MAX-AIR SOLENOID VALVES

SV SERIES SOLENOID VALVES

Max-Air Technology

www.max-airtechnology.com • Toll Free 1.888.842.9998

FEATURES & BENEFITS

DESCRIPTION

SV series solenoid valve is a complete range of valves designed according to NAMUR VDI/VDE 3845 and made of epoxy coated anodized aluminum. Each solenoid valve is field interchangeable for use on either double acting 4-Way or spring return 3-Way actuators and is available in single coil, dual coil, or 3-position configuration (open centers, closed centers, or center in pressure).

MANUAL OVERRIDE

Each SV solenoid valve comes standard with a lockable manual override. This is an important feature because it allows the solenoid valve to be used manually in case of electrical failure, or for quick cycle testing.

Manual Override

STANDARD CONFIGURATION

The Max-Air SV series solenoid valve features an anodized aluminum spool, easy to use manual override, and comes standard as 4-Way (Double Acting) with an optional adapter plate for 3-Way (Spring Return) field conversion.

NAMUR MOUNTING

Each SV series NAMUR mount solenoid valve is available in a single coil version (SV61 or SV63), dual coil (SV62), open centers (S36A), and closed centers (S36C).

HAZARDOUS LOCATION OPTIONS

The SV series NAMUR mount is available in various explosion proof configurations for hazardous locations. There are single coil and dual coil options available.

C SP® US

Ask about the certifications available. Call our sales team at 888-842-9998 for more details.

AIR INLET/EXHAUST PORT CONNECTIONS

All SV solenoid valves comes with ¼" NPT air inlet and exhaust connections. This standard connection allows for ease in connecting all airlines and retrofitting each solenoid valve with the proper speed control or muffler.

AIR SERVICE

Max-Air solenoid valves can be used with lubricated or non-lubricated air. It is recommended that the Max-Air **MAFRL1N14** filter regulator be used to keep the air quality clean which will extend the life of the solenoid valve.


3-Way
Conversion Kit

THE BEST WAY TO AUTOMATE YOUR PROCESS

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SV61 & SV63 ORDINARY LOCATIONS

DESCRIPTION

The SV61 and SV63 solenoid valves are a compact IP65 rated NAMUR mount solenoid valve that is light-weight and easy to use. This light-weight, compact solenoid offers a standard manual override and comes as a standard 4-Way with easy conversion to a 3-Way for spring return (single-acting) applications.

TECHNICAL DATA

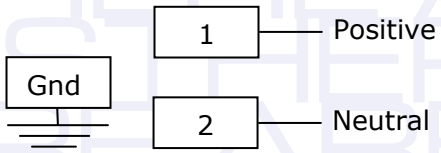
Maximum Pressure	0-120 PSI
Area Protection	IP65
Standard Seals	BUNA-N (VITON® Optional)
Temperature Range	STD BUNA-N -4°F to 158°F VITON® 0°F to 250°F/300°F cyclic
Coil	Class F 100% Extended Duty (Class H Optional)
Cv	1.1

COIL ELECTRICAL RATING

Voltage	Maximum Watts	Tolerance
120 VAC	6.9W	±10%
24 VDC	6.9W	±10%
12VDC/24VAC	6.9W	±10%
230 VAC/125 VDC	6.9W	±10%

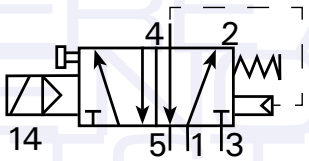
*Other voltages available, please call for details

WIRING DIAGRAM

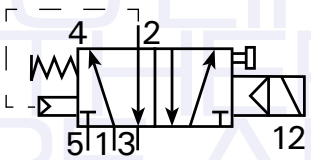


The above wiring diagram is the same for all the voltages

LEFT PILOT SV61



RIGHT PILOT SV63



MATERIALS

Item	Material
Body	Powder Epoxy Coated Extruded Aluminum
Spool	Anodized Aluminum
Spring	Stainless Steel
O Ring	BUNA-N (VITON® Optional)
DIN Connector	Technopolymer

SV71 & SV73 INTRINSICALLY SAFE

DESCRIPTION

The SV71 and SV73 solenoid valves are a compact, light-weight solenoid that can be used in intrinsically safe applications. It is important to note that a proper safety barrier needs to be used in conjunction with the solenoid valve. Solenoids come standard with both 3-Way and 4-Way field conversion kits.

Compatible barriers to use are Pepperl & Fuchs KFD2-SL2-Ex2 and KFD2-SD-Ex 1.36.

TECHNICAL DATA

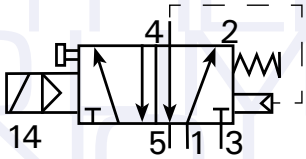
Maximum Pressure	0-120 PSI
Area Protection	Intrinsically Safe
Standard Seals	BUNA-N (VITON® Optional)
Temperature Range	STD BUNA-N -4°F to 158°F VITON® 0°F to 250°F/300°F cyclic
Coil	Class F 100% Extended Duty
Cv	1.1

COIL ELECTRICAL RATING

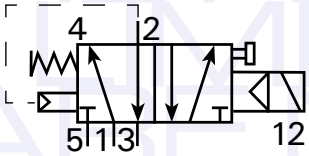
Voltage	A	Max	I≤	P≤
24 VDC	0.05A	28VDC	115mA	1.6W

Ask about the certifications available. Call our sales team at 888-842-9998 for more details.

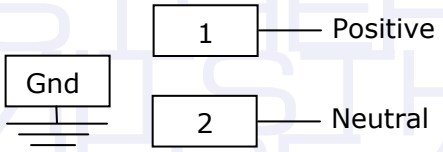
LEFT PILOT SV71



RIGHT PILOT SV73



WIRING DIAGRAM



AREA CLASSIFICATIONS

Class	Group
I	A, B, C, D
II	E, F, G
III	Division 1

MATERIALS

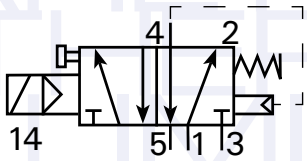
Item	Material
Body	Powder Epoxy Coated Extruded Aluminum
Spool	Anodized Aluminum
Spring	Stainless Steel
O Ring	BUNA-N (VITON® Optional)
DIN Connector	Technopolymer

SV91 & SV93 EXPLOSION PROOF

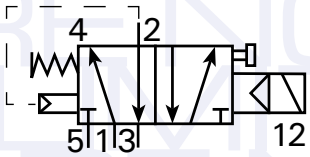
DESCRIPTION

The SV91 and SV93 solenoid valves are a compact, light-weight solenoid that can be used in explosion proof applications. These solenoids come standard with Class H coils and both 3-Way and 4-Way field conversion kits.

LEFT PILOT SV91



RIGHT PILOT SV93



AREA CLASSIFICATIONS

Class	Group
I	A, B, C, D
II	E, F, G
III	–
Ex m II T4 & Div. I	

TECHNICAL DATA

Maximum Pressure	0-120 PSI
Area Protection	Explosion Proof
Standard Seals	BUNA-N (VITON® Optional)
Temperature Range	STD BUNA-N -4°F to 158°F VITON® 0°F to 250°F/300°F cyclic
Coil	Class H 100% Extended Duty
Cv	1.1

COIL ELECTRICAL RATING

Voltage	Hz	In Rush	Holding	Tolerance
110 VAC	50	12.5VA	7.5VA	±10%
120 VAC	60	11.5VA	6.5VA	±10%
24 VDC	–	4.5W		±10%

C SP® US

MATERIALS

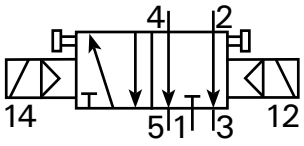
Item	Material
Body	Powder Epoxy Coated Extruded Aluminum
Spool	Anodized Aluminum
Spring	Stainless Steel
O Ring	BUNA-N (VITON® Optional)

DUAL PILOT

The SV62 NAMUR mount solenoid valve is a cost effective dual coil solenoid valve. These solenoid valves are offered as dual coil IP65 (SV62), dual coil explosion proof (SV92), and dual coil intrinsically safe (SV72).

Intrinsically Safe

Ordinary Locations



Explosion Proof

Dual Coil Solenoid Valves for Special Applications

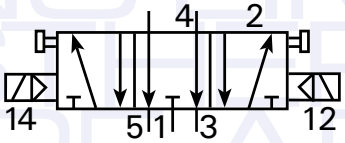
OPEN CENTERS

The S36A open centers solenoid valve is a specially designed solenoid valve made for double acting actuators in three position applications.

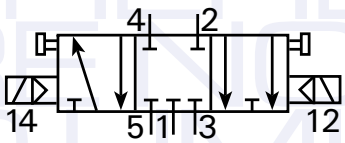
CLOSED CENTERS

The S36C closed centers solenoid valve is a specially designed solenoid valve made for spring return actuators in three position applications. During the mid position, the air is trapped inside the solenoid valve, keeping the springs from decompressing and keeping the actuator open or in a semi-open position.

S36A



S36C



OPTIONS

LIGHTED DIN CONNECTORS

Lighted DIN connectors offer clear housings, two poles with ground, ½" NPT or PG9 conduit connections. These DIN connectors allow for easy verification if the solenoid coil is energized or de-energized. Each lighted DIN connector is available with flying leads which allow for easy wiring.

BLACK MOLDED DIN CONNECTOR WITH FLYING LEADS

Our black molded DIN connectors with flying leads offer easy wiring for quick assembly. These are rugged by design and come with a BUNA-N gasket making them IP65 rated.

*Various lengths offered

IP67 WATERTIGHT KIT

Max-Air Technology offers a seal kit that when used, increases the IP rating from IP65 to IP67. This is useful where solenoid valves are exposed to excessive water conditions. The kit consists of a thermoset encapsulated coil, three o-rings, side exhaust coil nut, and a molded black DIN connector with a 36" lead.

CLASS H COILS

Class H Coils are offered for the SV61/63 solenoid valves. These offer an elevated maximum temperature for the coil for high temperature applications. The class H coil accommodates temperatures to 140°F.

SPEED CONTROLS

Max-Air offers NPT brass and stainless steel speed control mufflers for solenoid valves. These are needed for exhaust ports on solenoid valves to control the opening and closing speed of the valve assembly.

PNEUMATIC PILOT VALVES

Single

Dual

MUFFLERS

Max-Air offers NPT brass and stainless steel mufflers for solenoid valves. These are needed to help reduce the noise of exhausting air when a solenoid valve actuates. These can also be installed in the exhaust port of an actuator for spring return applications.

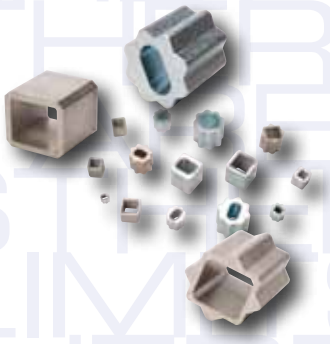
FLOW CONTROL PLATES

Max-Air Technology

The Best Way to Automate Your Process

Did you know that we provide the following services?

- 2D and 3D CAD Assembly Drawings
- Trained Technical Support Services
- On–site Commissioning Services
- Engineering System Design Services



Your nearest Max-Air dealer can be found at:

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