

Product Name :
Pipe Surge & Water Hammer Apparatus

Product Code :
NLAB-ENGINEERINGLB19005



Description :

Pipe Surge & Water Hammer Apparatus

Technical Specification :

Pipe Surge & Water Hammer Apparatus Lab Equipments Manufacturer, Suppliers & Exporters

Pipe Surge & Water Hammer Apparatus.

- 1] Self-contained unit designed to demonstrate the phenomena of pipe surge and water hammer.
- [2] Unit includes two separate test pipes, service module and constant head tank.
- [3] Two pressure transducers provide electrical signals for connection to a dual trace storage oscilloscope with an integral printer output.
- [4] Surge shaft: 44mm I/D x 800mm high. Water hammer test pipe: 22mm I/D x 3m long ST/ST. Pressure transducers: range 1 to 69 bar (13.5 bar max operating)
- [5] Demonstration capabilities:
 - Demonstration of pipe surge.
 - Determination of oscillatory characteristics of the surge shaft.
 - Demonstration of frictional head loss between reservoir and surge

shaft • Comparison between theoretical and measured pressure profiles produced by water hammer.

• Using a dual trace storage oscilloscope to record transient water hammer pressure profiles.

• Measuring the pressure profile characteristics.

• Determination of the velocity of sound through a fluid in a pipe.

• Demonstration of the effects of cavitation on subsequent cycles.

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