

Series 8000 Air Actuated Safety Shut-off Valves for Fuel Gas Service

Industrial Grade Pneumatic Safety Shut-off Valve that stops the flow of natural and highly corrosive gases to the combustion chamber in under a second. Offered in a wide range of body connections, construction materials, with global certifications.

Overview



MAXON Series 8000 Valves are pneumatically actuated valves with a powerful closing spring and a large, top-mounted 360-degree open-shut visual position indicator. The Series 8000 can be ordered with a wide range of internal trim options to handle general purpose or corrosive gases and comes in a compact, space-saving design. The Series 8000 provides simple installation and low maintenance for trouble-free, long-term uninterrupted operation.

Features & Benefits:

- Cast iron, carbon steel, low temperature carbon steel and stainless steel body assemblies in sizes from 3/4 to 8
- Hazardous Location approved: Intrinsically Safe and Non-Incendive constructions available
- Factory Mutual, CSA, CE, IECex, INMETRO and KTL (KC mark) approved safety shut-off and vent valves
- Full assessment to IEC 61508 as SIL 3 capable
- Oxygen compatibility, NACE compliance, and fire safe conformance to API 6FA
- Ambient temperature range of -58F (-50C) to 140F (60C)
- Gas temperature range of -58F (-50C) to 212F (100C)More powerful with Partial Stroke Test Technology. The Series 8000 Valve can be coupled with MAXON's PSCheck Partial Stroke Testing technology to ensure maximum uptime without sacrificing safety. The PSCheck technology, when combined with the Series 8000 safety shut-off valve, provides the highest level of safety security that can be SIL 3 certified. The PSCheck was designed to minimize probability of failure on demand by automatically testing valve function without process flow interruption or line shutdown. Click here for more information on MAXON's Partial Stroke Testing solution with Series 8000 Valves. The Series 8000 Valve is now available with the following enhancements:
- 8 size 8000 safety shut-off valve
- 3/4 size 8000 safety shut-off valve
- External redundant solenoids
- External redundant solenoids with manual reset
- Non-destructive engineering tests
- MAXON Series 8000 Pneumatic Safety Shut-off Valves combine a unique space-saving design with a maintenance-free bonnet seal and a replaceable actuator for easy installation and smooth, trouble-free operation
- The valve's quick exhaust and powerful closing spring provide valve closure in less than one second and reliable, long-life operation
- Series 8000 Valve's compact design simplifies piping design and minimizes space requirements
- The field-replaceable actuator provides easier maintenance and reduced downtime. The actuator can also be rotated around the valve body in 90° increments to fit your specific application requirements
- A unique bonnet design eliminates packing adjustments for reduced maintenance and minimized drag on closing
- The large top-mounted open-shut indicator is visible from all angles for easy proof of valve position. SIL 3 capable design provides easy design for safety instrumented systems in the IEC 61508 and 61511 process. FM, CSA and CE approvals for use as a fuel safety shut-off valve making easy integration with worldwide certifications
- MAXON offers MAXON PSCheck partial stroke test technology designed especially for Series 8000 valves, to minimize probability of failure on demand by testing valve function without line shutdown. The combination of MAXON PSCheck and SIL 3 capable Series 8000 valves will help ensure safe, reliable operation of your process

Specifications

PRESSURE SPECIFICATIONS

Actuator Pressure Requirement

- 40-100 psig (varies by series)

Operating Pressure Range

- Up to 255 psig (varies by size and configuration)

STANDARDS & CERTIFICATIONS

Hazardous Location Approvals

- Non-Incendive: FM, CSA, EN161, IECEx, UKCA (GAR), SIL 3 capable, Inmetro certified, KTL, CCC, API 6FA
- Intrinsically Safe: FM, CSA, EN161, IECEx, UKCA (GAR), UKCA (ATEX), ATEX, SIL 3 capable, Inmetro, KTL, CCC, EAC EX, CCC, API 6FA

Approvals

- General Purpose Valves: FM, CSA, UKCA, EN161, PED, EAC, SIL 3 capable, API 6FA

ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

Visual Position Indicator

- 360 deg top-mounted, configurable (red/green or yellow/black)

Opening Time

- ~1 to 3 seconds (size-dependent)

Closing Time

- <1 seconds

Valve Type

- Pneumatically actuated shut-off and vent valves

ENVIRONMENTAL CONDITIONS

Ambient Temperature Range

- -40 to 140 deg F (option for -58 to 140 deg F)
- IS versions: up to 122 deg F

Enclosure Rating

- NEMA 4, NEMA 4X, IP65

FLUID/MEDIA/COMPONENT TEMPERATURES

Fluid Temperature Range

- -40 to 212 deg F (option for -58 to 212 deg F)

MATERIAL SPECIFICATIONS

Valve Body Material

- Cast Iron, Carbon Steel, Low Temp Carbon Steel, Stainless Steel

Trim Materials

- Various trim options available depending on fuel gas including: 400 SS Seat/Hardened Ductile Iron Disc /PEEK follower for clean gases, 300SS Seat/300SS Disc/PEEK follower400 Series Stainless Steel for corrosive gases, and 300SS Seat/300SS Disc/300SS Follower for Firesafe applications

Seal Material

- Buna-N, Viton, Ethylene Propylene, Omniflex

ELECTRICAL & SIGNAL SPECIFICATIONS

Electrical Rating

- 24 VDC, 120 VAC, 240 VAC



- NEMA 4, 4X, IP65

CONNECTIONS & INTERFACES

Connection Type

- NPT, ISO Threaded, ANSI/DIN/EN Flanged, Socket Welded with 150#/300# flanges

DIMENSIONS & SIZE SPECIFICATIONS

Valve Sizes

- 3/4 (DN20) to 8 in (DN200)

ACTUATION, CONTROL & MOTION CHARACTERISTICS

Switch Type

- SPDT (VOS1/VCS1, VOS2/VCS2), IP67 Standard for Non-Incendive Valves, Optional for Intrinsically Safe Valves

PROCESSING & PERFORMANCE METRICS

Cycle Life

- CSA: 100,000; FM: 20,000; EN161: up to 200,000 (≤3 in)

Filters

▼ CATEGORY

☒ Spare Part

☒ Base Part

▼ TYPE

☒ Shut-Off Valve

☒ Switch

☒ Shut-Off Valve Body

☒ Vent Valve

☒ Valve Assembly

☒ Valve Stem

☒ Wire

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Part Number	0100470-000002
Description	01004700-A1B-B0B622A120
Category	-
Type	-
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Part Number	038S8132
Description	.38" NI Pneumatic Oil Shut-Off Valve
Category	Base Part
Type	Shut-Off Valve
	Order Online
Part Number	038S8133
Description	.38" IS Pneumatic Oil Shut-Off Valve
Category	Base Part
Type	Shut-Off Valve
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Part Number	038S8134
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Category	Spare Part
Type	Shut-Off Valve Body
	Order Online
Part Number	050S8132
Description	.5" NI Pneumatic Oil Shut-Off Valve
Category	Base Part
Type	Shut-Off Valve
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Part Number	050S8133
Description	.5" IS Pneumatic Oil Shut-Off Valve
Category	Base Part
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Category	Spare Part
Type	Shut-Off Valve Body
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