

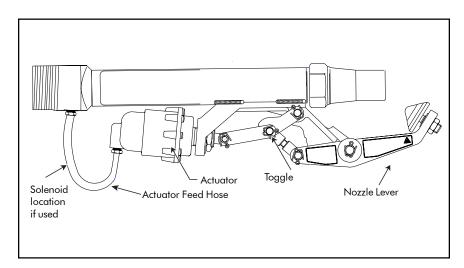
# **PURGE VALVE**

### PURGE VALVE OPERATION AND ADJUSTMENT INSTRUCTIONS

#### **SET UP FOR OPERATION:**

- 1. Install 100T taper bore nozzle or 100R ring nozzle. The Purge Valve is not designed to operate with the 100TR taper ring nozzle. If using the ring nozzle set, install desired ring size in the ring nozzle cap. The ring nozzle cap can be sufficiently tightened by hand.

  NOTE: If the 100R is used, it is supplied with the ring cap, part number 7872. If any other cap is used, the purge valve will not completely close.
- To install the Purge Valve, orient the accuator so the solenoid or hose is located on the bottom of the valve. There is a drain port that must be orientated down to drain.
- 3. The Purge Valve is normally closed.
- 4. If installing the Purge Valve (with solenoid), connect the solenoid wires to the proper voltage source. Energizing the solenoid with the proper voltage results in the valve opening. If installing the Purge Valve hydraulically controlled (without solenoid), connect the actuator feed hose to the upstream port. Application of hydraulic pressure to the actuator causes the nozzle valve to close. If actuator control pressure (line pressure) is approximately 20 psi or below,



low pressure SRNV closure kit, part number 9924, is recommended to provide reliable operation.

5. Be sure the entire control system is operating properly and that the hydraulic fittings are securely installed. Failure to do so could prevent the Purge Valve from closing, possibly causing personal injury or property damage. Observe an entire opening-closing-opening cycle for proper operation.

#### **WARNING!**

- 1. Read operating instructions before operating sprinkler or making any adjustments.
- 2. Never make adjustments or perform service while sprinkler is in operation.
- 3. Stand clear of high velocity water stream.
- 4. Never direct water stream onto roadway or electrical transmission lines.
- 5. Stay clear of nozzle valve linkage during operation. High clamping forces exist.
- 6. Stand clear of sprinkler during operation. Abrupt water spray exists during opening and closing of valve.
- 7. To avoid injury or damage, check for proper operation of control system before using nozzle valve.

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## **PURGE VALVE ADJUSTMENT**

item	part number 8506	description Nut, 7/16-14 UNC	qty. 1
2	8469	Valve Seat Assembly	1
3	8510	Nozzle Lever Assembly	1
4	6124	Cotter Pin, 3/32" x 3/4"	8
5	7263	Pivot Pin	1
6	6110	Flat Washer	AR
7	6110-001	Flat Washer (Thick)	AR
8	7264	Lower Toggle Pin	1
9	7265	Upper Toggle Pin	1
10	7719	Linkage Assembly	1
11	7297	Actuator Pin	1
12	7296	Jam Nut	1
13	7797	Washer	1
14	7276	Actuator Assembly	1

**PROBLEM:** Nozzle stopper (valve seat) continues to leak when closed.

**SOLUTION:** 1. Adjust valve seat to assure even contact on nozzle seal surface.

- a. Disconnect actuator pin (11)
- b. Loosen the valve seat locking nut (1).
- c. Rotate lever assembly (3) to closed position and hold valve seat (2) lightly against nozzle seal surface. Adjust valve seat (2) by rotating the stopper in or out as required to achieve full contact with the nozzle seal surface.
- d. Tighten the locking nut (1).
- 2. Adjust linkage to assure adequate closure force.
  - a. Adjust linkage assembly at 'A' so that 12-15 pounds force is required to push link 'B' against closure stop (disconnect and reconnect lower toggle pin (8) during adjustment as required to check closure).
  - b. Reconnect actuator pin (11).

## PROBLEM: Nozzle stopper won't clear stream when open.

**SOLUTION:** Adjust actuator position to assure complete opening.

- a. Loosen jam nut (12)
- b. Hold nozzle lever (3) in the fully open rest position.
- c. Rotate actuator assembly (14) toward main elbow until rest buttons contact and all play is removed from the linkage. Rotate further as needed until drain hole and hose fitting port are oriented to the bottom.
- d. Tighten jam nut (12).

