600 Emlen Way
Telford, PA 18969

Specifications for Hydro Instruments Model EJH-4100-CL2
4" Variable Orifice Ejector

1.01 GENERAL

1.01.1 Completeness

The system shall be complete with all components, equipment, and appurtenances.

1.01.2 Quality Assurance

All materials and components shall be new and unused of first quality by well-known manufacturers. Inferior materials or components shall not be allowed.

1.02 MANUFACTURER

The manufacturer shall be Hydro Instruments, Telford, PA, USA or approved equal.

1.03 VARIABLE ORIFICE EJECTOR

1. The ejector shall provide the operating vacuum for the system using a water operated venturi type nozzle.
2. The ejector shall provide chemical feed rates of up to 10,000 PPD (200 kg/hr.) Cl_2 by means of an adjustable orifice nozzle. The nozzle orifice shall be adjusted by a rotating handle, increasing/decreasing the nozzle orifice area allowing/restricting water flow to obtain the appropriate chemical feed rate.
3. Ejector performance shall be based on the ejector charts and tables published by Hydro Instruments for the model specified.
4. The ejector shall be equipped with 4" Van Stone style socket flanges on the inlet and outlet to allow for the process water connection.
5. The ejector shall incorporate a spring loaded, normally closed internal check valve assembly to prevent the back-flow of water into the chlorine gas equipment. The check valve shall be suitable for backpressures up to 100 psi (7 bar).
6. The ejector shall stop chemical feed and the check valve shall close automatically upon loss of vacuum.
7. The ejector shall have 1 ½" PVC union for connection to the chemical feed line.
8. The ejector shall be constructed from PVC and other chemically compatible materials.