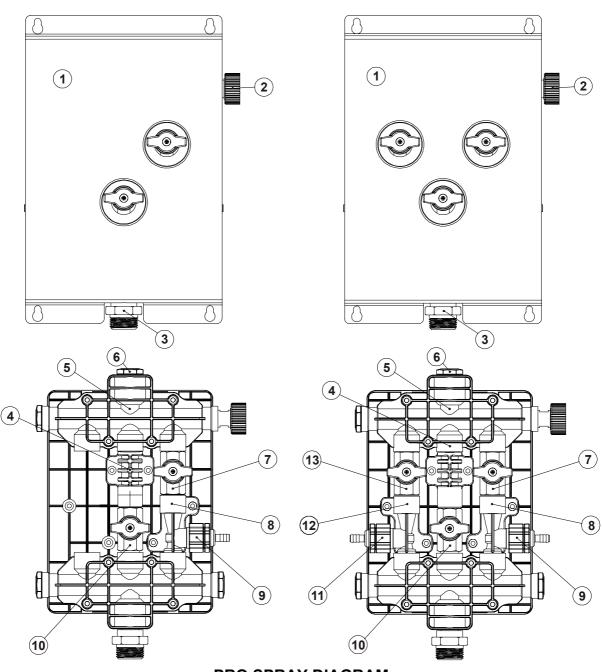
Pro Spray 1 & 2 Products



PRO SPRAY DIAGRAM

1	Front cover
2	Inlet water fitting (¾" FGHT swivel)
3	Outlet discharge hose (¾" MGHT)
4	Rinse tube
5	Ball valve connector manifold
6	Plug 3/8 gas
7	Product 1 ball valve (code 9900106694)
8	Venturi device product 1
9	Check valve product 1 (code 990071046) 1/4" ID - 3/8" OD
10	Rinse ball valve (code 9900106694)
11	Check valve product 2 (code 990071046) 1/4" ID - 3/8" OD
12	Venturi device product 2
13	Product 2 ball valve (code 9900106694)

INDICE

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PREAD THE FOLLOWING BEFORE INSTALLING SERVICING THE STATION.

- Verify that the water supply pressure is between 20 and 100 PSI (1,4 6.9 Bar).
- Verify that the water supply temperature does not exceed 150°F (65°C).
- The plumbing fittings in the station have been tested for use with the most common liquid detergents mixed with water.
- Be sure that the detergent used is compatible with polypropylene.
- Install the station near a connection point for the water supply.
- Fit the guard to facilitate cleaning of surfaces and make the plumbing fittings accessible for replacing dilution *tips* and routine maintenance.
- WARNING: Turn off water supply brfore servicing on the Pro Spray.
- WARNING: Check the equipment model, when using the dosage calibration references in this manual.
- The company is always striving to improve our products, and we reserve the right to make changes at any time without notice.
- Failure to abide by the standards laid down in this manual could result in personal injury or damage to property or the equipment.
- Only use hoses and spray guns suitable for use with the Pro Spray.
- The Pro Spray does not include backflow prevention devices. Where necessary install a suitable backflow preventer at the water in compliance with local standards.

1.0 TECHNICAL FEATURES

Pro Spray provides the following flow rates (the values shown in table 1 only apply when mixing one product at a time):

	Dynamic water pressure (PSI)					
	11.6	29.0	40.61			
Flow Rate (GPM)	1,79	2,76	3,30			

Table 1

WARNING: Opening both the ball valves at the same time will lead to a slight reduction in the flow rate and may result in variations in the percentage of product mixed.

Proper dilution is obtained by using one of the 15 calibrated tips supplied.

The diameter of these tips decreases and they are color coded.

Table 2 indicates dilution for fluids with varying viscosities.

A degree of viscosity of **1 cps** (centipoises) is typical for water, engine oil has an average viscosity of **100 cps**, and the approximate viscosity of most detergents used for washing Pots and Pans is **500 cps**.

Tin		1 cps		100 cps			500 cps			
Tip Color	Diameter	Oz/Gal	gr/l	ratio	Oz/G al	gr/l	ratio	Oz/ Gal	gr/l	ratio
No Tip	0.187	7,8	58,7	17 - 1	3,8	28,8	35 - 1	1,0	7,2	139 - 1
Gray	0.128	7,9	59,2	17 - 1	3,2	23,9	42 - 1	0,9	6,5	154 - 1
Black	0.098	7,5	56,2	18 - 1	2,7	20,2	50 - 1	0,9	6,4	156 - 1
Beige	0.070	7,0	52,7	19 - 1	2,5	18,9	53 - 1	0,8	6,2	161 - 1
Red	0.052	6,3	46,9	21 - 1	2,3	17,4	57 - 1	0,8	5,9	169 - 1
White	0.043	4,3	31,9	31 - 1	2,0	15,1	66 - 1	0,8	5,8	172 - 1
Blue	0.040	3,9	29,1	34 - 1	1,9	14,4	69 - 1	0,8	5,8	172 - 1
Tan	0.035	3,5	26,2	38 - 1	1,7	12,7	79 - 1	0,7	5,6	179 - 1
Green	0.028	2,1	15,7	64 - 1	1,3	9,7	103 - 1	0,5	4,0	250 - 1
Orange	0.025	2,1	15,9	63 - 1	1,1	8,6	116 - 1	0,6	4,2	238 - 1
Brown	0.023	1,7	13,1	76 - 1	1,0	7,2	139 - 1	0,5	3,7	270 - 1
Yellow	0.020	1,3	9,6	104 - 1	0,9	6,6	152 - 1	0,4	2,7	370 - 1
Aqua	0.018	1,2	9,1	110 - 1	0,8	5,7	175 - 1	0,3	2,2	455 - 1
Purple	0.014	0,5	3,6	278 - 1	0,3	2,6	385 - 1	0,1	0,8	1250 - 1
Pink	0.010	0,3	2,5	400 - 1	0,2	1,7	588 - 1	0,1	0,6	1667 - 1

Table 2 – The approximate dilution values given in this table are measured at a flow rate of 4,23 GPM and water supply pressure of 40 PSI.

The values given in the table should be considered as close approximations, as actual dilution ratio depends on variables such as water pressure, product viscosity, and the temperature of the water supply.

For improved accuracy, the calibration can be verified as follows:

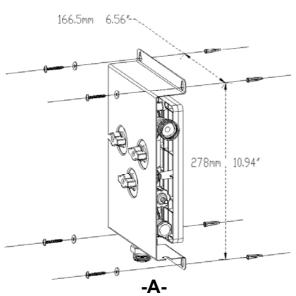
- 1. Fill a graduated cylinder with the concentrated product.
- 2. Using the above chart, select and insert the tip closest to the desired dilution ratio.
- 3. Insert the pick up hose into the graduated cylinder.
- 4. Put the outlet tube into a open container and open the tap. Draw up the product until the pick up tube is completely filled.
- 5. Mark the level of the product in the graduated container.
- 6. Switch the tap off and insert the delivery hose in a 1 gallon (or 1 liter) container.
- 7. Switch the tap on again until the 1 gallon (or 1 liter) container is completely full.
- 8. Switch the tap off and read the quantity of product in the graduated container.
- 9. The difference in the product levels for points 5 and 8 indicates the amount of product mixed per gallon (or liter).

A transparent tip without an opening that can be drilled to obtain a customized ratio of dilution is included.

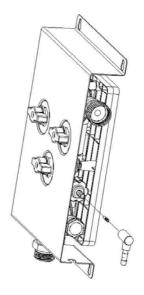
2.0 INSTALLATION

The Pro Spray must be installed in a position in where it can easily be connected to the water supply, with the hose bracket (optional) installed nearby.

Before mounting it in its final position, be certain that normal maintenance components are easily accessible.



Fit the unit on the wall using the supplied wall anchors



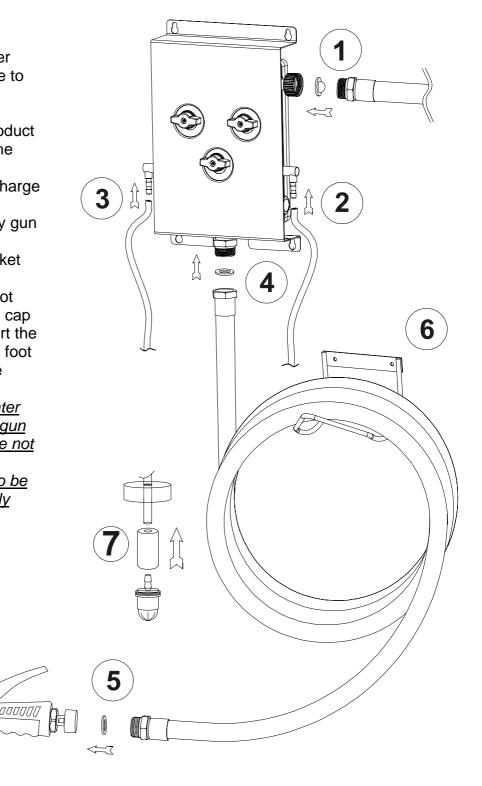
-BChoose the appropriate metering tip and insert it into barb on the inlet's non-return valve then place the elbow over the barbs as show in figure

-C-

- (1) Connect the water supply hose. Be sure to include the screen filter/washer
- (2-3)Connect the product pick up tubes over the elbows
- (4) Connect the discharge hose and washer
- **(5)**Connect the spray gun and washer
- **(6)** Fit the hose bracket on the wall
- (7)To connect the foot filter make a hole on cap of the tank than insert the tube, the weight and foot filter as shown in the figure

The outlet hose, water supply hose, spray gun and hose bracket are not included.

They are available to be purchased separately



3.0 MAINTENANCE

- Check for buildup or debris foot filter.
- Check, and if necessary clean the screened washer at the water inlet GHT fitting.
- Periodically remove any lime build-up. To clean the Venturi properly replace the product to be mixed with a suitably diluted de-limer activater the appropriate valve to draw the product through the Venturi.

3.1 REMOVING THE SS FACING



◄1
Remove
Pro Spray
from wall
and lay on
flat surface.



◄2Remove valve knobs and set tools aside.



►3
Place
thumbs
on valve
stem
sand lift
from the
underside
of the
facing



◄4
Remove
stainless
steel facing
and set
aside.

3.2 CHANGING A BALL VALVE



▼1
Take apart
the upper
manifold, rock
the ball valve
back and
forth to make
the manifold
easier to
disassemble



◄2Take apart the lower manifold



WARNING: Be sure to align the manifold properly to avoid displacing "O" Ring



◄3
Replace
any
component
in minutes
without the
use of tools



◄4Reassebling the system

WARNING: In the reassembling part be sure that the arrows marked on the ball valve are direct to top

3.3 REPLACING OR CLEANING THE FIXED PARTS



■1
Unscrew the check valve counter-clockwise being careful not to lose the O Ring



<2To remove the Venturi procede as shown



WARNING: When reassembling, don't overtighten the check valve.

WARNING: When cleaning of the venturi avoid use the pointed objects as screwdriver etc. This could damage the venturi. Use a de-limer as describedabove or compressed air

3.4 CHANCHING THE WATER INLET



All manifold components snap together and are sealed with double "O" rings as pictured



To change water flow direction simply rotate upper manifold and re-secure over ball valve "O" rings as pictured



WARNING: Be sure to align the manifold properly to avoid displacing "O" Rings.

4.0 TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION			
No flow	No water supply	Open the water supply connection			
	The foot filter is clogged	Clean or replace the filter			
	The calibration nozzle is clogged	Clean or replace the nozzle			
	Insufficient water supply	A minimum pressure of 20 PSI (1,4 bar)			
The product is not mixed	pressure	is required for correct functioning			
The product is not mixed	The product container is	Fill the container			
	empty	I ill the container			
	The pick up hose is not properly inserted in the nozzle holder	Push the pick up tube all the way into the tip seat.			
Concentration too high	The metering tip is not fitted or it is fitted badly	Insert the tip in the tip holder properly			
Water fills the chemical's container.	Check valve clogged	Clean or replace the check valve.			
Water loss	Wrong position of o-ring	Change it			
Incorrect concentration	Wrong tip	Change it (see par. 1.0)			