

# HydroFlo Faucet Proportioner

## Model 630

### Package Contains:

1. Stainless steel faucet proportioner
2. Metering tip kit
3. Suction tube - 7 ft.
4. Ceramic weight
5. Foot valve
6. Product information sheet

### THANK YOU FOR YOUR INTEREST IN OUR PRODUCTS

Hydro Systems manufactures quality chemical proportioners and dispensers. Please use this equipment carefully and observe all warnings and cautions.

\*\*\*\*\* NOTE \*\*\*\*\*

<b>WEAR</b>	protective clothing and eyewear when dispensing chemicals or other materials.
<b>ALWAYS</b>	observe safety and handling instructions of the chemical manufacturers.
<b>ALWAYS</b>	direct discharge away from you or other persons or into approved containers.
<b>ALWAYS</b>	dispense cleaners and chemicals in accordance with manufacturer's instructions. Exercise CAUTION when maintaining your equipment.
<b>CLEAN</b>	equipment after each use in accordance with instruction sheet.
<b>WEAR</b>	protective clothing and eyewear when working in the vicinity of all chemicals, filling or emptying equipment or changing metering tips.
<b>ALWAYS</b>	re-assemble equipment according to instruction procedures. Be sure all components are firmly screwed or latched into position.
<b>ATTACH</b>	only to tap water outlets (85 PSI maximum).

### Installation and Operation:

(Reference diagram on back)

**NOTE: There should always be at least a one inch gap of air between the bottom of the faucet proportioner and the flood level rim of the sink.**

1. If there is an aerator on the faucet outlet, remove it.
2. Attach faucet proportioner by screwing it on to the aerator thread. If the faucet does not have an aerator thread, it will be necessary to install one of the adapters listed on the back of this sheet before proceeding.
3. Select a metering tip according to the dilution desired and insert into the hose barb on the faucet proportioner. Slide the suction tube (part #3 on the diagram) over the hose barb.
4. Attach Insert the foot valve assembly end of the suction tube (part #5 on the diagram) into the concentrate container.

**\*CAUTION\***

**DO NOT PLACE YOUR CONCENTRATE CONTAINER ABOVE THE FAUCET PROPORTIONER. SUCH PLACEMENT CAN CAUSE CONTINUOUS SIPHONING OF CONCENTRATE.**

5. Turn on water (minimum 15 PSI flowing required to operate proportioner). To begin siphoning concentrate, press the button in until solution is being dispensed through the proportioner. Flow of mixed solution will continue until the water is turned off. The unit will then automatically reset to deliver plain tap water again.

### Measurement of Concentration:

You can determine the dispensed water-to-product ratio for any metering tip size and product viscosity. All that is required is to operate the primed dispenser for a minute or so and note two things; the amount of dispensed water-to-product mixture and the amount of concentrate used in preparation of the solution dispensed. The water-to-product ratio is then calculated as follows:

$$\text{Dilution (X)} = \frac{\text{Amount of Mixed Solution} - \text{Amount of Concentrate Drawn}}{\text{Amount of Concentrate Drawn}}$$

Dilution Ratio, then, equals X parts water to one part concentrate (X:1). If the test does not yield the desired ratio, choose a different tip and repeat the test. Alternative methods to this test are 1) pH (using litmus paper), and 2) titration. Contact your concentrate supplier for further information on these alternative methods and the materials required to perform them.

Dilution ratios will vary depending on water pressure, temperature, water flow rate and concentrate viscosity. The following dilution ratios were developed using tap water as the medium being siphoned (1.0 cp viscosity) at 25 PSI pressure of water flow through the faucet proportioner. Since conditions vary from application to application, these figures should be used as **guidelines only**. Test the actual dilution using the Measurement of Concentration procedure outlined on the front of this sheet.

APPROXIMATE DILUTIONS AT 25 PSI FOR WATER-THIN PRODUCTS (1.0 CP)			
Tip Color	Orifice Size	Std. Drill Number	Ratio
No Tip	.187	(3/16)	9:1
Gray	.128	(30)	10:1
Black	.098	(40)	12:1
Beige	.070	(50)	16:1
Red	.052	(55)	24:1
White	.043	(57)	32:1
Blue	.040	(60)	40:1
Tan	.035	(65)	54:1
Green	.028	(70)	76:1
Orange	.025	(72)	90:1
Brown	.023	(74)	128:1
Yellow	.020	(76)	160:1
Aqua	.018	(77)	170:1
Purple	.014	(79)	256:1
Pink	.010	(87)	512:1

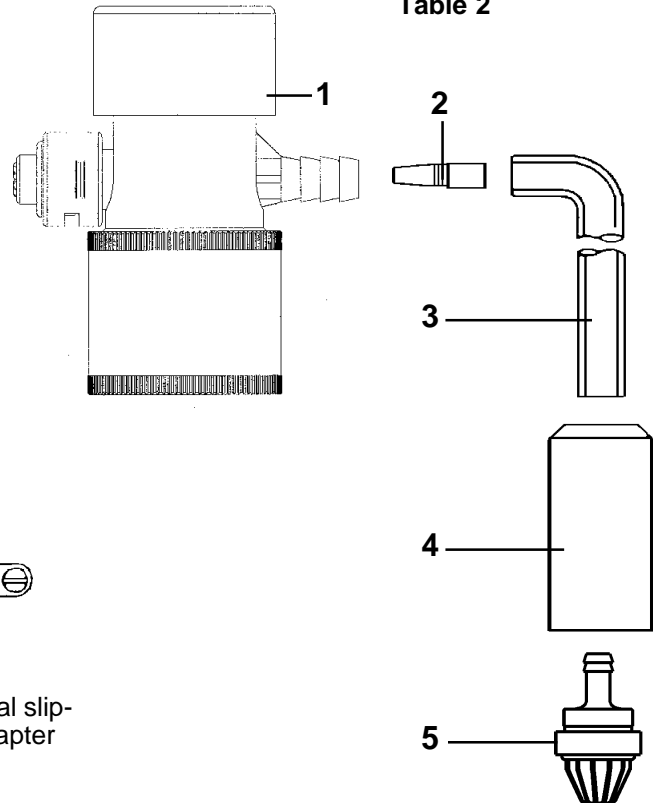
Table 1

CONVERSION CHART: Ratio Equivalents to Standard Measures		
Oz./Gal.	Ratio	%
128	1:1	50.0
64	2:1	33.3
32	4:1	20.0
21	6:1	14.3
16	8:1	11.1
14	9:1	10.0
8	16:1	5.9
6	24:1	4.0
4	32:1	3.0
3	48:1	2.0
2	64:1	1.5
1	128:1	0.8
1/2	256:1	0.4
1/4	512:1	0.2

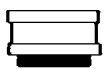
Table 2

**PARTS DIAGRAM/LIST**

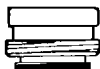
KEY NO.	PART NO.	DESCRIPTION
1	10087820	Proportioner body assembly
2	690014	Metering tip (kit of 14)
3	500870	Suction tube, 7 ft.
4	509900	Ceramic weight
5	10089410	Foot valve, Viton



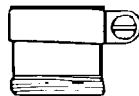
**OPTIONAL ADAPTERS**



171  
Garden hose to  
aerator adapter



172  
Aerator to garden  
hose/aerator adapter



173  
Universal slip-  
over adapter

