



INSTALLATION INSTRUCTIONS

Fast Flow Valve

WATER-TO-SYRUP RATIO ADJUSTMENT

To Check the Ratio:

1. To remove the nozzle turn it to the left and pull down. To Install the separator line up the tabs on the separator with the valve then push up and turn to the right.
2. Tap the valve lever or flow button to fill the separator with syrup.
3. Use the proper ratio cup and draw a sample that fills the water side 3/4 full of water.
4. Always place the ratio cup on a **LEVEL** surface to read it. If levels are equal or within one line of each other, up or down, it's in range and correct. If not, adjustment must be made.

To Adjust the Ratio:

1. Remove the valve cover by pulling down and lifting up the front cover. Unscrew the top cover and lift it up. If you have a cover with a screw on top, unscrew it and lift the cover up.
2. Find the syrup shutoff and turn it left as far as it will go to stop the syrup flow. Using a stopwatch, measure the water flow rate for two (2) seconds in the ratio cup.
3. Place the cup on a **LEVEL** surface to read. Correct flow rate is 4.0-5.0 ounces for sugar products and 3.5-4.0 ounces for diet products and root beer.
4. If the water flow is correct, check it again. If both readings are correct, go to Step 7.
5. If the water flow is not correct, adjust the flow control screw. Turn it to the right to increase, left to decrease. **No More Than 1/4 Turn Each Time.** Tap the valve lever or flow button to flush the separator after each adjustment.
6. When the water flow is correct on two tests in a row, the adjustment is complete.
7. Open the syrup shutoff by turning right as far as it will go.
8. Measure the syrup and water in the ratio cup filling the water side 3/4 full.
9. Always place the ratio cup on a **LEVEL** surface to read it. If levels are equal or within one line of each other, up or down, the ratio is correct.
10. Measure the syrup and water in the ratio cup again. Follow procedures in Steps 8 and 9. If both tests are correct, go to Step 15.
11. If the syrup level is **BELOW** the water level, turn the syrup flow control screw to the right to increase the syrup flow. **No More Than 1/4 Turn Each Time.**
12. If the syrup level is **ABOVE** the water level, turn the syrup flow control screw to the left to decrease the syrup flow. **No More Than 1/4 Turn Each Time.**
13. Tap the valve lever or flow button to flush the separator after each adjustment. Adjust until both levels are within range.
14. Check one more time. If readings are not correct, go back to Step 11.
15. Remove and clean the separator; clean the nozzle assembly and reinstall it.

Valve Replacement:

If replacement of valve becomes necessary, remove the valve cover as above. Rotate the two shutoffs to the closed position, allowing the valve retainer to be lifted up.

Disconnect the black and white power lead.

Remove the valve slowly from the mounting block to relieve pressure.

Reverse procedure to replace valve.

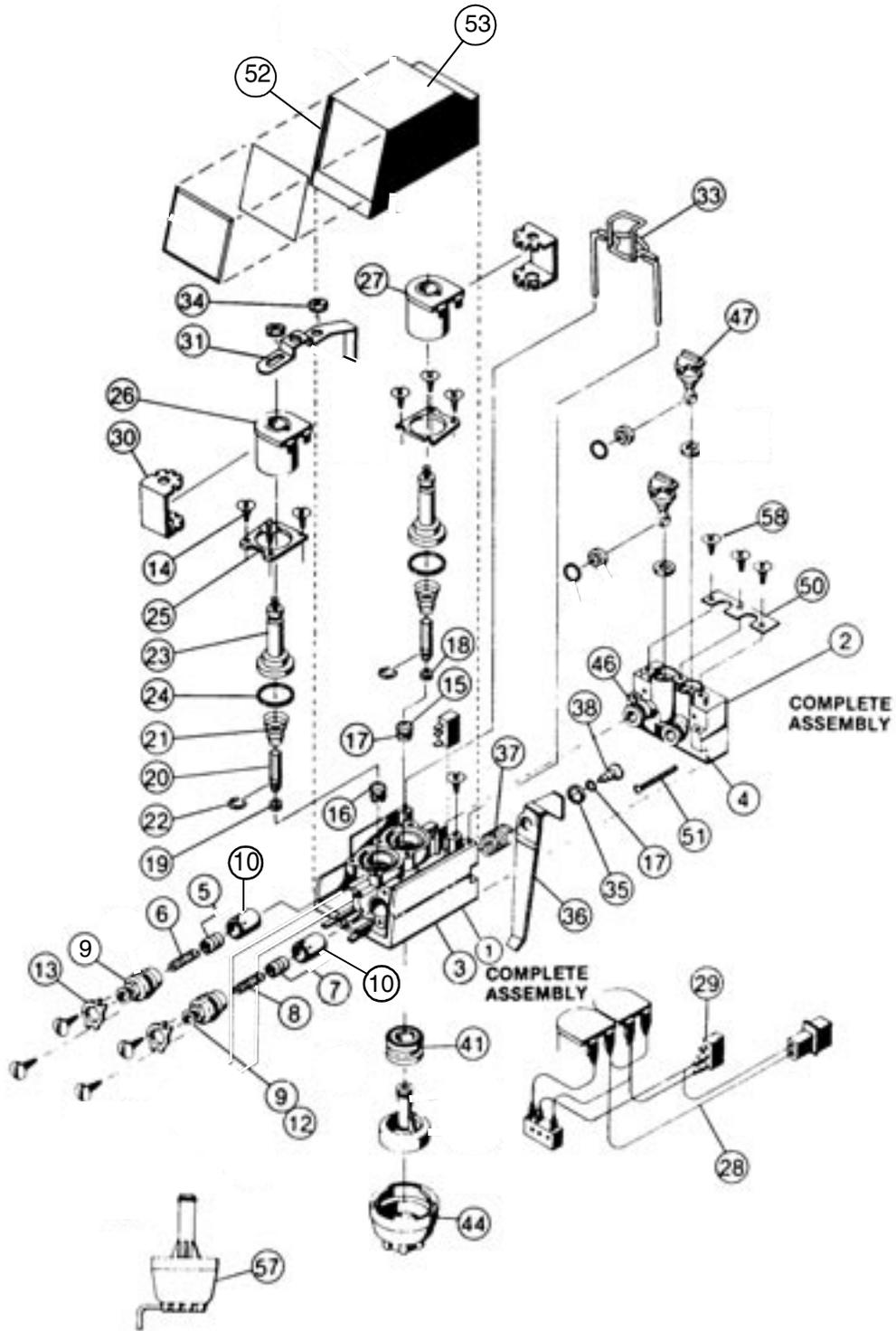


FIGURE 1 Fast Flow Valve

**PARTS LIST**

ITEM	FFV COMPONENT DESCRIPTION	PART NUMBER
1	FFV, Complete	
2	Mounting Block Assy, Complete	48280
3	Valve Body	48269
5	Piston Water	60280002
6	Spring, Water	48258006
7	Piston Syrup	60281002
8	Spring, Syrup	48258005
9	Adjustment Screw & Bonnet	84996001
10	Sleeve	60281001
13	Bonnet FFV Plate	48257001
14	Screw, TC 08-18	49478001
15	Valve Port, Water	71860288
16	Valve Port, Syrup	71860282
17	O-Ring	31525020
18	Seat, Water	18071
19	Seat, Syrup	39816001
20	Armature	71860290
21	Spring, Armature	18367
22	Retainer Ring	71815321
23	Guide Assembly	19695001
24	Gasket, Guide Assembly	620710107
25	Guide Plate	48268
26	Coil (Pink)	12931022
27	Coil (Red)	48520
28 A	Wire Harness, Water Option	21610
28 B	Wire Harness, Without Water Option	83689
29	Switch (Cherry)	18054
30	C Frame	16779
31	Retaining Bracket Assembly (Old Style)	71827290



ITEM	FFV COMPONENT DESCRIPTION	PART NUMBER
31	Retaining Bracket Assembly, Sabre	82464
31	Retaining Bracket (Surefill)	82463002
33	Retainer	49564001
34	Nut Hex 10-32	32181100
35	Washer	71823750
36	Lever, Standard	48264
36	Lever Only, Sure Fill Conversion Kit	83903005 85603
36	Lever, Self-serve	84923002
37	Spring Lever (Surefill)	23746001
37	Spring, Lever	23746000
38	Screw	24232001
41	Diffuser Assembly	71828917
44	Nozzle, Sabre	48265103
46	O-Ring (Mounting Block)	31525005
47	Shutoff	48275
50	Shutoff Retaining Bracket	49006001
51	Screw (Mounting Block)	60003080
52	Front Cover, Sabre	82453001
53	Rear Cover, Sabre	82454
57	Syrup Separator	49796
58	Screw, Self-tapping	71822024

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