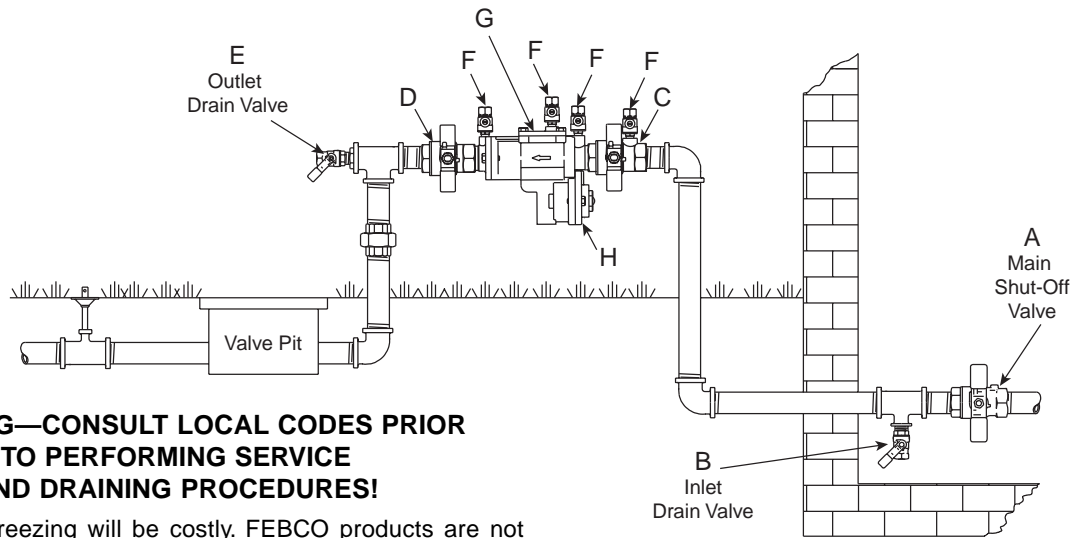


FREEZE PROTECTION MODEL 850/860/880 (1½"-2")



Draining Procedure for Freeze Protection



WARNING—CONSULT LOCAL CODES PRIOR TO PERFORMING SERVICE AND DRAINING PROCEDURES!

Damage from freezing will be costly. FEBCO products are not warranted against freeze damage. The following instructions will protect against freezing of reduced pressure principle devices.

FREEZE PROTECTION GUIDELINES

Backflow prevention assemblies must be protected against freezing for the winter in areas where freezing temperatures may occur. If the water inside the assembly freezes, damage to the assembly and the system may occur. Proper draining, insulation using heat tape and heated protective enclosures are all acceptable methods of freeze protection. In areas where freezing temperatures occur the 850U, 860U and 880U with union end ball valves might be considered. The union end ball valve allows the body of the device to be removed.

When draining an assembly to prevent freezing, several important points must be remembered:

1. The assembly cannot be adequately drained through the testcocks. For proper draining follow the instructions detailed in the Drain Procedure section below.
2. Drain valves must be added on the inlet and outlet sides of the assembly, below the assembly (and preferably below the freeze line if the remainder of the system is to be drained).

DRAIN PROCEDURE

1. Close the main shut-off valve (A).
2. Open the inlet drain (B).
3. Open the inlet and outlet ball valves (C & D) 45° degrees (half open, half closed).
4. Open all testcocks (F)
5. Open the outlet drain (E).
6. Remove the cover (G) and inlet check module until all water inside valve drains back out through inlet drain.
7. If you "blowout" the piping downstream of the backflow assembly using compressed air:
 - Connect the air supply to the outlet drain (E) and close the outlet ball valve (D).
 - After clearing the system with air, partially open the outlet ball valve (D).
 - Leave all drain valves (E & B), testcocks (F) and ball valves (C & D) in a half open, half closed position for the winter. (See the reverse side for more detailed instructions.)
 - Make sure the main shut-off valve (A) remains closed and does not leak.
8. (RP UNITS ONLY) Loosen the relief valve cover (H) to drain. Tighten when draining is complete.

SPRING "START-UP" PROCEDURE

When there is no more chance of freeze damage:

1. Close all drain valves (E & B), testcocks (F) and ball valves (C & D).
2. Retighten the relief valve cover (H), then slowly open the main shut off valve (A) and the inlet ball valve (C).
3. Slightly open, then close, all testcocks (F) one at a time to empty air from the device.
4. Slowly open the outlet ball valve (D) and refill the system.