
116950 e-ChemSaver® ES Valve Maintenance Instruction

Ver. 1

The 116950 e-ChemSaver® ES Valve is a solenoid-actuated shutoff compatible with a wide range of TeeJet® nozzle bodies equipped with a diaphragm check valve. It can be used for end-of-boom nozzles as well as individual tip shutoff control.

The valve is normally closed and opens when the solenoid is energized. The 116950 has a 2-Pin Superseal 1.5 connector molded into the body for a clean, weather-tight electrical connection.

Application Note(s): Rinse system with clean water after each application. 80 mesh strainer screen or finer is recommended with all e-ChemSaver® ES Valve applications.

General Disassembly and Reassembly

- 1) Unscrew the valve assembly from the nozzle body by rotating the interface cap/locking ring (Item 2) counterclockwise until the assembly separates.
- 2) Remove FKM gasket (1).
- 3) Loosen and remove the nylon interface cap/locking ring (2) from the coil assembly (3-7) by compressing the interface cap/locking ring against the coil assembly and turning counterclockwise until separated.

All repairable parts should be accessible at this point. The installation spring (3), plunger sub-assembly (4), stainless steel spring (5), and o-ring (6) can be replaced without further disassembly.

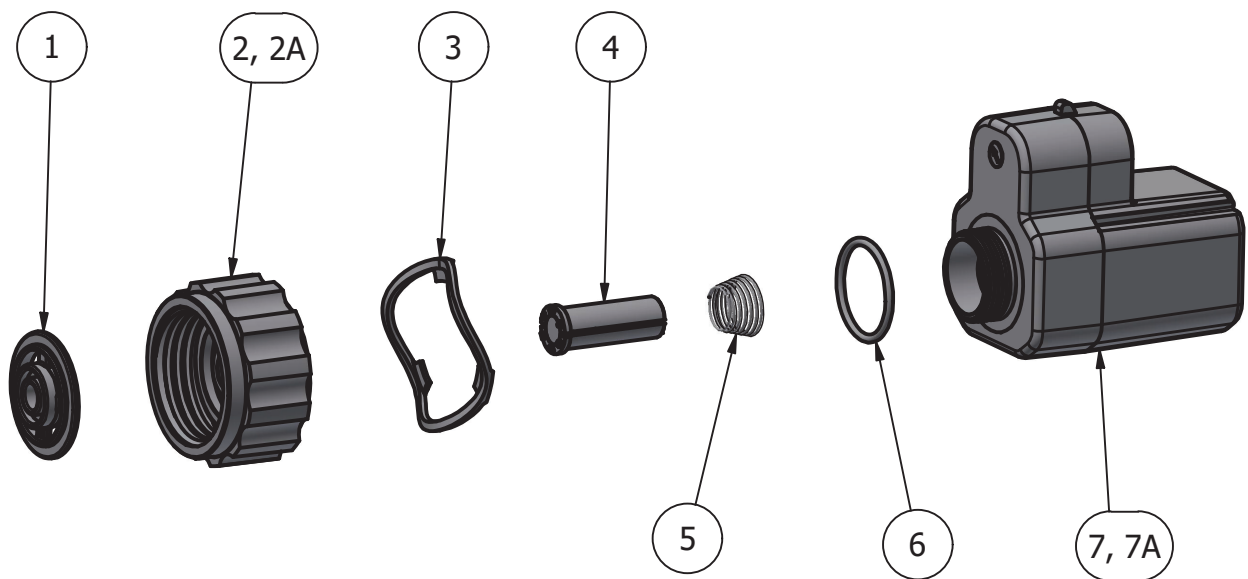
- 4) During reassembly, please ensure that the o-ring (6) is pressed down to the outside base of the threads on the coil assembly(7/7A) to avoid damaging the o-ring when reassembling. Then, place the stainless steel spring (5), and plunger sub-assembly (4) in the coil assembly (7/7A).

Note: The conical shaped stainless steel spring (5) should be oriented with the wider end resting in the groove of the coil assembly (7/7A) and the narrower end facing outward (visible). Then, place the plunger sub-assembly (4) with the black insert facing outward (visible) and insert it into the narrower end of the spring (5) when placed in the coil assembly (7/7A). Then place the installation spring (3) onto base of coil assembly so that the three tabs lay flat on the base of the coil assembly.

- 5) Tighten the nylon interface cap/locking ring (2) from the coil assembly (3-7) by compressing the interface cap/locking ring against the coil assembly and turning clockwise until tight. Then place gasket (1) into interface cap and locking ring sub assembly.

Torque Specifications: Tighten interface cap/locking ring (2) & coil assembly (3-7) to 12 in-lbs (1.36 N-m)

- 6) **Recommended:** At the time of installation, spray a sufficient quantity of corrosion prevention (CorrosionX®, CorrosionX® Heavy Duty, or CorrosionX® Aviation) compound into the connector to wet the terminals prior to plugging the connector in.



*TABS OF WAVE SPRING (ITEM 3) FACE COIL

ITEM	PART NUMBER	DESCRIPTION
1	CP116247-VI-10X	GASKET, FKM (10-PACK)
2	116961	INTERFACE CAP & LOCKING RING SUB-ASSEMBLY
2A	116961-7	INTERFACE CAP & LOCKING RING SUB-ASSEMBLY (ARAG BODIES)
3	CP116963-CE	INSTALLATION SPRING, CELCON-BLACK
4	116956	PLUNGER SUB-ASSEMBLY
5	CP116960-SS	SPRING, STAINLESS STEEL
6	CP7717-M17X1.5-VI-10X	O-RING, FKM (10-PACK)
7	116951-12	COIL ASSEMBLY, 12V
7A	116951-24	COIL ASSEMBLY, 24V

SPARE KITS

AB116950-1-12-KIT, 12V COIL KIT (INCLUDES ITEMS 6 AND 7)
AB116950-1-24-KIT, 24V COIL KIT (INCLUDES ITEMS 6 AND 7A)
AB116950-2-KIT, SPARE PARTS KIT (INCLUDES ITEMS 4 AND 5)
AB116950-3-KIT, SPARE PARTS KIT (INCLUDES ITEMS 2 AND 3)
AB116950-4-KIT, SPARE PARTS KIT (INCLUDES ITEMS 2, 3, 4, 5, AND 6)

DESCRIPTION:

TEEJET® e-CHEMSAVER ES
SOLENOID OPERATED
ELECTRIC SHUTOFF VALVE



REVISION NO.

1

REFERENCE:

9/1/21

Parts List No.

PL116950

SHEET:

1 OF 1

DWG SIZE:

A