

The COST \$\$ of LP DOSING PUMPS with Various PULSEGUARD Dampers

Save parts, save space, save time, save costs. Gain smooth flow, gain pressure pulse interception, and gain in place flushability with through flow dampers.



The safety of all metallic enclosure plus compatibility of plastic connection block with a PipeHugger LP Lined Peg/Lnd/35i/D115/225p
The PipeHugger LP Lined, is economical when special metal liquid contact parts
Ex: Tantalum, Zirconium Hast. C276 are needed.

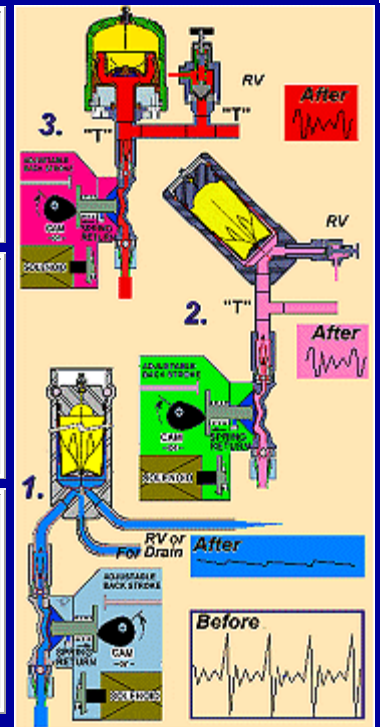
Damper \$447
2 "T" pieces cutting pipe making 6 connections say \$156
Total \$603

With the idea that plastic is cheap, a twin connection PipeGuard PLAS part Nbr. Pig-Plas/60i/B63x214/150p/PVC was selected
Extra cost of single connection special was saved plus one "T" saved by using the second connection for the system relief or drain.

Damper \$378
1 "T" piece cut and fit 3 connections say \$67
Total \$445

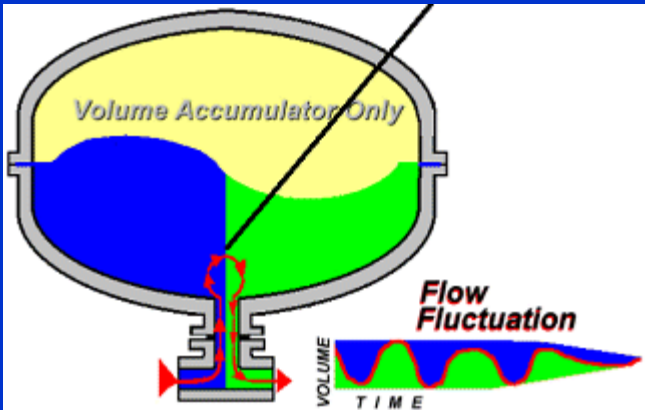
PigSS-LP/Tri/30i/600p/316
No "T" pieces required, smaller more compact, half the price, 3 times smoother performance. Six times the value of a single connection accumulator. And it doesn't suffer from low temperature fracture.

shown vertically for graphic space only
Damper \$199
Fit-up say \$23
Total \$222



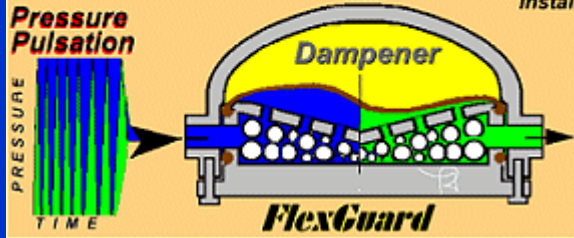
**Pressure travels 300 times faster than flow
So pulsation - flies straight past a "T"!**

Because flow is so slow, there is time to flow up, come to a stop, and flow back down a "T" on the other hand, whatever the residual pressure pulsation level is, it will fly straight past a "T".



Mass of liquid in a pipe is transferred at not above 180 inches/sec or say 460 cm/sec

A Pulsation Dampener intercepts pressure pulsation and smooths flow fluctuations; is smaller & costs less to instal.



Pressure in a fluid travels at, Mach 1 (in Air)
In harder substances (liquid) is transferred at up to 4000 MPH, or say 140,000 cm/sec.

CONCLUSION:- With 300% greater efficiency, because flow fluctuations & pressure pulsation are forced to see the inside of PULSEGUARD PULSE DAMPERS, are more compact vessels and DO MORE WORK FOR A LOWER COST. Hence the saying:-

Dampers that do, flow goes through, BUT pressure pulsation is caught