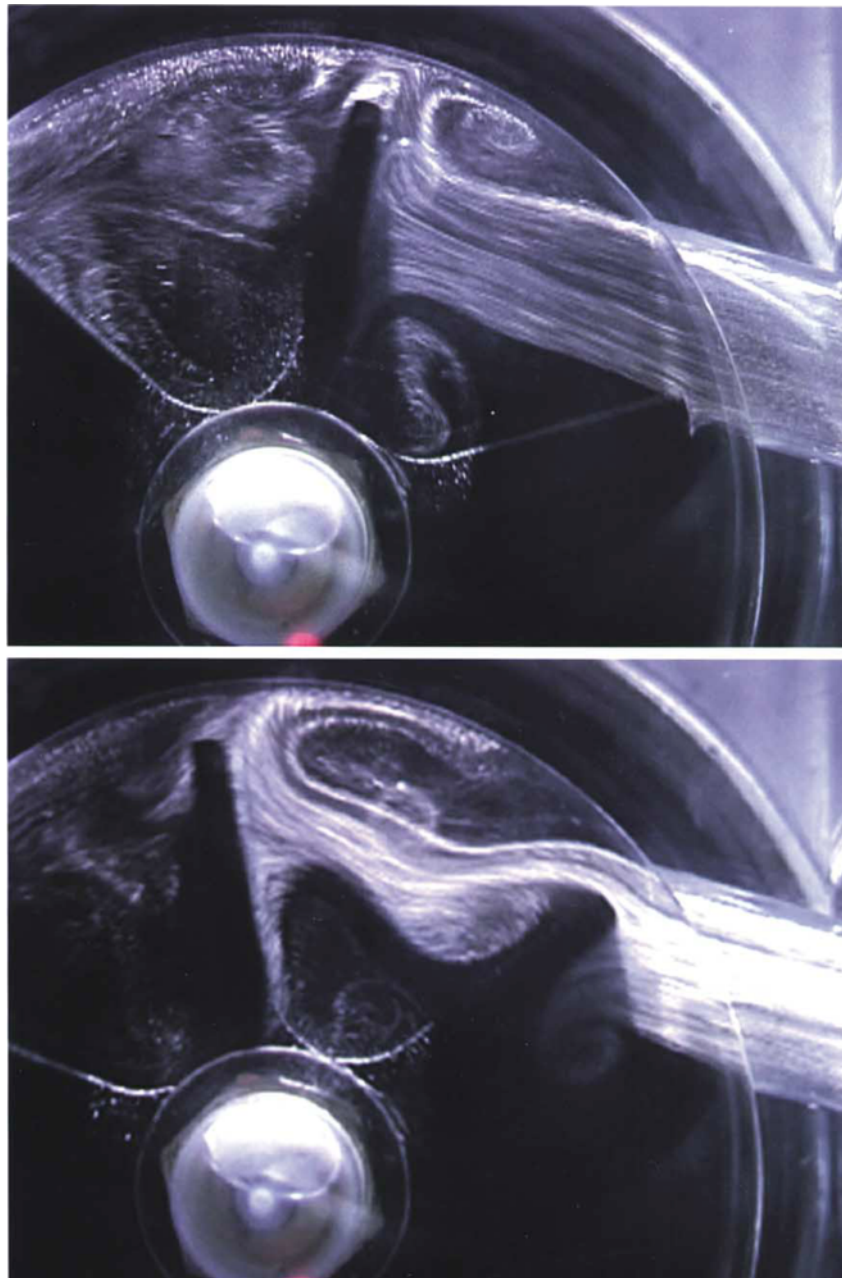


### 3. Flow Field in a Rotating Vane Flow Meter

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The flow field in a rotating vane flow meter is visualized by hydrogen bubble method. The meter is the size of 5.8 cm in diameter and 2.5 cm in height. Rotor with 6 vanes rotates due to inlet flow and the number of rotation is proportional to the flow quantity. The flow from the inlet makes a pair of vortices in a space between the vanes, and the vortices flow out from the outlet. The photographs are taken with 1/4 cycle difference at the cross section of the center of vane height using sheet light. Flow rate is 25L/H, and the Reynolds number based on the inlet diameter is about 800.