

LAFFERTY EQUIPMENT MFG., INC. INSTALLATION / OPERATION INSTRUCTIONS

5 GALLON AND 16 GALLON INTERNAL CHEMICAL TANK FOAMERS

Requirements

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

Water Temperature

Ambient to 140° F



Model # 925905, 5 Gallon Internal Chemical Tank Foamer

Model # 925916, 16 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

5 GALLON AND 16 GALLON

INTERNAL CHEMICAL TANK FOAMERS

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

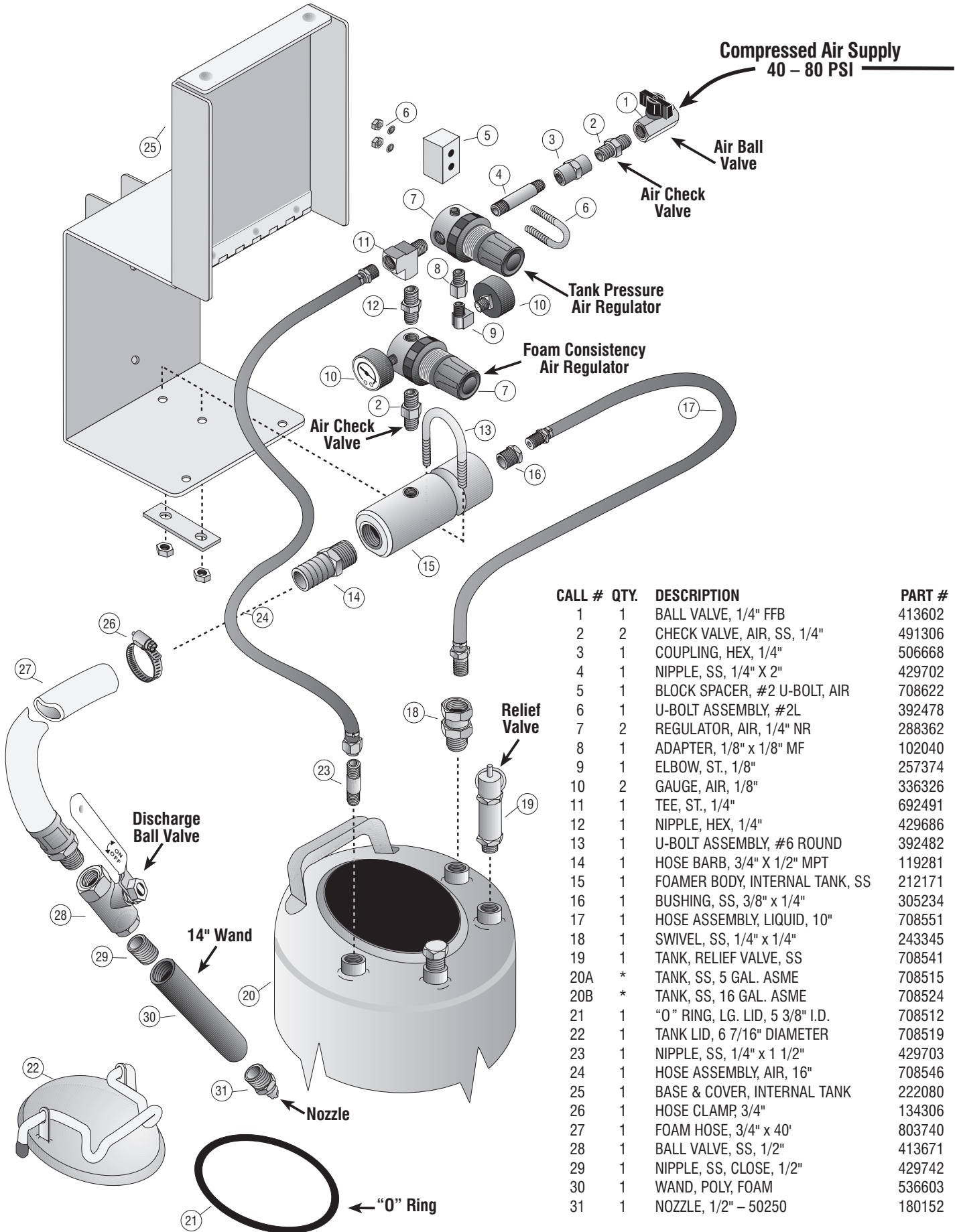
1. Turn off the air supply by closing the air ball valve.
2. Pull the ring on the pop-off relief valve up to **relieve tank pressure completely**. Then, open the discharge ball valve to relieve pressure on the hose.
3. Store unit or refill tank with chemical solution.
4. To refill the tank, pull wire 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.**

5 GAL. AND 16 GAL. INTERNAL CHEMICAL TANK FOAMERS



CALL #	QTY.	DESCRIPTION	PART #
1	1	BALL VALVE, 1/4" FFB	413602
2	2	CHECK VALVE, AIR, SS, 1/4"	491306
3	1	COUPLING, HEX, 1/4"	506668
4	1	NIPPLE, SS, 1/4" X 2"	429702
5	1	BLOCK SPACER, #2 U-BOLT, AIR	708622
6	1	U-BOLT ASSEMBLY, #2L	392478
7	2	REGULATOR, AIR, 1/4" NR	288362
8	1	ADAPTER, 1/8" x 1/8" MF	102040
9	1	ELBOW, ST., 1/8"	257374
10	2	GAUGE, AIR, 1/8"	336326
11	1	TEE, ST., 1/4"	692491
12	1	NIPPLE, HEX, 1/4"	429686
13	1	U-BOLT ASSEMBLY, #6 ROUND	392482
14	1	HOSE BARB, 3/4" X 1/2" MPT	119281
15	1	FOAMER BODY, INTERNAL TANK, SS	212171
16	1	BUSHING, SS, 3/8" x 1/4"	305234
17	1	HOSE ASSEMBLY, LIQUID, 10"	708551
18	1	SWIVEL, SS, 1/4" x 1/4"	243345
19	1	TANK, RELIEF VALVE, SS	708541
20A	*	TANK, SS, 5 GAL. ASME	708515
20B	*	TANK, SS, 16 GAL. ASME	708524
21	1	"O" RING, LG. LID, 5 3/8" I.D.	708512
22	1	TANK LID, 6 7/16" DIAMETER	708519
23	1	NIPPLE, SS, 1/4" x 1 1/2"	429703
24	1	HOSE ASSEMBLY, AIR, 16"	708546
25	1	BASE & COVER, INTERNAL TANK	222080
26	1	HOSE CLAMP, 3/4"	134306
27	1	FOAM HOSE, 3/4" x 40'	803740
28	1	BALL VALVE, SS, 1/2"	413671
29	1	NIPPLE, SS, CLOSE, 1/2"	429742
30	1	WAND, POLY, FOAM	536603
31	1	NOZZLE, 1/2" - 50250	180152

TROUBLESHOOTING GUIDE

for

5 GALLON AND 16 GALLON INTERNAL CHEMICAL TANK FOAMERS

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

- Air pressure too high for available tank solution pressure** – Adjust the **bottom** air regulator slowly counterclockwise.
- Use of an oiler on the airline will cause poor foam quality** – Use only clean, **dry** air.
- Inadequate air supply** – Open air inlet valve fully. Adjust **bottom** air regulator slowly clockwise.
- Air regulator(s) clogged or failed** – Clean or replace air regulator(s).
- Air check valve(s) clogged or failed** – Clean or replace the air check valve(s).
- Foam hose too long or wrong size or kinked; must be 3/4" I.D.** – Supplied with 40' hose. Maximum **recommended** length is 75'.
- Nozzle size too small** – Must be a 50250 nozzle.
- Discharge ball valve not completely open** – Completely open the discharge ball valve.
- Tank is empty (no solution)** – Follow refill tank procedure (pg. 3).
- Improper chemical** – Ensure product is recommended for foaming and/or the application.
- Weak chemical solution** – Increase chemical concentration.
- Soil has hardened on surface** – Reapplication may be necessary. Always rinse foam **before** it dries.

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