

Specifications for the Hydro Model DPH-10000-CL2
Differential Pressure Regulator
Specification DPH-10000-CL2

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. The vacuum regulator shall be Hydro Instruments Model DPH-10000-CL2.

1.03 SPECIFICATIONS

1.03.1 General

1. The differential pressure regulator shall have a chlorine gas feed capacity of not less than 10,000 pounds per day (200 kg/hr).
2. The differential pressure regulator shall be constructed of materials suitable for chlorine gas under vacuum.
3. A total of two (2) 1.5” FPT gas feed connections shall be provided – One (1) inlet and one (1) outlet.
4. A total of two (2) ¼” FPT connections shall be provided – One (1) connection to the outlet high vacuum side and one (1) connection to the upstream low vacuum piping.

1.03.2 Differential Pressure Regulator

1. The differential pressure regulator shall maintain a constant pressure differential across a variable or fixed orifice providing a steady flow rate regardless of variations in upstream or downstream pressure.
2. The differential pressure regulator body parts shall be constructed of solid machined PVC material for maximum durability and cracking resistance.
3. The differential pressure regulator shall have a spring-opposed diaphragm assembly, which dampens pressure fluctuations.
4. Differential pressure regulator springs shall be made of Hastelloy C-276.