

MODEL: BSP20

BSP20.xls Revision No: 01 Date: April 24, 202`

FLAPPER NOZZLE SYSTEM



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

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

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

COMPONENTS

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

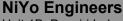
OPTIONAL ADDITIONAL

Air compressor

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

SERVICES REQUIRED

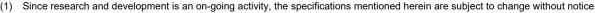
• Compressed air



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(2) Photographs are indicative only.