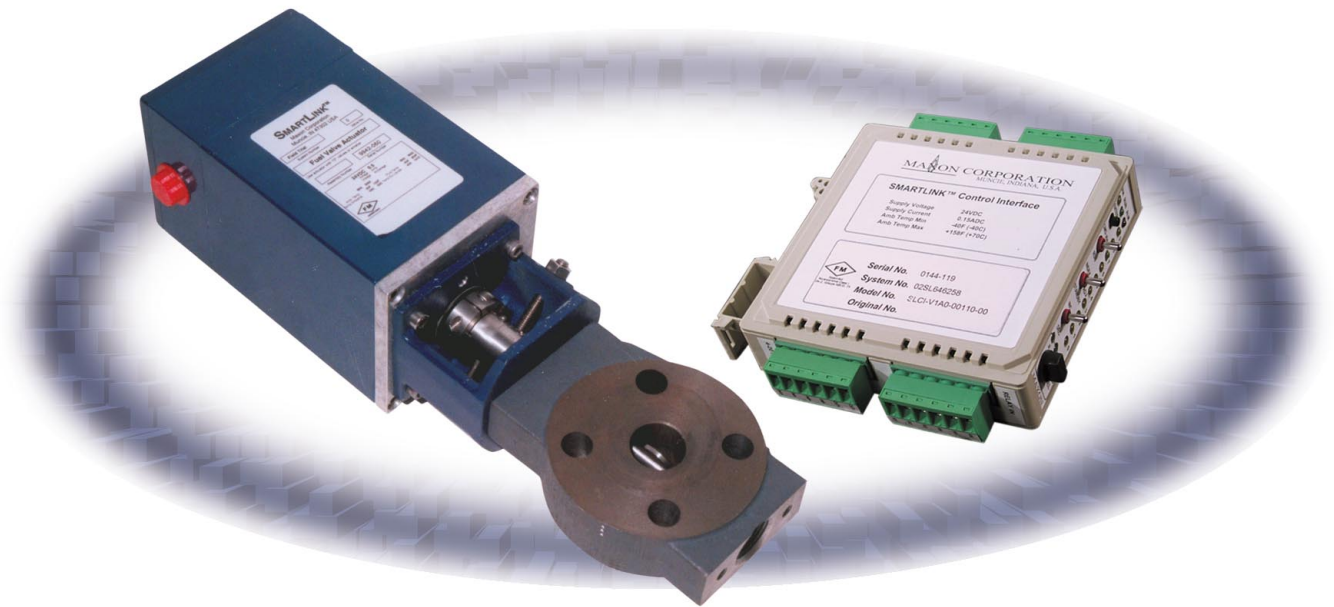


## SMARTLINK™ Intelligent Valve Actuator Assembly



- **Direct coupled, factory calibrated valve and actuator assembly for precision flow control**
  - Provides precise and repeatable flow control required in modern processes to maximize efficiency and minimize emissions
  - Reduces failures and inaccuracies associated with field-configured, linkage-type mounting arrangements
- **Rugged industrial design includes continuous duty NEMA 4X valve actuators with integrated position feedback and heavy duty planetary gearheads**
  - For reliable, long-life operation
- **Fully adjustable, 19 position, electronic gradient feature; accurate to 0.1 degrees**
  - Easy customization of the valve flow characteristic for high precision flow control and repeatability
- **DIN rail-mounted valve control interface with LED display and command switches**
  - "Links" the user's process controller to the valve actuator; provides a precision, 4-20mA position feedback signal and several discrete outputs for indication of control status and alarm
- **Digital position communication** minimizes interference when applied in industrial environments
- **Electronic combination "lock"** prevents tampering and continuous adjustment
- **Compact, robust design** mounts in any orientation; eliminates need for additional support
- **No lubrication required;** reduces maintenance
- **Factory Mutual (FM) approved as non-incendive for Hazardous Locations Class I, Division 2, Groups A, B, C, and D, T4 Temperature Code; NEMA 4X standard actuator**

Manufactured under U.S. patent #6,279,870



# SMARTLINK™ Intelligent Valve Actuator Assembly

The Maxon SMARTLINK™ Intelligent Valve Actuator Assembly is a rugged, turnkey solution for industrial flow control applications that require a high degree of precision, repeatability, and commissioning flexibility in a small space.

In addition, SMARTLINK™ provides easy, on-site customization of the valve flow characteristics. This feature makes it an ideal solution for parallel valve positioning systems in combustion control applications.

The SMARTLINK™ assembly includes two components: 1) a Valve Actuator direct-coupled to a valve and, 2) a Control Interface unit between the Valve Actuator and the user's process controller, PLC, or DCS.

The **Valve Actuator** is an industrial rated, factory-calibrated assembly that incorporates a heavy-duty, planetary gear-head with integrated, long-life position feedback. It also includes a stepper motor for continuous duty, high precision valve control. The Valve Actuator is powered by 24VDC through a four wire cable that also includes a digital position communications interface to ensure reliable operation in electrically noisy environments.



The **Control Interface** is a DIN rail-mounted electronic device that “links” the user's process controller to the Valve Actuator. Several front panel-mounted switches and lights are provided for displaying alarms, simple valve configuration, and valve characterization. The Control Interface also provides a precision, 4-20mA position feedback signal and several relay driver outputs for indication of alarm and control status. The unit is typically mounted in a control panel along with a Maxon or user-supplied 24VDC supply and output interface relays.



The SMARTLINK™ Intelligent Valve Actuator Assembly specifications are as follows:

<b>Position Accuracy</b>	0.1 degrees
<b>Position Command</b>	4-20mA isolated input; 4.8V burden @20mA
<b>Position Feedback</b>	4-20mA isolated output; 400 ohm max load
<b>Power Input</b>	24VDC +/-5%, 25W peak, 12W average
<b>Duty Cycle</b>	Continuous
<b>Relay Driver Outputs</b>	Open collector, 30 VDC & 100mA max
<b>Ambient Temperature</b>	-40°F to 158°F (-40°C to 70°C)
<b>Relays (optional)</b>	Output contacts: 250 VAC/DC @ 6 Amps
<b>Travel Time</b>	14 seconds (full open to close)
<b>Approvals</b>	Factory Mutual: Non-incendive for Class I Division 2, Groups A,B,C & D Hazardous (Classified) Indoor and Outdoor (Type 4X for Valve Actuator Only) Locations

## Maxon Valve Options

<b>Cast Iron</b>	1", 1.25", 1.5", 2", 2.5", 3", 4", 6", 8", 10", 12", 14", 16"
<b>Carbon Steel</b>	1", 1.25", 1.5", 2", 2.5", 3", 4"
<b>Brass</b>	1" through 3"

