



PMT ENGINEERS

Amedabad, Gujarat, INDIA

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INSTRUMENT CALIBRATION WORKBENCH

This bench consists of

- 1) Size approximately 1800mm Lengthx1000 mm Depthx 1200mm Total Height, consisting of a free top work bench and under bench cabinet.



- 2) 220/230 VAC power supply and circuit breaker electrical outlets with International Standards

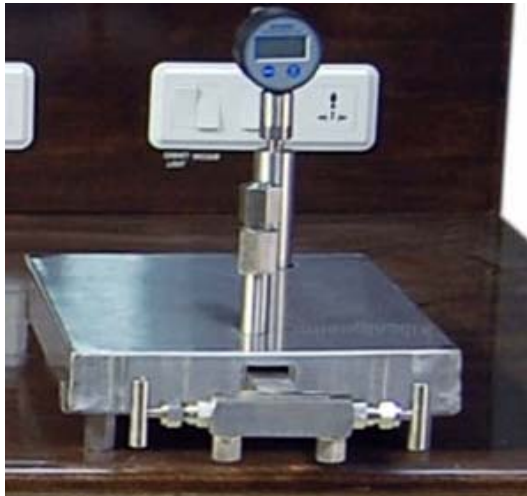


(Circuit Breaker)

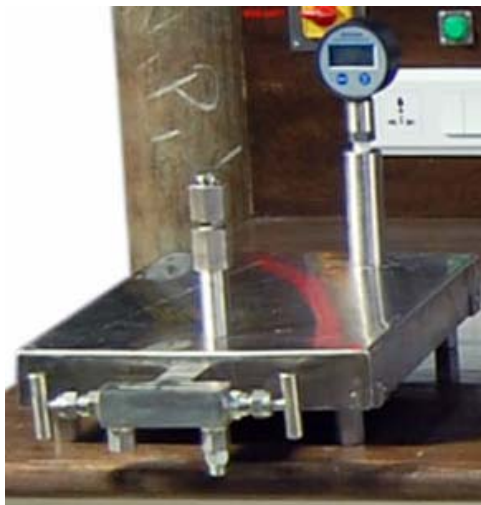
3) panel with adjustable pressurized air supply, connection with quick release coupling



4) digital Absolute pressure calibrator for up to 1000 mbar vacuum



5) digital pneumatic pressure calibrators in various up to 100 barg



6) Temperature calibrator for temperature range (-50 to 750 deg.c)



7) multi-calibrator unit for measuring and generating mV/V/mA/Ohm/pt100/ Thermocouple and adjustable(0-30 VDC)



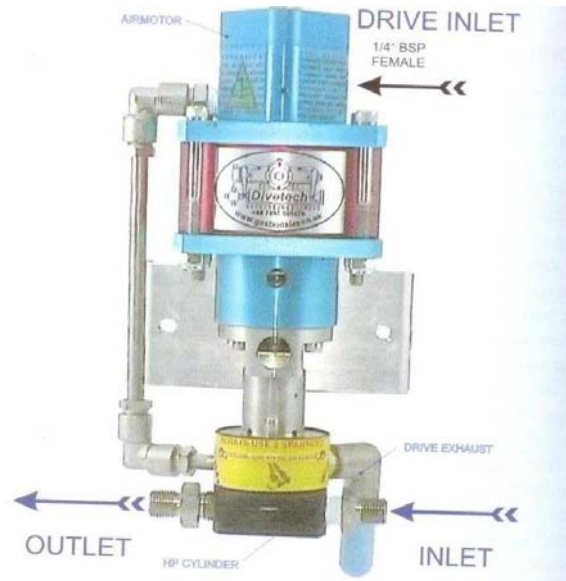
8) Vacuum pump with vacuum connections



9) Gas Booster Unit, air driven for pressure up to 250 barg

This Unit consists of

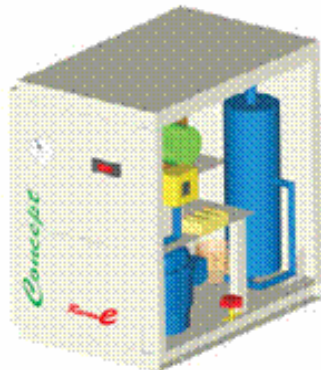
(a) Air Driven Gas Booster Pump



(b) Air Compressor



(c) Air Dryer

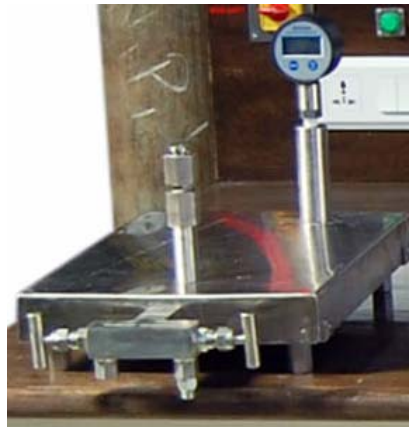


Procedure to Start The Panel

Connect the Main Power Supply to Circuit Breaker
Turn Rotary Switch to start the Panel..

For any Electronic Device, Plug and Do Procedure.

For Pressure Calibrator.



This calibrate is separate From Any Connections.

To take any test(Media: Air/ Gas/Water)

- 1) Connect the Outlet Source OF Media to ISOLATION VALVE(INLET) of Pressure Calibrate.

System is suitable to 250 Bar.

For your requirements:

Pneumatic Pressure Calibrator

Air Driven(pneumatic)Gas Booster Unit

This Booster must have 50 Kg Inlet of Nitrogen.

Procedure:

- 1) Ensure that Both isolation Valve 1 & 2 must be in closed Condition
- 2) Attach Nitrogen Cylinder with regulator to Nitrogen Inlet Connection of Isolation valve
- 3) Start The Air Compressor (3 Phase).INLET Pressure In Air Dryer
- 4) Start the Air Dryer System By electric switch of panel
- 5) Switch on Pressure Gauge(MASTER Gauge)
- 6) Open the Isolation Valve
- 7) Ensure that the Calibrator Inlet Valve must be open 1/8 Turn to see the Pressure Comes Or not.

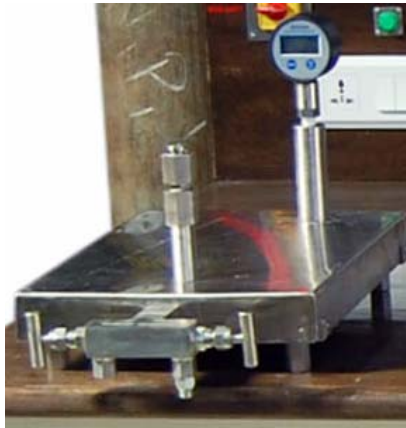
- 8) Open the Isolation Valve-1 to start the Air Driven Gas Booster Pump
- 9) Regulate the Pressure between 8 to 9 Bar By Air Regulator
- 10) When required Pressure arrives Close the isolation Valves of Calibrator Inlet, Air Isolation Valve-1 and Inlet Nitrogen
- 11) Now Pressure will be steady.
- 12) Calibrate tested Instrument in against of master Gauge
- 13) Now Drain the System.

Do not open the Isolation valve -2.

It's only for Connection of **Quick Release Coupling.**

PG-QRC: Will show the Pressure of Quick coupling Connection..

For Vacuum Calibrator



- 1) Ensure that Calibrator Isolation Valves must be in Closed Condition.
- 2) Start the Vacuum pump by Electric switch of panel.
- 3) Open the Inlet Valve of Calibrator
- 4) When Required Vacuum point arrives Close the Inlet valve.
- 5) Calibrate the Instrument in against of Vacuum Gauge (master Gauge)
- 6) Drain the System.