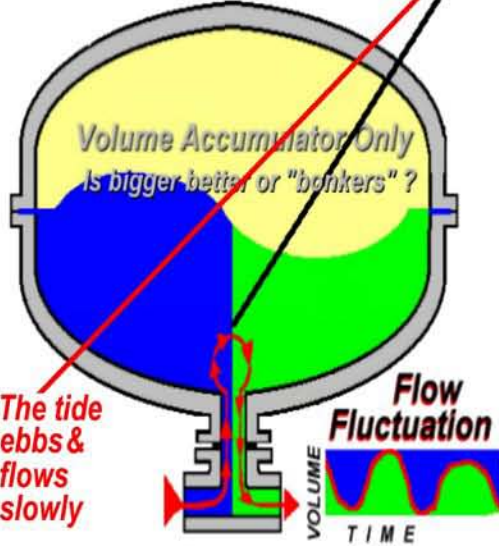


When the system has been designed, then a pump can be chosen, with characteristics that suit the system. That is the best way to avoid shock surge and pulsation.



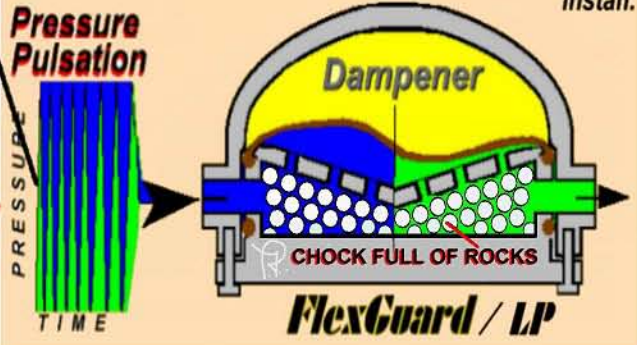
Because flow is so slow, there is time to flow up, come to a stop, and flow back down a "T" - on the other hand, whatever the residual pressure pulsation level is, it may still shake the pipes.



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 install.

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



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.

PULSATION AND SHOCK IS COMMON TO ALL PIPING SYSTEMS, IT IS ONLY THE PRESSURE AMPLITUDE & FREQUENCY THAT CHANGES

INTENSIFIER

CENTRIFUGAL

HOSE
WORM

VANE

A.O.D.D.

LOBE

GEAR

PACKED PLUNGER

TRIPLEX
QUIN. & SEP.

METERING

PROGRESSIVE CAVITY

DOSING

SCREW



Liquid Dynamics International Inc.

Analysis, Diagnostics, Prediction by Software

Phone USA --910-270-2737 Color Fax --910-270-0320 UK (for EC) --44-161-442-6222 Color Fax --44-161-443-1486
Box 506 Hampstead NC 28443 www.liquid-dynamics.com Box 47, Stockport, SK3-0LH, UK



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