



## Series 300 Vacuum Regulator With Alarm Switch

# Chlorine and Sulfur Dioxide Systems

- 3-Year Limited Warranty
- Hastelloy-C Inlet Adapters
- Solid Machined PVC Construction

The Series 300 offers feed rates up to 500 PPD (10 kg/hr) and is now available with an optional out of gas alarm switch. This feature provides an electrical switch indication when the chemical source is exhausted.

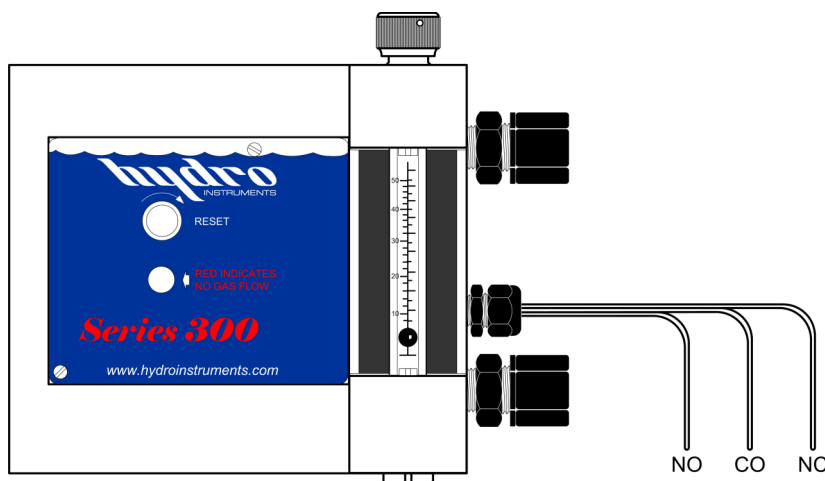
### Principle of Operation

During normal operation with enough chemical inside the gas cylinder or ton container, the guide pin will protrude above the surface of the seal cover. The guide pin holds the red indicator flag and is attached to the alarm switch assembly. The state of the alarm switch will not change while the system continuously delivers gas with a constant flow rate. For example, if the status of the switch is normally open (NO), then the switch would remain normally open (NO). When the gas cylinder or ton container fully depletes, the vacuum pressure inside the body of the vacuum regulator will allow the guide pin to be pulled back until it is below the seal cover surface. As a result, the red indicator flag will drop and the alarm switch assembly actuates, allowing the switch to change states. As a result the circuit will be completed or opened allowing signal transmission to externally connected monitoring instruments.



### Output Wiring Diagram

The interior micro alarm switch has three connections normally open (NO), normally closed (NC) and common (CO). Before starting up the gas chlorination system, connecting the NO and CO wires will set the initial status of the alarm switch to be normally open, and connecting NC and CO will set the initial status to be normally closed. The reversal of the alarm switch state indicates that the chemical supply source is empty.



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