NON-PRESSURIZED TANK FOAMER

SAFE FOODS™
CHEMICAL INNOVATIONS

1501 E 8TH ST • NORTH LITTLE ROCK, AR 72114 • 1-608-568-5841

NON-PRESSURIZED TANK FOAMER
QUICK START GUIDE

This quick start guide will walk through basic operation of the Non-Pressurized Tank Foamer.

SAFETY

As with any equipment of this type, when electricity and chemicals are involved. Always ensure proper Personal Protective Equipment is worn at all times when operating all.

CAUTION

- Do not remove hose from pump box without releasing all pressure from hose.
- Hose may be under pressure if ball valve on wand is closed during normal operation. If ball valve is closed during operation, slowly open ball valve to continue foaming.

INITIAL STARTUP

- Connect air supply to front of the tank foamer. MAX working pressure 125psi.

- Open filler cap. Use the handle to lift the lid up, to open fill port. Lid can be locked when in use as well. (Pictured is closed position)

- Open tank fill valve at front of unit. (Pictured is closed position)

- Start filling tank through filler neck with water until water starts to trickle out of fill valve.
  - This will indicate the tank is filled to 45 gallons of water to ensure correct titrations.
  - Leaving 4 gallons to add chemical.
- Close fill valve at front of tank.
- Close Fill lid on tank
- Rotate Ball valve counterclockwise into Recircposition and turn on sir supply.

  - Once air supply is turned on, this will start recirculating the water in the tank.
- Add chemical mixture.
  - For complete mixture let tank foamer recirculate for approximately 10 minutes.
- Shut off air supply after recirculation is complete.
- Rotate ball valve clockwise into “Foam” position.

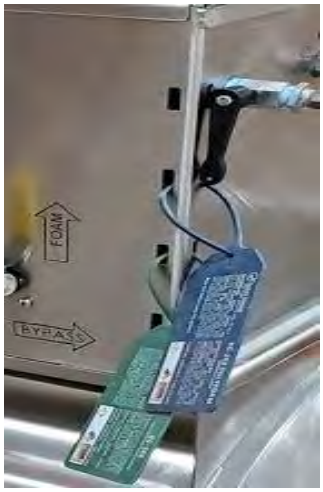
- Make sure front ball valve is also in “Foam” position

- Open ¾” ball valve on front of pump box.
- Open ball valve at end of hose.
- Turn on air supply, wait until mixture flows from hose.
- Dial in foam quality.

- Under normal foaming conditions, one to two turns counterclockwise from closed position to achieve quality foam.

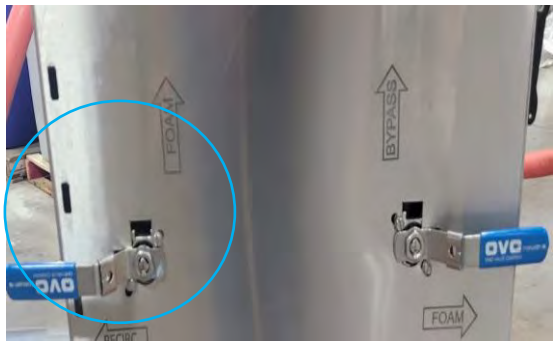
CHEMICAL TAG LOCATION

- On the front corner and back corner of the pump box, there are slotted locations for Jug Tags to be placed so they are easily visible.



RECIRCULATION

- While adding chemical through the fill port of the Tank Foamer, Recirc position is used to mix Chem while filling.
- Located on the right side of the Pump Box, there are two 3-way ball valves. Each position is labeled.
- To use the “Recirc” position rotate ball valved closest to push handle, counterclockwise so the leaver is following the “Recirc” arrow.



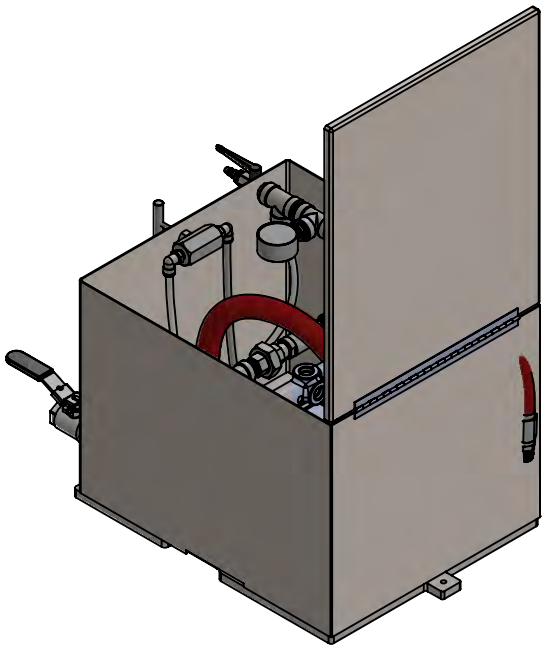
- With air supply connected start the Tank Foamer, and with the Recirc valve in position. Once air supply is turned on the unit will start to mix contents within the tank.
    - Note: Tank Foamer will not foam while in Recirc position. Approximately 10 min. of mixing to achieve complete circulation of tank.

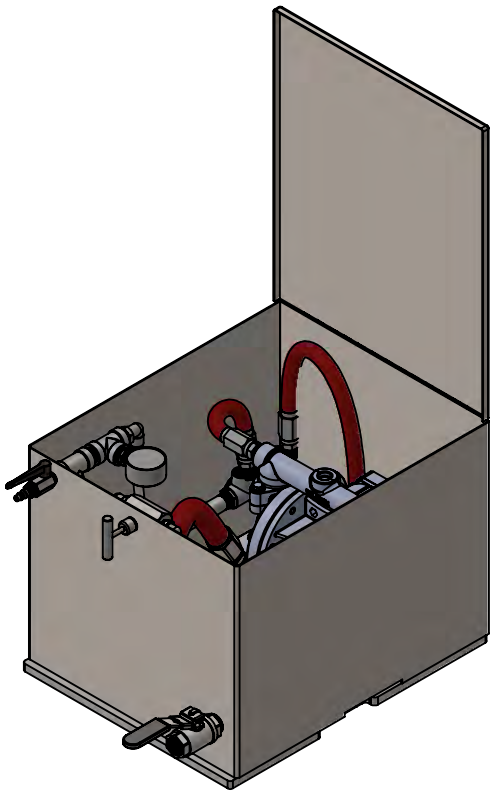
FOAMING BYPASS

- Foaming Bypass is designed to reach long distance areas for foaming. Chemical usage will increase while in foaming bypass position.
- Locate front foaming ball valve on right side of pump box.

    - Simply rotate ball valve to follow the “Bypass” arrow.

- Note: when Tank Foamer is in “Bypass” the Wet/Dry needle valve will need to be adjusted to four to five turns counterclockwise (Dry) from closed position. To compensated for the additional chemical mixture being supplied.





JOB:	Chem Water Piping	
	NAME	DATE
DRAWN		5/19/2022
CHECKED		

COMMENTS:
All Dims. + / - 0.100
All Angles + / - 4.000 Degrees

PROPRIETARY AND CONFIDENTIAL

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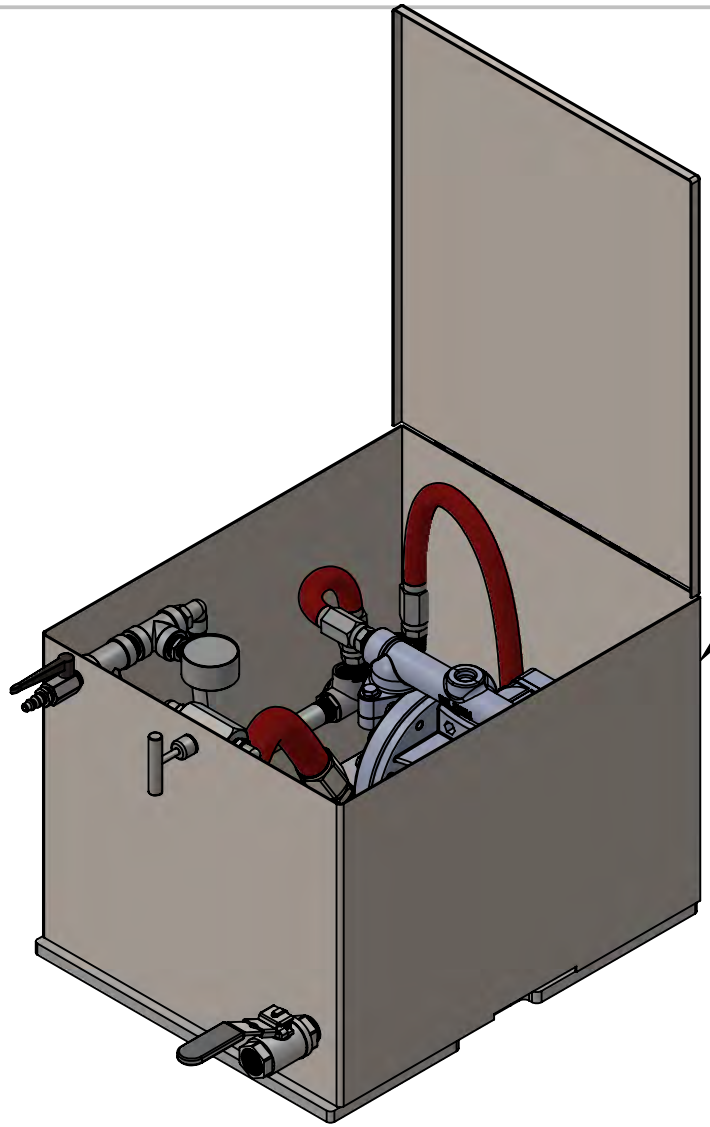
SAFE FOODS
CHEMICAL INNOVATIONS

SIZE	DWG. NO.	REV
A	21210-Kit - Non-Pressurized Pump Box 0.5in WD	

SCALE: 1:6 | WEIGHT: | SHEET 1of10



91210 - KIT - Non-Pressurized Pump Box 1/2" WD

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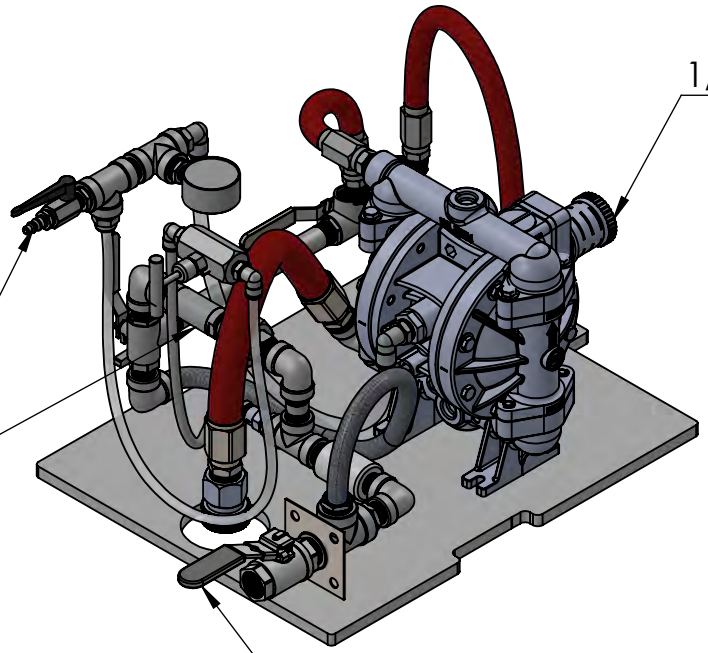
SIZE	DWG. NO.	REV
A	91210-Kit - Non-Pressurized Pump Box 0.5in WD	

SCALE: 1:6 | WEIGHT: | SHEET 2of10



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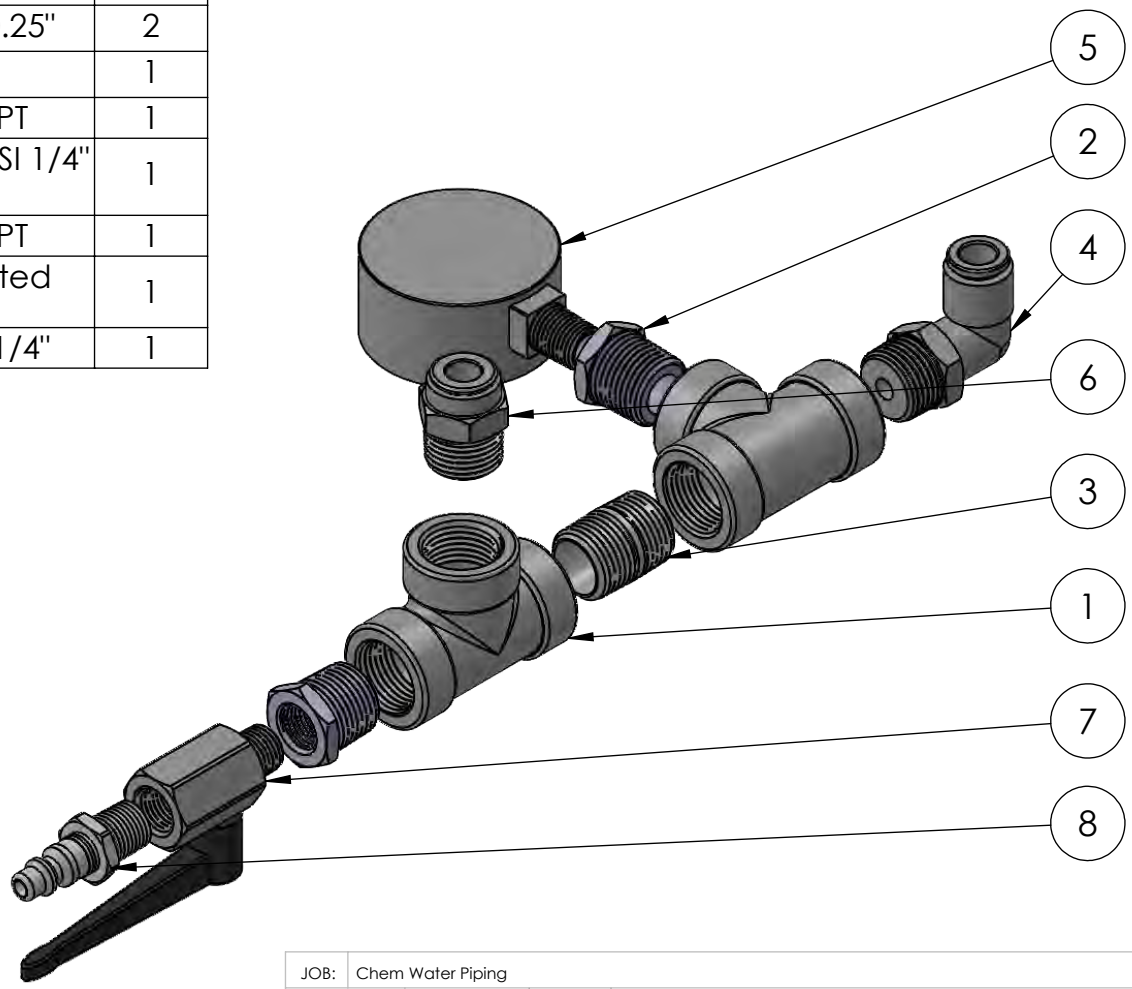
SIZE	DWG. NO.	REV
A	21210-Kit - Non-Pressurized Pump Box 0.5in WD	

SCALE: 1:6 | WEIGHT: | SHEET 3of10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96858	SS Tee 1/2"	2
2	96804	SS Hex Bushing 1/2" x 0.25"	2
3	96829	SS Nipple 1/2" x CL	1
4	92993	PF 1/2" Tube x 1/2" NPT	1
5	98149	SS Pressure Gauge 300 PSI 1/4" Lower Mount	1
6	93003	PF 3/8" Tube x 1/2" NPT	1
7	4912K82	Miniature Chrome-Plated Brass Ball Valve	1
8	96904	CPLG Air Chief 1/4" x 1/4"	1



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SAFE FOODS
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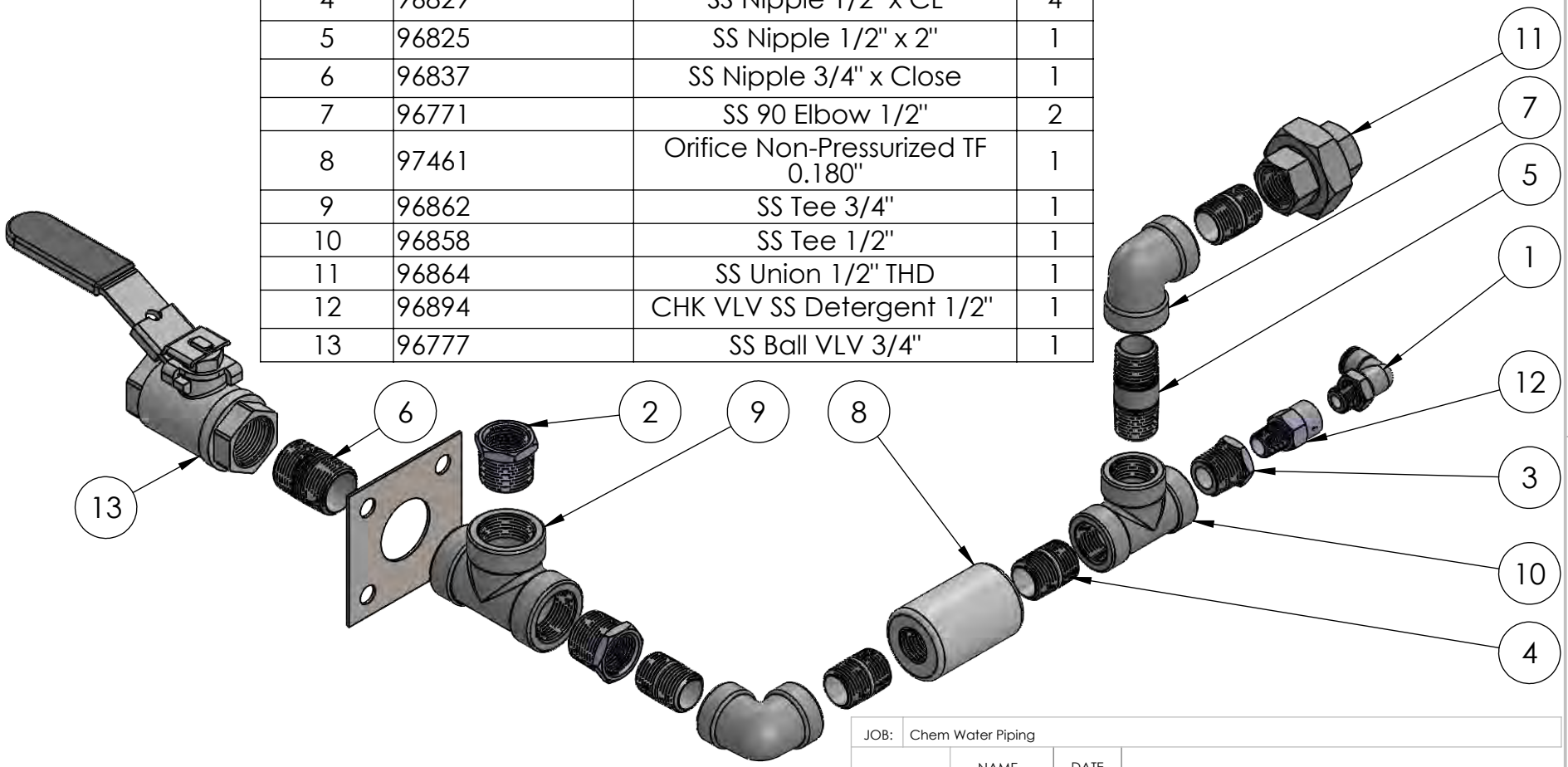
A	91210-Kit - Non-Pressurized Pump Box 0.5in WD	

SCALE: 1:6 | WEIGHT: | SHEET 4of10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	93013	PF 90 3/8" Tube 1/4" NPT	1
2	96809	SS Hex Bushing 3/4"x1/2"	2
3	96804	SS Hex Bushing 1/2" x 0.25"	1
4	96829	SS Nipple 1/2" x CL	4
5	96825	SS Nipple 1/2" x 2"	1
6	96837	SS Nipple 3/4" x Close	1
7	96771	SS 90 Elbow 1/2"	2
8	97461	Orifice Non-Pressurized TF 0.180"	1
9	96862	SS Tee 3/4"	1
10	96858	SS Tee 1/2"	1
11	96864	SS Union 1/2" THD	1
12	96894	CHK VLV SS Detergent 1/2"	1
13	96777	SS Ball VLV 3/4"	1



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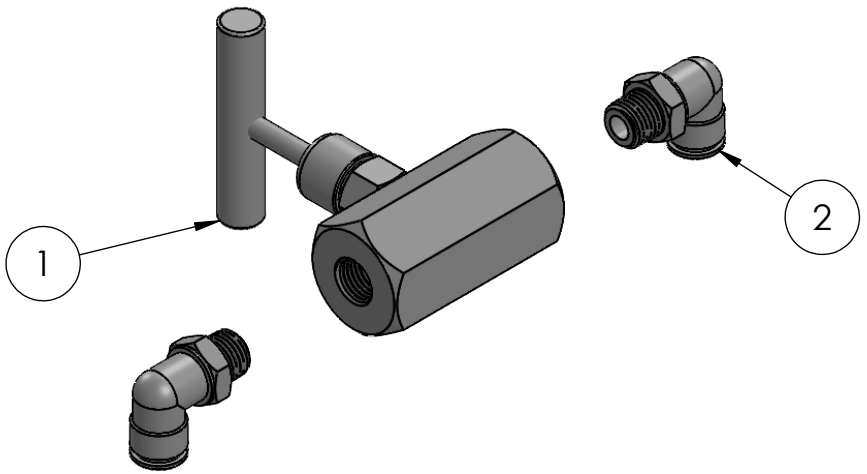
A	21210-Kit - Non-Pressurized Pump Box 0.5in WD	

SCALE: 1:6 | WEIGHT: | SHEET 5of10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	98168	SS 1/4" Needle Valve 5000 PSIG	1
2	93013	PF 90 3/8" Tube 1/4" NPT	2



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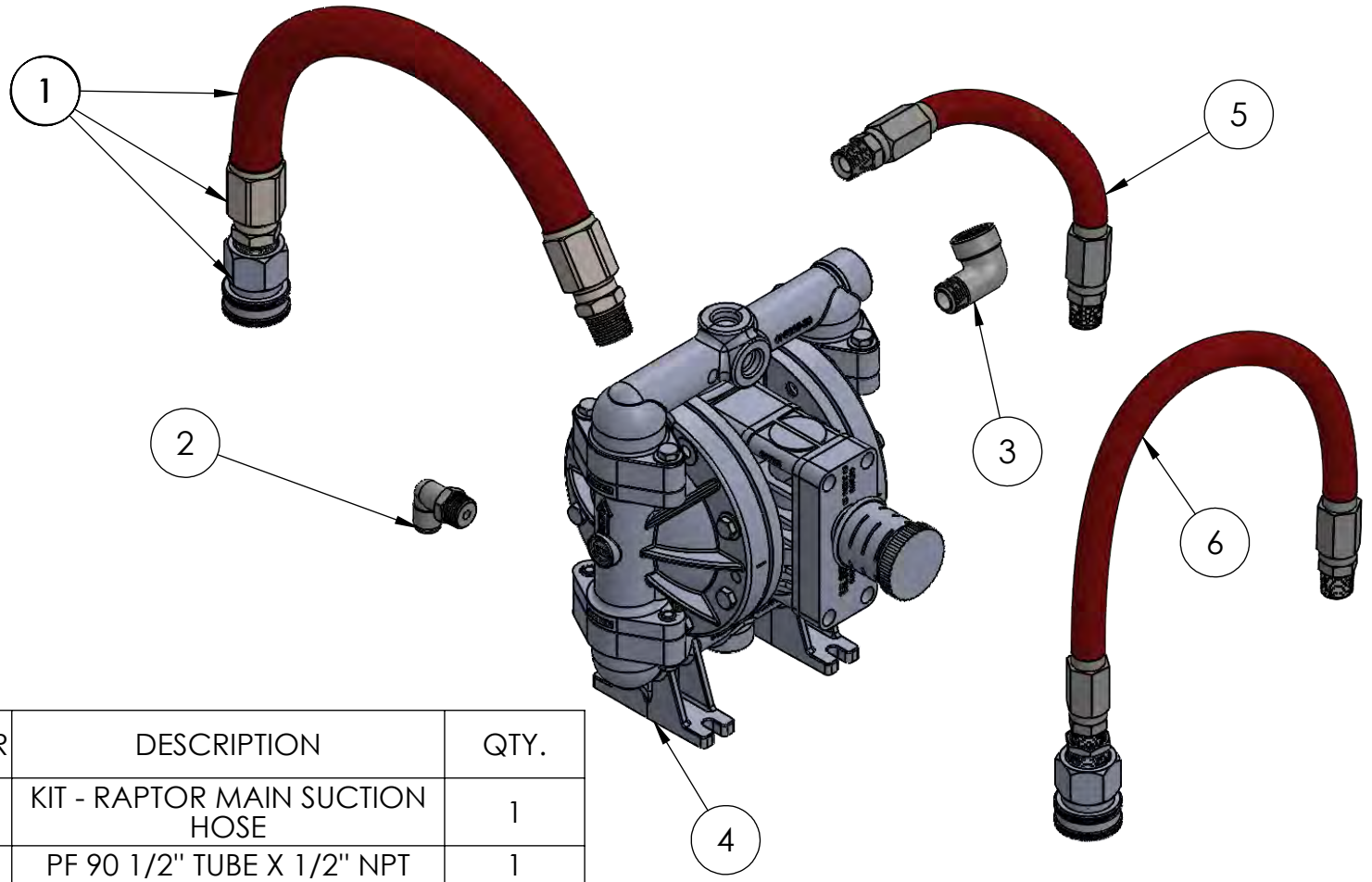

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	91268	KIT - RAPTOR MAIN SUCTION HOSE	1
2	92993	PF 90 1/2" TUBE X 1/2" NPT	1
3	98068	SS ST ELBOW 1/2"	1
4	91966	Pump P100 1/2"	1
5	91269	KIT - RAPTOR AOD TO 3 WAY VLV HOSE	1
6	91270	KIT - RAPTOR RECIRCULATION HOSE	1

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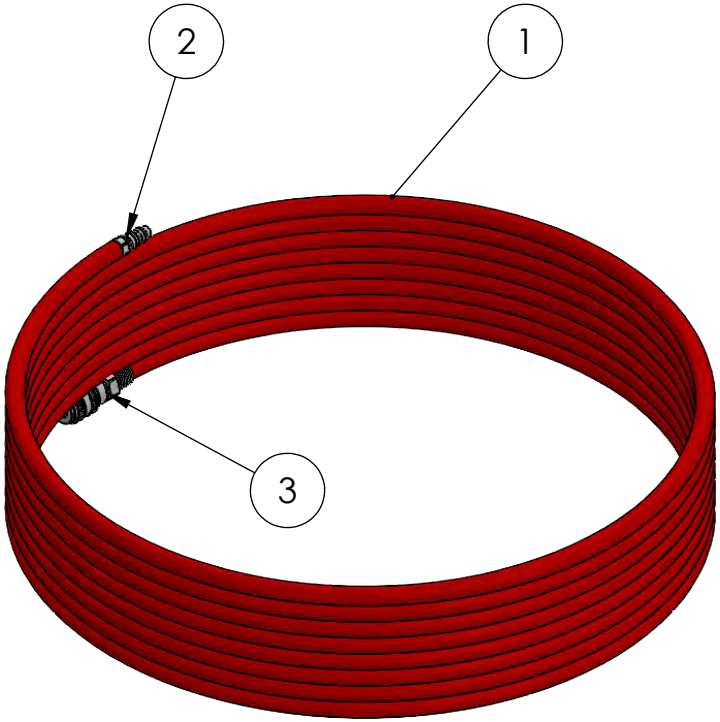
SCALE: 1:6 | WEIGHT: | SHEET 7of10



91009 KIT - Tank Foamer Air Hose

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	92505	Hose Air Red RBR 3/8"x50'	1
2	96904	CPLG Air Chief 1/4"x1/4"	1
3	96914	PLUG Air Chief 1/4"x1/4" FNPT	1

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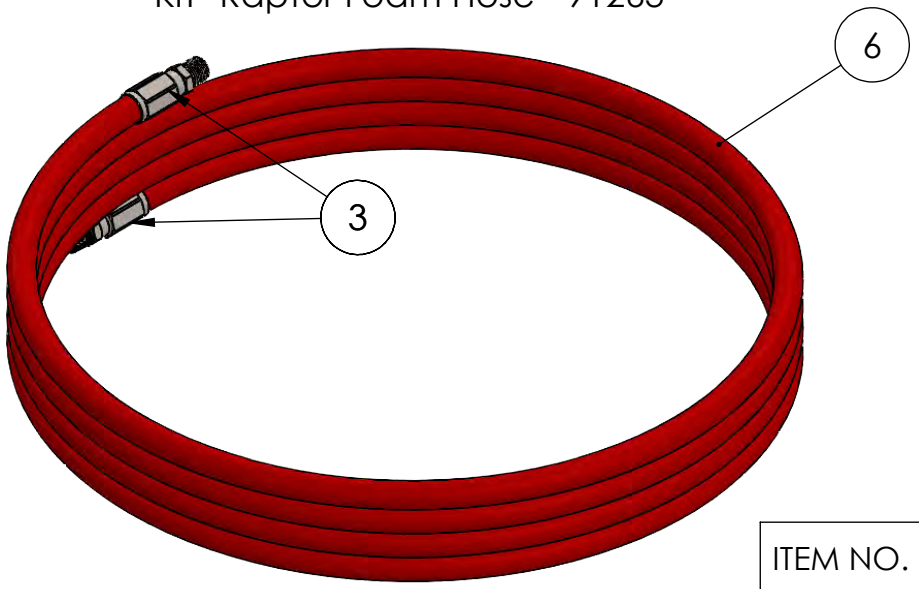
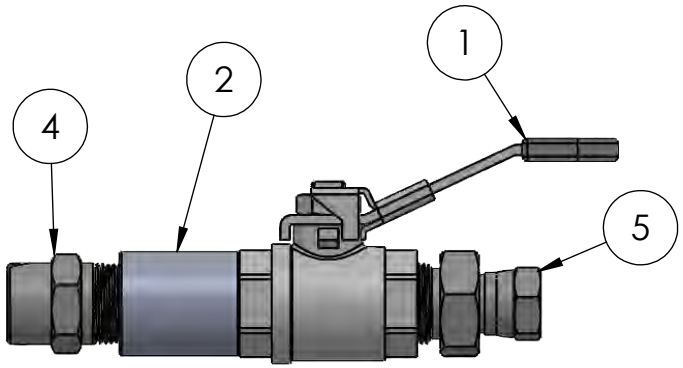
KIT- Raptor Foam Hose - 91263



Non-Pressurized Tank Foamer Hose Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	98173	LADD SS Ball VLV 3/4" FM Round	1
2	96791	SS CPLG 3/4"	1
3	97494	HOSE END-CRIMPED 5/8" TO 3/4" NPT MALE	2
4	92125	NOZZLE - 3/4" F40200	1
5	97472	SWIVEL ADAPTER 3/4" FEM NPT 3/4"MALE N	1
6	92572	HOSE W-FOOT RED 5/8" 300 PSI	83FT



KIT- Raptor Foam Hose Valve Assembly - 91264

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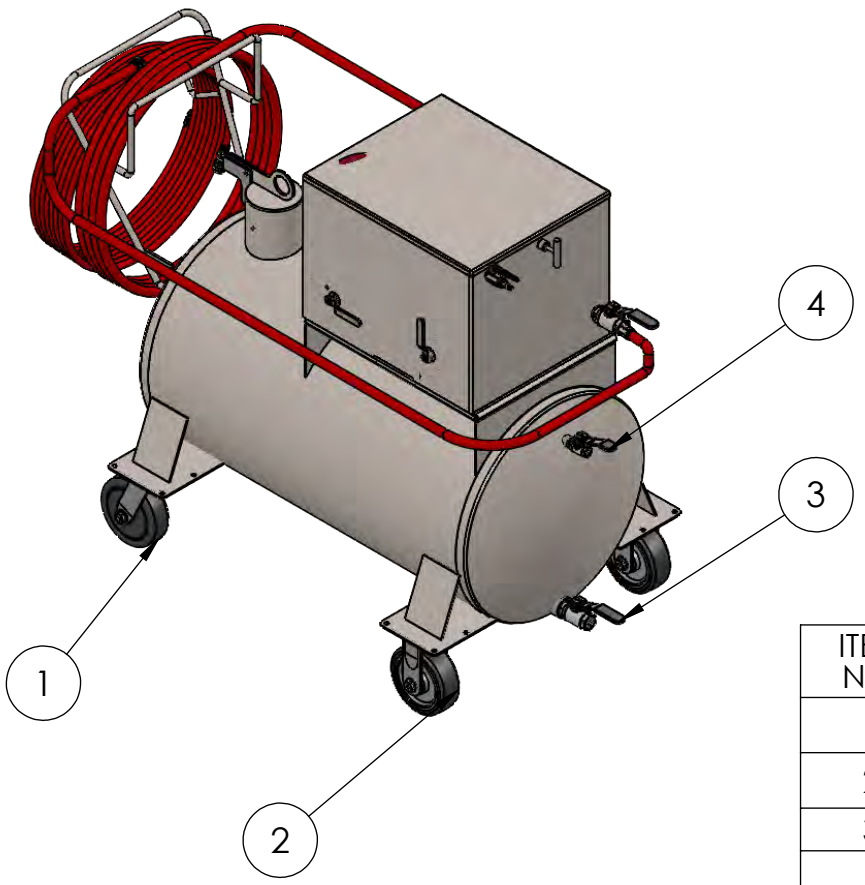

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	93903	CASTER - 6" SWIVEL (FOAMER)	2
2	96902	CASTER - 6" RIDGID (FOAMER)	2
3	96691	SS BALL VLV 1" LOCKING	1
4	98226	SS 1/4" F NPT X M NPT MINI BALL VALVE	1

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