends the life of the pump
- Feed rate control: The output is fully adjustable over the entire operating range



## VISIBLE CHECK BALLS.

- Easy viewing to ensure proper operation on 100 / 150 Series
- Quad ball check system: Ensures accurate and reliable metering performance



## MOTOR DRIVEN DIAPHRAGM.

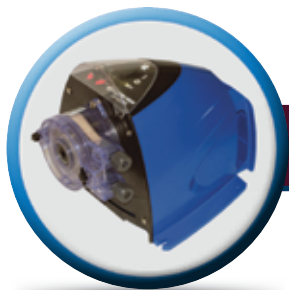
- Cool running
- Long lasting

*Features and functions that create a simple to use, reliable, robust diaphragm metering pumps that matter to Fluid Handlers, assisting them in distributing chemical into their system effectively and safely.*

# PERISTALTIC PUMPS INHERENTLY SELF PRIMING & OFF-GAS TOLERANT.

Peristaltic metering pumps are inherently self priming and off-gas tolerant making the Chem-Tech peristaltic pumps the ideal choice for chlorine and similarly volatile chemical applications. Fluid Handlers can select from multiple control configurations – with features and benefits that customers ask for. Fixed Rate models are simple and straight forward pumps for water conditioning applications where economy and ease-of-use are required. Adjustable Rate models with 20:1 turndown for enhanced flexibility. While the XPV Variable Rate models with LCD display makes simple, intuitive program selections and clearly displays operating parameters. Variable Rate models also allows a variety of choices of input signal types, and onboard timer programs to customize this pump to any application.

The head on a peristaltic pump consists of a piece of tubing and a roller assembly that moves chemical around the circular head. The engineered composite, three piece roller assembly reduces friction, while allowing a greater load capacity and longer tube life.



## XP SERIES

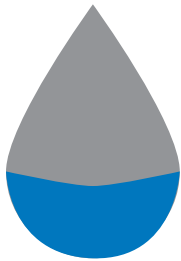
- Feed rates from 4 to 80 gpd (0.60 to 12.6 lph) / Pressures up to 125 psi (8.6 bar)
- Models: Fixed or Adjustable
- Inputs: Pulse, Dry Contact, Flow Switch Activated
- Timers: 7 Day/8 Event Electronic Timer models



## XPV SERIES

- Feed rates from 8 to 100 gpd (1.3 to 15.8 lph) / Pressures up to 125 psi (8.6 bar)
- Variable Speed
- Flow Totalization: Accurately reports the volume pumped at the touch of a button
- Inputs: Fully scalable 4-20 mA, Hall Effect, Contacting Head Water Meter
- Timers: Cycle or Daily

# ADVANCED FEATURES AND FUNCTIONS TO BETTER SERVE YOUR CUSTOMERS.



## DESIGNED WITH THE WATER CONDITIONER IN MIND.

- Sealed gear train: Rugged, sealed, all metal gears, housed in a sealed metallic housing lowers maintenance and extends the life of the pump
- Metallic gear box with gasket
- Chemical resistant materials: The tubing assembly Norprene is the only wetted component within the pump for maximum compatibility



## AUTOMATIC DEGASSING TECHNOLOGY.

- Mixed fluid capable: Peristaltic tube design with triple roller assembly pump both liquid and gas without risk of vapor lock
- Inherently degassing
- Self priming



## SIMPLE INSTALLATION.

- Triple roller assembly prevents siphoning and eliminates the need for a foot valve/anti-siphon
- External control capable: Inputs = Fully scalable 4-20mA, Hall effect or Contacting head water meter

**Easy tool less tube replacement; Stainless Steel wing bolts allow for quick and easy tube replacement.**



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