

# A Better Pulsation Dampener

Positive Displacement (PD) pumps create pulsation and hydraulic shock in normal operating conditions. These silent pressure spikes will weaken and damage your system over time, leading to unexpected and catastrophic failures in key safety applications.

## Save Maintenance Costs and Lower Your Risk

NuSource utilizes patented, proprietary technology from NUCCORP to provide the nuclear industry with a unique bladderless pulsation dampener (BPD).

### Is Your System at Risk?

Dampeners that rely on bladder technology expose your system to the effects of constant pressure fluctuations and corrosion: Ruptures, Leaks, and possible Gas Migration.

- Bladder failures are not easily detected
- A bladder-type system is only effective over a small pressure range.
- Many OEM's of the bladder-type pulsation dampener no longer maintain an Appendix B Quality Program or an ASME (N) Stamp

Our bladderless pulsation dampener design involves a large spherical ASME Section III, Class 2 pressure vessel with internal features that allow flow characteristics inside the vessel to damp out pump pressure pulses.

This design has been used successfully in nuclear power plants in the US and Switzerland; specifically, downstream of APV Gaulin triplex positive displacement pumps.



## Avoid the High Costs of Maintenance and Emergency Servicing

Protect your systems from destructive pulsations and surges

### DESIGN FEATURES:

- **Stainless Steel Pressure Boundary**
- **No Internal Moving Parts**
- **No Bladder**
- **Fully Adjustable**
- **Maintenance Free**

### *Acoustically Adjustable*

*The NUCCORP BPD is the only bladderless pulsation dampener on the market that can be adjusted after installation.*

**NUCCORP**

### Work with NuSource:

- ASME Code Section III Design Analyses
- ASME Code Design Report
- Customized Design to Suit Existing Infrastructure
- Prototyping and Testing
- On-Site Installation Support
- Follow Up Support and Adjustments



**Waylon Waters**

Office: (571) 482-7404

Direct: (810) 223-4483

wwaters@NuSourceLLC.com

Connect with me on LinkedIn