

Flow ? or Pressure ?

It can be very expensive to confuse ΔQ_v with ΔP

Delta Flow VS Delta Pressure

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1. Flow :	Is not	Pressure:
Volume over Time	" "	Force : Mass on Area
Gallons per second,	" "	Pounds per square inch.
Liters per second	" "	Kilograms / sq. centemeter
Even mass velocity :	" "	Mass on area :
Pounds per second	" "	Pounds / in ² "PSI"
"Kilos" per Second	" "	Kg Cm ² (approx = "Bar")

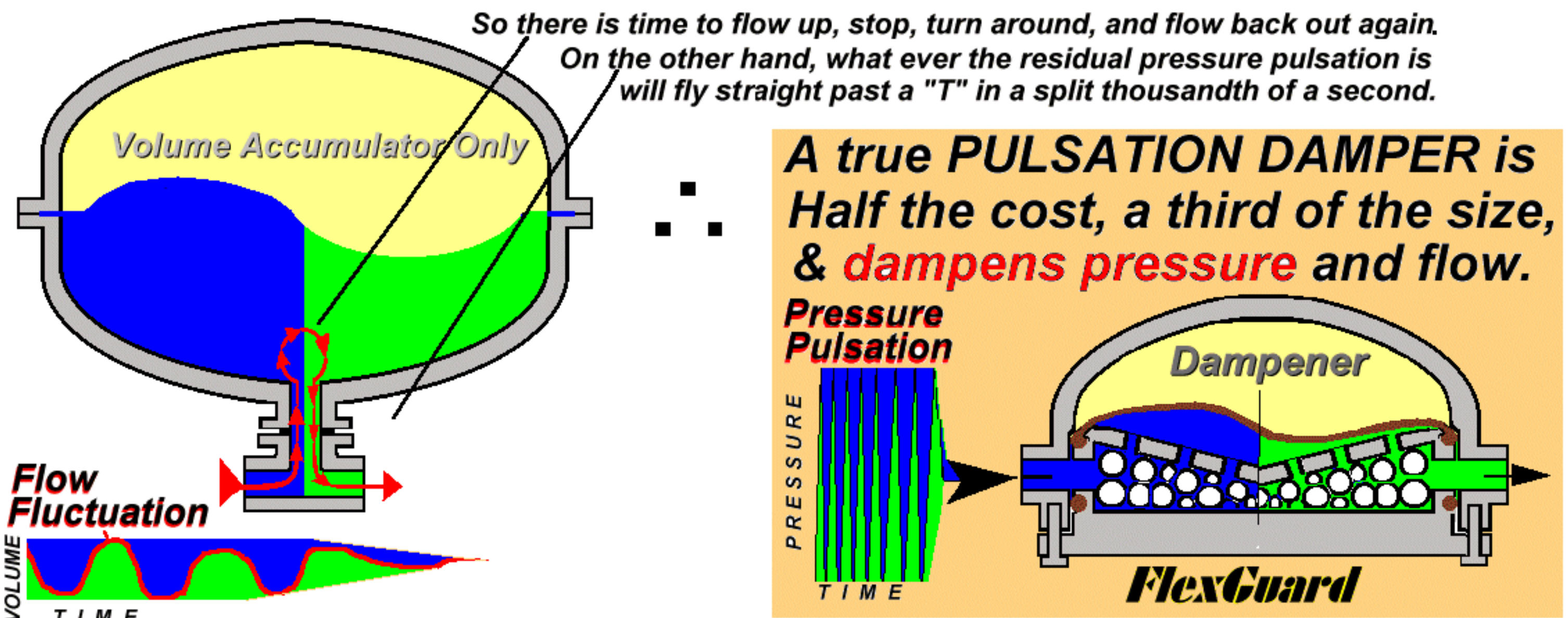
2. ΔQ_{mf}	Therefore	ΔP_f
Flow Fluctuation	Can not be	Pressure Pulsation
is expressed in %age +&- variation on average velocity		expressed as amplitude at frequency +&- PSI / cyclec/sec or Bar @ Hz.



First consider flow & pressure in the same terms.

3.	VELOCITY, - distance over time.
Mass of liquid in a pipe is transferred at not above 180 inches/sec or say 460 cm/sec	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.

"Flow is 300 times slower than pressure".



CONCLUSION:- With 300% greater efficiency, because flow and pressure pass through a PULSEGUARD DAMPER you have increased performance at lower cost Dampeners that do, flow goes through, but pressure pulsation does not