

## **FLAPPER NOZZLE SYSTEM**

MODEL: BSP20



### **FEATURES**

- Self contained,
- Robust design

### **DESCRIPTION**

Flapper nozzle arrangement is basic mechanism used in many components of instrumentation and control such as E/P Converter, Valve positioner, etc. The trainer kit is designed to demonstrate basic concept of flapper nozzle arrangement. Students can operate and feel the flapper nozzle arrangement and understand how mechanical arrangement is converted to pressure signal.

A regulated pneumatic supply provides a source of air through the restriction. Between the nozzle opening and the flapper air escapes. Facility is provided to vary and measure the gap. Pressure gauges are provided to measure pressure.

#### INSTRUCTION MANUAL

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Self-explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual

#### LIST OF EXPERIMENT

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1. Study of construction of flapper nozzle system
2. Calculate Gain of Flapper Nozzle system

#### COMPONENTS

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1. Flapper-Nozzle arrangement
2. Pressure gauges, 2 nos
3. Air filter regulator
4. Micrometer
5. Pipes and fitting

#### OPTIONAL ADDITIONAL

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- Air compressor

*Note: Details of attachments can be made available on request.*

#### SERVICES REQUIRED

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- Compressed air

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- (1) Since research and development is an on-going activity, the specifications mentioned herein are subject to change without notice
- (2) Photographs are indicative only.