

**INLINE PULSATION  
STABILIZERS**

## DUAL-ACTION, INLINE FLUID STABILIZERS REMOVE THE SHOCK FROM YOUR SYSTEMS

### Experts in Pump Products

CoorsTek®, a recognized worldwide leader in the engineering and manufacturing of technical ceramics, provides advanced materials and design configurations for severe-service environments. Proven superior for extreme-duty applications, CoorsTek has become a preferred supplier of pump products and accessories.

### Reduce Maintenance and Operating Costs

- Extend valve, fitting, and gauge life
- Eliminate vibration that causes significant damage to weld connections and support structures
- Improve metering and control instrument life span
- Eliminate wear-producing shock in bearings, packing, seals, and other pump components
- Reduce down time required for part replacement
- Increase system capacity by safely permitting increased flow velocity and operating pressures
- Improve accuracy of setting and measuring and metering equipment
- Promote safety by preventing breakage and leaks in systems carrying flammable and hazardous materials

### Features

- Dual-action design utilizes a throttling orifice and a gas compression chamber to remove fluid pulsation
- Through-flow design acts on every gallon passed through the stabilizer
- Installs inline with your piping and can be mounted vertically or horizontally – at any angle
- Surge removal as high as 95% can be achieved with the proper installation and sizing
- Compact design allows for installation in tight equipment configurations
- Handles a wide range of line sizes, fluids, temperatures, and pressures

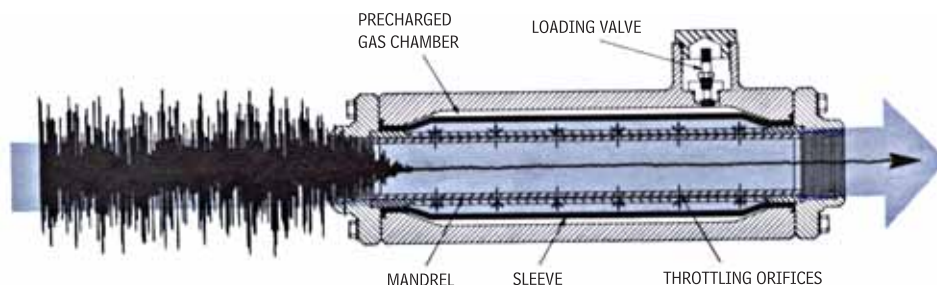
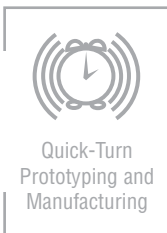
### Installation

The location of an Inline Stabilizer depends on the source of the pulsation or surge of pressure. When pulsation is caused by a pump discharge, the stabilizer should be installed as close to the discharge as possible. For pressure surges created by quick closing valves, install the stabilizer upstream from the valve, or other device causing the surge, and as close to this equipment as possible. When using the stabilizer to protect metering equipment and control instruments, install the unit upstream and as close to this equipment as possible. Most common connections are available, or specify the type of connection you would like on your unit if it is not shown.

### Operation

Within the stabilizer is a mandrel perforated with throttling orifices, through which liquid flows from either direction (see illustration, below). Around the mandrel is a synthetic rubber sleeve, which is sealed and held in place by the case heads. This area forms a sealed gas chamber between the outside of the sleeve and the inside of the case. After installation, this area is filled with an inert, compressed gas to predetermined charge pressure.

When the hydraulic system is operating normally, the synthetic rubber sleeves rests close to the mandrel. The hydraulic pressure of the liquid flowing through the stabilizer balances the force of the gas acting on the outside of the sleeve. When pulsation or surges occur in the system, the liquid is forced through the orifices in the mandrel to expand the sleeve and compress the gas surrounding the sleeve. This action effectively dissipates the energy in the pressure surge.



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