

**LAFFERTY EQUIPMENT MFG., INC.  
INSTALLATION / OPERATION INSTRUCTIONS**

**37.4 GALLON  
INTERNAL CHEMICAL TANK FOAMER**

**Requirements**

40 – 80 PSI Air — Up to 10 SCFM  
3/4" I. D. Discharge Hose

**Water Temperature**

Ambient to 140° F



**Model # 925937, 37.4 Gallon Internal Chemical Tank Foamer  
(with 40' hose, ball valve, wand, and nozzle)**

**Ask about our *External Chemical Tank Foamers* for use  
with highly corrosive chemicals.**

# INSTALLATION AND OPERATION INSTRUCTIONS

## 37.4 GALLON

### INTERNAL CHEMICAL TANK FOAMER

**CAUTION: ALWAYS OBSERVE GOOD SAFETY HABITS. WEAR PROTECTIVE CLOTHING, GLOVES, AND EYE WEAR. DIRECT DISCHARGE AWAY FROM YOURSELF AND OTHERS.**

**DO NOT USE ANY CHEMICALS THAT ARE NOT COMPATIBLE WITH 316 STAINLESS STEEL — including hydrochloric (muriatic) acid, hydrofluoric acid, aluminum brighteners, or paint strippers. MANUFACTURER ASSUMES NO LIABILITY FOR USE OR MISUSE OF THIS UNIT.**

#### **TO OPERATE (See Parts Diagram, Facing Page)**

1. Pull wire handle up to unlock the tank lid. Then remove the lid from the tank, making sure the “O” ring remains attached. Fill tank with chemical solution, then replace the tank lid, *making sure the “O” ring seats properly*. Lock wire handle in place.
2. Make sure the air ball valve is closed. Connect a compressed air line (3/8" minimum) to the foamer.
3. Next, make sure the discharge ball valve on the foam hose assembly is closed.
4. Open the air ball valve. **Allow time for pressure to build up, approximately 20 – 30 seconds.**
5. While firmly holding the foam wand, ***point the discharge away from yourself and others.*** Then, open the discharge ball valve. Observe foam quality.
6. The tank pressure air regulator (top) comes preset at 60 PSI and the foam consistency air regulator (bottom) comes preset at approximately 30 PSI. Foam consistency can be changed by adjusting the air pressure with the bottom air regulator.

#### **AIR REGULATION PROCEDURES**

Air pressure is very important for proper operation; air pressure must be LOWER than tank water pressure. Pull out adjustment knob on **bottom air regulator**, and 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**.

7. To prevent streaking, apply foam in a thin layer from the bottom and work up.

8. When foaming is completed, close the ball valve on the foam hose assembly; store hose on rack.

9. **Rinse before the foam dries.**

#### **TO SHUT DOWN OR REFILL TANK**

1. Turn off the air supply by closing the air ball valve.
2. Pull the ring on the pop-off relief valve up to **relieve tank pressure completely**. Then, open the discharge ball valve to relieve pressure on the hose.
3. Store unit or refill tank with chemical solution.
4. To refill the tank, pull wire handle up to unlock tank lid *after completely relieving tank pressure*. Then remove the lid from the tank making sure “O” ring remains attached. Fill tank with chemical solution, then replace the tank lid, making sure the “O” ring seats properly. Lock wire handle in place.

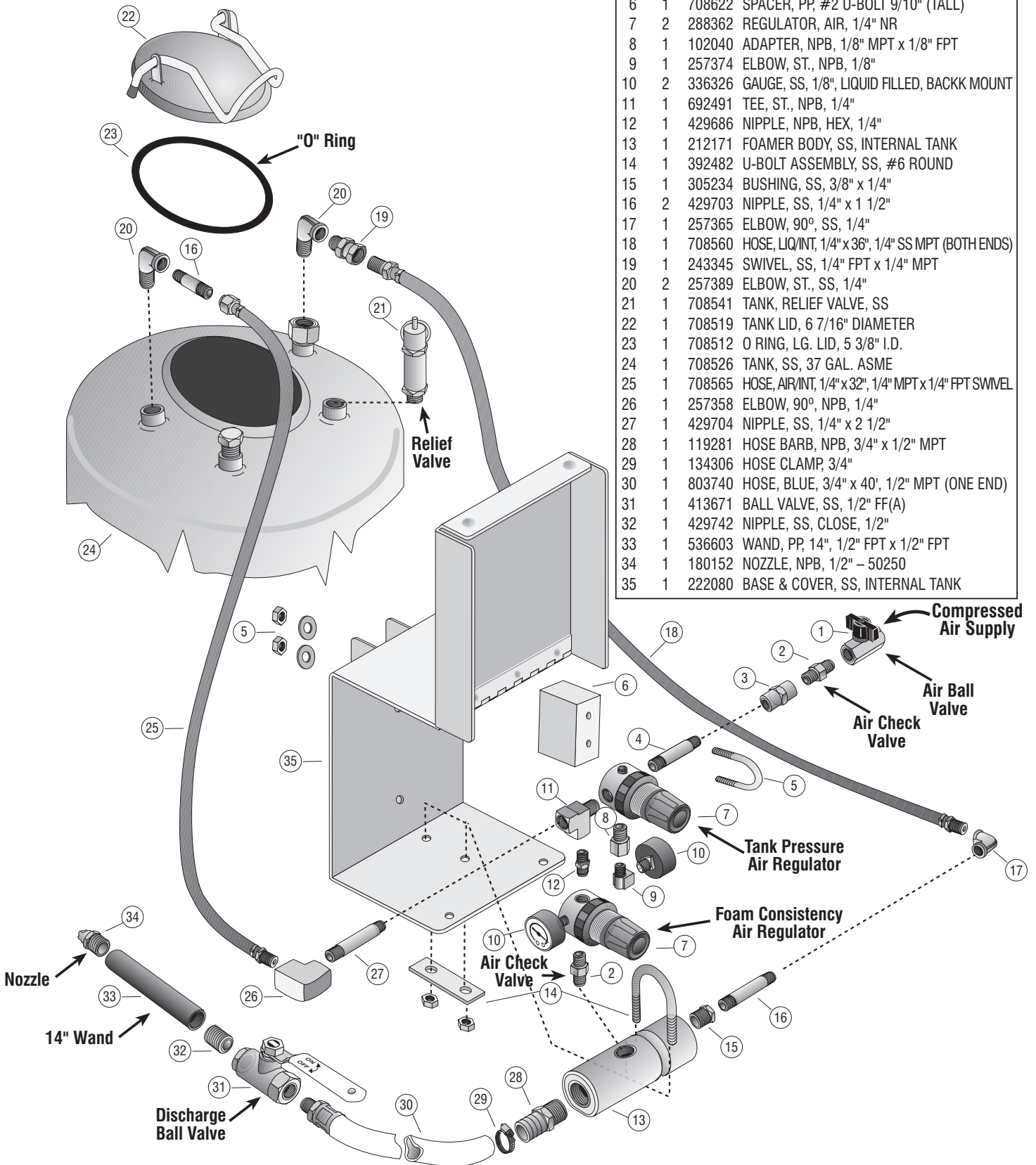
**NOTE:** Perform preventive maintenance when the unit will be out of service for extended periods. **When using corrosive chemicals, empty tank of any remaining chemical solution, then partially fill tank with clear water, recharge the tank with air, open discharge ball valve, and flush the entire system before storing.**

## **CAUTION!**

**SHUT DOWN AFTER EACH USE!  
NEVER LEAVE FOAMER UNATTENDED  
WITHOUT CLOSING THE AIR BALL  
VALVE AND RELIEVING PRESSURE IN  
THE HOSE.**

# 37.4 GAL INTERNAL CHEMICAL TANK FOAMER - MODEL # 925937

Drawing not to scale



SQ#	QTY.	PART #	DESCRIPTION
1	1	413602	BALL VALVE, NPB, 1/4" FFB
2	2	491306	CHECK VALVE, AIR, SS, 1/4"
3	1	506668	COUPLING, NPB, 1/4"
4	1	429702	NIPPLE, SS, 1/4" x 2"
5	1	392478	U-BOLT ASSEMBLY, SS, #2 LONG
6	1	708622	SPACER, PP, #2 U-BOLT 9/10" (TALL)
7	2	288362	REGULATOR, AIR, 1/4" NR
8	1	102040	ADAPTER, NPB, 1/8" MPT x 1/8" FPT
9	1	257374	ELBOW, ST., NPB, 1/8"
10	2	336326	GAUGE, SS, 1/8", LIQUID FILLED, BACK MOUNT
11	1	692491	TEE, ST., NPB, 1/4"
12	1	429686	NIPPLE, NPB, HEX, 1/4"
13	1	212171	FOAMER BODY, SS, INTERNAL TANK
14	1	392482	U-BOLT ASSEMBLY, SS, #6 ROUND
15	1	305234	BUSHING, SS, 3/8" x 1/4"
16	2	429703	NIPPLE, SS, 1/4" x 1 1/2"
17	1	257365	ELBOW, 90°, SS, 1/4"
18	1	708560	HOSE, LIQ/INT, 1/4" x 36', 1/4" SS MPT (BOTH ENDS)
19	1	243345	SWIVEL, SS, 1/4" FPT x 1/4" MPT
20	2	257389	ELBOW, ST., SS, 1/4"
21	1	708541	TANK, RELIEF VALVE, SS
22	1	708519	TANK LID, 6 7/16" DIAMETER
23	1	708512	O RING, LG. LID, 5 3/8" I.D.
24	1	708526	TANK, SS, 37 GAL. ASME
25	1	708565	HOSE, AIR/INT, 1/4" x 32', 1/4" MPT x 1/4" FPT SWIVEL
26	1	257358	ELBOW, 90°, NPB, 1/4"
27	1	429704	NIPPLE, SS, 1/4" x 2 1/2"
28	1	119281	HOSE BARB, NPB, 3/4" x 1/2" MPT
29	1	134306	HOSE CLAMP, 3/4"
30	1	803740	HOSE, BLUE, 3/4" x 40', 1/2" MPT (ONE END)
31	1	413671	BALL VALVE, SS, 1/2" FF(A)
32	1	429742	NIPPLE, SS, CLOSE, 1/2"
33	1	536603	WAND, PP, 14", 1/2" FPT x 1/2" FPT
34	1	180152	NOZZLE, NPB, 1/2" - 50250
35	1	222080	BASE & COVER, SS, INTERNAL TANK

# TROUBLESHOOTING GUIDE

*for*

## 37.4 GALLON INTERNAL CHEMICAL TANK FOAMER

PROBLEMS WITH FOAMER	POSSIBLE CAUSE / SOLUTION											
	1	2	3	4	5	6	7	8	9	10	11	12
A) Foam surges and/or hose “bucks.”	•	•	•	•		•	•	•	•	•	•	
B) Foam output too wet.		•	•	•	•	•	•	•		•	•	
C) Foam output too dry.	•			•								
D) Foam does not clean properly.										•	•	•

### POSSIBLE CAUSE / SOLUTION

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. <b>Air pressure too high for available tank solution pressure</b> – Adjust the <b>bottom</b> air regulator slowly counterclockwise.</li> <li>2. <b>Use of an oiler in the airline will cause poor foam quality</b> – Use only <b>clean, dry</b> air.</li> <li>3. <b>Air adjustment too low</b> – Open air ball valve fully. Adjust <b>bottom</b> air regulator slowly clockwise.</li> <li>4. <b>Air regulator(s) clogged or failed</b> – Clean or replace air regulator(s).</li> <li>5. <b>Air check valve(s) clogged or failed</b> – Clean or replace the air check valve(s).</li> <li>6. <b>Foam hose too long or wrong size or kinked; must be 3/4" I.D.</b> – Supplied with 40' hose. Maximum <b>recommended</b> length is 75'.</li> </ol> | <ol style="list-style-type: none"> <li>7. <b>Nozzle size too small</b> – Must be a 50250 nozzle.</li> <li>8. <b>Discharge ball valve not completely open</b> – Completely open the discharge ball valve.</li> <li>9. <b>Tank is empty (no solution)</b> – Follow refill tank procedure (pg. 3).</li> <li>10. <b>Improper chemical</b> – Ensure product is recommended for foaming and/or the application.</li> <li>11. <b>Weak chemical solution</b> – Increase chemical concentration.</li> <li>12. <b>Soil has hardened on surface</b> – Reapplication may be necessary. Always rinse foam <b>before</b> it dries.</li> </ol> |
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