

Regulating Valve



Challenge

Maintaining consistent, reliable metering of flow is crucial when regulating the flow rate or providing back pressure to a process line. On a multi-product process line, the sizing of regulating valves is a fine balancing act. The valves must be capable of controlling flow on different products with varying flow rates and viscosities, while ensuring adequate flow is achieved for efficient CIP.

The use of modified shut-off valves, with no consideration given to the required CV or product flow rate, was traditionally the only option. This provided sloppy control and poor flow characteristics. Compromises on process flow were often accepted to ensure adequate flow during CIP and vice versa.

Large, expensive “pancake” style actuators were used for more delicate control. While offering better control of flow than traditional spring return actuators, the additional cost often made the fine control of process flow unattainable.

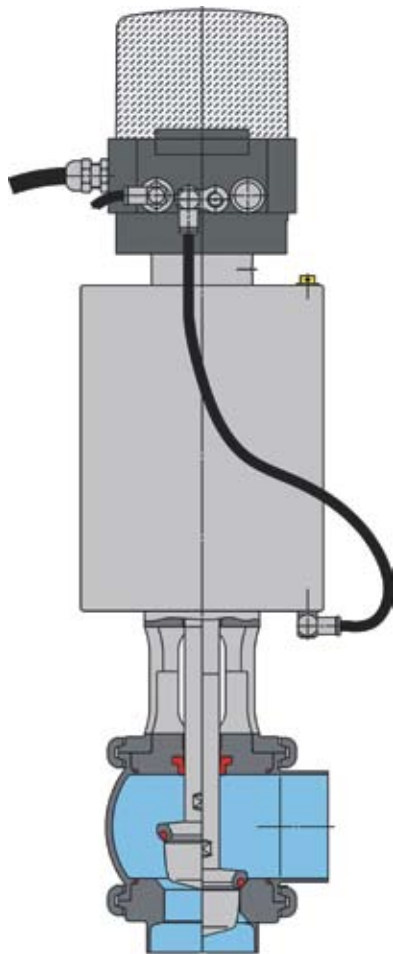
Solution

Norit Südmö's SVP Select Regulating Valve has many CV value options and offers both linear and equal percentage, which allows for total customization of each application using our standard components. This results in perfect control of product and CIP flow.

Our electropneumatic positioner (type 8630) and combination of multiple CV values and seat profiles allow for precise flow control without the need for large expensive actuators. The electropneumatic positioner takes an input signal, such as 4-20MA, either from the PLC or directly from the in-line sensor. When taken directly, this can eliminate the need for PID loops and related software. With the optional programmable features contained in the standard control top, functions such as gain, response time and customized curves, allow the user excellent control and repeatability.



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Benefits

- Multiple CV values available on each valve size
- Equal percentage and linear seats offered
- Bubble tight and metal to metal seats offered as standard
- Maintenance-friendly wearable components
- 10-year prorated warranty on actuator
- Field reversible actuator
- O-rings (not V-rings) require no special tools for seal insertion

Applications

- Filling operations
- Back pressure to process and utility lines
- Ingredient injection to process lines

Standard Specifications

Materials

- Product contact: 316L (1.4404)
- Non-product contact: 304 (1.4301)
- Optional: Hastelloy, AL6XN

Seals

- Standard: EPDM
- Optional: HNBR, FPM (Fluoro-Rubber), FFPM (Perfluorinated Fluoro-Rubber)

Operating Pressure

- Control air pressure: Standard 87-116 psi
- Product pressure: Standard 87 psi
- Optional: 145 psi

Connections

- Standard: Sanitary O.D. tube butt weld
- Optional: Sanitary O.D. tube clamp
Welding ends for metric tubes
Welding ends for ISO tubes
DIN nut

Finish

- <= 32 Ra product contact
- <= 63 Ra non-product contact

Options

- Improved mechanical polish/electropolish
- Sterilization chamber
- Equal percentage or linear seat
- Metal seat
- Positioner
- Diaphragm actuator
- P³ aseptic diaphragm

Südmö North America Inc. reserves the right to make changes in the technical specifications at any time.



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