

# SUREFLOW TECHNOLOGIES

## SERIES 4500 VACUUM OPERATED GAS FEED SYSTEMS

- ECONOMICAL CHLORINATION
- ALL VACUUM OPERATION
- CONSTRUCTED OF THE FINEST MATERIALS
- CYLINDER OR MANIFOLD MOUNTING - ONE SIMPLE CONNECTION
- WORLD-WIDE REPRESENTATIVES AND FACTORY TRAINED SERVICE



### Applications

#### ***Municipal Water and Wastewater Treatment***

For disinfection of potable water in municipal, industrial, or private systems, as well as in motels, resorts, housing projects and farm irrigation systems. An excellent chlorinator for municipal or private waste-water treatment systems or industrial plants.

#### ***Industrial Water and Waste-water Treatment***

For industrial water and waste-water treatment, including:  
Treatment of metal finishing wastes,  
Cooling water disinfection,  
Chlorination of boiler make-up water, and  
treatment of process or discharge water from paper, food canning, brewing, bottling, poultry processing and chemical process plants.

### Features

- **Economy** - At last, a high quality but economical chlorinator. Proof that quality doesn't have to be expensive.
- **Safety** - All vacuum operation. Remote ejector and direct cylinder mounting insures the highest degree of operator safety.
- **Construction** - Fine silver rate valve and inlet valve provide long life and accurate control. All machined body parts produce the most durable chlorinator available.
- **Automatic Switchover** - The availability of automatic switchover provides uninterrupted treatment. This feature permits changing used cylinders at the operator's convenience without stopping treatment.

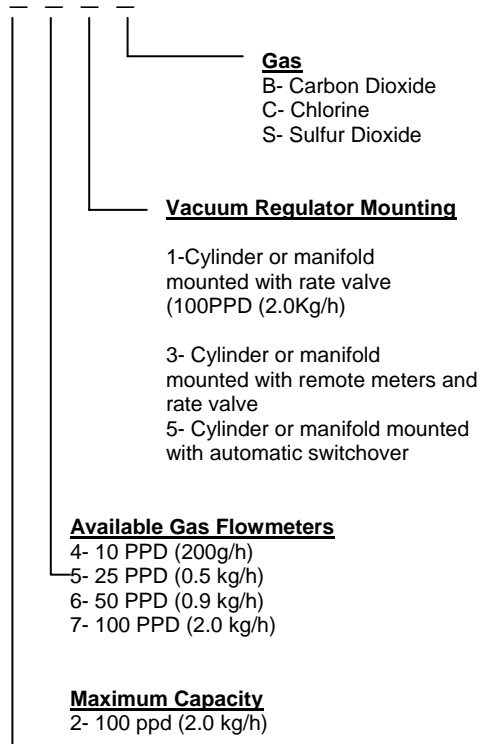
4212 BETHLEHEM PIKE, TELFORD, PA 19069  
TELEPHONE (215) 799-2420 FAX (215) 799-2424  
WWW.SUREFLOWTECH.NET

# SERIES 4500 VACUUM OPERATED GAS FEED SYSTEMS

## Technical Data

### Model Information Code

Model 4



### Vacuum Tubing Connections

Max. Capacity	Vacuum	Vent
100 ppd (2 kg/h)	3/8"	3/8"

### Size Requirements - Distance

The gas feeder can be a few feet to several hundred feet from the ejector, depending on the maximum feed rate and the diameter of the connecting tubing.

ppd (kg/h)	100'(31m)	200'(61m)	500' (153m)
50 (1)	3/8"	3/8"	1/2"
100 (2)	3/8"	1/2"	1/2"

### Ejector Connections

100 ppd (2 kg/h)	Nozzle 1" hose and 3/4" NPT Diffuser 1" hose and 3/4" NPT
------------------	--

### Materials of Construction:

PTFE, PVC, polyethylene, tantalum, silver, silver plated silicon bronze, monel, viton, and teflon.

### Back Pressure

Maximum back pressure at point of application for a standard ejector is 140 psig. For pressures greater than 140 psig, consult factory.

**Accuracy:** Within 4% of maximum flowmeter capacity

**Operating Range:** 20:1, manual, 10:1 automatic

**Operating Temperature:** Ejector 35 °F to 120 °F  
Other components: -20 °F to 120 °F

The system operating temperature is largely dependent on the withdrawal rate of gas from the cylinder and is a function of the ambient temperature.

### REPRESENTED BY:



### Feed Rate Capacities

All feed rate capacities shown in this bulletin are for chlorine. To determine those for other gasses, multiply the chlorine value by:

Sulfur Dioxide: 0.95

Carbon Dioxide: 0.78

### Gas Warning

All unattended gas containers and gas feed equipment should be monitored for leaks. Gas sensitive detectors, which will respond quickly to gas leaks into the atmosphere, should be installed at each site.

### Options and Accessories

Inlet Water Assembly	Booster Pumps
Scales	Manifolds
Gas Detectors	Isolating Valves
Corporation Stops	Automatic Controls
Residual Analyzers	Floor and Wall Cabinets