



STD 675



PRESSURE UP TO

5000 psi



PETROCHEMICAL PUMPS

DEPENDABILITY AND SAFETY YOU REQUIRE.

PROVEN PUMPS FOR PETROCHEMICAL PROCESSES.

The four most common chemical metering pump applications in chemical manufacturing plants include:

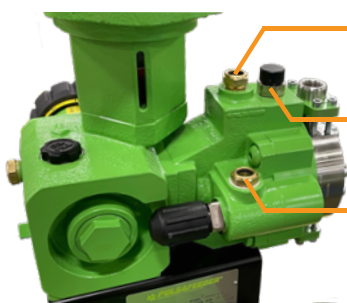
- Dosing precise volumes of chemicals to make products · Pre-treating the process water to boost quality and efficiency
- Dosing anti-scaling chemicals to clean and protect plant infrastructure · Post-treatment of the wastewater prior to disposal

PYROPHORIC SERVICE CONFIGURATIONS



- Special reagent head and check valve designs to ensure 100% leak free assembly
- Monoblock check valve housing eliminates joints and minimizes potential leak paths
- Nitrogen blanketing prevents pyrophoric liquid from exposure to air in the event of a rupture
- Double diaphragm design with hydraulic actuation and leak detection
- When maintenance is required, integrated nitrogen-purge fittings allow for nitrogen to be flushed into diaphragms to remove traces of pyrophoric liquid trapped between two diaphragms

PULSAPRO HYDRAULIC DIAGNOSTICS



Diagnostic Window for visual confirmation of prime



Push-to-Purge button for quick and easy priming (without additional tools)



Hydraulic Bypass Valve Diagnostic Window allows you to check on current condition of the pump



Integrated Oil Level Window means no more dip sticks or mess

There's a direct correlation between the efficiency of the refinery and the cleanliness of the water used.

Depend on Pulsafeeder when stringent testing and material traceability is required.

For high pressure injection of hydrocarbons, catalysts, peroxide, hexane or where process chemicals are flammable and atmospheres are hazardous, Pulsapro hydraulically actuated diaphragm metering pumps can provide the dependability and safety you require.

- Accurate metering of hazardous and non-hazardous chemicals
- Double diaphragm and leak detection available
- Custom configuration to tailor your application



PULSA SERIES FEATURES & BENEFITS

- Full motion stroke length control yields 0-100% capacity with linear flow adjustment over a 10:1 turndown range
- Hydraulically balanced diaphragm for long life and reduced service costs
- Proven hydraulic management system assures consistent performance and rapid recovery from system upsets
- Material options for safety, durability and chemical compatibility
- Epoxy coating resists corrosion from atmospheric contaminants
- Sealed drive protects against atmospheric contamination and assures long service life
- Remote head capabilities and metal diaphragms for high temperatures



PULSAPRO FEATURES & BENEFITS

- Full motion stroke length control yields 0-100% capacity with linear flow adjustment over a 10:1 turndown range at +/- 0.5% accuracy from set point
- Unique 3 valve hydraulic management system makes the Pulsapro pump resilient to system upset:
 - Hydraulic performance valve maintains optimum diaphragm position and allows low NPIP of 5 psi (0.31 bar)
 - Push-to-prime button allows quick manual priming of the hydraulic system in addition to automatic air bleeding, significantly speeding up priming
 - Externally adjustable hydraulic by-pass valve protects pump against system over-pressurization
- Four bolt tie-bar design provides enhanced resistance to piping moments and forces, avoiding leaks and unnecessary outages
- Three component check valves provide for controlled fluid displacement assuring reliable and accurate chemical dosing. The design also allows for easy removal of the check valve assembly without disturbing system piping.

OPTIONS FOR PULSAPRO AND PULSA SERIES

- Multiplexing
- Special Materials
- NEMA 7 explosion proof stroke controllers suitable for Division 1 or Division 2 areas
- 100% Compliant to API675 Standards

FOR MORE INFORMATION VISIT OUR WEBSITE PULSAFEEDER.COM



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PulsaPro

For 80 years, positive displacement, reciprocating metering pumps such as Pulsafeeder's Pulsa Series have led the industry. These hydraulic diaphragm pumps have been the benchmark for safety, reliability and accuracy. Today, with automatic degassing features like the HypoValve, API-675 compliance, and certified by WQA to "NSF/ANSI/CAN 61" and "NSF/ANSI 372", the PulsaPro Series is a perfect fit for Water & Wastewater Treatment, Oil & Gas and Industrial applications.



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API 675 PUMPS



The API 675 specification identifies requirements for reciprocating metering pumps used in the petroleum, petrochemical and gas industry services. It provides a framework for pump manufacturers and purchasers to agree on the design, fabrication and testing of a metering pump.

Since 2014, a number of exceptions and waivers have been allowed to this specification – for items such as studs, fasteners, flanges, relief valve settings, external parts, bolting materials, flexible couplings, baseplates and other ancillary items. A variety of clarifications stipulate how flow &



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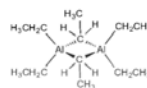
Triethylaluminum / TEAL



What is TEAL?

Triethylaluminum is a commonly used cocatalyst in the Ziegler-Natta polymerization of olefins/alkenes. This is a key chemical for manufacturing of:

- Polypropylene (PE)
- High density polyethylene (HDPE)
- Low density polyethylene (LDPE)
- Linear low density polyethylene (LLDPE)



The accurate dosing of TEAL is important to achieve the proper recipe for manufacturing as well as keeping costs in control. Safety is paramount as this is a highly flammable liquid with a low flashpoint and combusts with the introduction of water.



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AN ISO 9001 CERTIFIED COMPANY