

Product Name :
Free and Forced Vortex Apparatus

Product Code :
ALABS-A104-528



Description :

Free and Forced Vortex Apparatus

- Cylindrical vessel with four inlet/outlet ports for free and forced vortices
- Three interchangeable orifices and paddle wheel to fit in base of tank
- Measuring bridge with adjustable pointers and internal caliper to measure vortex dimensions
- Pitot tubes for estimation of velocities in vortex
- Quick release fittings for easy connection to hydraulics bench
- Educational Software available as an option

Description:

- The apparatus comprises a clear acrylic cylinder on a plinth designed to produce and measure free and forced vortices.
- The free vortex is generated by water discharging through an interchangeable orifice in the base of the

cylinder and the resulting profile is measured using a combined caliper and depth scale.

- The forced vortex is induced by a paddle in the base of the cylinder which is rotated by jets of water. The profile of the forced vortex is determined using a series of depth gauges.
- Velocity at any point in the free or forced vortices may be measured using the appropriate pitot tube supplied.
- Dye crystals (not supplied) may be used to demonstrate secondary flow at the base of the free vortex.

Technical Details:

Name

245mm diameter:

Height to overflow point:

Griffiths 24mm:

600x500x900mm measuring probes

Distance from centre:

150mm and 300mm radius

point (nose) at:

9mm and 12.5mm diameter



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