

# PULSATION DAMPER INSTALLATIONS TO MULTIPLEX PUMPS

Performance requires: Close coupling to pump. No oversized pipes, Straight shot or 5D bends.

Weld the pipe base in line, or If you flange your "Ts", flange the damper pipe base.

**WaveGuard**  
Wag/Cer.

**PumpGuard**  
Foam  
"PERMACUSHION"

**PipeGuard LP**  
Acoustic Interceptor "De-Couplers"

**PipeGuard HP**  
Available at extra with single connection, no smoothness guarantee at high frequency.

**PipeHugger LP**  
Liquid side up, prevents bubble collection, stops pump "knock"

**Block fits pipe base in place of damper for for Hydro-test etc.**

**HP**  
Economy all stainless, for externally corrosive environments.

**CONSTANT VELOCITY FROM SUPPLY INTO DAMPER** (MEDIUM PIPE DIAM.)

**PEAK VELOCITIES OUT DAMPER INTO PUMP** (LARGEST PIPE DIAM.)

**PEAK VELOCITIES OUT OF DAMPER INTO DAMPER** (SMALLER PIPE DIAM.)

**CONSTANT VELOCITY INTO SYSTEM** (SMALLEST DIAMETER)

# PULSATION DAMPER INSTALLATION TO DOSING SYSTEMS

Performance requires: Close coupling to pump. No oversized pipes. Straight shot or 5D bends.

IN PLACE FLUSH THROUGH or USE THE SECOND CONNECTION FOR RELIEF VALVE, SYSTEM DRAIN, OR PRESSURE INSTRUMENT TAP.

**PipeGuard Plus**  
with pin type N2 pre-fill valve

**Flexorber LP DAMPER**  
Smooth Flow  
Adjustable Limited Back Stroke  
Spring Return  
Solenoid

**LDI FLEXFLOW OR VIRGIN TEFLON**  
Bladder  
Anti-Extrusion Plate sits on Bumps on the elastomer liner

**PipeHugger LP**

**STAINLESS**

**PLASTIC**

**EP, Hyp, Fluoro, Liquid, 316SS**

**but not the cost of Tantalum Zirconium Hast.C276**

**Replaceable elastomer liner in same material as liquid bladder**

**For externally corrosive use where danger of cold brittle fracture of plastics or softening due to high temperature is not acceptable.**

**TEFLON is an E I DuPont trade mark.**

**STANDARD IS FLO-THRU.** with pin type N2 pre-fill valve