

Portacel[®] Disinfection Systems

Cherwell V - Changeover System

Introduction

The Portacel[®] Cherwell V Changeover System manufactured by Siemens Water Technologies is designed for vacuum dosing systems with flow rates from 25 g/h (13ppd) to 12 kg/h (633ppd).

It is a safe, simple means of automating small disinfection plants by providing a changeover facility between duty and standby gas supplies.

The Cherwell V Changeover System ensures that gas supply to the process is not interrupted either when the duty gas supply is exhausted or when the empty gas cylinders are replaced.

Design and Operation

The Cherwell V Changeover System is connected to two vacuum regulators and a gas doser.

The vacuum created by an ejector opens the vacuum regulator and draws gas from the duty gas cylinder. This passes through the Cherwell V system to the gas doser where the flow rate of gas is controlled.

At this stage a diaphragm valve within the Cherwell V system is positioned such that only the duty supply of gas is being drawn through the unit. Once the duty gas cylinder is empty the vacuum inside the Cherwell V system increases and acts on the diaphragm valve causing it to switch over and allow gas from the standby cylinder to flow.

Key Benefits

- Constructed from durable materials
- Reliable operation across a range of flow rates
- Safe changeover - automatic switching from duty to standby gas supplies ensure uninterrupted gas flow, even when plant is unattended
- Safe - system resets automatically when empty cylinder is replaced
- Safe - forms part of a vacuum operated dosing system
- Safe - specially treated Fluorocarbon rubber valve seats
- Compact design



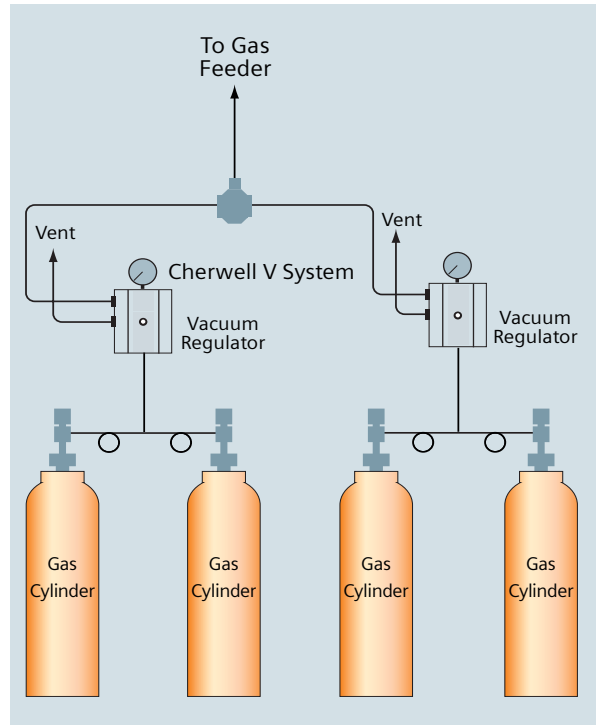
Product Sheet

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The operation allows a continual flow of gas to the doser. Once the exhausted cylinder is replaced the Cherwell V system is ready to carry out the next changeover of gas supply.

A visual indicator on the front of the Cherwell V system shows which gas supply is in use.



Technical Data

Capacity	25 g/h (13ppd) - 12 kg/h (633 ppd)
Weight	1.0 kg (2.2lbs)
Connections	1 outlet, 2 inlet compression couplings for 10mm (1/2") plastic tubing
Materials of Construction	Housings - uPVC
	Spring - Tantaloy
	Diaphragms & O-Ring seals - Special Viton® cured rubber compound
	Screws - 316 Stainless steel
	Hinge pins - Tantaloy
	Indicator - PTFE
	Window - Borosilicate glass
Operating Vacuum	51mm (20") wg working, 152mm (60") wg to operate changeover

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