

The control valve test system used by SAMSON can provide a detailed analysis on any control valves' health and performance. This control valve test system consists of hardware including sensors for measuring pressures, travel, and input / output signals as well as software to present results of data analysis in a user-friendly format, any control valves' health and performance.

The results of these tests can provide a control valves' current health e.g. birth certificate or health checkup as well as verification of achievement of operational

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**Tests Include:**

- Control Valve Profile (Overall Valve Health Report)
- Sensitivity Test
- Resolution Test
- Stroke Speed Test
- Step Response Test
- Multi-Step Test
- Hysteresis Test
- Deadband Test

**Customer Benefits:**

- Analysis of unbiased data measured direct off control valve
- Ensure valve is at optimal performance levels
- Identify signs of issues without taking valve apart
- Additional data set for IIoT & Machine Learning
- Confirm settings to increase reliability and decrease total cost of ownership.

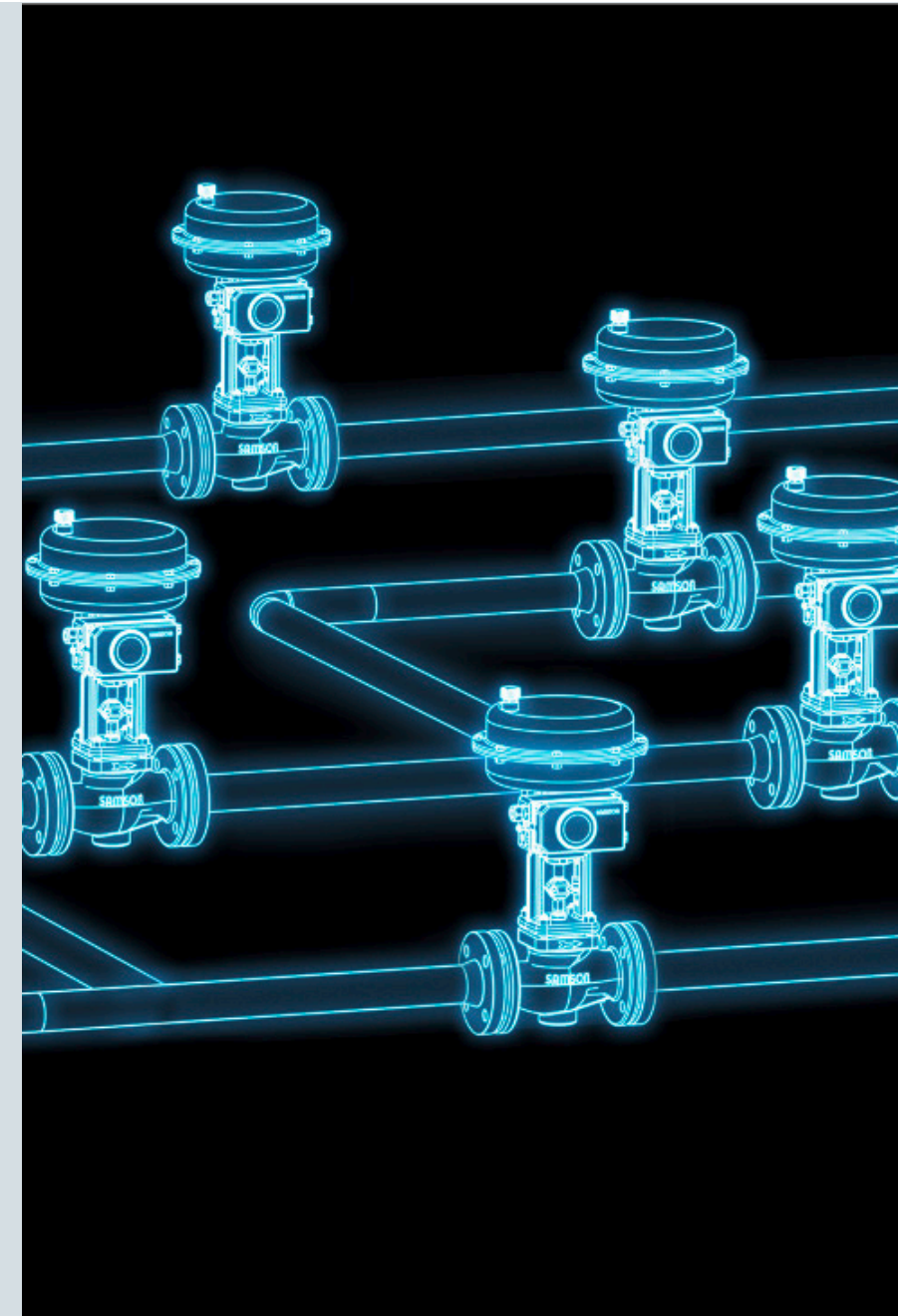


SAMSON's technology has proven its value worldwide in a variety of industries. We are trusted in many of the world's most challenging applications to achieve precise control with a high level of safety and reliability.

We offer engineered solutions from a single source. With our extensive range of valves, actuators, and accessories we have the right products to suit your requirements.

Our linear and rotary control valves are equipped with SAMSON positioners that allow seamless integration into process control systems.

Continuous investment in research and development allows us to stay at the cutting edge of technology. With over 100 years of experience and expertise, you can count on SAMSON to provide a robust solution for your application.



**SAMSON Controls Inc.**

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Travel (deg)	✓
Seat Contact (mA)	✓
Full Open (mA)	✓
Nominal Displacement (mA)	✓
Dynamic Error (max%)	✓
Dynamic Error (mean %)	✓
Friction (max) (lbf)	✓
Friction (mean) (lbf)	✓
Bench Set (min) (psi)	✓
Bench Set (max) (psi)	✓
Seat Load (lbf/in)	✓
Total Seat Force (lbf)	✓
Actuator Pressure (psi)	✓
Seat Contact I/P (psi)	✓
Full Open I/P (psi)	✓
Overshoot	✓
Undershoot	✓
Rise Time	✓
Fall Time	✓
Dead Time	✓
Velocity Incr (deg/sec)	✓
Velocity Decr (deg/sec)	✓
Delta Timer Incr (deg/sec)	✓
Delta Timer Decr (deg/sec)	✓
Dead Time (sec)	✓
Total Time sec (0-99%)	✓
Total Time sec (100-1%)	✓
Max Supply Pressure (psi)	✓
Supply Pressure Drop (psi)	✓
Stroke Length (deg)	✓

