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# Maxon Shut-Off and Vent Valves Hazardous Locations



*2" Series 808NI  
position "L"*



*2-1/2" Series STO-ANI-CP  
position "L"*



*3"-F Series 5000NI-S  
with flanged body  
position "L"*

- **Electrically actuated valves shut off gas or oil lines** in less than one second.
- **Normally open versions available** for vent or process purge lines with Maxon's long-lasting metal-to-metal seating.
- **Application flexibility provided** with 3/4" through 6" diameter line sizes,  $C_v$  flow factors up to 765, and line pressures up to 600 PSIG.
- **All Maxon top assembly enclosures meet approval sanctions:**
  - NEMA 1, 3, 3S, 4, and 12; Available with NEMA 4X trim (optional)
  - “NI” valves are FM approved for hazardous locations:
    - Class I, Division 2, Groups A, B, C, and D: T5 (AC)
    - Class II, Division 2, Groups F and G: T5 (AC)
    - Class III, Division 2: T5 (AC)
  - “NI” Valves are built in accordance with the Non-Incendive Component Criteria as outlined by NEC/NFPA 70-1996 Articles 500-2(a)(6)

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## Normally Open or Normally Closed valves



*1-1/4" Series 4760NI  
position "L",  
socket welded nipples and flanges*



*1" Series STO-MNI  
position "R"*

- **Sanctioned service valve approvals:**
    - FM (Factory Mutual) sanctioned
    - IRI (Industrial Risk Insurers) approvable for block/bleed/vent systems
    - Contact your Maxon sales representative for international sanctions information
  - **Handles flowing fluid temperatures:**
    - Rising stem bodies from -20°F (-28°C) to +140°F (+60°C)
    - Swinging gate bodies from -20°F (-28°C) to +250°F (+121°C)
    - Any ambient temperature from -20°F (-28°C) to +140°F (+60°C)
  - **Valve bodies designed to ANSI** (American National Standards Institute) standards. ISO (International Standards Organization) standards also available.
  - **Various application requirements met** with manual reset or automatic reset motorized operators.
  - **Minimize line pressure drops** with straight-through flow swinging gate or rising stem (guillotine action) valve bodies.
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## Maxon Valves – large or small, gas or oil, open or closed



*2-1/2" Series 5000NI-CP  
position "R"*



*3"-F Series 808NI-S  
with flanged body  
position "L"*

- **Minimal field maintenance required.**
  - **Positive visual indication of valve body position** is provided by large two-color open-shut indicator.
  - **Bodies built for heavy duty industrial service** of one-piece cast iron or cast steel.
  - **Installation piping convenience obtained** from field rotatable top assemblies.
  - **Special operating features** available in Special Service Packaged versions.
  - **Micro-lapped seating** wears in, not out.
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# Accessory Options



*2" Series 808NI  
position "L"  
with wheel & chain assembly*



*1-1/4" Series 5000NI  
with ISO threads  
position "TO"*

- **Positive indication of valve body position provided through:**
  - Auxiliary SPDT signal switches mounted inside valve top enclosure.
  - Proof-of-open and/or Proof-of-closed position switches.
- **Built-in over travel valve body design** meets requirements of insurance standards.
- **External junction box requirement eliminated** with built-in valve wiring compartment and electrical terminal block.
- **Manual reset valves may be mounted in overhead lines** with use of wheel and chain option.
- **Companion flange sets available** to simplify installation.



**CORPORATION**

201 East 18th Street, P.O. Box 2068, Muncie, Indiana, 47307-0068. Phone: (765) 284-3304. FAX: 765-286-8394

## Hazardous Location Valves

# Design Features and Operating Concepts

### Valves with electro-mechanical actuators for quick opening or closing action

**Normally closed shut-off valves** are used in burner system fuel supply lines on industrial boilers, furnaces, ovens, kilns, and other heating processes. All valves are designed to shut-off fuel automatically and instantly with an interruption in the electric power supplied through your safety circuit.

These valves are also used for the **manual** or **motorized** opening or closing of pipe lines carrying gases and liquids commonly used in industrial processes. Normally closed valves cannot be opened until the interlocking safety control circuit is proven and resulting electrical power is supplied to the shut-off valve.

**Motorized automatic valve actuators** are used where remote access or unmanned applications are needed.

**NOTE:** Valve motors and solenoids are protected against thermal overload. If the valve duty cycle is exceeded, the motor and/or solenoid must be allowed to cool before the internal thermal protection will automatically reset.

**Manual reset actuators** require operating personnel to be physically present to actuate the valve from its at rest position.

**Normally open vent valves** are most often used as the bleed valve in a block-and-bleed pipe train, sometimes required by insurance authorities. They are designed to open a vent line automatically and instantly upon an interruption in the electric power supply through your safety control circuit.

These normally open valves are also used in protective atmosphere systems and other gaseous and fluid service requiring quick opening or by-pass purging action.

Like the normally closed versions, both automatic and manual reset actuators are available for remote access locations, or when operating personnel's physical presence is preferred.

**All Maxon valves feature one-piece cast iron or cast steel bodies** with micro-lapped seats and discs. Straight-through flow path minimizes pressure drop through full open swinging gate or rising stem (guillotine action) bodies.



**Representado Por:**  
INSURCOL LTDA  
Calle 41 No 21-32  
Tel: (097) 6700100  
Fax: (097) 6422870  
Email: info@insurcol.com