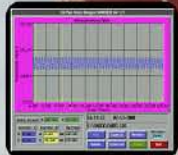


LDi-P26

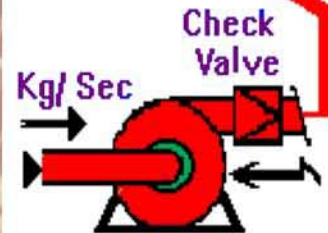
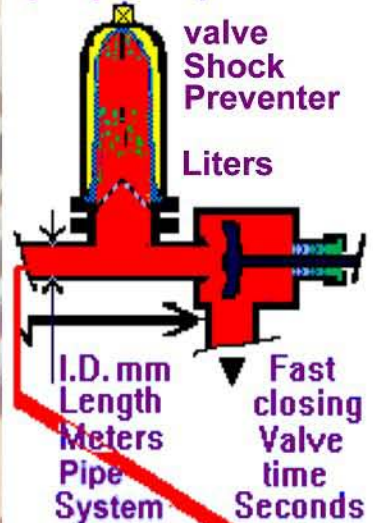
The schematic shows a typical **LDi "ShockView"** computer model that was compiled to analyze marine tanker loading systems from the jetty. There were five products, each coming a different distance from Tank farm pumps, each with a different viscosity, specific gravity, & compressibility.



MARACAS P...



Water Hammer shock or pump start-up surge analysis according to valve closure time or pump run-up time



Fast run-up time pump start-up surge, Seconds

-  Membrane
-  Air / N<sub>2</sub>
-  Process Liquid
-  Steel or Plastic
-  Lubrication Fluid

Advice

Keep I.D. as small as pos. to dissipate shock.

**ShockView**

Valve Closure Shock & Pump Start Surge Analysis



**LIQUID DYNAMICS INTERNATIONAL Inc.**

*Analysis, Diagnostics, and 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

