

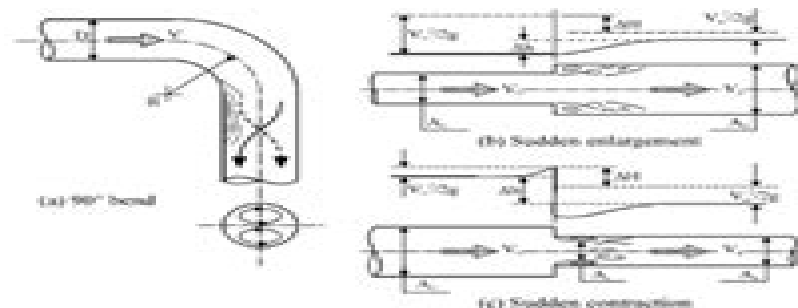
Friction in Pipes

Aim:- To determine the friction factor for the pipes.

Apparatus Required:- Pipe having different diameter connected to a differential manometer , a collecting tank, stopwatch, scale.

Theory

When a gas or a liquid flows through a pipe, the flow of fluid through a pipe is resisted by viscous shear stresses within the fluid and the turbulence that occurs along the internal pipe wall. Due to this there will be a loss of pressure in the fluid, because energy is required to overcome the viscous or frictional forces exerted by the walls of the pipe on the moving fluid. In addition to the energy lost due to frictional forces, there will be a loss in energy when the fluid flows through fittings, such as valves, elbows, contractions and expansions. This loss in pressure is mainly due to the local flow separation as it moves through such fittings. The pressure loss in pipe flows is commonly referred to as head loss. The frictional losses are mainly caused in a straight pipe, friction loss induced in fittings, such as bends, couplings, valves, or transitions in hose or pipe accounts for minor losses. The frictional losses are referred to as major losses (h_f) while losses through fittings, etc, are called minor losses (h_m). Together they make up the total head losses (h) for pipe flows.



In practice, loss in a pipe flow comes into picture in cases like calculation of rate of flow in the pipes connecting two reservoirs at different levels or to calculate the additional head required to double the rate of flow along an existing pipeline. These pipe losses are dependent on number of factors like viscosity of the fluid, the size of the internal pipe diameter, the internal roughness of the inner surface of the pipe, the change in elevation between the ends of the pipe, material of the pipe and the length of the pipe along which the fluid travels.

Friction loss in pipe

The friction loss in a uniform, straight sections of pipe, known as "major loss", is caused by the effects of viscosity, the movement of fluid molecules against each other or against the (possibly rough) wall of the pipe. Here, it is greatly affected by whether the flow is laminar or turbulent.

Fluid Friction Lab Manual

Lingsheng Yao



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