

LAFFERTY EQUIPMENT MFG., INC.

INSTALLATION / OPERATION INSTRUCTIONS

HIGH PRESSURE SPRAY-ALLS

Featuring STAINLESS STEEL CONSTRUCTION for High Pressure Applications and Maximum Chemical Resistance



Requirements

400 – 1000 PSI Water
3/8" I.D. Discharge Hose

Water Temperature

Ambient to 160° F

OPTIONS

- *High Concentrate Models Available*
- *Stainless Steel Trigger Gun*
- *Stainless Steel Hose Rack*
- *1 Gallon Stainless Steel Jug Rack (round OR square)*
- *2 ½ Gallon Stainless Steel Jug Rack (inside dimensions 8 ½" x 10 ½")*
- *5 Gallon Stainless Steel Jug Rack (inside dimensions 11" x 11")*

CHOOSE FROM TWO DIFFERENT WATER FLOW RATES:

Model # 918025, W-10SS Spray-All

Model # 918027, W-20SS Spray-All

(with nozzle only)

Model # 918050, W-10SS Spray-All Complete

Model # 918054, W-20SS Spray-All Complete

(with 50' hose, trigger gun, 18" stainless steel wand, and nozzle)

For Foaming applications, ask about our High Pressure Airless Foamers

INSTALLATION AND OPERATION INSTRUCTIONS HIGH PRESSURE SPRAY-ALLS

Observe good safety habits. Wear protective clothing, gloves, and eye wear. **ALWAYS DIRECT THE DISCHARGE AWAY FROM ELECTRICAL OUTLETS, YOURSELF, AND OTHERS!**

TO INSTALL *(See Parts Diagram, Facing Page)*

1. Mount the spray-all to a suitable surface.
 2. Connect your 400 – 1000 PSI water line to the spray-all.
 3. Connect the **swivel end** of the hose to the adapter. [**Hose must be 3/8" I.D.**]
 4. Connect the trigger gun assembly to the hose. [**Use only the nozzle supplied with the spray-all.**]
 5. *Stapled to these instructions, with a matching color-coded chart, are metering tips which control your chemical to water dilutions. You will need to know the water pressure and the number of ounces of chemical needed per gallon of water to determine the correct tip color. (See chemical label for manufacturer's recommendation.)*
- A. Locate your water pressure in the chart. The number below it is your water flow rate in **gallons per minute**.
 - B. Multiply the **gallons per minute** by the number of **ounces of chemical needed per gallon** of water.
 - C. Match answer to the *nearest* number in the metering tip selection chart. [**The tip selection chart is based on water-thin chemical. Thicker chemicals will require a larger metering tip. If selected metering tip does not produce desired chemical ratio, increase or decrease tip size until desired chemical ratio is achieved.**]
 - D. Open cover. Install selected metering tip into solution check valve. Next, push the chemical tube over the check valve and close cover. Immerse the chemical strainer into your chemical concentrate.

EXAMPLE OF METERING TIP SELECTION W-20 Spray-All at 500 PSI

- 500 PSI = 3.4 GPM
- 4 ounces of chemical per gallon of water
- 3.4 x 4 = 13.6 ounces of chemical
- 13.6 \cong 14.2 for thin chemical (Light Blue tip)
(thicker chemicals will require a larger tip)

TO APPLY CHEMICAL

1. Open the ball valve on the spray-all and move to the area to be cleaned or sanitized. While firmly holding the trigger gun, depress trigger and begin applying chemical.
2. When finished, return to spray-all and close the ball valve. **Depress trigger to relieve pressure in hose!** Store hose — optional hose rack is available.
3. Allow sufficient time for chemical solution to work. Then, rinse the work surface.

CAUTION: SHUT DOWN AFTER EACH USE! NEVER LEAVE SPRAY-ALL UNATTENDED WITHOUT CLOSING THE INCOMING VALVE AND RELIEVING PRESSURE IN THE HOSE.

SPRAY-ALL FLOW CHART			WATER PRESSURE						
			400 PSI	500 PSI	600 PSI	700 PSI	800 PSI	900 PSI	1000 PSI
Model	Nozzle Size	Hose Size	SPRAY-ALL WATER FLOW RATE (GPM)						
W10SS	# 2510	3/8"	1.2	1.4	1.5	1.6	1.7	1.8	1.9
W20SS	# 2520	3/8"	3.0	3.4	3.7	4.0	4.2	4.6	4.8

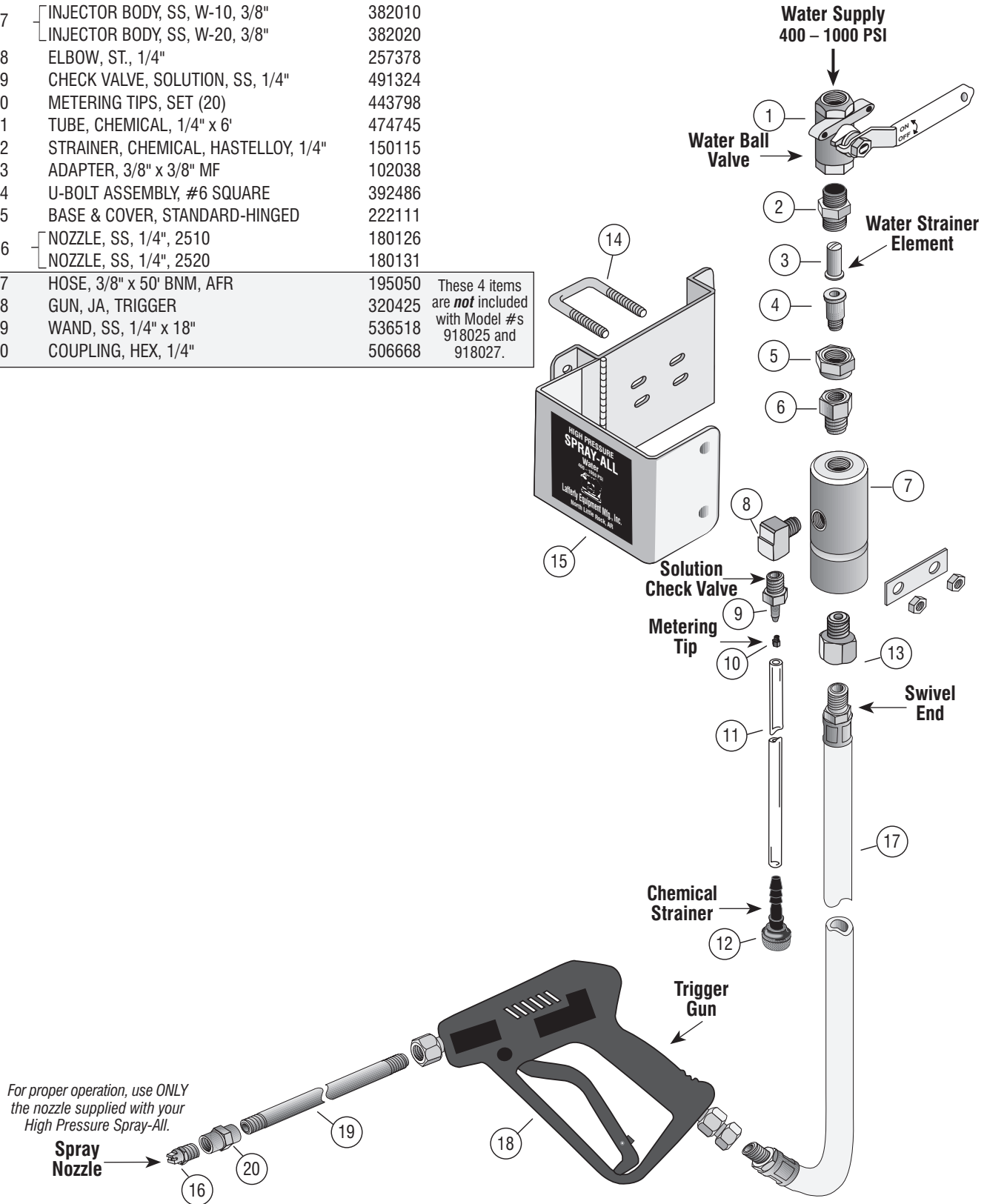
The number under each color in the chart below represents the **average ounces of water-thin chemical which will pass through the tip per minute.**

METERING TIP SELECTION IN OUNCES PER MINUTE (AVERAGE)																				
COLOR	Brown	Clear	Bright Purple	White	Pink	Corn Yellow	Dark Green	Orange	Gray	Light Green	Medium Green	Clear Pink	Yellow Green	Burgundy	Pale Pink	Light Blue	Dark Purple	Navy Blue	Clear Aqua	Black
Thin Chemical	0.84	1.16	1.4	2.0	2.7	3.4	4.0	5.3	6.1	7.0	8.5	9.2	11.2	12.5	12.9	14.2	17.6	21.4	30.2	40.4

HIGH PRESSURE SPRAY-ALLS

QTY.	CALL #	DESCRIPTION	PART #
1	1	BALL VALVE, SS, 3/8"	413659
1	2	STRAINER BODY, 3/8", TT-SS	552012
1	3	STRAINER ELEMENT	552009
1	4	STRAINER ADAPTER, SS, 1/8"	552005
1	5	STRAINER CAP, SS	552004
1	6	BUSHING, 3/8" x 1/8"	305212
1	7	INJECTOR BODY, SS, W-10, 3/8"	382010
		INJECTOR BODY, SS, W-20, 3/8"	382020
1	8	ELBOW, ST., 1/4"	257378
1	9	CHECK VALVE, SOLUTION, SS, 1/4"	491324
1	10	METERING TIPS, SET (20)	443798
1	11	TUBE, CHEMICAL, 1/4" x 6'	474745
1	12	STRAINER, CHEMICAL, HASTELLOY, 1/4"	150115
1	13	ADAPTER, 3/8" x 3/8" MF	102038
1	14	U-BOLT ASSEMBLY, #6 SQUARE	392486
1	15	BASE & COVER, STANDARD-HINGED	222111
1	16	NOZZLE, SS, 1/4", 2510	180126
		NOZZLE, SS, 1/4", 2520	180131
1	17	HOSE, 3/8" x 50' BNM, AFR	195050
1	18	GUN, JA, TRIGGER	320425
1	19	WAND, SS, 1/4" x 18"	536518
1	20	COUPLING, HEX, 1/4"	506668

These 4 items are **not** included with Model #s 918025 and 918027.



TROUBLESHOOTING GUIDE

for

HIGH PRESSURE SPRAY-ALLS

PROBLEMS	POSSIBLE CAUSES / SOLUTIONS												
	1	2	3	4	5	6	7	8	9	10	11	12	13
A) Spray-All will not draw chemical.	•	•	•	•	•	•	•	•	•	•			•
B) Water flowing into chemical container.						•							
C) Spray-All draws too much chemical.											•		
D) Spray does not clean properly.												•	

POSSIBLE CAUSES / SOLUTIONS

- Water pressure too low or temperature too high** – Increase water pressure if possible. If necessary, decrease water temperature.
- Hose too long or wrong size; must be 3/8" I.D.** – Maximum **recommended** hose length is 100'.
- Nozzle size too small** – Nozzle must match injector. See chart, page 2.
- Water inlet not completely open and/or trigger gun not completely depressed** – Completely open the water valve and/or completely depress trigger gun.
- Water strainer element clogged** – Clean the water strainer element. [Completely unscrew strainer cap from strainer for easy cleaning or replacement of strainer element; see diagram, pg. 3.]
- Solution check valve clogged or failed** – Clean or replace solution check valve.
- Chemical tube not immersed in chemical or chemical depleted** – Immerse tube or replenish.
- Chemical strainer or metering tip blocked** – Clean or replace chemical strainer and/or tip.
- Chemical tube stretched out where tube slides over check valve or pin hole/cut in chemical tube** – Cut approximately 1/2" off end of tube or replace tube.
- Vacuum leak in chemical pick-up assembly** – Tighten the connection(s).
- Chemical to water ratio too high** – Install **smaller** tip.
- Chemical to water ratio too low** – Install **larger** tip.
- Water scale or chemical build-up may have formed in the injector body causing poor pick-up** – To descale, carefully remove body and soak *entire* body in descaling acid.

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