



SC911 A1-A5 (AC/DC)

-Service and Installation -

10/27/2023 Rev.0

DESCRIPTION

The SC911 Series Solenoid Valves are 2-way, normally closed, direct acting, general purpose valves. All stainless steel or brass bodies with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases. Valves may be mounted in any position. A spring-loaded plunger assures positive shutoff.

OPERATION

SC911 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS

Use SC911 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (max. psi, voltage, cycle, max. media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient	Elastomer	Fluid (EPR)
32° - 125° F	C - EPR	32° - 295° F
32° - 125° F	N - Nitrile	32° - 180° F
32° - 125° F	V - FKM	32° - 230° F
32° - 125° F	T - PTFE	32° - 366° F

For other applications, consult the factory.

INSTALLATION

Check valve specifications to make sure of proper application.

1. Clear all lines of foreign matter.
2. Valves are multipoised and may be mounted in any position. Media flow must be in the direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT

Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2, and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity of parts. Incorrect reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

CLEANING

Cleaning fluid must be compatible with all valve components.

It is recommended that SC911 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine valve life. Apply correct voltage, if excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

PARTS

The charts that follow cover replaceable coil part numbers and Rebuild kits for most SC911 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number, and consult the factory.

REBUILD KIT

The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, and O-rings.

Note – The below kits may be used on valves with metering (F) or without metering.

REBUILD KIT CHART

Valve	Rebuild Kits	Repair Kits
SC911YN__CB__(F)	KSC9102CBA5	-
SC911YN__CE__	KSC9102CBA5	-
SC911YN__CF__	KSC9102CDA5	-
SC911YN__CD__(F)	KSC9102CDA5	-
SC911YN__CR__(F)	KSC9102CBA5	-
SC911YN__CS__(F)	KSC9102CDA5	-
SC911YN__NB__(F)	KSC9102NBA5	-
SC911YN__NE__	KSC9102NBA5	-
SC911YN__NF__	KSC9102NDA5	-
SC911YN__ND__(F)	KSC9102NDA5	-
SC911YN__NR__(F)	KSC9102NBA5	-
SC911YN__NS__(F)	KSC9102NDA5	-
SC911YN__TB__(F)	KSC9102TBA5	-
SC911YN__TE__	KSC9102TBA5	-
SC911YN__TF__	KSC9102TDA5	-
SC911YN__TD__(F)	KSC9102TDA5	-
SC911YN__TR__(F)	KSC9102TBA5	-
SC911YN__TS__(F)	KSC9102TDA5	-
SC911YN__VB__(F)	KSC9102VBA5	-
SC911YN__VE__	KSC9102VBA5	-
SC911YN__VF__	KSC9102VDA5	-
SC911YN__VD__(F)	KSC9102VDA5	-
SC911YN__VR__(F)	KSC9102VBA5	-
SC911YN__VS__(F)	KSC9102VDA5	-

COIL CHART

Valve	Voltage	DIN Coil	Lead Wire
SC911YN02_____	120V 50/60	C944	C944L
SC911YN24_____	24V 50/60	C987	C987L
SC911YN15_____	12 VDC 4W	C999	C999L
SC911YN44_____	24 VDC 4W	C926	C926L

DISASSEMBLY AND REBUILD KIT INSTALLATION

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If the valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, the complete valve must be replaced by a trained and experienced service person.

1. Unscrew the top nut (1).
2. Lift off the coil (2) from the plunger tube.
3. Do not damage the solenoid assembly.
5. Use 13mm deep socket or similar tool to remove plunger tube (3). Do not nick dent or damage plunger tube (3) or valve seating surfaces.
6. Hold plunger tube (3) in position when removing from valve body (6) to prevent loss of internal parts.
7. Carefully remove the plunger/spring/seat disc assembly (5).
8. Check seating surfaces on the seat disc (5) and valve body (6) for damage or wear.
9. Replace plunger/spring/seat disc assembly (5) and other parts as necessary. Consult the "REBUILD & REPAIR KIT CHART" for the correct kit part number.
10. Re-assemble in reverse order from above taking care to properly install the plunger (5) and plunger tube (3).
11. Tighten plunger tube (3) to 25 In/Lbs.
12. Replace coil (2) and top nut (1). Tighten to approximately 15 In/Lbs.
12. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If the valve fails to open, check the voltage against the rating on the nameplate, check the voltage at solenoid lead connections, and check the control circuit and solenoid coil for burnout. If the valve fails to close, check the condition of the synthetic seat disc. Check for a damaged spring. The valve must be free of dirt to ensure tight shutoff. If dirt is a problem, install a fine mesh strainer to ensure proper closing and trouble-free operation.

Buzzing or chattering can be caused by low voltage, dirt, or chips between the top of the plunger and the tube head. Check voltage, clean operator assembly, and valve body assembly.

