

# LAFFERTY EQUIPMENT MFG., INC.

## INSTALLATION / OPERATION INSTRUCTIONS

# PUMP FED FOAMER

### Requirements

- 40 – 150 PSI Solution — Up to 3 GPM per unit
- 40 – 100 PSI Air — Up to 12 SCFM
- 3/4" I. D. Discharge Hose

**Model # 919250, PFPB Foamer**  
(Poly Body, Nickel-Plated Brass Fittings)

**Model # 919255, PFPS Foamer**  
(Poly Body, Stainless Steel Fittings)

**Model # 919260, PFSS Foamer**  
(Stainless Steel Body and Fittings)

### TO INSTALL

1. **Standard Pump Fed Foamer is provided without a solution strainer. Flush lines before use and/or install optional solution strainer or equivalent.** Mount the foamer(s) to a suitable surface.
2. Connect your premixed solution\* and air lines to the Pump Fed Foamer. [\*Dosatron proportional liquid dispensers or double diaphragm air pumps work well with this unit.]
3. Connect the foam hose to the foamer and secure with the clamp. **[Foam hose must be 3/4" I.D.]**
4. Connect the foam wand assembly to the hose. **[Use only the 50250 nozzle supplied with foamer. If your solution pressure exceeds 100 PSI remove the discharge ball valve.]**

### TO FOAM

1. While firmly holding foam wand ***point the discharge away from yourself and others.*** Then, open the discharge ball valve. Open the solution ball valve and the air ball valve and begin foaming.
2. Observe foam quality. Consistency can be changed by adjusting air pressure and/or chemical concentration.

#### AIR REGULATION PROCEDURES

Air pressure is very important for proper operation; air pressure must be LOWER than solution pressure. Pull out adjustment knob on **air regulator**, then turn it *slowly clockwise* to increase air pressure until desired foam consistency is achieved. Make only slight adjustments, then wait to see the results. If the flow of foam surges and/or hose “bucks” you must decrease the air pressure by *slightly* turning the regulator **counterclockwise** until the foam stabilizes. “Fine tune” your adjustments by making *slight* turns **clockwise and/or counterclockwise** until foam is desired consistency. Once adjustments are made, push lock **air regulator**.

3. Foam from the bottom and work up to prevent streaking.
4. When foaming is completed, close the optional discharge ball valve. Return to foamer and close the solution ball valve. Then slowly re-open the discharge valve. Expect a strong blast of foamy solution. After hose is cleared out, close the air valve and store the hose.

**CAUTION: Shut down after each use! Never leave foamer unattended without closing the incoming solution and air valves and relieving pressure in the hose.**

PROBLEMS	POSSIBLE CAUSE / SOLUTION												
	1	2	3	4	5	6	7	8	9	10	11	12	13
A) Poor foam quality and/or hose “bucks.”	•	•	•	•		•	•	•	•	•	•		•
B) Foam output too wet.		•	•	•	•	•	•	•	•	•	•		•
C) Foam output too dry.	•			•									
D) Foam does not clean properly.										•	•	•	
E) Chemical solution backing up into air line.					•								

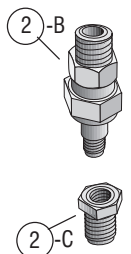
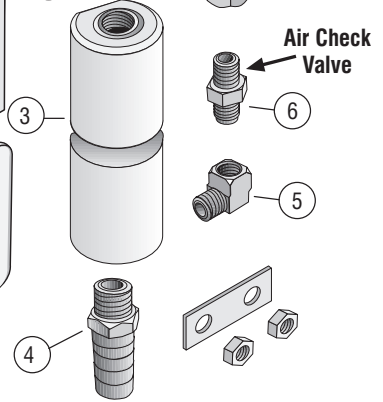
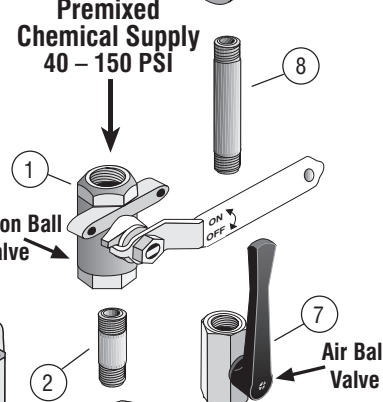
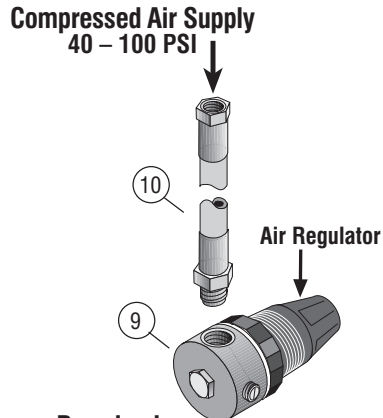
### POSSIBLE CAUSE / SOLUTION

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <b>Air pressure too high for available solution pressure</b> – Adjust the air regulator slowly counterclockwise.</li> <li>2. <b>Use of an oiler on the airline will cause poor foam quality</b> – Use only clean, <b>dry</b> air.</li> <li>3. <b>Inadequate air supply</b> – Open air inlet valve fully. Adjust air regulator slowly clockwise.</li> <li>4. <b>Air regulator clogged or failed</b> – Clean or replace the air regulator.</li> <li>5. <b>Air check valve clogged or failed</b> – Clean or replace the air check valve.</li> <li>6. <b>Foam hose too long or wrong size or kinked; must be 3/4" I.D.</b> – Maximum <b>recommended</b> length is 75'. Straighten the hose.</li> <li>7. <b>Nozzle size too small</b> – Must be a 50250 nozzle.</li> </ol> | <ol style="list-style-type: none"> <li>8. <b>Solution and/or optional discharge ball valves not completely open</b> – Completely open the solution and discharge ball valves.</li> <li>9. <b>Foamer inlet or optional strainer element clogged</b> – Clean the foamer inlet or the solution strainer element.</li> <li>10. <b>Improper chemical</b> – Ensure product is recommended for foaming and/or the application.</li> <li>11. <b>Weak chemical solution or solution pressure too low (minimum of 35 PSI)</b> – Increase chemical concentration and/or pressure.</li> <li>12. <b>Soil has hardened on surface</b> – Reapplication may be necessary. Always rinse foam <b>before</b> it dries.</li> <li>13. <b>Chemical build-up may have formed in the foamer, restricting solution flow</b> – Carefully remove body and soak <i>entire</i> foamer body in hot water and/or descaling acid.</li> </ol> |
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# PFPB, PFPS and PFSS PUMP FED FOAMERS PARTS LIST

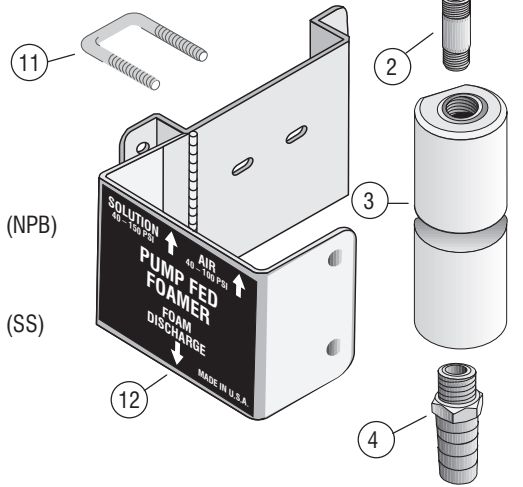
QTY.	CALL #	DESCRIPTION	PART #
1	1	BALL VALVE, SS, 3/8"	413659 . . . .PFPB & PFSS
(NOT SHOWN)		BALL VALVE, NPB, 3/8" FF(A)	413623 . . . .PFPB
1	2	NIPPLE, SS, 3/8" x 1 1/2"	429711
1	3	FOAMER BODY, PUMP FED	212146 . . . .PFPS & PFPB
(NOT SHOWN)		FOAMER BODY, PUMP FED, SS	212148 . . . .PFSS
1	4	HOSE BARB, 3/4" x 1/2" MPT	119281
1	5	ELBOW, ST., 1/4"	257378
1	6	CHECK VALVE, AIR, SS, 1/4"	491306 . . . .PFPS & PFSS
(NOT SHOWN)		CHECK VALVE, AIR, NPB, 1/4"	491302 . . . .PFPB
1	7	BALL VALVE, 1/4" FFL	413603
1	8	NIPPLE, SS, 1/4" x 2 1/2"	429704
1	9	REGULATOR, AIR, 1/4"	288360
1	10	HOSE, AIR, 1/4" x 24"	195182
1	11	U-BOLT ASSEMBLY, # 6 SQUARE	392486
1	12	BASE & COVER, STANDARD HINGED	222111
1	13	NOZZLE, 1/2", 50250	180152
1	14	HOSE CLAMP, 3/4"	134306
1	15	HOSE, 3/4" x 50', 1/2" MPT	801242
1	16	BALL VALVE, NPB, 1/2" FM(A)	413641
(NOT SHOWN)		BALL VALVE, SS, 1/2"	413671
(NOT SHOWN)		NIPPLE, SS, CLOSE, 1/2"	429742
1	17	FOAM WAND, POLY, FOAM/SANITIZE	536603

These items are optional.



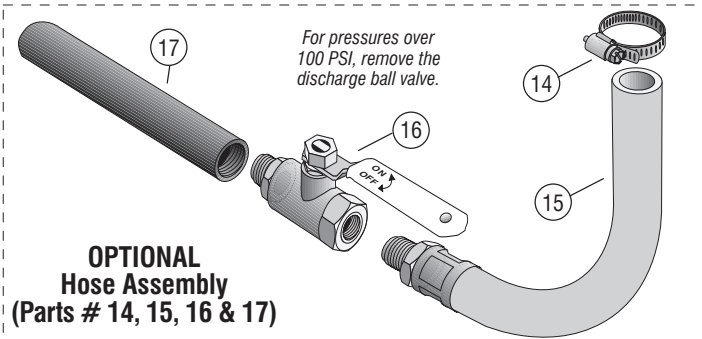
**OPTIONAL SOLUTION STRAINER**  
(in place of standard part #2)

- |    |   |
|----|---|
|    | PFPB  |
| 2B | #150240, Inline Solution Strainer Ass'y (NPB) |
| 2C | #305212, Bushing, NPB, 3/8" x 1/8"            |
|    | PFPS and PFSS                                 |
| 2B | #150245, Inline Solution Strainer Ass'y (SS)  |
| 2C | #305230, Bushing, SS, 3/8" x 1/8"             |



**Foam Nozzle** → (part 13)  
For proper operation, use ONLY the 50250 nozzle supplied with your Pump Fed Foamer.

**OPTIONAL**  
(Not Shown)  
Stainless Steel Hose Rack -  
Part # 224150



For pressures over 100 PSI, remove the discharge ball valve.

**OPTIONAL Hose Assembly**  
(Parts # 14, 15, 16 & 17)

- #802505, 3/4" x 50' hose assy. w/ open flow wand - #s 14, 15, & 17
- #802510, 3/4" x 50' hose assy. w/ nickel-plated ball valve and foam wand - #s 14, 15, 16, & 17
- #802515, 3/4" x 50' hose assy. w/ stainless steel ball valve and foam wand) - #s 14, 15, 16, & 17

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**Made in the USA**

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