

Pressure Control



By IAEC Yokogawa

PRESSURE CONTROL

MISSION :



“In this Pressure Plant model and its textbook education help

learners to enhance their understanding about the real world of control engineering and instrumentation. To inspire them become the practical people who can integrate his/her strong background of theory and practice together.”

GENERAL INFORMATION:

Pressure Plant Model is simulation process plant for study and you can knowledge about of Basic principles such as absolute & gauge pressure , measurement , sensor and transmitter to apply in industry in process control such as Pressure.



FEATURE :

Modularized design oriented and safety for operation Easy to calibrate and maintenance

Systematic training media, in-depth coverage basic principles and advanced application fully coverage of :

1. Process Variable & Measurement
2. Smart Transmitter , Recorder and Controller Operation , Configuration & Calibration
3. Calibration of Control Valve
4. Feed Back Control (PID Tuning)

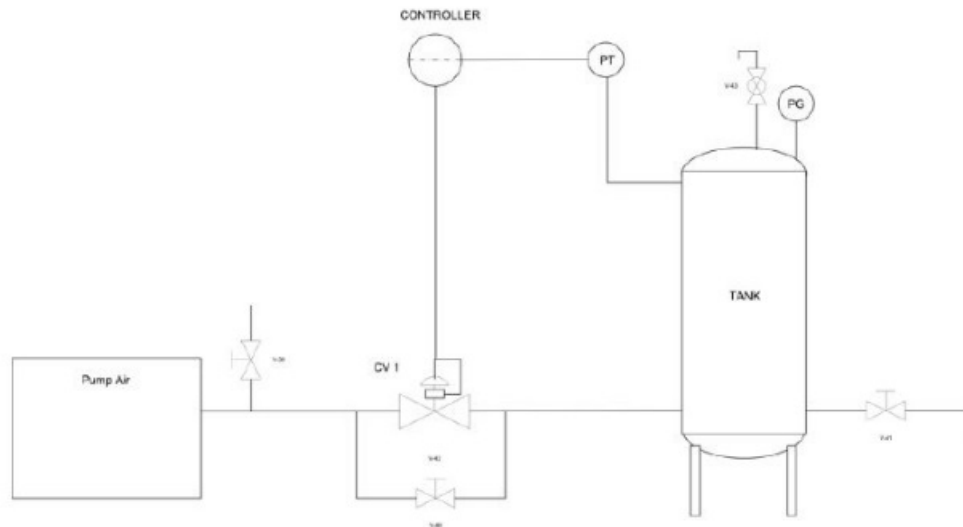


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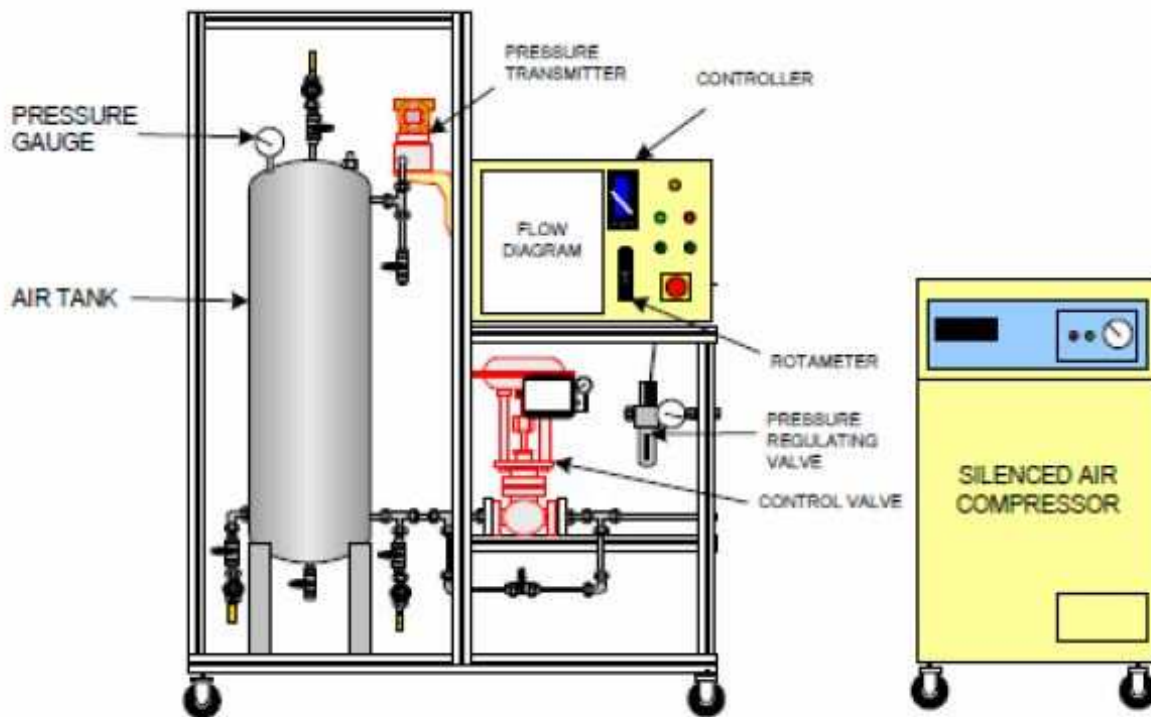
TECHNICAL SPECIFICATION :

Type	Range	Accuracy (%)
1. Pressure Transmitter (Silicon Resonant Sensor) - Transmitter with SIL 2 on IEC61508	0 to +20 kgf/cm ² 4 - 20 mA , 10.5 to 32 VDC	±0.2
2. Flow rate Inline Type	Max. 18L / M	
3. Pressure Regulating Valve size 1/2 " manual	-	-
4. Electro Pneumatic Control Valve (Final Element) - Actuator Type - Action	Diaphragm Operated Signal increased to OPEN (Fail To Close)	-





P & ID Diagram for Control



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Smart Plant Model Using For :

- Increase knowledge of process control
- Gain Operating and maintenance experience, confidence, check fault diagnosis and corrective actions in case of process equipment malfunction.
- Increase operator awareness, skills and safety
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- To know the strategies used to solving problems.
- Avoid the errors caused it easy to works.
- Improve working for performance and maximum success.
- Learn from the real device.



