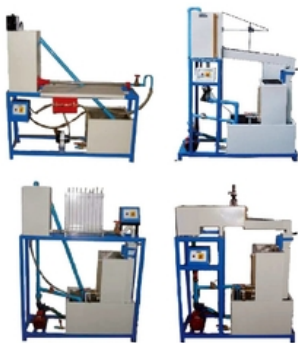


## Fluid Fraction Apparatus



**Product Categories:** [Engineering Equipment](#), [Hydraulic Lab](#)

**Product Page:** <https://www.labappara.com/product/fluid-fraction-apparatus/>

### Product Description

#### Fluid Fraction Apparatus

##### Technical Description:

The present set-up is designed to study the friction head losses through pipes, fittings, and flow metering devices. Four different ID sizes smooth pipes and one artificially roughened pipe is connected in parallel. A valve arrangement is provided to operate the one pipe at a time. Various types of fitting are also fitted with pressure taps to conduct the experiment. Flow meters (Venturimeter and Orifice-meter) is also accompanies the set-up. For water circulation and flow rate determination sump tank & measuring tank are provided. The educational software and data “logging package has been developed for this unit. It is compatible to interfacing unit designed by KC Engineers. It provides a comprehensive educational software environment within which the investigations can be performed. This software runs in Windows XP. It is capable to tabulate the samples readings according to requirement of experiment under study and results obtained can be compared. Interfacing the set up with computer using software can do the real time data acquisition. Data can be transferred in Excel Files for further calculations, plotting graphs etc. Software allows the user to have control on data logging,

printing the stored data, preparing spread sheets in Excel etc.

#### TECHNICAL SPECIFICATION:

Pipes (5 No Fittings): 4 smooth bore and one roughened bore. Size range between ID 4.5mm.

Valves: 90o bend (small), 90 bend (large), 90 elbow, 90 miter, 45 elbow 45 y 90 t, sudden enlargement & contraction, gate valve, ball valve, globe valve

Flow Meters: venturimeter, orifice

DPT: for measuring differential pressure, 0-10000 mm of wc output 4-20 Ma.

Pressure Tapings: as per requirement

Control Panel consists of:

Standard make On/Off Switch, Mains Indicator, etc

An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be

Provided along with the Apparatus

The whole set-up is well designed and arranged on a rigid structure painted with industrial PU

Paints.

Control Panel:

Standard make on/off switch, Mains Indicator.

Instruction Manual consisting of experimental procedures, block diagram etc.