



## APPLICATION STORIES

---

### **APPLICATION: PHARMACEUTICAL MANUFACTURING**

A leader in the manufacturing of pharmaceuticals uses a Goulds 3196 centrifugal pump size 1x1.5-8 to transfer 35 gallons/minute of acetone at 30 psi from the tank farm into the Clean Storage Room.

### **PROBLEM:**

There is an automatic actuating valve in the line that opens and shuts upon plant demand. This quick shutting valve is sending pipe hammer down the line and is causing shaking of the pipes, leaks, pipe hangers pulled from the ceilings, and damage to the pump, which have caused costly unwanted repairs.

### **SOLUTION:**

A BLACOH SENTRY I Steel Flat Top chargeable dampener was installed near the quick closing valve. The BLACOH dampener contains a PTFE bladder to absorb the hammer from the quick closing valve. The charged air in the dampener compresses and expands as the valve shuts and absorbs the shock so the hammer and vibration are not sent down the line.

### **RESULT:**

Since the SENTRY I Steel Flat Top chargeable dampener has been installed, the pipe hammer has been eliminated! No more pump problems or repairs, replacing pipe hangers, fixing leaks, and most important, no down time has occurred.

### **SUBMITTED BY:**

Nathan Edens  
TENCARVA MACHINERY CO.



---

### **BLACOH FLUID CONTROL, INC.**

601 Columbia Ave • Bldg D • Riverside, CA • 92507 • USA  
Phone: 800.603.7867 • 951.342.3100 • Fax: 951.342.3101  
Email: sales@blacoh.com • [www.blacoh.com](http://www.blacoh.com)