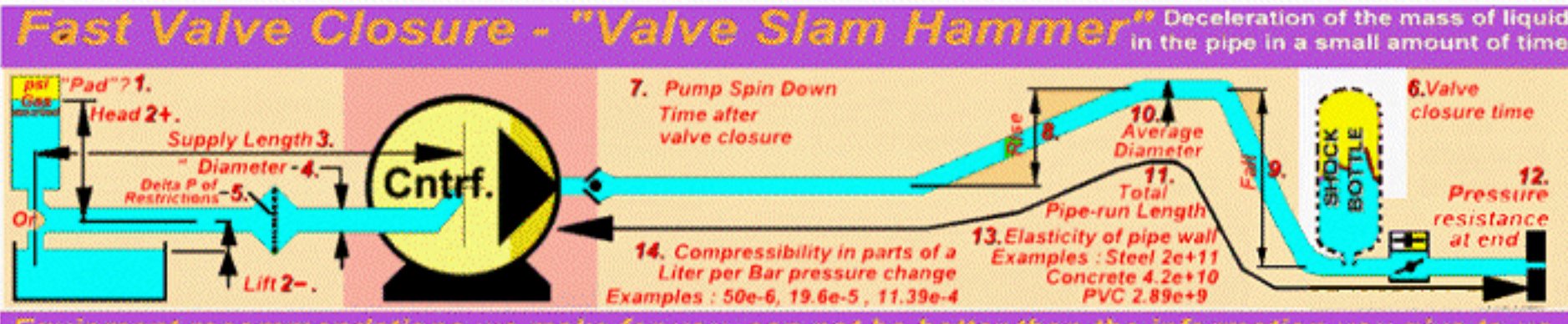
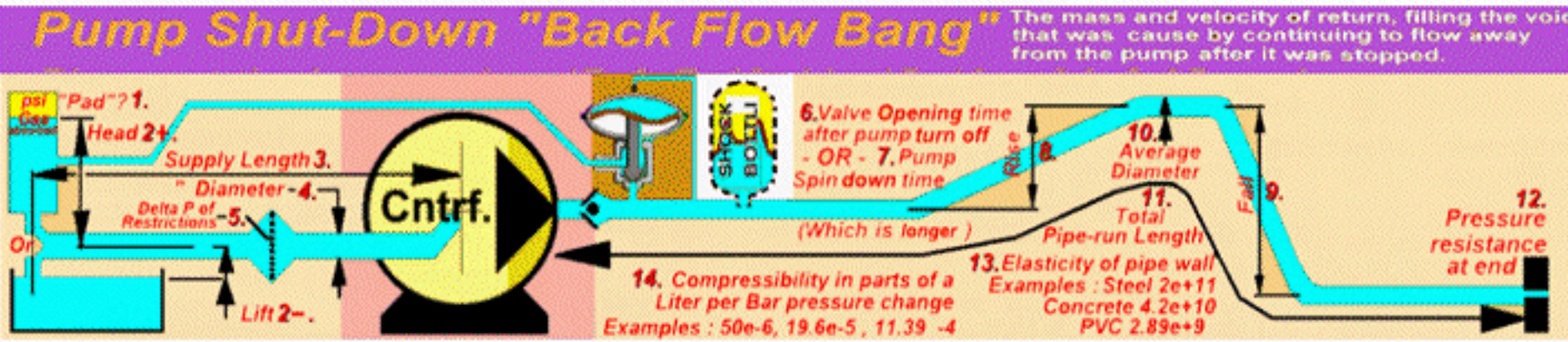
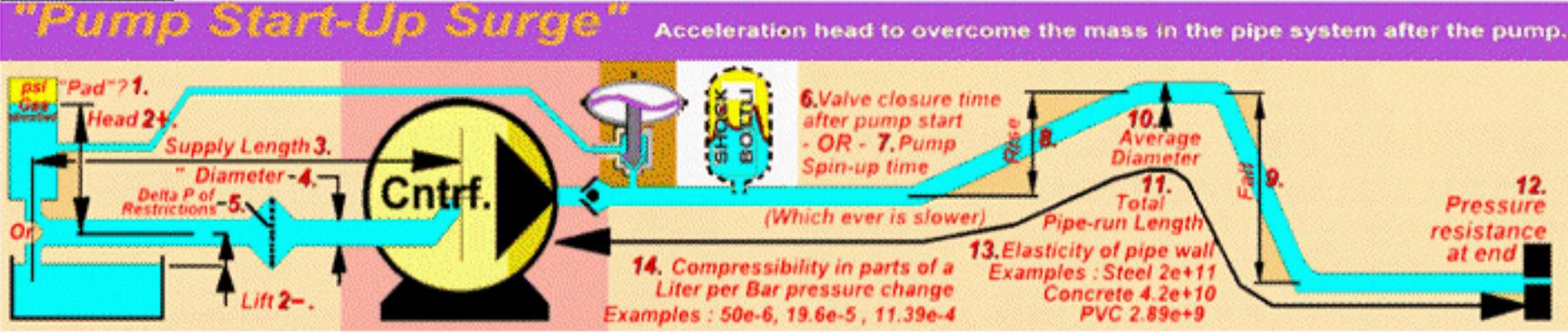
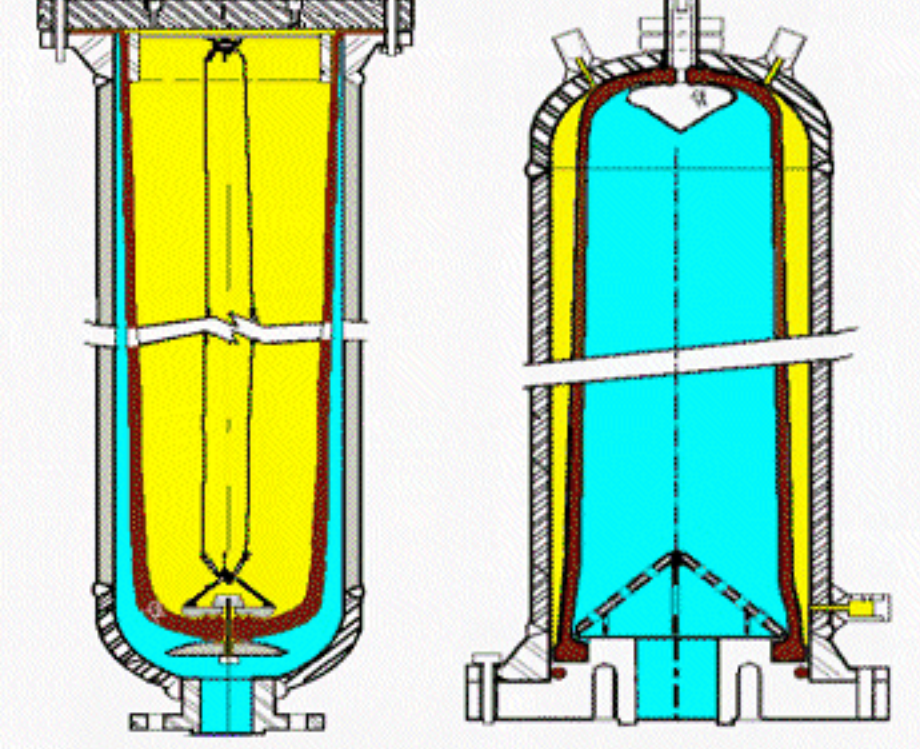


Where to install Pipe Line Shock & Surge Reducers

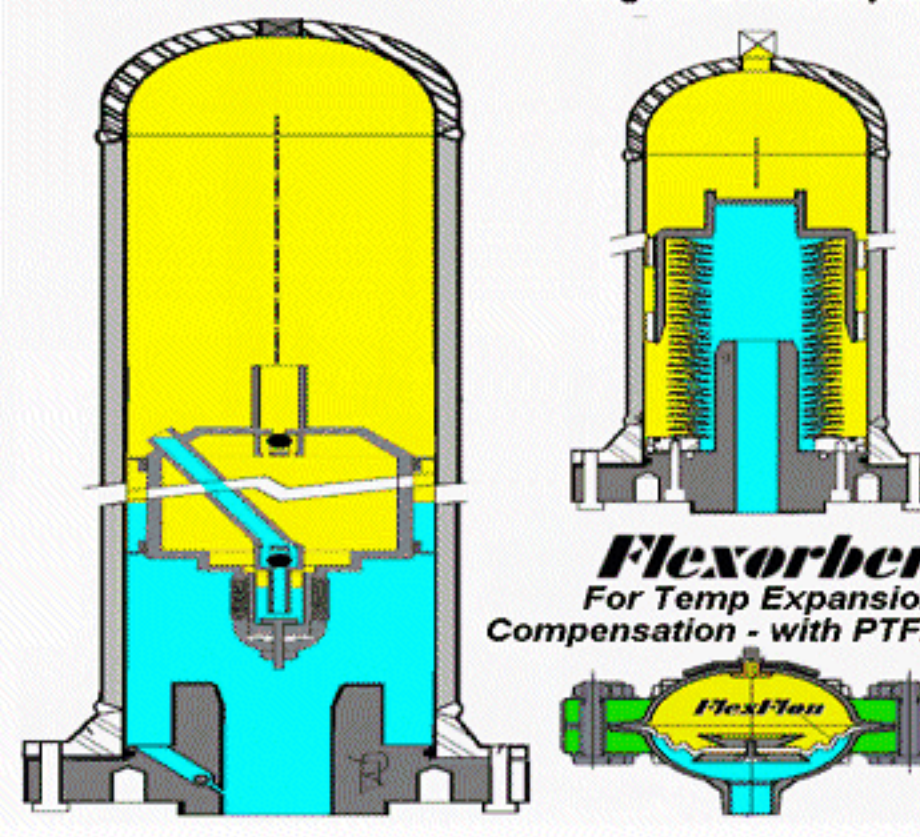


Jumboflex SurgeGuard

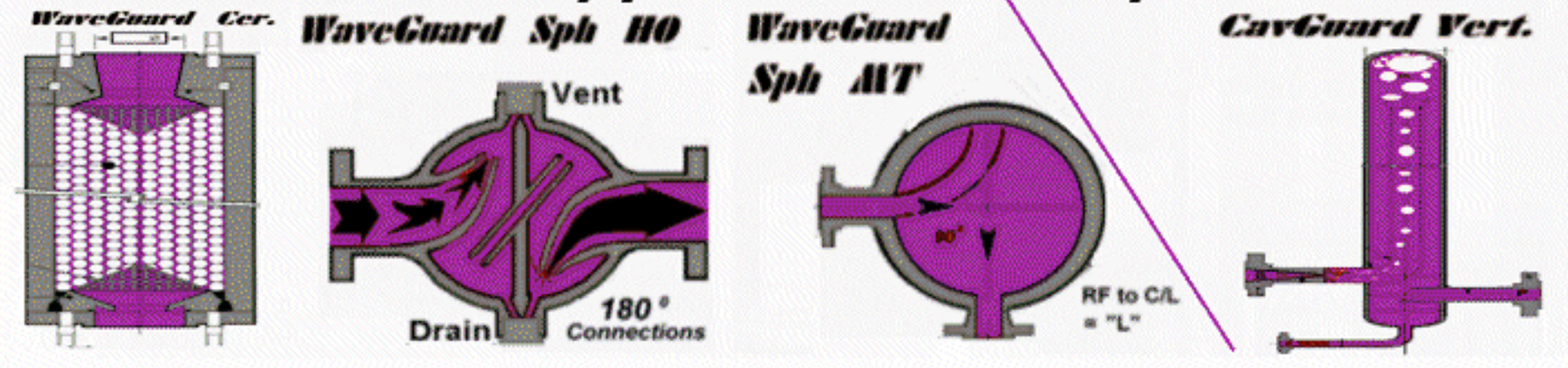


Floatolator LiquiBello

For above 500 Gallon For High & Low Temps.



For Pulsation Suppression Stops Cavitation



PULSATION DAMPER INSTALLATION TO HOSE PUMP SYSTEMS.

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.

DAMPING SUCTION SPIKE, & DISCHARGE "BACK-FLOW"

FLOW FLUCTUATION IS CAUSED BY:
 When shoe hits hose, liquid goes backward up suction pipe
 When shoe lifts off hose, liquid rushes back to fill the void in the hose

In suction **Out Discharge**

The pipe turns the flow spikes into pressure spikes.

Flexorber VLP
 Save a "T" and have 3x the Performance
 The piping base is welded in system maintaining pipe integrity
 4 bolt Damper Quick Release
 Block fits pipe base in place of damper for for Hydro-test etc.

PipeGuard - Plus
 Back Flow

PipeHugger LP Lined
 Ceramic PVDF PTFE Tantalum Zirconium "Gold"
 Not included. By system builder.

PipeHugger LP
 Save a "T" and have 3x the Performance
 The piping base is welded in system maintaining pipe integrity
 Quick Release 4 bolt Damper
 Flex-Tube Support (304L ss)

PumpGuard
 No Pre-Fill Required
 For N2, Pre-Fill with PEC
 Flex-Tube Support (304L ss)

Trying to cause a flow reversal of thick liquid, or at a high frequency, up & down a single connection, puts pulsation into the pipe. The dampers have to be 300% larger. Please see (3) and (4)

1, 2, 3, 4, 5