



# V-RAD

## Vacuum-Revolving Automatic Doser

### NEW!

*The future of low capacity liquid chemical feed!*

- **Designed for Feed Rates of 0.1 through 4 GPH**

Recognizing the difficulties of reliably metering small rates of Sodium Hypochlorite and other liquid chemicals, Hydro Instruments has developed a device that addresses and solves the problems common to traditional vacuum systems and chemical metering pumps.

The **V-RAD** allows for controllably timed pulses of liquid chemical through a fixed self-cleaning orifice. In addition to eliminating the possibility of clogging or hysteresis, the **V-RAD** is designed for simplicity of operation and minimal maintenance.

### How It Works

Much like other vacuum systems, the **V-RAD** works with a Venturi nozzle to meter the solution under vacuum. With this design there are no pressurized chemical lines. The **V-RAD** replaces the traditional variable area orifice rate control valve. A fixed area orifice (various sizes are available) is opened and shut at a controlled periodicity to achieve the desired feed rate. The orifice is contained in a rotating stem. Each feed pulse travels through the orifice in the opposite direction. This provides for constant flushing of the orifice. **Any foreign matter entering the orifice will be carried around and immediately drawn away.**

### Features

The motor is directly coupled to the valve stem eliminating concern over common wear parts such as gears or drive belts. The valve is constructed of the very finest materials for superior chemical resistance and maximum longevity. The **V-RAD** can be manually set to a desired feed rate or automatically controlled using a 4-20 mA input.

### V-RAD Applications

The **V-RAD** was invented for one simple purpose: **to effectively and reliably meter low feed rates of liquid chemicals under vacuum.** Because both applications requiring feed rates of less than 2 gallons/hour and the problems with traditional methods of metering those feed rates are so widespread, the use of the **V-RAD** represents a solution for applications throughout the entire spectrum of municipal and industrial water treatment.



**No Vapor Locking   No Clogging   Absolute Control and Reliability   Guaranteed!**



INSTRUMENTS



