

PRINCIPLE OF OPERATION:

Motive Water (water at high pressure) passes through the injector to produce vacuum. This vacuum extends upto Automatic Vacuum Regulator (AVR). The chlorine gas supplied [from Tonners / Cylinders or Chlorine Evaporators] under pressure is reduced to a lower pressure by Pressure Reducing Valve [PRV] and to a constant vacuum at the AVR. The gas under vacuum passes through a Gas Flow meter or Rotameter and Flow Control Valve [FCV].



The chlorine gas then gets mixed with the water at the injector and is then discharged to the point of application. Safety Valves like Check Valve, Emergency Drain Valve, Pressure Relief Valve and Vacuum Relief Valve are provided in this System to make it safe for both Operating Personnel and Equipment's longevity.

Automatic Vacuum Regulator

- Normally closed and opens only when there is vacuum, thus regulating the flow of chlorine gas in a controlled manner.
- Special design ensures minimal risk of handling chlorine gas under pressure.

Flow Meter

- Indicates directly the flow of Chlorine gas in terms of Grams/ Kilograms/ Pounds consumed per hour.
- Made of Borosilicate glass and calibrated for 10:1 Turn Down ratio
- Accuracy is $\pm 4\%$ of indicated flow.
- Flow can be adjusted by a specially designed Flow Control Valve allied with the Flow meter.

Safety Valves

- The system is provided with Pressure Relief Valve, Vacuum Relief Valve, Check Valve and Emergency Drain Relief Valve.
- Ensures safety at all critical moments to both Men and Machinery.

Injector

- Comes in Fixed-throat
- Made of PVC-FRP

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