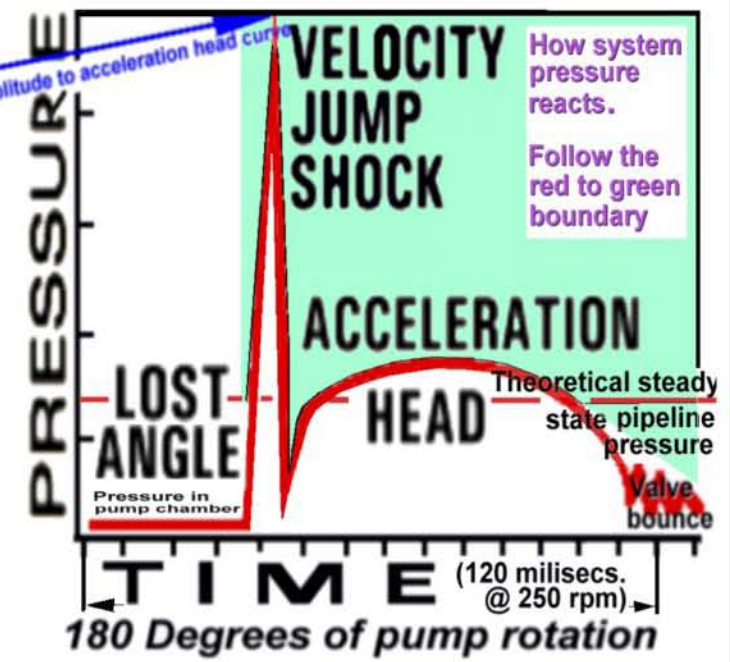
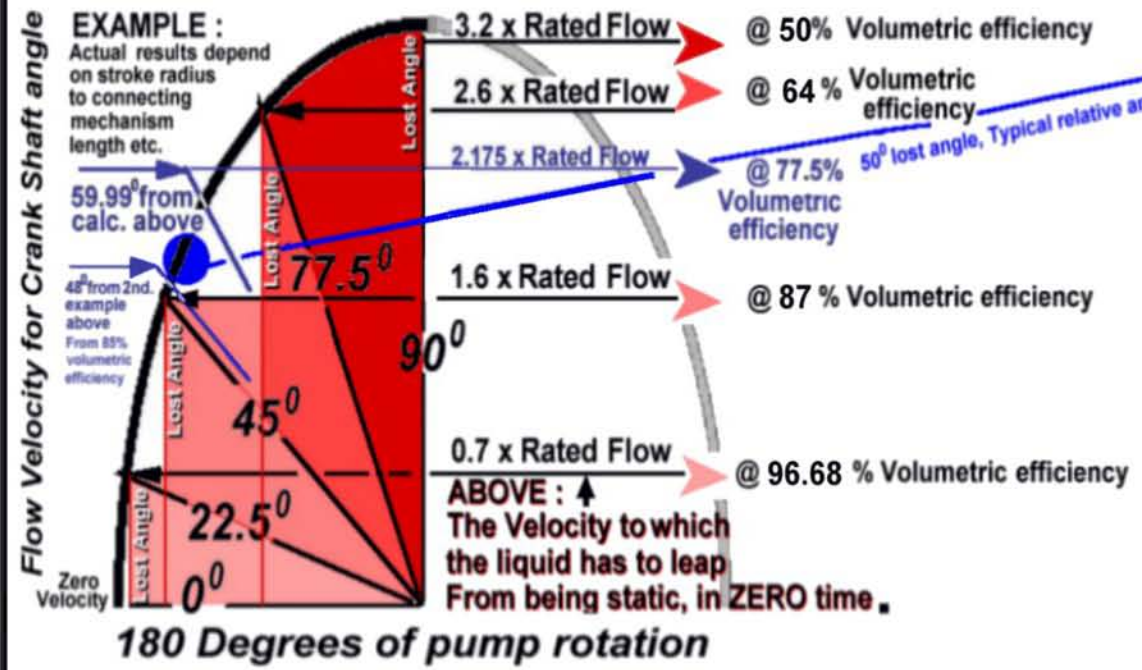


CHECK THE AMPLITUDE OF ANY HIGHLY EXCITATIONAL PRESSURE SPIKES
In pump literature aka "Velocity Jump" causing "Joukowsky shock"



You can reduce "Velocity Jump Shock to a generally insignificant figure, in 4 simple steps :-
 1. Select a damper with an ID 12 times the diameter of the inlet connection. 2. Have an outlet 1/2 the area of the inlet. 3. Increase the volume by 3 x the **in-efficiency**. 4. Decrease the cushion pre-fill pressure proportionately to the volume increase, from 80% of system pressure to as low as 50%.

The combined effect of mass acceleration, velocity jump, pressure wave acoustics, fittings and pipe resistance all in a time dependent frame, along with valve action, and pump characteristics may be modelled for you by :-
LDI PULSEVIEW software. This is not a free service. Please complete input data set tabulation.

File LostAngl.bmp



LIQUID DYNAMICS INTERNATIONAL Inc.

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Lost angle of rotation - velocity jump shock LDI P46