

FLOWGUARD®

PULSATION DAMPENERS

FLOWGUARD USA



FlowGuard pulsation dampers are specifically engineered to manage pulsations, pressure surges, & thermal expansion in pipelines.



FlowGuard pulsation dampers use a small volume of gas, typically nitrogen, contained within a flexible membrane inside a non-corrosive shell. When a pulse from the pump occurs, the gas is slightly compressed. As the flow decreases, the stored pulse is released back into the line, resulting in a smooth flow and minimizing pressure fluctuations.

BENEFITS:

- Eliminate pressure fluctuations and surges
- Minimize vibration and shaking of pipes
- Maintain a continuous, steady flow
- Decrease noise in problematic systems
- Reduce strain on pump motors and gearboxes in long pipe runs
- Prevent pump over delivery
- Avoid cavitation caused by inadequate suction conditions, long suction lines, and more



QUALITY:

Conforms to internationally recognized pressure vessel codes and may be supplied with full material certification (ASME Coded) if required.

PRESSURE REQUIREMENTS:

150psi (10 bar) to 15,000psi (1,000 bar)

FEATURES:

- Unrestricted inlet port (no poppet valve) for enhanced damping efficiency
- Welded flange connections, along with BSP and NPT threaded options
- User-friendly gas charging system
- One-piece molded membranes (no glued joints) in all standard sizes
- In-line (2 port) option available with customizable port orientation
- Easily serviceable membrane that can be replaced without removing the damper from the line
- Fully coded and approved welding, with 100% x-ray inspection available if needed



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