

Time and Again
Pulsafeeder sets
the standard.



PULSTAR

The time is
right for **PULSAR**[®]

For over 50 years,
Pulsafeeder has been
the recognized world
leader in metering pump
design and technology.

We've carefully engineered high-performance equipment for a broad range of complex fluid-handling applications.

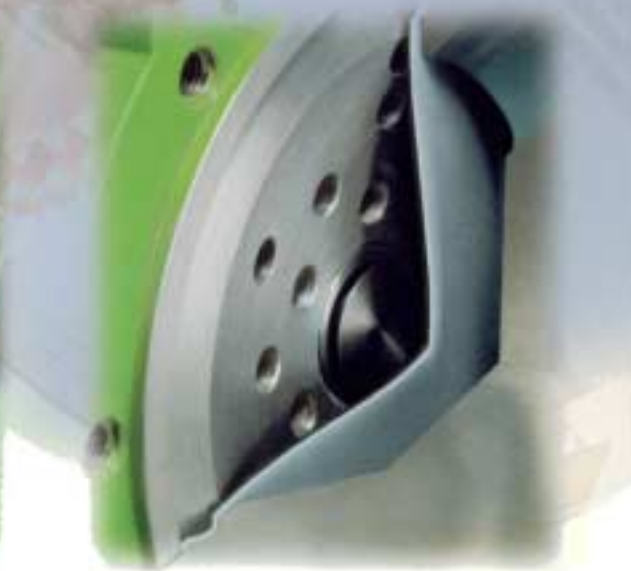
We've also developed leading-edge control technologies to help you monitor and regulate pump operation. Always with the same goal in mind: total customer satisfaction

Next-generation pump. Now, Pulsafeeder has produced Pulsar, a generational leap in metering pump design — one that combines ALL of the IMPORTANT FEATURES and BENEFITS you desire most.

Long-term value. We've designed the Pulsar metering pump to be durable, system resilient, and easy to commission. So you can count on outstanding performance well into the 21st century.

World-class and metric.
Pulsar is a fully metric pump designed to meet your country-specific needs. Process and electrical connections are available in English and Metric sizes.





**Exclusive hydraulic diagnostics
Provide immediate visual
Intelligence about pump and
System performance**

Instant visual indications of:

- Normal hydraulic operations
- System over-pressure
- Adjustment of by-pass for desired over-pressure setting
- Proper oil fill level
- Diaphragm integrity

**Advanced balanced
diaphragm design assures
Reliability and longevity**

Pulsar's one-piece composite design diaphragm with integral o-ring provides superior performance and extended life.

**Three-component check valve
design provides exceptional
metering performance**

Ball-type valves are manufactured to maximum sphericity for precise seating and metering accuracy. The ball chamber has a wide-clearance flow path with controlled rise and four-point guiding, assuring good valve action and valve seat life.

**External hydraulic bypass
valve adjusts easily**

Valve operation is instantly verified through the hydraulic window. Bypassing of fluid indicates that the pump's hydraulic setting has been exceeded.

**Hydraulic performance valve
supports system requirements**

The Pulsar pump's cartridge valve assembly provides resiliency to system upsets and accommodates available NPSH as low as 3 psi.



**Rugged power transmission
train provides extended life**

High-quality materials in the drive train enhance pump durability. The worm is of hardened and polished steel, and the worm gear is made from DYANLLOY® bronze. And the forged eccentric shaft is a non-axially loaded design.

**Robust four-bolt tiebar design
enhances performance**

This rugged design resists connection forces and helps promote leak-free performance.



HYDRAULIC DIAPHRAGM METERING PUMPS



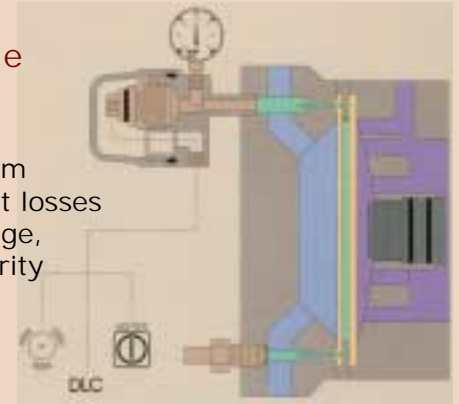
Manual stroke adjustment hands you the ultimate in control

Easy-grip knob and resolution of $\pm 0.5\%$ provide accurate control. Pulsar's automatic stroke lock mechanism with mechanical disengagement maintains the required stroke length setting.

All the options you need for greater safety & efficiency

PULSAlarm® double diaphragm leak detection system

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



This pressure system monitors an area of evacuated space between PULSAlarm's Teflon® sandwich diaphragms. If a rise in pressure is detected, the leak detection system's alarm switch activates a relay, which can signal an alarm and



stop the pump. The pumped product is contained and isolated in a leak-tight environment if the diaphragm fails.

What's more, the advanced PULSAlarm leak detection system exceeds the rated pressure capability of the pump.



C face motor assures better protection

Pulsar employs a C face motor that eliminates exposure to rotating couplings and guards, and needs no alignment. Plus, our envelope offers the most economical and flexible use of space.



Totally non-vented design protects against contaminants

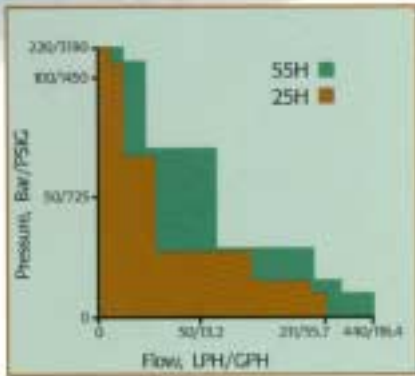
The Pulsar pump's non-vented design prevents the ingress of water and other harmful materials, providing dependable performance and exceptional durability — even in the harshest environments.

Multiplex pump arrangements

Pulsar pumps can be combined in multiplex configurations (parallel or opposed) to save space and meet your specific system connection needs. Pulsar 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 gearbox, you can save energy and improve cost efficiency.



PULSAR®



Pulsar delivers outstanding performance

Pulsar pumps offer typical liquid end construction of 316 stainless steel, PVC, and PVDF with an elastomer-backed Teflon diaphragm. The liquid end is available in other standard high-alloy materials, such as Alloy C, Alloy 20, and Monel.

Accuracy is $\pm 0.5\%$ of set point, and capacity is adjustable from 100:1. Ask your representative for our Pulsar 25H and 55H technical specification data sheets.



KOPkits® Keep On Pumping Kits

Pulsafeeder has earned a reputation for exceptional dependability because of our carefully designed, high-performance equipment. KOPkits® are designed to minimize downtime and assure you of the highest level of efficient, uninterrupted service from your Pulsar pump. KOPkits® contain the recommended spare parts of the liquid end that typically require preventative maintenance, such as: a diaphragm, check valve seats, balls, and O-rings.

5-year warranty

You can count on Pulsar pumps for years of precise, reliable performance. In fact, we're so sure your Pulsar pump will provide many years of valuable service that we'll back it with this industry's most complete 5-year warranty.

PULSAFEEDER

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