



Establishing the criteria for different pipe systems & Analysis  
Interpreting the pressure behavior, plots, FFTs, oscillographs - Diagnostics.  
Before routing problem pipework, buying the wrong pump, **PulseView & ShockView** Prediction.

Publications - introduction to Pulse & Shock Analysis, Diagnostics, and software predictive models.

## Pub. 1 Pulsation Analysis and Diagnostics, removing the mistery - "Exposing the Witchcraft"

In graphics and "cartoons" :-

**Heart Pump** & The 400 Meters

**HARD SYSTEMS KILL PUMPS**

The Effects are cumulative SOON CATASTROPHE PRESSURE PULSATION can be like that too

1 psi + 200 psi after a few seconds  
Very good FATIGUE OR BURST

Being equipped to discuss the problem, and understand the answers.

## Pub. 2 From 30 years experience : Reading oscillograph pulsation "signatures", to identify the causes.



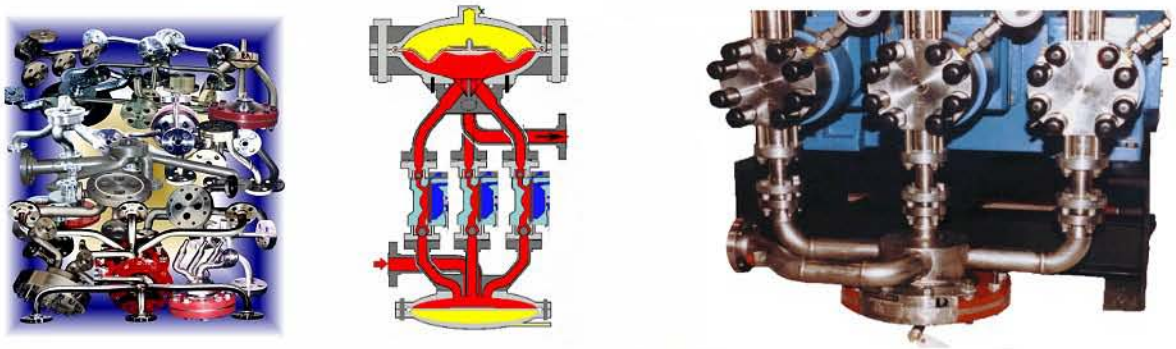
## Pub. 4 Predicting Pulsation, or Pipe Shock. Input data for PulseView or ShockView software.

**PULSEVIEW** HARACAS P

**PACKER DIS. PULSEVIEW** Long Pipe Model DISCHARGE PIPING PRESSURE RESPONSE

**PACKER MEMBRANEVIEW** discharge "damper" MEMBRANE RESPONSE TO PRESSURE CHANGE

## Pub. 5 A pound of Prevention is worth a cart load of Cure; Designing the Pipes, stops interaction.



## Pub. 6 How much pulsation is allowable for a given system? Calcs, Graphics, & Nomogram.

1. INPUT DATA Example

2. CALCULATIONS

3. NOMOGRAM



# 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

