



W-450 SERIES AUTOMATIC GAS CONTROL VALVE SPECIFICATIONS

Scope:

This specification describes the W-450 series automated gas control valve as manufactured by Modern Process Systems, Inc.

Design:

The automatic chlorine gas control valve shall be designed conforming to the following specifications:

The automatic chlorine gas control valve shall be a component of an all-vacuum operated gas feed system. The automatic gas control valve shall be an electromechanical servo type design to automatically control the gas feed rate. The valve should be driven by a bi-directional motor housed in a chemical resistant enclosure complete with all control electronics. The automatic valve will be wall mounted. It should also have a maximum capacity of 500 PPD of chlorine (475 PPD sulfur dioxide) and shall be initially sized to ____ PPD (chlorine/sulfur dioxide). Accuracy of the automatic valve shall be +/-4% over a 10:1 range. The automatic valve positioning accuracy will be +/-1%. A visual indication of valve position shall be provided. An auto/manual switch and a manual rate adjustment knob shall be easily accessible to provide for manually increasing or decreasing the gas flow in the event of a power failure, loss of input, or manual override. A dosage control adjustment shall be provided. The automatic valve shall accept a 4-20 mA signal input directly from a separate flow transmitter without the use of a signal converter. Optional available control modes shall be direct residual pacing or compound loop control (flow and residual control). The automatic gas control valve shall be the W-450 as manufactured by Modern Process Systems, Inc. or pre-approved equal.