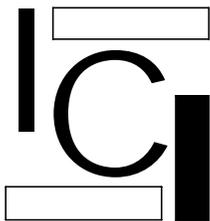
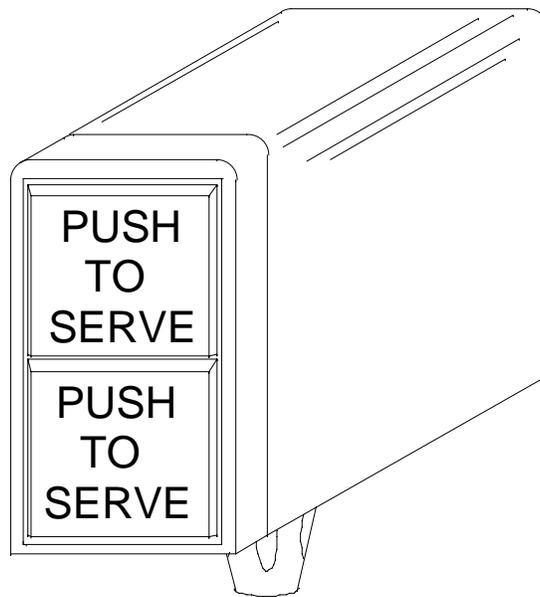


# PF-2-PB

## INSTALLATION AND BRIXING PROCEDURES



INTERNATIONAL CARBONIC INC.

16630 Koala Rd.

Adelanto, California 92301

800 854-1177

**SPECIFICATIONS:**

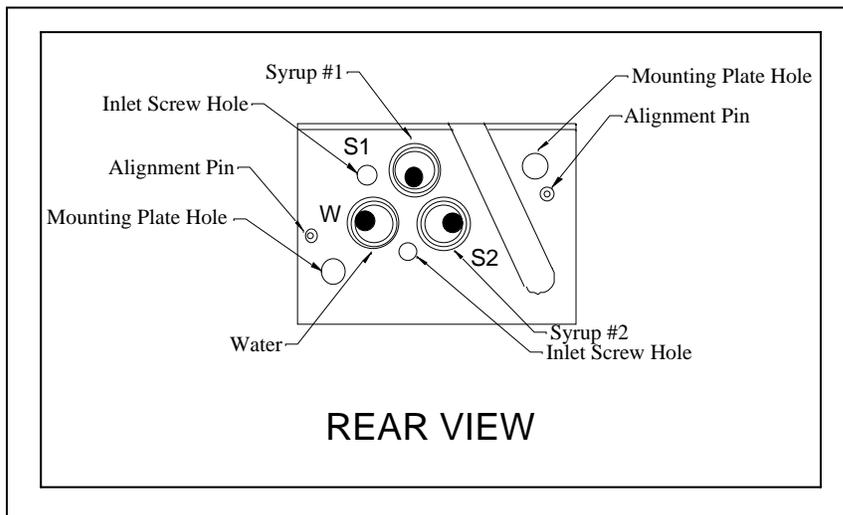
- \* Weight ..... 1 lb 4 ounces
- \* Height ..... 5" with Nozzle
- \* Depth ..... 4"
- \* Width ..... 2 ¼"
- \* Electrical Requirement ..... 24 VAC

Upon receiving valve unpack and inspect for shipping damage. If damage is found, notify shipping agent immediately. At this time, inspect for any missing parts and if parts are missing notify factory.

The PF-2-PB has been designed to fit in place of any existing FT, FT-II, PF or PFC-II valve. On International Carbonic Inc. equipment no modification of existing valve plates will be necessary. If valve is to be mounted on other than International Carbonic Inc. equipment notify factory for required template.

**TO CONVERT AN EXISTING SINGLE FLAVOR UNIT TO A TWO FLAVOR VALVE:**

1. Shut off CO2, and water, then disconnect syrup from valve to be converted.
2. Disconnect electrical supply to unit to be modified, either at electrical outlet or valve key switch.
3. Install additional syrup cooling coil in the water bath system or plumb into extra syrup cooling pass on cold plate systems to obtain necessary cooling. Note: In some juice applications cooling the syrup will not be necessary.

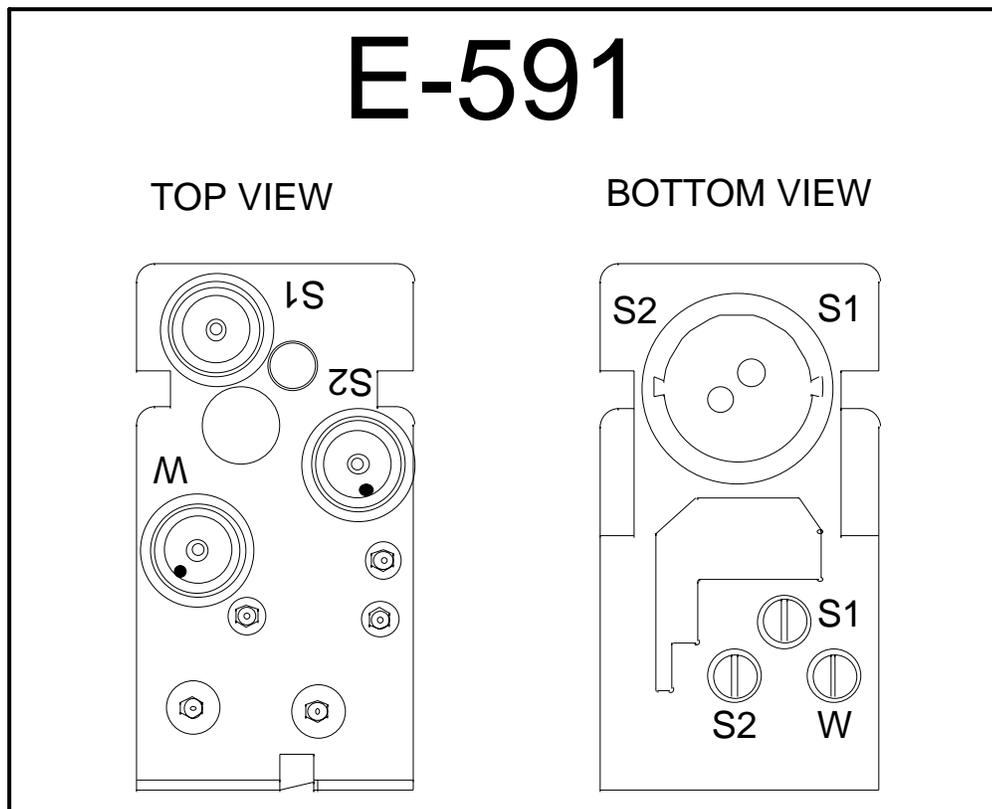


4. Remove existing standard valve and replace with PF-2-PB. All PF-2-PB valves have alignment pins, see illustration. These alignments pins may

not fit on older valve mounting plate. If that is the case the alignment pins may be removed with a sharp knife. Align valve body with mounting plate and attach with supplied valve mounting screws.

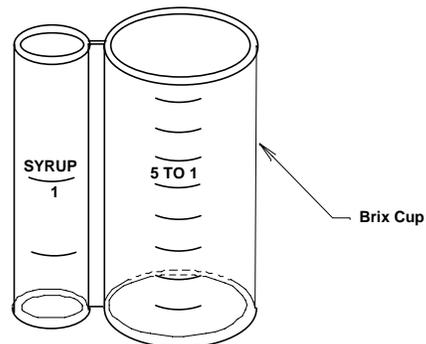
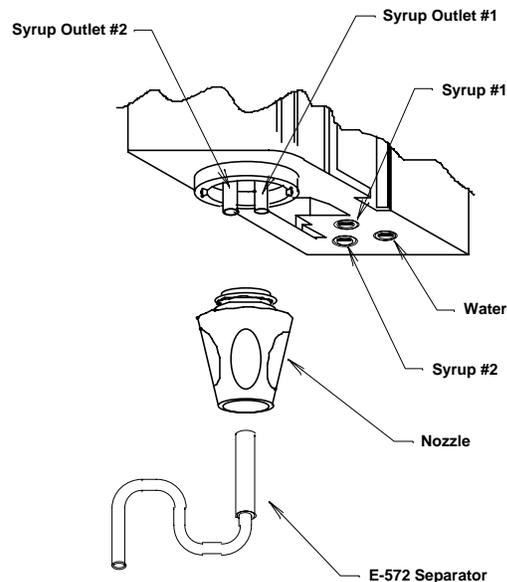
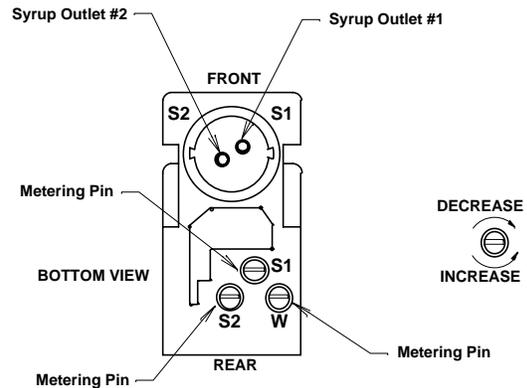
5. Install water and syrup inlets to corresponding inlet holes on back of valve. All PF-2-PB valves are marked with raised letters at the inlet fitting.
6. Reconnect syrup lines and check for leaks. Repeat this procedure for water or soda connection.
7. Connect 24-volt wire to transformer or existing 24-volt lead wire. Insert plug into electrical receptacle or turn 24-volt key switch to on positions.
8. Valve is now ready to brix.

Top and Bottom Views of E0591, (PF-2-PB) valve body.

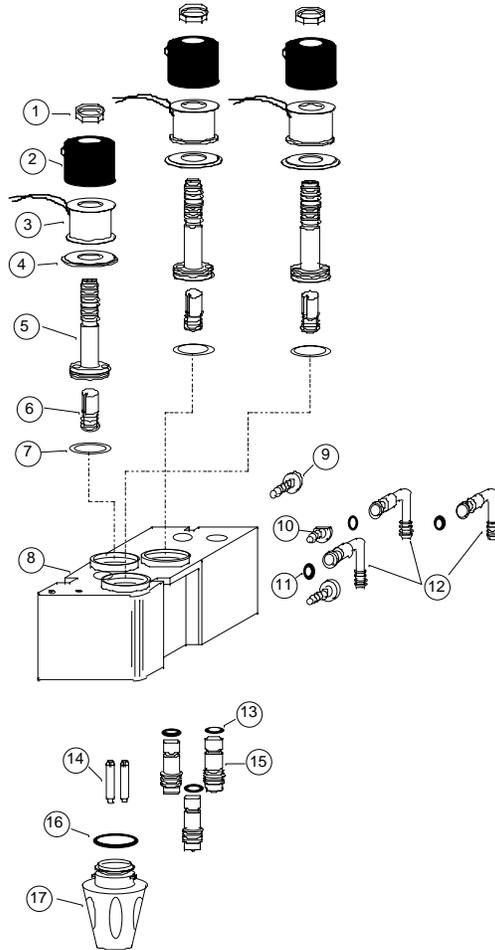
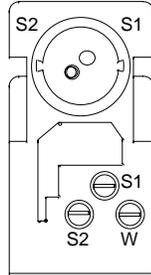


**BRIXING PF-2 VALVE**

1. The water and syrup flows are individually adjusted by their respective metering pin located under the valve.
2. One recommended method utilizes a ratio brix cup, see illustration. The brix cup is divided into two sections. The larger section is for water and the smaller section is for syrup. Most products are brixed at a 5 to 1 ratio or 5 parts water and one part syrup. While the brix cup is held in the right hand with the smaller section facing towards your left hand you can see the "5 TO 1" setting line and "SYRUP 1" setting line.
3. When facing the PF-2, the water metering pin will be to the extreme right; syrup #1 will be nearly centered and forward. Syrup #2 will be to the extreme left. To decrease syrup or water flow, turn metering pin adjustment screw clockwise. To increase syrup or water flow, turn metering pin adjustment screw counterclockwise.
4. The ultimate goal is to achieve a proper ratio of water vs. syrup. This ratio can and will vary with differing products but in most cases it is a 5 TO 1 ratio.
5. Make sure system is in an operating condition, i.e., high pressure regulators are set, water and power are on and refrigeration is in a ready to go mode.
6. Adjust water flow to 6 ounces in 5 seconds. This is accomplished by turning water adjustment clockwise to decrease or counterclockwise to increase flow. The water flow need only be adjusted once to satisfy both flavors.
7. Remove nozzle by twisting while pulling down. Insert syrup separator through nozzle and connect to syrup outlet for #1 flavor. Push nozzle back into operating position.
8. Actuate valve until syrup separator is full of syrup.
9. Position brix cup under the valve so syrup will flow into the small section of the brix cup and water will flow into the large section of the brix cup.
10. Actuate valve allowing the water to flow into larger section of cup and syrup into smaller section. The water flow has already been set at 6 ounces in 5 seconds so the only adjustment to do will be the syrup. For a proper brix of a 5 TO 1 ratio the syrup will fill to line #1 and water will fill to the line that has a 5 TO 1 marking. Pour water until it reaches the 5 TO 1 marking and stop. See where the syrup level stops, adjust syrup accordingly.
11. Repeat steps 7 through 10 to brix syrup #2.



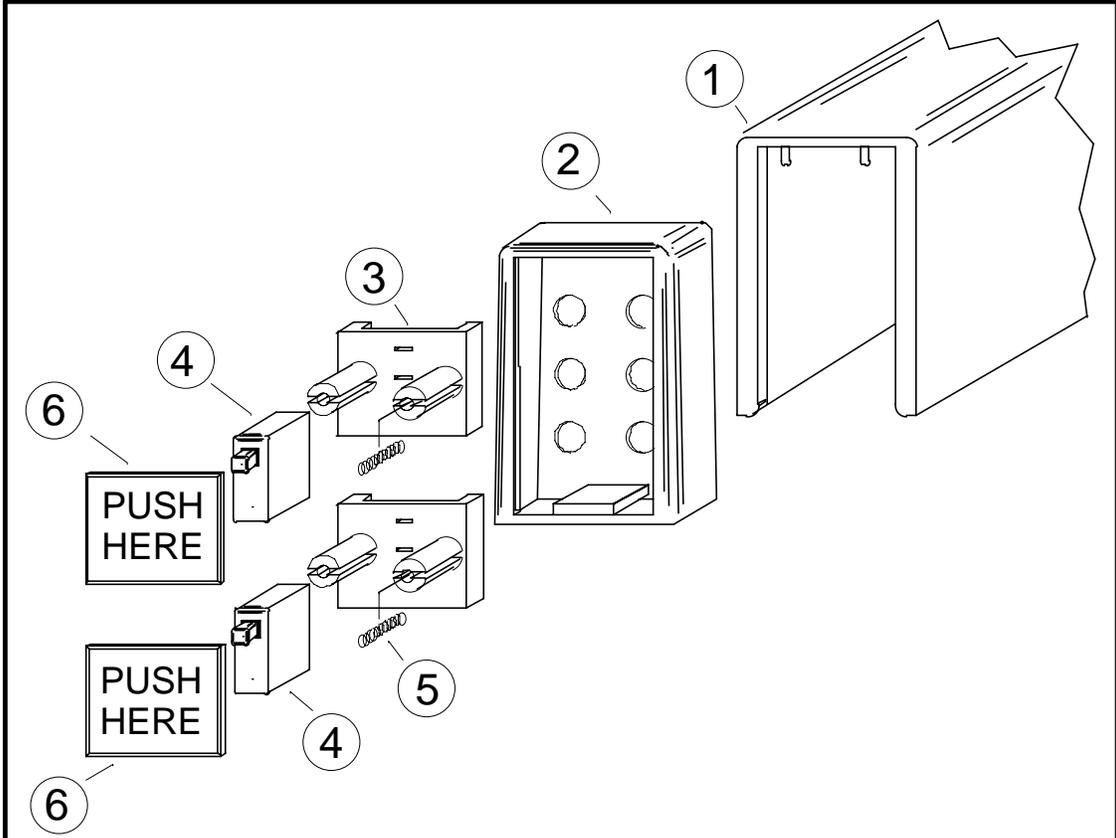
18 - 1 BRIX CUP



**PF-2-PB EXPLODED VIEW**

SYM	QTY	PART NO.	DESCRIPTION
1	3	E-623	NUT, SOLENOID
2	3	E-525	COIL, W/SHIELD, SOLENOID, 24 VAC
3	3		
4	3	E-739	FLUX PLATE
5	3	E-527	STEM, SOLENOID VALVE
6	3	E-730	PLUNGER & SPRING ASSEMBLY
7	3	E-531	GASKET, SOLENOID STEM
8	1	E-591	BODY, TWIST LOCK
9	2	E-162	SCREW, TAP TIGHT
10	2	E-240	1/2 SCREW
11	3	E-137	"O" RING, INLET TUBE
12	3	E-385	TUBING INLET ASSY., 1/4" HOSE S.S. 90 DEGREE
13	3	E-134	"O" RING, METERING PIN
14	2	E-595	SYRUP OUTLET TUBE
15	3	E-135	METERING PIN
16	1	E-102	"O" RING, NOZZLE
17	1	E-581	NOZZLE, TWIST LOCK

INTERNATIONAL CARBONIC INC.    ADELANTO, CALIFORNIA	TITLE	PF-2-PB
	DATE	11/03/04
	DRN. BY	GLW
	CHK. BY	
	APPR. BY	



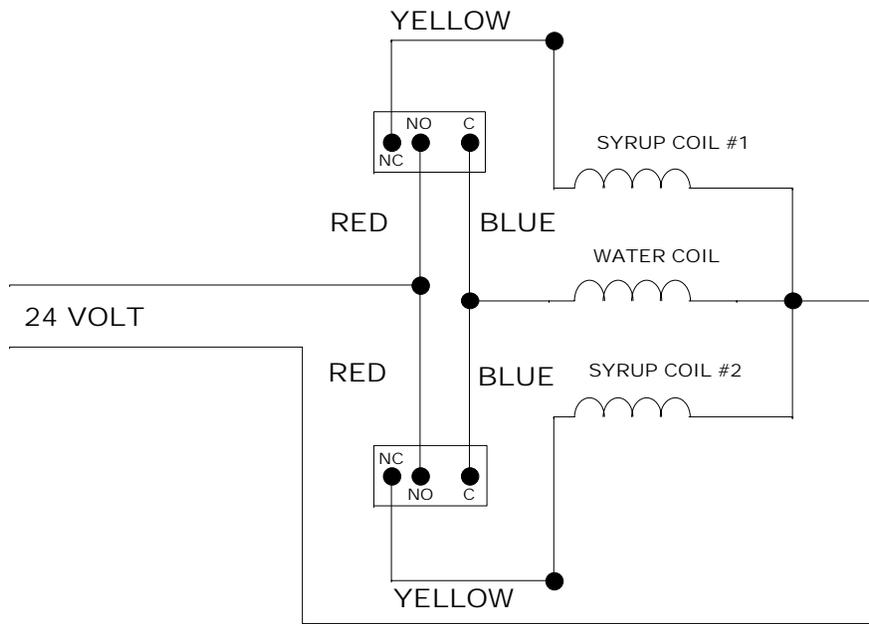
E-1061 SWITCH, TWO FLAVOR ASSY.

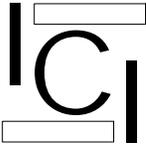
SYM	QTY	PART NO.	DESCRIPTION
1	1	E-1066	CAP, COVER ALL
2	1	E-1072	CONTROL BOX
3	2	E-1063	SWITCH MOUNTING PLATE
4	2	E-157	SUB MINIATURE SWITCH
5	2	E-1070	SPRING
6	2	E-1068	ACTUATING PLATE

INTERNATIONAL CARBONIC INC.



ADELANTO, CALIFORNIA



INTERNATIONAL CARBONIC INC.	TITLE PF-2-PB ELECTRICAL SCHEMATIC
	DATE 12-16-05
ADELANTO, CALIFORNIA	DRN. BY GLW
	CHK. BY
	APPR. BY

