

## **Pneumatic Ejectors** Various models available



Hydro Instruments manufactures a wide range of ejectors for various applications. We manufacture ejectors (venturis with a built in check valve) that can be operated using Air or Nitrogen as the motive fluid to induct Chlorine or other gases into the Air or Nitrogen stream.

We manufacture ejectors with orifice sizes from 0.100" diameter to 1.250" diameter. These are made with various material options, but primarily PVC, CPVC, PVDF, PTFE, Viton, and Hastelloy C-276. One known application for pneumatically operated ejectors is for injecting chlorine gas into air in flour mills. However, this could be used for other similar applications. A check valve is included to prevent back flow when ejector is not operating.

Consult the factory for feed rate capacity, performance requirements and material selection decisions.

## Reliability

- Inducted gaseous chemical flows under vacuum to avoid pressurized chemical leaks.
- Minimal moving parts for low maintenance.
- A check value is included to prevent back flow when the ejector is not operating.

## **Safety of Vacuum Systems**

Venturi / Ejector feed configuration offers an all vacuum design for the injection of gaseous chemicals. Chemical pumps would pressurize the gaseous chemical feed lines which presents the risk of a pressurized gaseous chemical leak.

## **Specific Chemical Applications and Material Selection**

Consult the factory, your local Hydro Instruments sales representatives and Hydro Instruments factory for material options and chemical resistance information for various gaseous chemicals. The standard materials of construction are PVC, Viton elastomers, and Hastelloy C-276 spring, PVDF nozzles and PTFE throats are available. Alternate materials can be offered upon request.



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