

SHUTOFF VALVES

# High Pressure Electro-Mechanical Gas Safety Shut-off Valves

Industrial Grade 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. All shut off valves come equipped with MAXON's long-lasting metal-to-metal seating. A variety of optional body materials and body connections provide reliable operation 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 1230, and line pressures up to 125 PSIG (8.6 bar).**

**Features & Benefits:**

- Electrically actuated valves with powerful closing spring provide closure in less than 1 second for reliable, long-life operation
- Factory Mutual, CSA, UL and CE approved; Canadian registration obtained on all valve bodies
- Hazardous Locations valves approved for Nonincendive Class I, Division 2 areas
- Full assessment to IEC 61508 as SIL 3 capable
- Visual position indication provided
- Cast iron, carbon steel, low temperature carbon steel and stainless steel body assemblies with internal trim options to handle general purpose or corrosive gases; oxygen compatibility available
- Ambient and gas temperature ranges of -20°F to 140°F
- Application flexibility provided with 3/4" (DN20) through 6" (DN150) line sizes & line pressures up to 125 psig
- Unique bonnet design eliminates packing adjustments, reducing maintenance and minimizing drag on closing
- MAXON electro-mechanical gas valves meet Fluid Control Institute (FCI) 70-2 control valve standard for Class VI seat leakage
- Field rotatable top assemblies in 90° increments to fit specific application requirements
- Actuator assemblies available with manual reset or automatic reset operators
- Normally-closed and normally-open versions available
- Overtravel position switches for open and closed position

## Specifications

STANDARDS & CERTIFICATIONS

**Hazardous Location Approvals**

- FM, CSA, IECEx, KTL, CCC (model-dependent)

**Approvals**

- UL, CSA, FM, CE, SIL 3 (IEC 61508), AGA, GAR, PED, LVD, EMC, IECEx, KTL, Chinese GB

PERFORMANCE, FLOW & CAPACITY

Flow Coefficient (Cv/Kvs)

- Varies by size and model; up to 1172 Cv for 6 in high capacity

PRESSURE SPECIFICATIONS

Maximum Line Pressure

- Line pressures up to 125 psig

ELECTRICAL SPECIFICATIONS

Maintenance Interval

- Minimal; annual operational and leak testing recommended

MATERIAL SPECIFICATIONS

Valve Body Material

- Cast Iron, Carbon Steel, Low-Temperature Carbon Steel, Or Stainless Steel

Seal Material

- Buna, Viton, Ethylene Propylene, Omniflex

ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

Valve Closure Time

- <1 seconds (spring return)

Valve Orientation

- Top assembly rotatable in 90 deg increments

Actuator Type

- Electro-mechanical actuator with solenoid and either Automatic or Manual Reset Actuators

Valve Type

- Shut-off (Normally Closed), Vent (Normally Open)

TEMPERATURE CONTROL/MEASUREMENT

Temperature Rating

- 20 to 125 deg F (H Models)
- 20 to 140 deg F (S and C Models)
- 0 deg F min for oxygen service

SYSTEM MONITORING, INDICATION & STATUS

Visual Indication

- Open/Closed window indicator

ELECTRICAL & SIGNAL SPECIFICATIONS

Electrical Rating

- Motors: up to 667 VA; PCB: up to 25 VA
- Solenoids: 23 to 40 VA (AC), 14 to 34 W (DC)

INSTALLATION & MOUNTING SPECIFICATIONS

Mounting Options

- Horizontal or vertical installation
- Threaded, Flanged, Socket Welded



Switch Options

- VOS (Valve Open Switch), VCS (Valve Closed Switch), SPDT, DPDT

DIMENSIONS & SIZE SPECIFICATIONS

Nominal Sizes

- 3/4 to 6 in (DN20 to DN150)

OVERVIEW

Product Type

- Electrically actuated electro-mechanical gas safety shut-off valve

PROCESSING & PERFORMANCE METRICS

Cycle Life

- 6,000-20,000 (manual) depending on standards
- Approved for: up to 200,000 cycles (automatic)

Filters

▼ CATEGORY

☒ Spare Part

☒ Base Part

▼ TYPE

☒ Shut-Off Valve

☒ Switch Kit

☒ Wire

☒ Label

☒ Mounting Base Assembly

☒ Linking Assembly

☒ Solenoid Assembly



Search

|             |                                          |
|-------------|------------------------------------------|
| Part Number | 018428                                   |
| Description | VCS-1(SOV)VOS-1(STO)SWITCH SET           |
| Category    | Spare Part                               |
| Type        | Switch Kit                               |
|             | <a href="#">Order Online</a>             |
| Part Number | 018429                                   |
| Description | VCS-2(SOV)VOS-2(STO)SWITCH SET           |
| Category    | Spare Part                               |
| Type        | Switch Kit                               |
|             | <a href="#">Order Online</a>             |
| Part Number | 075SMA11                                 |
| Description | .75" E/M STD FLOW GP AUTO SHUT-OFF VALVE |
| Category    | Base Part                                |
| Type        | Shut-Off Valve                           |
|             | <a href="#">Order Online</a>             |



|             |                                          |
|-------------|------------------------------------------|
| Part Number | 075SMA12                                 |
| Description | .75" E/M STD FLOW NI AUTO SHUT-OFF VALVE |
| Category    | Base Part                                |
| Type        | Shut-Off Valve                           |
|             | <a href="#">Order Online</a>             |
| Part Number | 075SMA21                                 |
| Description | .75" E/M STD FLOW GP AUTO VENT VALVE     |
| Category    | Base Part                                |
| Type        | Vent Valve                               |
|             | <a href="#">Order Online</a>             |
| Part Number | 075SMA22                                 |
| Description | .75" E/M STD FLOW NI AUTO VENT VALVE     |
| Category    | Base Part                                |
| Type        | Vent Valve                               |
|             | <a href="#">Order Online</a>             |
| Part Number | 075SMM11                                 |
| Description | .75" E/M STD FLOW GP MAN SHUT-OFF VALVE  |
| Category    | Base Part                                |
| Type        | Shut-Off Valve                           |
|             | <a href="#">Order Online</a>             |
| Part Number | 075SMM12                                 |
| Description | .75" E/M STD FLOW NI MAN SHUT-OFF VALVE  |
| Category    | Base Part                                |
| Type        | Shut-Off Valve                           |
|             | <a href="#">Order Online</a>             |
| Part Number | 075SMM21                                 |
| Description | .75" E/M STD FLOW GP MAN VENT VALVE      |
| Category    | Base Part                                |
| Type        | Vent Valve                               |
|             | <a href="#">Order Online</a>             |
| Part Number | 075SMM22                                 |
| Description | .75" E/M STD FLOW NI MAN VENT VALVE      |
| Category    | Base Part                                |
| Type        | Vent Valve                               |
|             | <a href="#">Order Online</a>             |

Rows 10 ▾

## Product Number



Please sign in to view part numbers available for purchase based on your account

Sign In

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VCS-1(SOV)VOS-1(STO)SWITCH SET

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018429  
VCS-2(SOV)VOS-2(STO)SWITCH SET



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VCS-2(SOV)VOS-2(STO)SWITCH SET

075SMA11  
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