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Product Name :
Pipe Surge And Water Hammer

Product Code :
LBNY-0005-16000027



Description :

The pipes are supported on frames and use hand screw clamps to connect the surge and hammer components. The equipment comprises two stainless steel pipes, which can be used either for surge tests or for hammer tests.

Experimental Capability:

Measurement of the velocity of sound through a fluid in a pipe
Recording of hammer pressure profiles using the digital scope supplied
Investigating the effects of pipe hammer caused by a fast closing valve.
Demonstration of water level oscillations in the surge shaft.
Demonstration of frictional head loss between reservoir and surge shaft.
Measuring the pressure profile of hammer
Demonstration of pipe surge.

Technical Specification :

The apparatus includes two separate test pipes, a surge header tank and surge tube, a hammer inlet and hammer fast acting valve. Pipe Surge and Water Hammer This a unit designed to work with hydraulics bench to demonstrate the phenomena of pipe surge and water hammer. Two pressure transducers provide electrical signals for connection to a digital oscilloscope (for use with users PC).
Pressure transducers: range -1 to 15 bar
Test pipes: 22 mm I/D x 3 m long stainless steel
Surge shaft: 50 mm I/D x 1000 mm high.



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