FLOMATIC

Model CB152SST 1"

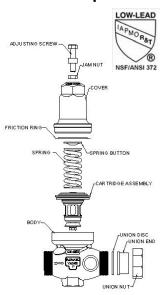
Flomatic Corporation

NOTICE: Annual inspection and maintenance is required of all plumbing system components. To ensure proper performance and maximum life, this product must be subject to regular inspection, testing and cleaning.

Regulators in series: Where the desired pressure reduction is more then a 3 to 1 ratio (i.e., 150psi to 50psi), multiple regulators in series should be installed. DIAPHRAGM WARNING: Loosen jamb nut and adjustment screw slowly. Look for any trapped water pressure under the diaphragm. Relieve pressure before removing cover.

CAUTION: Anytime a reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. To properly adjust the downstream pressure there needs to be flow through the valve in the direction of the flow arrow on the body. Do not bottom out adjustment screw on cover. Valve may be installed in any position.

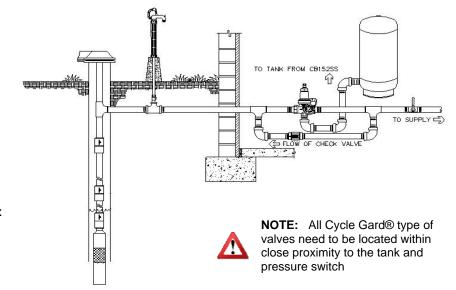
NOTE: Motor manufacturers recommend using a flow sleeve to be sure the motor is properly cooled at low flows rates. Do not exceed 125 psi pressure differential across the valve.



INSTALLATION INSTRUCTIONS:

- 1. Before installing reducing valve, flush out line to remove loose dirt and scale which might damage disc and seat and turn power off. Install valve in line with arrow on valve body pointing in direction of flow. If the valve is equipped with (2) union ends if only one is required, install the union end on the downstream side regulated pressure side of valve.
- 2. Install the valve downstream of the pump and before the pressure switch and tank.

 Note: If there are any water outlets such as yard hydrant of supply between the pump and Cycle Gard ® IV install a bypass with a check valve around the valve. Warning-This pressure will be unregulated pressure. Not recommended for high capacity and pressure pumps. The check valve shall be installed with flow going in the opposite direction of the Cycle Gard® IV. This allows for free flow around the Cycle Gard® IV unit to provide tank pressure to the yard hydrant or outlet (see illustration).
- Pre-charge pressure in the tank should be
 PSI lower than pressure switch turn on pressure. All valves are factory pre set to 50
 PSI. To re-adjust reduced pressure loosen



outer jam nut and turn adjustment screw clockwise (into cover) to increase downstream pressure, or turn counterclockwise (out of cover) to lower downstream pressure. Valve may be installed in the horizontal or vertical position. Open a line downstream and allow the pump to turn on, then slowly close supply valve downstream until demand is roughly around 2 to 3 GPM. Then adjust the valve until the downstream pressure is constant, at about 10 PSI lower than the cut off pressure of the pressure switch setting. Close off downstream valve and the pressure tank will fill up at about 1 GPM at 50 PSI differential, 1.5 GPM at 100 PSI differential.

Note: In systems using a small tank with 5 gallons or less of drawdown, adjust the regulated downstream valve pressure to the same as the cut in (pump on) pressure setting of the pressure switch. For example if your system is using a 40/60 pressure switch setting set your regulated downstream valve pressure at 40 PSI. For longer run times set your regulated pressure closer to the cut on (pump on) pressure setting on the pressure switch.

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General Trouble Shooting

Pipe lines in a water supply system must be of sufficient carrying capacity to maintain adequate pressure at the most remote or highest fixture. Under the maximum probable fixture use, minimum adequate pressure is generally 8 to 15 lbs., but may be more, depending on the equipment being supplied.

Valve requires laminar flow, must be installed 5 diameters downstream from any obstructions like elbows, pumps etc. Relatively high service pressures which can create high water velocities in pipe lines would allow use of smaller pipes to satisfy fixture use. However, high velocities tend to cause whistling and humming. Reductions of pressure by the use of a pressure reducing valve, in an attempt to eliminate the undesirable condition, may reduce pipe line capacities below what is adequate for maximum probable use.

When high service pressures are in effect, either continuously or periodically, the application of a pressure reducing valve will be successful only when the installed pipe line is of adequate size to satisfy the system demand at the lower pressure. When actual water demands are unknown, the valve size should be no less than the existing pipe size.

PROBLEM	POSSIBLE CAUSE OR CAUSES
1. Pressure and fixture flow unsteady.	A. Low water supply pressure in main supply line caused possibly by inadequate pump pressure.
0011171011	B. Heavy periodic demands by appliances in the house.
SOLUTION:	
A. Pump my need to be serviced.	
B. Alternate appliance usage to reduce over usage.	
C. Increase pressure.	
D. House service lines may at times be inadequate for the load.	Size of some pipes may need to be increased.
PROBLEM	POSSIBLE CAUSE OR CAUSES
2. Pump continues to cycle on and off	A. Pressure switch may not be set correctly.
	B. Valve regulated pressure is set to close to the shut off
	pressure of the pressure switch.
	C. Sealing disc in valve is wore or damaged.
	D. Damaged or torn diaphragm in valve.
	E. Water tank has become waterlogged.
	L. Water tank has become waterlogged.

- A. Readjust pressure switch setting higher than the regulated set pressure.
- B. Readjust the regulated pressure setting on the valve to the cut in pressure of the pressure switch setting. For example 40/60 switch set the valve at 40 psi
- C. Replace sealing disc in valve.
- D. Replace diaphragm in valve.

E. Recharge tank or replace.	
PROBLEM	POSSIBLE CAUSE OR CAUSES
3. Valve appear to be noisy, hums, whistles or chatters	A. High velocity of flow in pipelines causing vibration due to excessive pressure drop across valve.
	B. Chatter usually originates with worn small washer or
	loosely installed disc. C. Air pressure in tank is set too high.
COLUTION	C. All pressure in tank is set too high.

SOLUTION:

- A. Use a second valve to reduce the differential pressure to the original valve.
- B. Replace the small washer and sealing disc.
- C. Reset the air pressure in the tank to 6-10 psi below the cut in (pump on) pressure setting on the pressure switch.
- D. Make sure there is at least 5 diameters of straight pipe upstream.

Limited Three Year Warranty: Flomatic Cycle-Gards® are guaranteed against defects of material or workmanship when used for the services recommended. If, in any recommended service a defect develops due to material or workmanship, and the regulator is returned, freight prepaid, to us within 36 months from date of shipment from our factory, it will be repaired or replaced free of charge. The Flomatic Corporation liability shall be limited to our agreement to repair or replacement of regulator only. The Flomatic regulator described in this Bulletin is suitable for water service only.

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