**Flow Controller** **Installation Instructions**

Model FC4 ⅜”

**Flomatic Corporation**

**Description:**

The FC4 Flow Control Valve is an all stainless steel spring-loaded needle type check valve. The flow rate is unrestricted flow in one direction and restricted or metered flow in the other. The flow rate is only adjustable in the metered direction. It is to be used with automatic control valve pilot control systems.

**Operation:**

The FC4 Flow Control Valve restricts flow in the direction of the body marking arrow and permits full flow in the reverse direction. Flow from inlet to outlet lifts the seat disc off of the seat thus allowing full flow. Flow in the opposite direction causes the seat disc to seal, allowing fluid to pass thru the adjustable opening between the needle and seat disc. Adjusting the needle counterclockwise increases the opening between the needle and the seat allowing more flow. Adjusting the needle clockwise decreases the opening between the needle and the seat reducing flow.

**Installation:**

***Installation must be performed by qualified, licensed personnel only.***

The FC4 Flow Control Valve should be installed as shown in the piping schematic that came with your control valve. Make sure all connections are tight to prevent leakage or damage to your valve.

**Adjustment Procedure:**

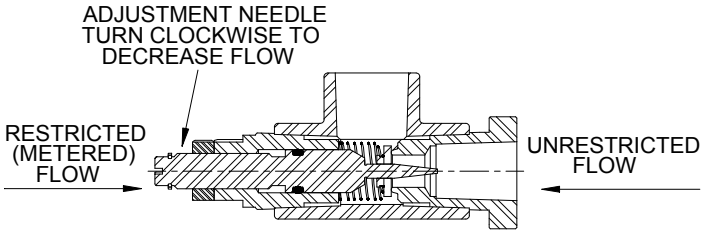
Loosen the adjustment needle jamb nut. Turning the needle out (counter-clockwise) increases the opening between the needle and the seat disc, which increases the flow. Turning the needle in (clockwise) reduces the opening between the needle and the seat disc, which reduces the flow. After adjustment is complete retighten the adjustment needle jamb nut.

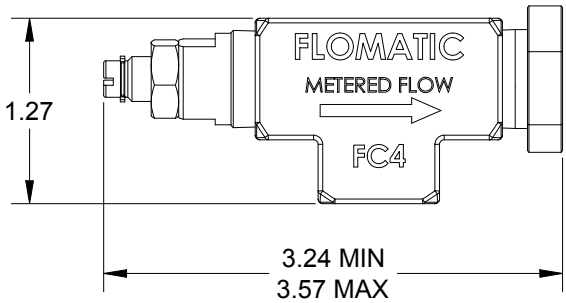
**MAINTENANCE & REPAIR**

Annual inspection and maintenance is required of all plumbing system components. To ensure proper performance and maximum life, the FC4 must be inspected, tested and cleaned on a regular basis. Disassemble the valve according to the exploded diagram. Inspect all threads for signs of damage or cross-threading. Make sure the seat disc and seat of valve body do not show wear, damage or foreign material which can stop the valve from opening or seating correctly. The spring should be checked for cracks, damage or distortion. The adjustment needle should be free from nicks or burs which can stop the valve from opening. Inspect all parts for damage, wear and corrosion. Replace all damaged components and items that appear would keep the valve from functioning correctly. The o-ring should be replaced whenever the FC4 is serviced. Make sure to clean all parts before you reassemble the valve. Re-assemble the valve according to the cross sectional view.

**TEST PROCEDURE**

The FC4 Speed Control Valve does not require testing before being re-installed.

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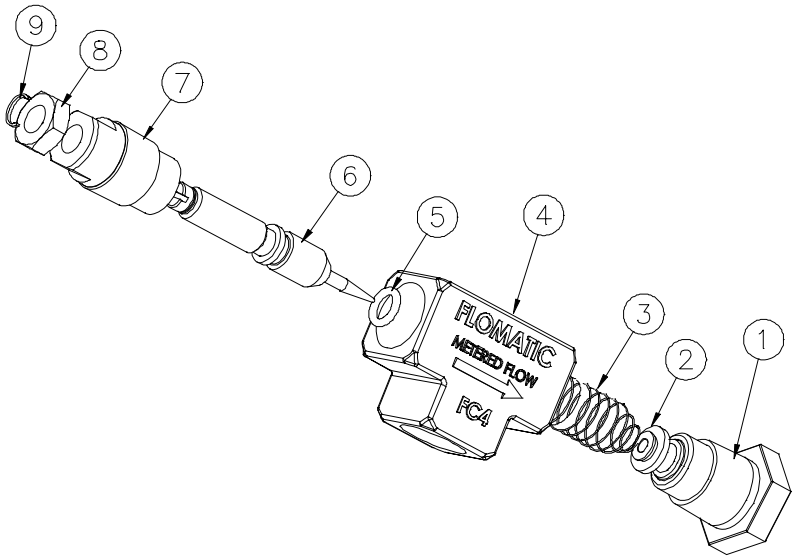


| Item # | Qty | Description | Material | ASTM |
|---|---|---|---|---|
| 1 | 1 | Seat | Stainless Steel | 304 |
| 2 | 1 | Seat Disc | Stainless Steel | 316 |
| 3 | 1 | Spring | Stainless Steel | 302 |
| 4 | 1 | Body | Stainless Steel | 316 |
| 5 | 1 | O'Ring | Buna-n | --------- |
| 6 | 1 | Needle | Stainless Steel | 316 |
| 7 | 1 | Body Needle | Stainless Steel | 316 |
| 8 | 1 | Jam Nut | Stainless Steel | 18-8 |
| 9 | 1 | Shaft Ring | Stainless Steel | 18-8 |

Information needed to order repair parts:

The item number from the bill of materials listed above

**Limited One Year Warranty:** Flomatic valves 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 device is returned, freight prepaid, to Flomatic Corporation within 12 months from date of purchase, it will be repaired or replaced free of charge. Flomatic Corporation’s liability shall be limited to our agreement to repair or replacement of valve only.