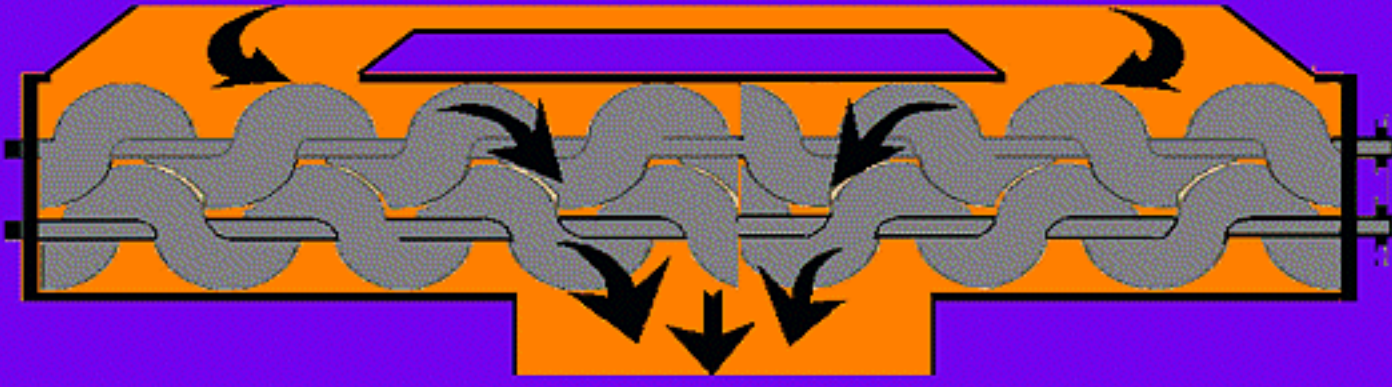


P11



Curing the kick in Screw pump pipe systems.

From the 1000+ off the shelf inventory pulsation dampeners at <http://www.pulseguard.com> and www.shock-guard.com.

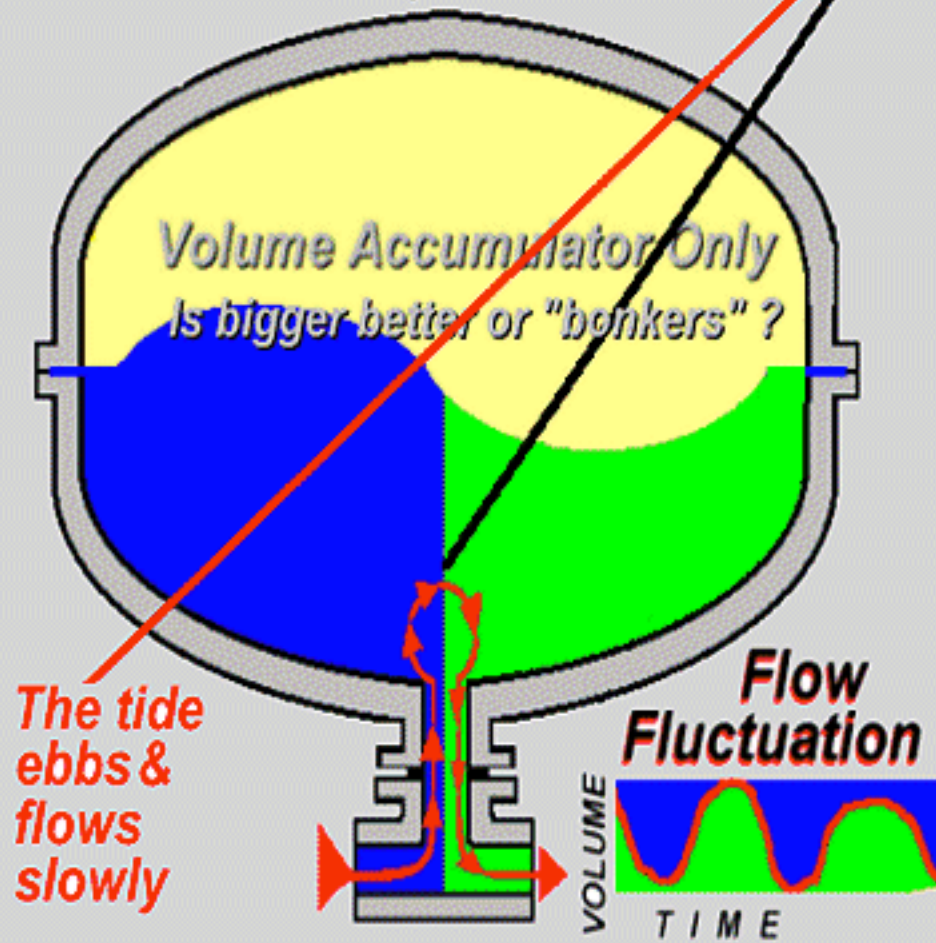
ISO 9001 Reg.
Cert 95-LON-AQ-458
by DNV QA Since 1995



DAMPERS PRODUCED IN NC USA, ARE TO OUR DESIGN CODE
(in excess of ASME VIII which states non applicability to dampers)
or may be "U" stamped @ extra \$\$ - BUT HAVE ALL WARANTEE REMOVED

With The PUMP GUARD pulse damper.

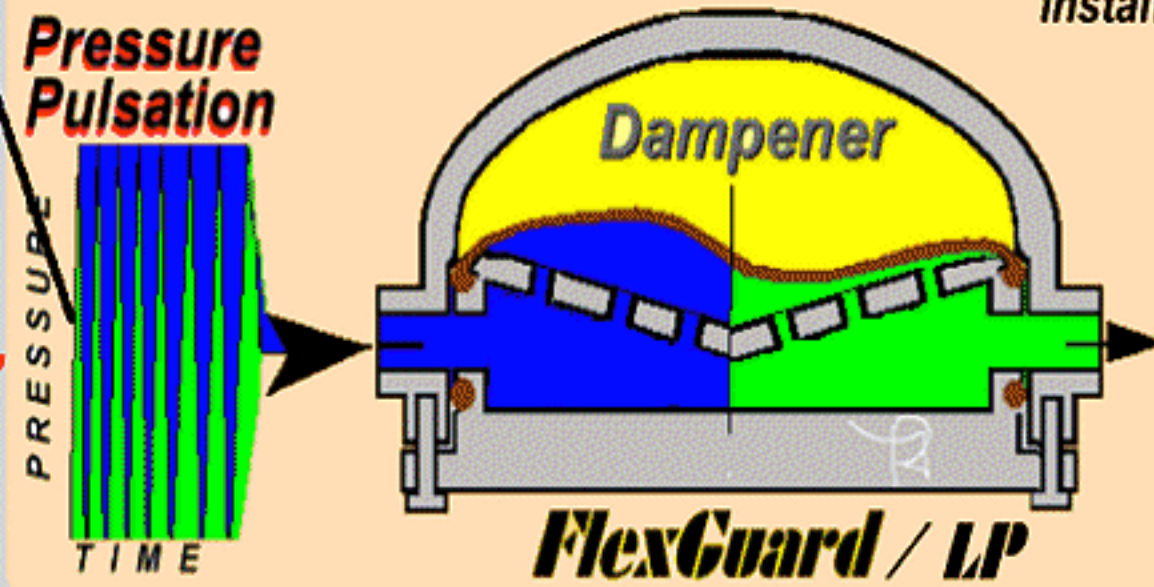
Because flow is so slow, there is time to flow up, come to a stop, and flow back down a "T" - on the other hand, what ever the residual pressure pulsation level is , it will still shake the pipes.



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

But the impact from the velocity of waves, does the damage fast.

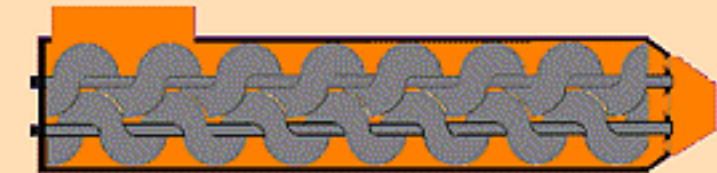
A Pulsation Damper intercepts pressure pulsation and smooths flow fluctuations; is smaller & costs less to install.



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 :- Damping "non Newtonian liquids" requires designs that do not pack cake and trap material against the vessel wall. Constant agitation 1st in 1st out is a clear advantage. No flow reversal in a single opening enables max. smoothness. Only flow through dampers suit screw & worm systems.

Our Dampers I.A.W. P.E.D.97/23/EC 3.3 are "SEP" to PD 5500
P.E.R.: 1999 SI 2001 CAT. I Dampers bear the CE mark, right →
P.E.R.: 1999 SI 2001 CATs. II, III, IV bear the CE mark & 0040 →



Or please just call us toll free - "FreePhone"

USA Toll Free 1-888-DAMPERS (326-7377)
Toll Free Fax 1-888-825-5357
email pulse @ pulsation-shock.com

When you see a damper of particular interest, please request literature dedicated to that subject.



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PULSE GUARD Inc.

Guarding Against Pulsation