

NI Series Hazardous Location Safety Shut-off Valves

Industrial Grade Hazardous Duty Electro-Mechanical Safety Shut-off Valve that stops the flow of gases to the combustion chamber in under a second. Offered in a wide range of body connections, construction materials, with global certifications.

Overview



These electrically actuated valves shut off gas or oil lines in less than one second. Normally open versions of these shut off valves are available for vent or process purge lines with MAXON's long-lasting metal-to-metal seating. A variety of optional body materials and body connections provide reliable operation of the gas valve even for highly corrosive fuels and for oxygen. Application flexibility is provided with 3/4 through 6 diameter line sizes, Cv flow factors up to 765, and line pressures up to 125 PSIG (8.6 bar).

Features & Benefits:

- 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 longlasting metal-to-metal seating
- Application flexibility provided with 3/4" through 6" diameter line sizes, Cv 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)
- Sanctioned serviceqCXe 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
- 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
- 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

Specifications



STANDARDS & CERTIFICATIONS

Approvals

- Factory Mutual approval for hazardous locations, Industrial Risk Insurers for block/bleed/vent systems, FM 7400 standard compliance, CSA 6.5 standard compliance, Non-Incendive Component Criteria per NEC/NFPA 70-1996, Article 500-2(a)(6), Valve bodies designed to ANSI; ISO standards also available

Hazardous Location Approvals

- Class I Div 2 (Groups A, B, C, D); Class II Div 2 (Groups F, G); Class III Div 2

PERFORMANCE, FLOW & CAPACITY

Flow Coefficient (Cv/Kvs)

- Cv flow factors up to 765

ENVIRONMENTAL CONDITIONS

Ambient Temperature Range

- -20 to +140 deg F (-28 to +60 deg C)

Enclosure Rating

- NEMA 1, 3, 3S, 4, 12; Optional NEMA 4X trim

ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

Position Switch Options

- SPDT signal switches, proof-of-open/closed switches

Position Indicator

- Large two-color open-shut indicator

Valve Type

- Shut-off and vent valves (electrically actuated)

MATERIAL SPECIFICATIONS

Valve Body Material

- One-piece cast iron or cast steel

TEMPERATURE CONTROL/MEASUREMENT

Temperature Rating

- Fluid - Rising stem: -20 to +140 deg F (-28 to +60 deg C)
- Swinging gate: -20 to +250 deg F (-28 to +121 deg C)

Temperature Class

- T5 (AC)

PRESSURE SPECIFICATIONS

Line Pressure

- Up to 600 psig

OVERVIEW

Product Type

- Electrically actuated safety shut-off and vent valves for hazardous locations

DIMENSIONS & SIZE SPECIFICATIONS

Valve Sizes

- 3/4 to 6 in diameter line sizes



Body Design

- Straight-through flow using swinging gate or rising stem (guillotine action) designs

Filters

▼ CATEGORY

☒ Base Part

▼ TYPE

☒ Shut-Off Valve

☒ Vent Valve

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Part Number	075S8112
Description	.75" NI Pneumatic Shut-Off Valve
Category	Base Part
Type	Shut-Off Valve
	Order Online
Part Number	100S8122
Description	1" NI Pneumatic Vent Valve
Category	Base Part
Type	Vent Valve
	Order Online

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Product Number



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.75" NI Pneumatic Shut-Off Valve

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100S8122
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