

hydro Gas Chlorinators PRICE LIST

Sequencing System for an all vacuum arrangement

The preferred arrangement for all gas chlorination systems, both cylinders and drums, is full vacuum with a vacuum regulator (vac reg) mounted directly on the cylinder/drum.

A pressure system using auxiliary valves, flexible connections and steel headers is available where an all vacuum system is not practical, i.e. in some 40 or 80 kg/hr systems etc. In these cases the vac reg is mounted on the pressure header.

The normal withdrawal rate with full vacuum systems, is 2 kg/hr from 70 kg cylinders and 10 kg/hr from 920kg drums at a room temperature of 20 deg C.

When there is a requirement for above 2 kg/hr with cylinders and above 10 kg/hr using drums, it has been normal practice to add a vac reg to a second cylinder or drum and to manifold two or more vac regs together via vacuum lines.

The use of full vacuum systems on multiple drums can lead to an uneven draw down. Thus if there were two duty drums with auto changeover to two standby drums, one of the first two drums would empty and as the second drum could not supply more than 10 kg/hr, the changeover valve would select the second set of two drums, thus leaving some chlorine in one of the first set of drums.

Note: in many systems with capacities of more than 10 kg/hr the actual use is less than 10 kg/hr and thus there is no problem with the two plus two system.

This is not a problem when using a pressure header as both drums will empty at the same time. However, a pressure system is not as safe as a full vacuum system.

For full vacuum systems that will run at above 2 kg/hr for cylinders and 10 kg/hr for drums we have a sequencing system.

- A 3+ drum sequencing system consists of;
 - 3+ x solenoid valves (chlorine under vacuum type) mounted prior to each vacuum regulator.
 - A control panel which can select the required no of drums to be in service with visual indication for: 3+ Drum In-Service - Standby - Empty. *Note: The empty indicator flashes.*

To initiate the sequencing operation, 300 series Vacuum Regulators are used with an "Out of Gas" switch.

There is no limit to the number of drums that can be added.

Price for a 3 drum system;

Control panel for 3 x drums including interconnecting cables for Vacuum Regulator "out of gas" switch and solenoids.
3 x solenoid valves are
3 x 300 series, Vacuum Regulators with "empty switch"

Each additional drum is:

Note: To complete the system, items such as below need to be considered.

EVA tube Ejector Rotameter Installation Omni-Valve etc.

Individual Item costs:

300 Series Vacuum Regulator

VRH-50T-CL2-MS

Replacement Solenoid valve

12030909