

Estudio de la Formación de Vórtices



Introducción

Cuando los elementos de un fluido están sujetos a *momento*, estos rotan. En un flujo real dichos torques pueden ser producidos por esfuerzos de corte desequilibrados y/o fuerzas sobre el volumen del fluido.



Tipos de vórtices:

- Vórtices espontâneos (*free vortex*)



$$V_{\theta} r = \Gamma / 2 \pi = cte.$$

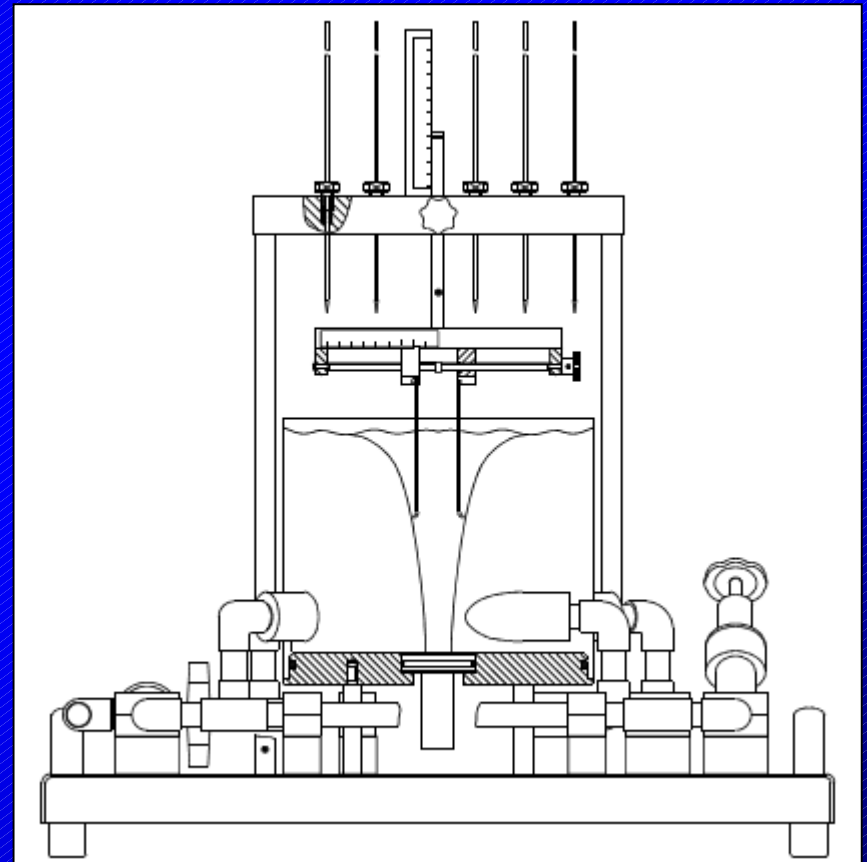
- Vórtices forçados (*forced vortex*)



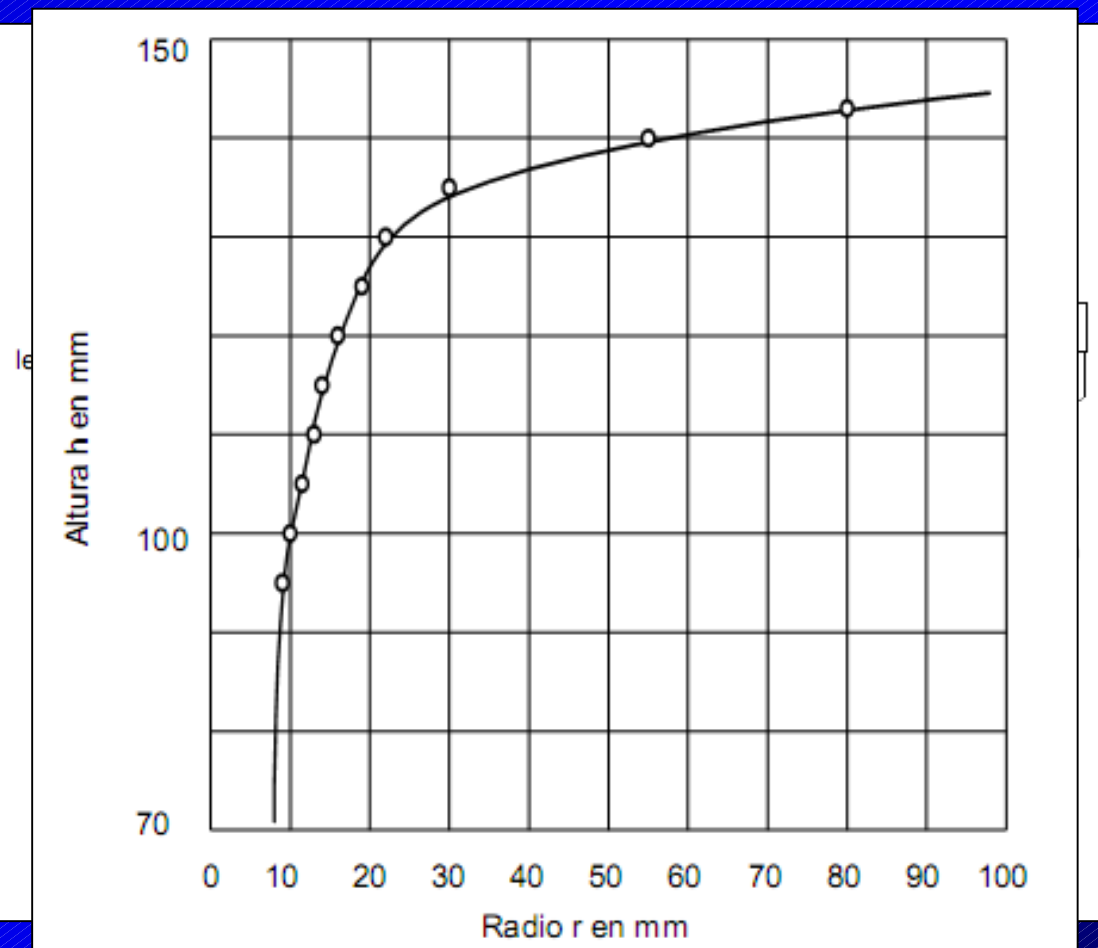
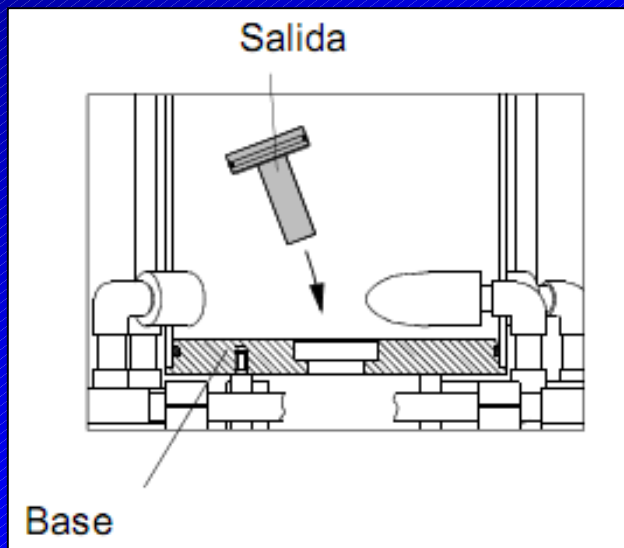
$$\frac{V_{\theta}}{r} = \omega = cte.$$

Equipo

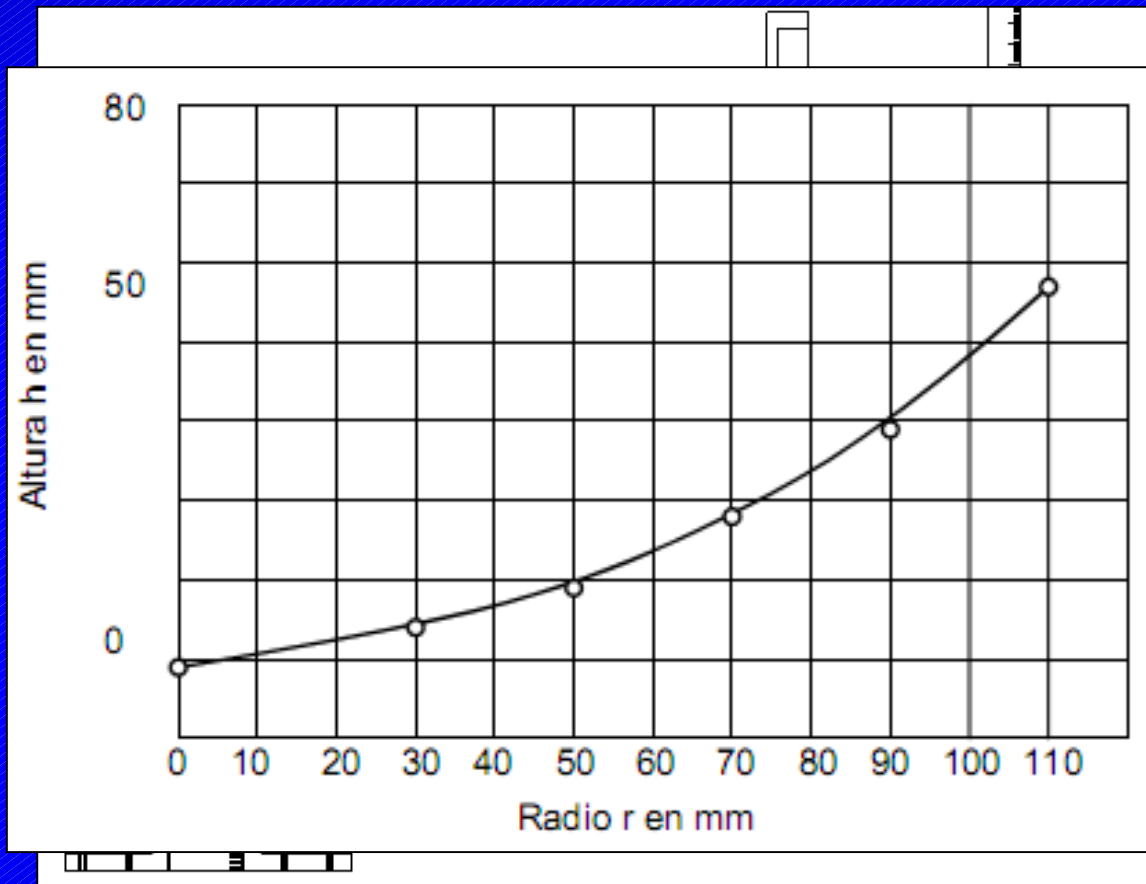
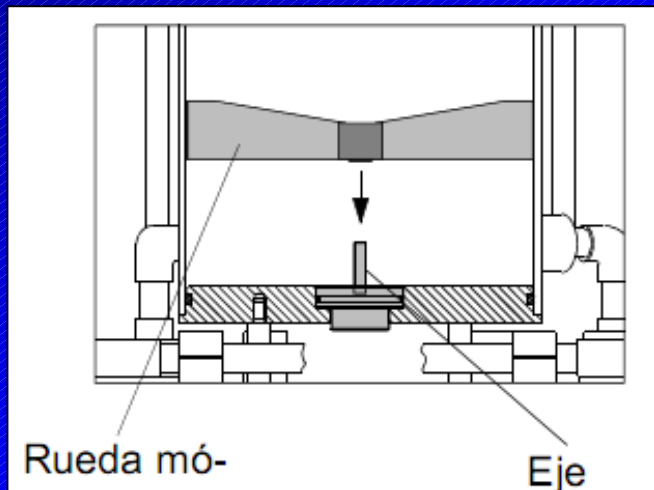
GUNT HM 150.14



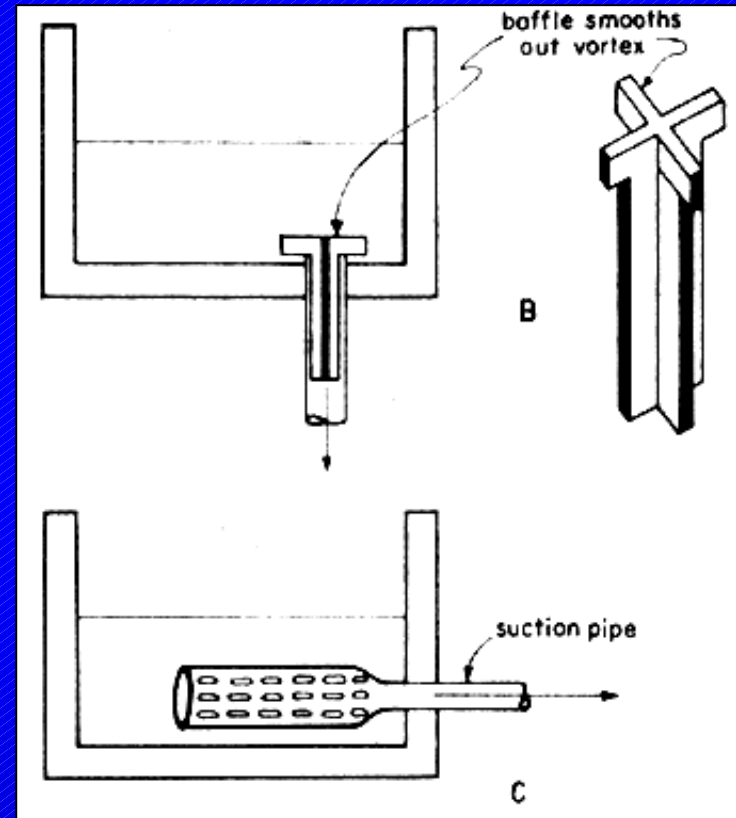
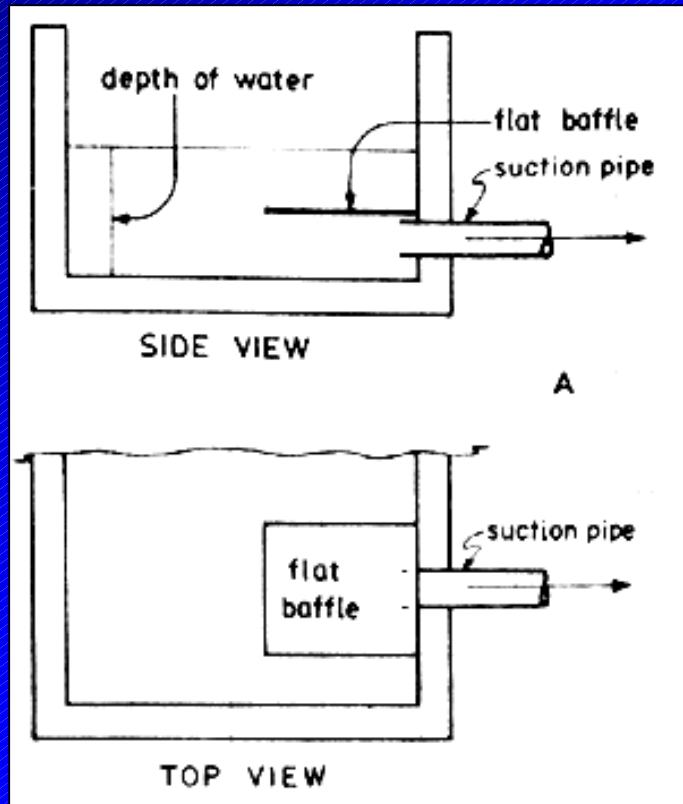
Remolino espontáneo



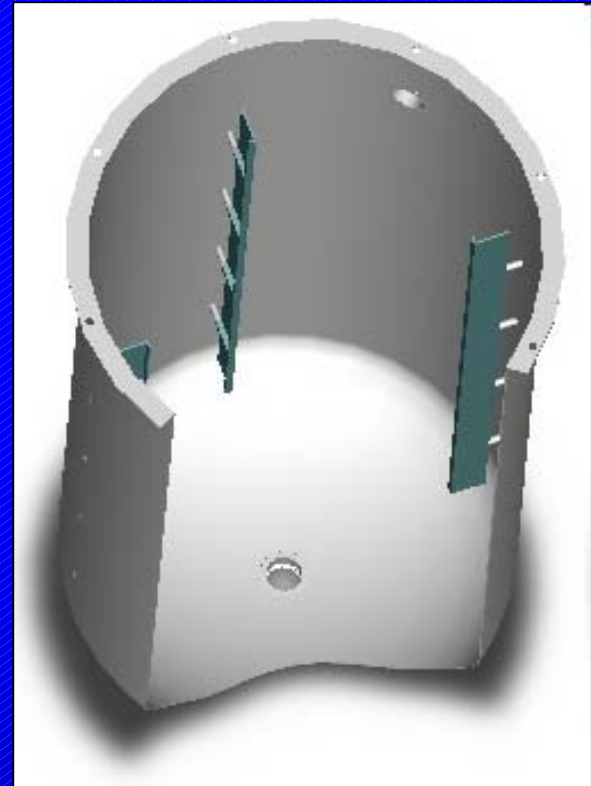
Remolino forzado



Uso de *baffles* para la prevención de vórtices



Uso de *baffles* para la prevención de vórtices



Equipo 2

- Estudiar el efecto de los *baffles* en un vórtice forzado



Effect of Impeller and Baffle Dimensions on Vortex Depth of Liquid Free Surface in an Agitated Vessel with Pitched Blade Paddle Impeller.

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[54] **ANTI-VORTEX BAFFLE ASSEMBLY WITH
FILTER FOR A TANK**

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