

# LAFFERTY EQUIPMENT MFG., INC.

## INSTALLATION / OPERATION INSTRUCTIONS

# PORTABLE 4-WAY FOGGERS

5 GALLON



*Pail not included.*

**Requirements:**  
Compressed Air  
(See Fogger CFM  
chart on back page)

20 GALLON



*Tank included.*

## OPTIONS

- # 443793 – Metering Tips (5 Smallest)
- # 443794 – Metering Tips (Set of 10)
- # 981100, 1-Way Push Lever Mixing Station (High Flow)
- # 985100, 1-Way Ball Valve Mixing Station (High Flow)
- Electronic Control Boxes (Call for part numbers or visit [www.laffertyequipment.com](http://www.laffertyequipment.com))

Model # 950701, Portable 305 4-Way Fogger With 5 Gallon Cart  
Model # 950702, Portable 455 4-Way Fogger With 5 Gallon Cart  
Model # 950703, Portable 324 4-Way Fogger With 5 Gallon Cart

Model # 950721, Portable 305 4-Way 20 Gallon Fogger  
Model # 950722, Portable 455 4-Way 20 Gallon Fogger  
Model # 950723, Portable 324 4-Way 20 Gallon Fogger

**Ask about our Optional Electronic Controls for  
automating your fogging applications.**

# PORTABLE 4-WAY FOGGERS INSTALLATION / OPERATION INSTRUCTIONS

**CAUTION!** Always observe good safety habits. All personnel should be evacuated from the area before fogging.

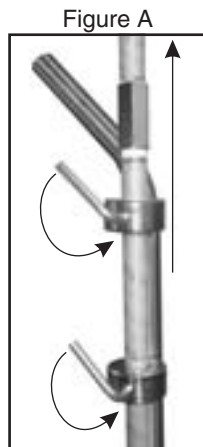


Always wear a respirator, protective clothing, gloves, earplugs and eye wear if unable to avoid exposure to chemical(s). Never discharge toward electrical outlets, etc.!!

Use clean, dry, bacteria free compressed air when fogging food or sensitive products.

## TO INSTALL

1. Connect the 4-way fogger assembly as shown in the diagram (facing page).
2. Push the chemical tubes over the metering tip holders as shown in the diagram. **[The tubing is divided into two identical assemblies. Make sure that one of these assemblies is connected to the metering tip holders on the two foggers with shut-off ball valves. This configuration allows you to turn off two foggers and use the remaining two in narrow spaces, like hallways.]**
3. Securely connect your compressed air supply hose to the unit as shown in the diagram. **[Hose size must be 1/2" I.D. minimum.]**
4. Place the portable fogger in the center of the area to be fogged. Loosen the "L"-shaped bolts on the slide brackets and raise the 4-way fogger assembly to preferred height. (See Figure A.) Tighten the "L"-shaped bolts firmly to secure.



## TO OPERATE

Test the fogger with **WATER ONLY** prior to any chemical use.

1. Place the chemical strainers into a container of **water** for testing.
2. Activate your air supply to begin fogging. Use the air flow adjustment ball valve to "fine tune" the fog output. Fully open the ball valve, then slowly close it until fog stabilizes.
3. Observe fog volume. Foggers may produce more volume than needed. (See chart, back page.) If fog is too dense, **optional metering tips** are available for restricting the solution volume to the fogger and producing a lighter fog. (See diagram, next page for metering tip part numbers.)
3. Deactivate the air supply. Now you are ready for chemical fogging. Place the chemical strainers into your premixed chemical solution. Re-activate air supply to begin fogging.
4. When finished fogging, deactivate the air supply.



**IMPORTANT:** Avoid exposure to fog. Activate/deactivate your air supply from a remote location using either a ball valve or **Optional Electronic Controls.**

## TROUBLESHOOTING GUIDE

PROBLEMS	POSSIBLE CAUSE / SOLUTION								
	1	2	3	4	5	6	7	8	9
A) Fogger will not draw chemical/sputtering.	•	•	•	•	•	•	•		
B) Fog is too wet.	•		•					•	•

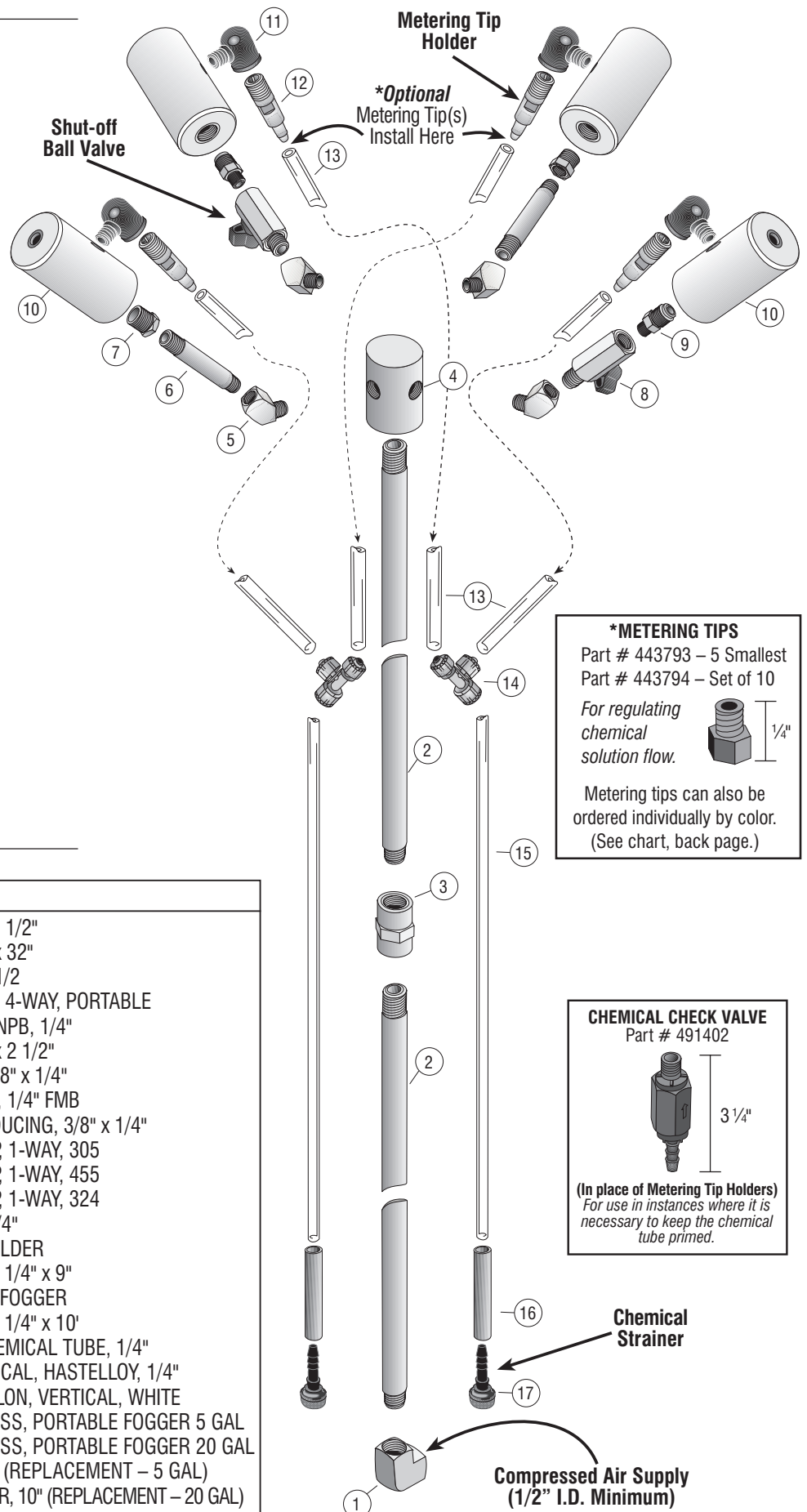
## POSSIBLE CAUSE / SOLUTION

1. **Not enough air pressure** – Increase the air pressure.
2. **Too much air pressure/volume** – Partially close the fog consistency ball valve.
3. **Airline too small** – Airline must be 1/2" I.D. minimum and meet minimum CFM requirements. See chart, back page.
4. **Pin hole or cut in chemical tube** – Replace chemical tube.
5. **Chemical tube kinked or not immersed in chemical** – Straighten or immerse chemical tube.
6. **Metering tip or metering tip holder clogged** – Clean or replace metering tip and/or metering tip holder.
7. **Debris clogging air inlet(s) of fogger** – Disconnect air supply and visually inspect; remove debris from fogger inlet(s).
8. **Too much moisture in airline** – Install a condensate separator.
9. **Drawing too much solution** – Install metering tip(s).

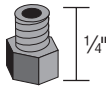
# PORTABLE 4-WAY FOGGERS

Drawing not "to scale".

**4-Way Fogger Assembly**  
(Pre-Assembled)

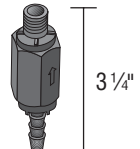


**\*METERING TIPS**  
Part # 443793 – 5 Smallest  
Part # 443794 – Set of 10  
For regulating chemical solution flow.



Metering tips can also be ordered individually by color. (See chart, back page.)

**CHEMICAL CHECK VALVE**  
Part # 491402



(In place of Metering Tip Holders)  
For use in instances where it is necessary to keep the chemical tube primed.

CALL #	QTY.	PART #	DESCRIPTION
1	1	257362	ELBOW, 90°, NPB, 1/2"
2	2	429865	NIPPLE, SS, 1/2" x 32"
3	1	506675	COUPLING, NPB, 1/2
4	1	223505	FOGGER HUB, SS, 4-WAY, PORTABLE
5	4	257604	ELBOW, ST., 45°, NPB, 1/4"
6	2	429704	NIPPLE, SS, 1/4" x 2 1/2"
7	2	305216	BUSHING, NPB, 3/8" x 1/4"
8	2	413605	BALL VALVE, NPB, 1/4" FMB
9	2	429698	NIPPLE, NPB, REDUCING, 3/8" x 1/4"
10	4	214101	FOGGER BODY, PP, 1-WAY, 305
		214201	FOGGER BODY, PP, 1-WAY, 455
		214301	FOGGER BODY, PP, 1-WAY, 324
11	4	257379	ELBOW, ST., PP, 1/4"
12	4	491308	METERING TIP HOLDER
13	4	472009	TUBE, CHEMICAL, 1/4" x 9"
14	2	694497	TEE, PUSH LOCK, FOGGER
15	2	473010	TUBE, CHEMICAL, 1/4" x 10'
16	2	475100	WEIGHT, PVC, CHEMICAL TUBE, 1/4"
17	2	150115	STRAINER, CHEMICAL, HASTELLOY, 1/4"
NOT SHOWN	1	709120	TANK, PP, 20 GALLON, VERTICAL, WHITE
	1	709283	CART ASSEMBLY, SS, PORTABLE FOGGER 5 GAL
	1	709326	CART ASSEMBLY, SS, PORTABLE FOGGER 20 GAL
	2	708600	TIRE, PLASTIC, 8" (REPLACEMENT – 5 GAL)
	2	708605	TIRE, SOLID RUBBER, 10" (REPLACEMENT – 20 GAL)

# FOGGER AIR CFM CHART

## 305 FOGGER

Produce medium fog particles and project a lighter, "damp" mist up to 25 feet.

## 324 FOGGER

Produce large fog particles and project a dense, "wet" mist up to 30 feet.

## 455 FOGGER

Produce small fog particles and project a fine, "dry" fog up to 35 feet.

### COMPRESSED AIR FLOW IN CFM

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	11.3	14.8	18.0
4-WAY	22.5	29.5	36.0

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	22.5	30.0	36.5
4-WAY	45.0	60.0	73.0

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	27.0	35.0	42.0
4-WAY	54.0	70.0	84.0

# CHEMICAL SOLUTION DRAW RATE CHART

The numbers below represent the average ounces of chemical solution per minute that each fogger will draw.

## 305 FOGGER

## 324 FOGGER

## 455 FOGGER

### FOGGER 80" ABOVE CHEMICAL

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	15.8	19.7	21.7
4-WAY	31.6	39.5	43.3

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	21.1	22.8	20.7
4-WAY	42.3	45.6	41.4

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	20.6	24.0	27.2
4-WAY	41.0	48.0	54.0

### FOGGER 65" ABOVE CHEMICAL

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	18.7	22.1	24.1
4-WAY	37.4	44.2	48.2

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	20.1	27.1	31.0
4-WAY	40.1	54.3	62.1

MODEL	60 PSI	80 PSI	100 PSI
2-WAY	23.7	26.0	29.0
4-WAY	47.0	52.0	58.0

### OPTIONAL METERING TIP SELECTION IN OUNCES PER MINUTE (AVERAGE)

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.

COLOR	Brown	Clear	Bright Purple	White	Pink	Corn Yellow	Dark Green	Orange	Gray	Light Green
Thin Chemical	0.84	1.16	1.4	2.0	2.7	3.4	4.0	5.3	6.1	7.0

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