GETZ EQUIPMENT INNOVATORS
PART NO.: 3G59613
MODEL: 50# OPTIMUM FILL SYSTEM
(Revised 1/5/18)

2320 Lakecrest Drive, Pekin, Illinois 61554
Telephone: 888-747-4389 Fax: 309-495-0625
Website: www.getzequipment.com

Limited Warranty

Products manufactured by Getz Equipment Innovators (with exception of electrical products or components) will be free from defects for a period of one year from shipment date. Electrical products and/or components used in manufactured products will have a (6) month warranty from shipment date. During the warranty period, customers who experience any manufacture-related service issues with our products, the product may be returned for repair or replacement. Customer must contact Getz Equipment for approval prior to any product return. Notwithstanding the foregoing, the limited warranty set forth shall be immediately void of customer uses any replacement parts other than those provided by Getz Equipment Innovators. The warranty does not cover normal wear and tear items, defects resulting from modification, alteration, misuse, exposure to corrosive conditions, extremely high temperatures, improper installation or maintenance. Warranties on component items not manufactured by Getz Equipment Innovators are provided by others whose warranty, evaluation and judgment will be final.

All implied warranties, including, but not limited to, warranties of fitness for purpose and merchantability, are limited to the time periods as stated above. In no event shall Getz Equipment Innovators be liable to incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts or the exclusions or limitation of incidental or consequential damages, so that the above limitations or exclusions may not apply to you. Getz Equipment Innovators neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than as expressly set forth herein.

Mobile Service Vehicles:

The warranty does not cover:

- Defects in the chassis and or power unit
- Defects in separately manufactured products not produced by Getz Equipment Innovators
- Deterioration due to normal wear, tear, and exposure
- Repairs made necessary by negligent use, misuse, abuse, loading the service vehicle beyond its gross vehicle weight limitations, accident, acts of God, or other contingencies beyond the control of Getz Equipment Innovators.
- Repairs deemed necessary by reason of the failure to follow ordinary maintenance procedures.
- Repairs deemed necessary by reason of alterations done without Getz Equipment Innovators' written approval.

Warranty Service:

- All warranty repairs will be performed by Getz Equipment Innovators in Pekin, IL, unless otherwise authorized by Getz Equipment Innovators.

  Freight:
- Getz Equipment Innovators will not be liable for shipping or transportation charges to or from customer's location.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To obtain performance to the obligation of the warranty, write to Getz Equipment Innovators, 2320 Lakecrest Drive, Pekin IL 61554, USA for instructions.

GETZ SV1-50-PR VACU-FILL SYSTEM

TABLE OF CONTENTS

GETZ SV1-50-PR OPTIMUM FILL SYSTEM

MOTIVE POWER SOURCE

Air Compressor
Compressed Air
Nitrogen
CO2 Vapor

Customer must remove the syphon tube from the supply valve of the liquid CO2 tank to have vapor.

To get the maximum on your vacu-fill, the operation input pressure may range from 40 to 60 PSI to set your regulator for the best results, take the yellow vacuum line (#1C) out of connector (#34) on the bottom left outside console. Turn the on-off valve (#19) on and out your finger over the connector (#34). Then, adjust the regulator up or down, whichever is needed, so that you have maximum on your gauge.

CYCLE TIMES TO EXHAUST (OR EMPTY)

5 LB EXTINGUISHER (2.27 KG) = 15 SECONDS
10 LB EXTINGUISHER (4.50 KG) = 25 SECONDS
20 LB EXTINGUISHER (9.00 KG) = 30 SECONDS

CYCLE TIMES TO FILL

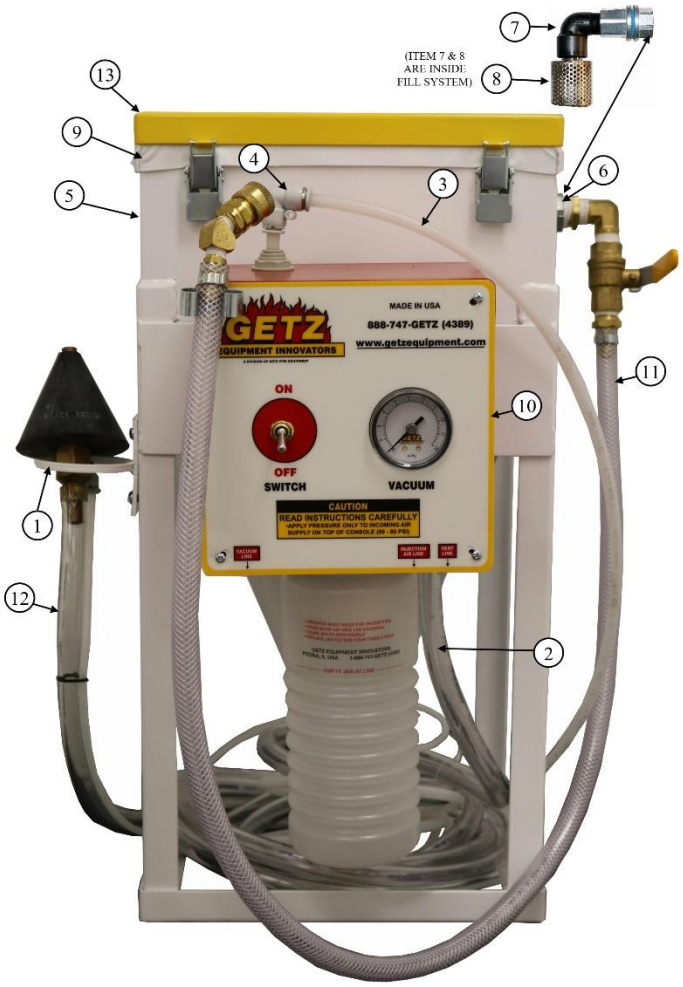
5 LB EXTINGUISHER (2.27 KG) = 20 SECONDS
10 LB EXTINGUISHER (4.50 KG) = 30 SECONDS
20 LB EXTINGUISHER (9.00 KG) = 60 SECONDS

SHIPPING SIZE OF CONTAINER AND WEIGHT

3G59613 – 13” X 13" X 25 1/4"

WARNING: MUST WEAR SAFETY GLASSES

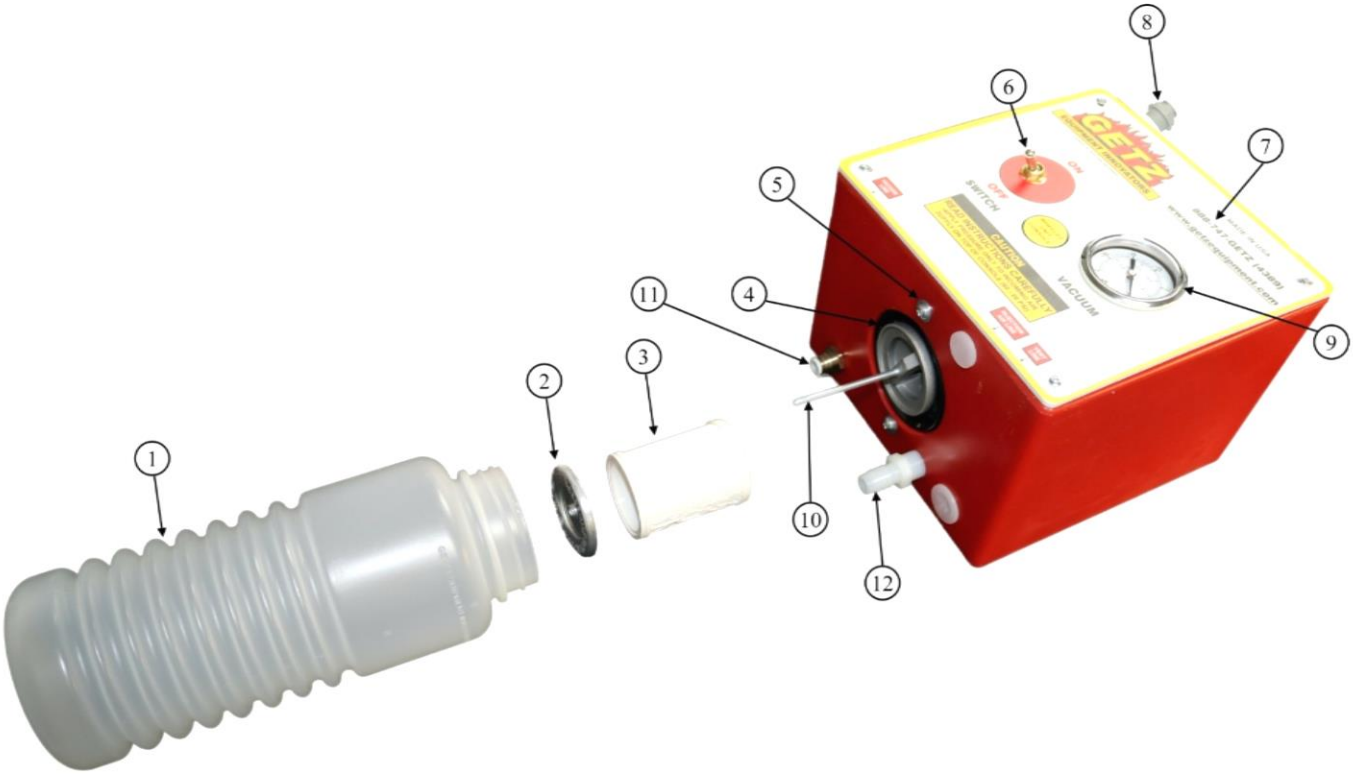
DRAWING 1



DRAWING 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1G0014	RING BRACKET	1
2	1G0032	TUBING ½ I.D. CLEAR VINYL PER FOOT	6
3	1G0049	TUBING POLY 3/8 WHITE	10
4	1G0243	ELBOW UNION PTC 3/8 TO 3/8 TUBE	1
5	1G58837	HOPPER W/STAND 50# SV1	1
6	1G51428	HUB MEYER ¾ FEMALE X FEMALE	1
7	1G0591	ELBOW STREET 3/4 MALE X 3/4 FMLE PLASTIC	1
8	1G51789	DISCHARGE SCREEN	1
9	1G54039	FILTER FOR 50 LB METAL FILL SYSTEM	1
10	3G0092	CONSOLE RED	1
11	3G58545	DISCHARGE ASSEMBLY	1
12	3G58553	FILL LINE ASSEMBLY	1
13	3G58838	50# METAL LID YELLOW WITH GASKET	1

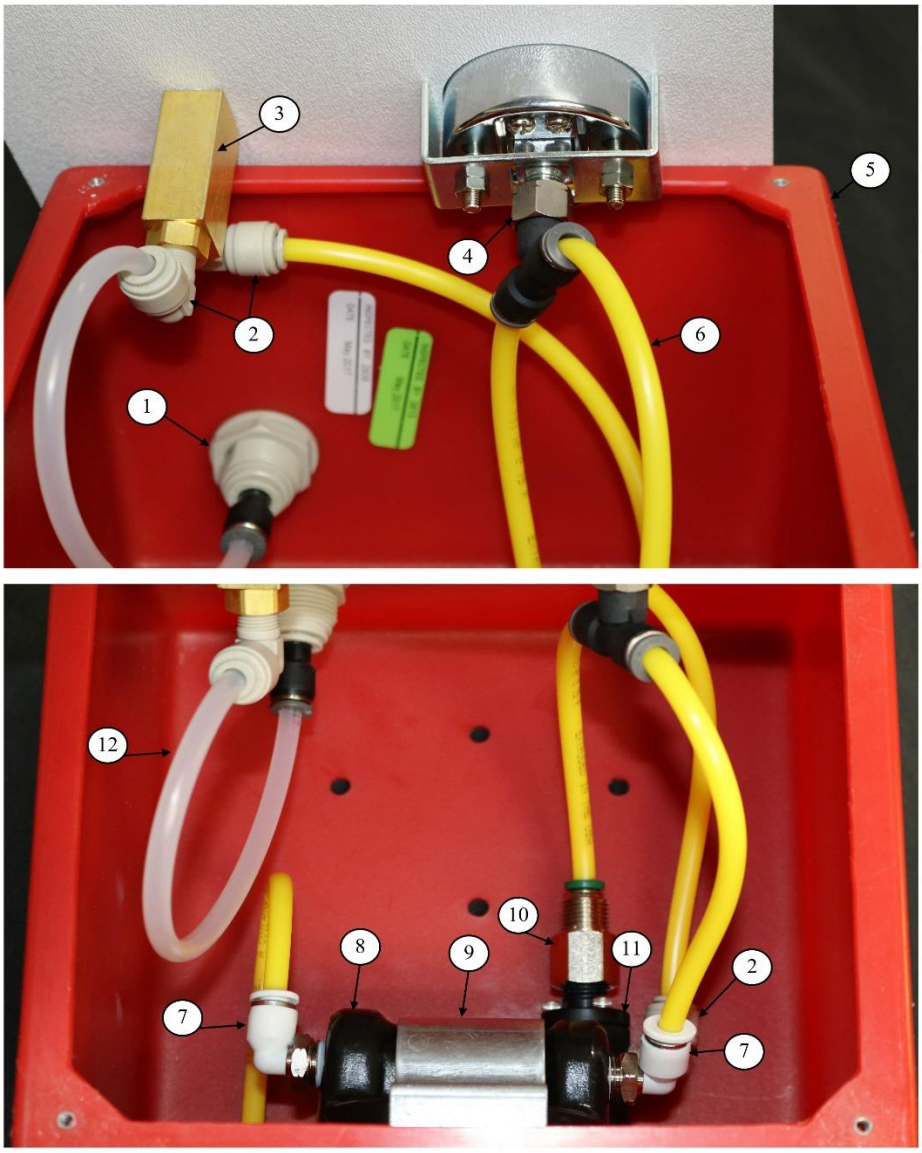
DRAWING 2 – 3G0096 CONTROL CONSOLE



DRAWING 2

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1G0020	PLASTIC JAR	1
2	1G0206	FILTER CAP	1
3	1G0067	JAR FILTER	1
4	1G0205	JAR GASKET	1
5	N/A	JAR BRACKET SCREWS	2
6	1G0015	VALVE 3 WAY TOGGLE	1
7	1G0125	LID ONLY CONTROL CONSOLE	1
8	1G0193	BULKHEAD UNION 3/8-1/4 TUBE,M20.OX1.5	1
9	1G0018	GAUGE 30" VACUUM 2" DIAL	1
10	1G0207	STEM	1
11	1G0197	BULKHEAD UNION 1/4-1/4 TUBE	1
12	1G54339	HOSE BARB PLASTIC 1/2 X 1/4 FEMALE	1

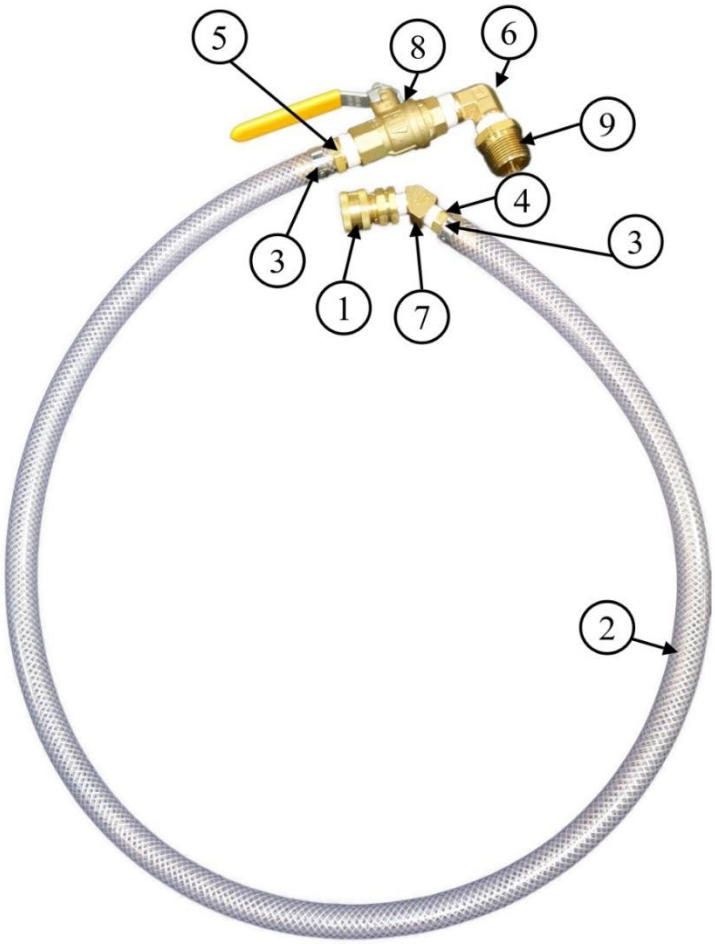
DRAWING 3 – 3G0062 CONTROL CONSOLE (INSIDE VIEW)



DRAWING 3

1	1G0193	BULKHEAD UNION 3/8 – ¼ TUBE	1
2	1G0327	ELBOW 90 1/4 OD X 1/8 NPT	3
3	1G0015	TOGGLE VALVE 3 WAY	1
4	1G0200	SWIVEL TEE ADAPTER ¼" TUBE X 1/8"	1
5	1G0023	CONTROL CONSOLE PLASTIC BOX	1
6	1G0047	TUBING POLY 1/4 YELLOW	1
7	1G0198	ELBOW 90 1/4" STEM TO 1/4" TUBE	2
8	1G0017	FILTER HOUSING ASSEMBLY	1
9	1G0011	JAR BRACKET ASSEMBLY	1
10	1G0168	BULKHEAD FMLE ¼" NPT X ¼" PTC BRASS	1
11	1G54400	VENTURI 2ND GENERATION	1
12	1G0048	TUBING POLY 1/4 WHITE	1

DRAWING 4 - 3G58545 DISCHARGE ASSEMBLY

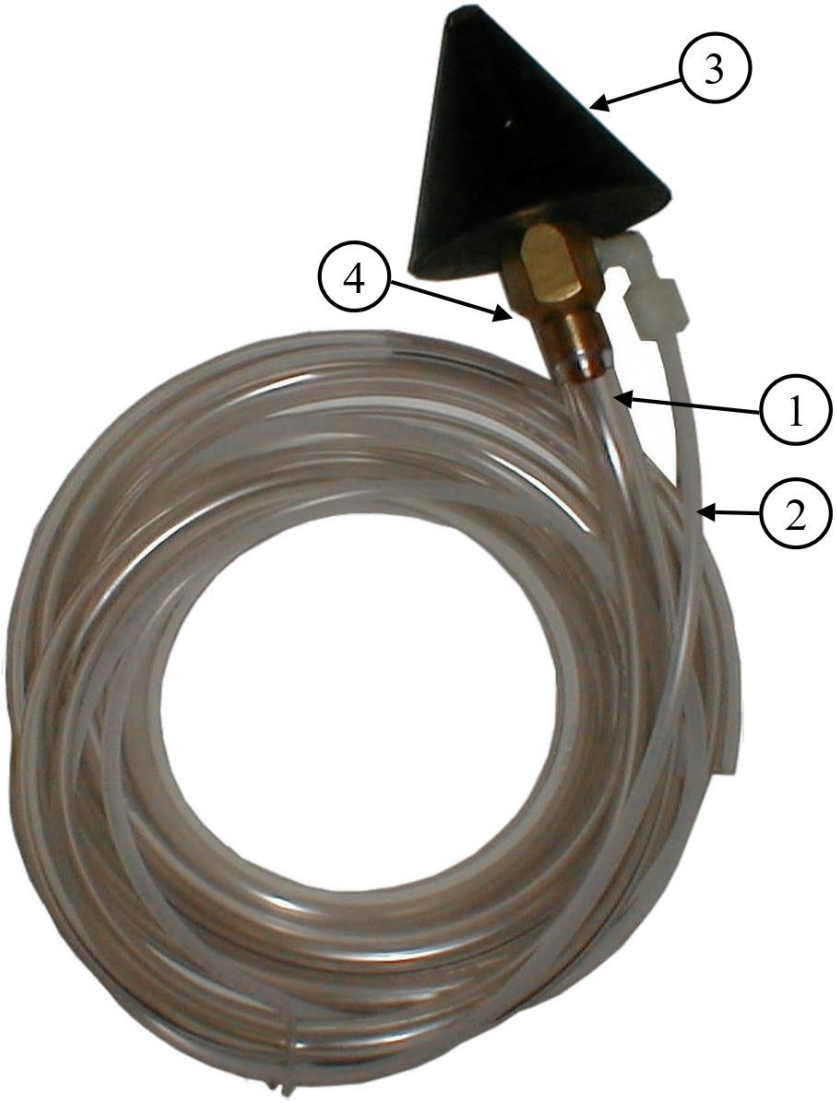


DRAWING 4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1G0028	COUPLING FMLE STRAIGHT THRU ¼	1
2	1G0033	TUBING ½ REINFORCED CLEAR VINYL	4
3	1G0041	CLAMP 2 – EAR ¾"	2
4	1G0075	BARB HOSE ½ MNPT X ½ HOSE	1
5	1G0076	BARB HOSE ¼ MNPT X ½ HOSE	1
6	1G0077	ELBOW BRASS 90 DEGREE ½ NPT	1
7	1G0078	ELBOW BRASS 45 DEGREE STREET ¼	1
8	1G0084	VALVE BALL ½" BRASS	1
9	1G51686	PIPE RDCR BR ¾ X ½	1

Please order replacement parts from:
Getz Equipment Innovators
Pekin, IL 61554
Phone (888) 747-GETZ (4389)
Fax (309) 309-495-0625
www.getzequipment.com

DRAWING 5 - 3G58553 – FILL LINE ASSEMBLY



DRAWING 5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1G0032	TUBING ½ I.D. CLEAR VINYL PER FOOT	11
2	1G0048	TUBING POLY ¼ WHITE PER FT	7
3	1G51221	RUBBER FILL CONE BRASS FILLER TUBE	1
4	3G58561	FILLER TUBE ASSEMBLY BRASS	1

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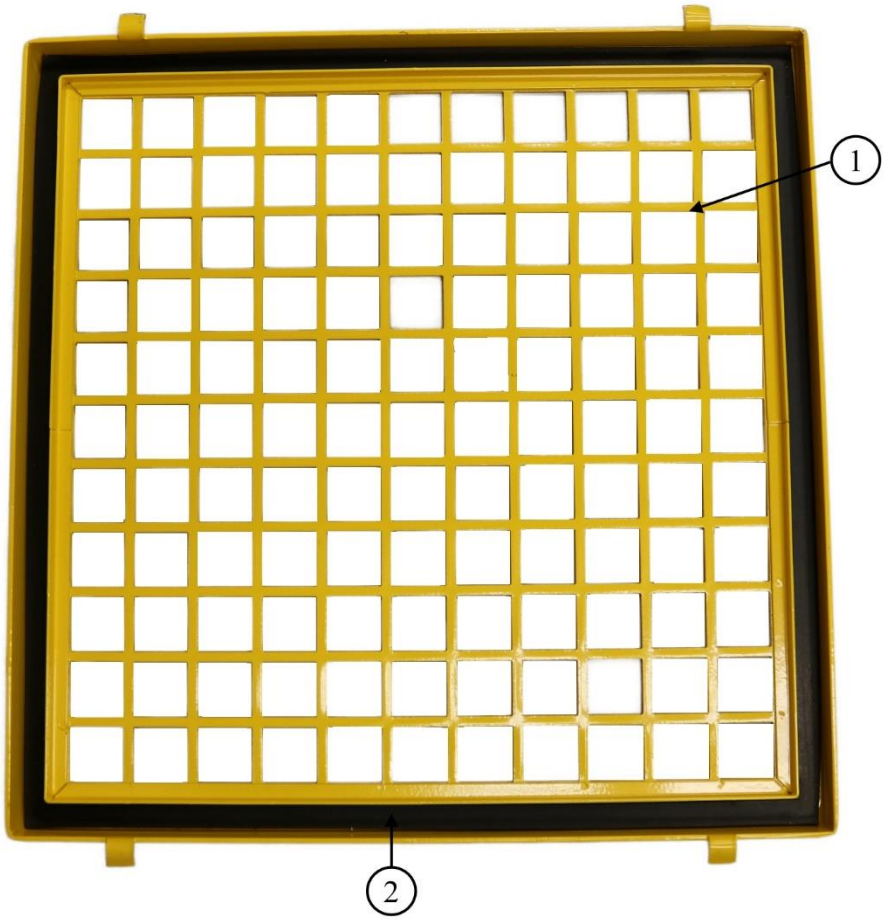
DRAWING 6 – LID ASSEMBLY



DRAWING 6

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1G52103	50# METAL LID ONLY – YELLOW	1
2	1G52111	LID GASKET 50# METAL FILL SYSTEM	1

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ASSEMBLY INSTRUCTIONS

1. Assembly unit per drawing #1.

   A) Install SV1 console (Drawing 1, Item #10) slide the console clips on the bracket, snapping the bolt heads into the holes of the bracket.

   B) Install ring bracket (Drawing 1, Item #1) into the two holes provided on front left side of hopper and stand. * (**Bolts and nuts located in package in hopper.)**

   C) Install the discharge assembly (Drawing 1, Item #11) into the front top center 3/4" port, meyer hub (Drawing 1, Item #6), provided on front of hopper.

   D) Assemble hoses to console matching numbers on hoses to numbers at fitting on console.

   E) Assemble 1/2" clear hose (Drawing 1, Item #12) to the 45 degree hopper outlet on bottom of hopper.

      Note: You will find it much easier to get the hose on bottom of hopper if you will preheat the end of hose in a cup of very hot water.

   F) Attach the 6' piece of 1/2" tubing (Drawing 1, Item #2) to the vent hose connection which is the black plastic nipple on the bottom of the console this is an air vent line.

   G) Attach white tubing (Drawing 1, Item #3) to the connector on top of the control console to your regulated air supply.

2. Adjust regulator for approximately 40 to 60 PSI and turn air pressure on. **(See page 1 for proper regulator setting.)** To operate unit, place aspirate cone in neck of fire extinguisher. Turn appropriate valve to "on" position. This will create vacuum in the extinguisher causing it to fill with chemical to proper weight predetermined by scale. If chemical flows into jar below console, cylinder has become full. At this time you must allow it to settle in cylinder if proper weight has not been reached. Tapping cylinder with a rubber hammer will speed up setting of chemical.

PORTABLE EXTINGUISHER DISCHARGE INSTRUCTIONS

1. Make sure the portable extinguisher is pressurized.
2. If portable extinguisher is not pressurized, and is full or partially full of chemical, hook up recharge adapter and pressurize to factory recommended pressure on gauge.
3. Connect proper discharge adapter with male quick coupler into valve assembly of extinguisher.
4. Connect discharge assembly (Drawing 1, Item #11) to your discharge adapter on extinguisher.
5. Make sure that powder recovery lid is properly clamped to hopper.
6. Close valve (Drawing 4, Item #8) and partially discharge extinguisher into the discharge hose (Drawing 4, Item #2) to inspect chemical.
7. If chemical appears to be ok, you can open valve (Drawing 4, Item #8) which will let the chemical enter the hopper and allow nitrogen pressure to escape through the powder recovery filter.
8. After pressure gauge is to zero, you can disconnect the discharge assembly hose and proceed to inspect or hydrotest the extinguisher.
9. Remove valve from extinguisher and cleaning:

    A. Clean all powder out of threads of neck of extinguisher. **(Use a brush).**

    B. Clean interior of valve assembly and valve stem. **(This is very important to make sure extinguisher does not leak off).**

    C. Clean thread on valve assembly and clean and lubricate O-ring.

    D. Return valve and syphon tube assembly into neck on extinguisher. **(Hand tighten).**

    E. Select the correct pressurizing adapter and place into discharge port.

    F. Set regulator. Squeeze lever and pressurized to working pressure reading on gauge.

    G. Once reaching proper pressure reading on gauge, release lever.

    H. Disconnect recharge adapter and replace pull-pin for safety.

    I. Check for leaks around neck O-ring and discharge port.

    J. Follow up with returning hose assembly and tag to extinguisher.

FILLING EMPTY DRY CHEMICAL EXTINGUISHERS

1. Make sure scale is perfectly set and balanced to zero.

2. Make sure empty dry chemical extinguisher is visually checked on the inside for dryness and corrosion with inspection light.

3. Check label on empty extinguisher for type of chemical to be filled with.

4. Set empty extinguisher on scale and check proper weight to be filled on extinguisher label.

5. Once proper chemical is determined, take the fill line and extend it to the top of the empty cylinder to be filled.

6. Take the rubber cone on the end of the fill line (Drawing 1, Item #12) and place into top of cylinder neck with a 1/4 turn clockwise.

7. Scale: Two ways of weighing extinguisher for proper filling:

   A) With extinguisher and filling line attached on scale, return scale back to zero and proceed to fill to recommended weight.

   B) With extinguisher and filling line attached on scale, you can add recommended weight to the weight reading of extinguisher and fill line presently on scale.

8. Turn toggle valve to the "on" position until extinguisher reaches recommended weight. Then turn valve to "off" position once extinguisher is filled. **(If chemical returns to plastic jar before reaching proper weight, let chemical settle then turn valve back to "on" to get recommended weight).**

9. Remove filling line from neck of extinguisher to filling line ring bracket.

Trouble Shooting for Fill System

To determine if problem is in console, take the (white) vacuum line (Drawing 5, Item #2) off of the elbow connector screwed into the filler tube. Turn the toggle switch (Drawing 2, Item #6) on and put your finger over the (white) vacuum line (Drawing 5, Item #2). Suction should be present and gauge should read a minimum 15" of vacuum for the portables console (23" of vacuum for wheeled unit console). IF NOT, make sure jar gasket (Drawing 5, Item #4) is in place and make sure jar is tight against gasket.

DO NOT blow air through console or jar assembly.

If there is suction at the end of the (white) vacuum line (Drawing 5, Item #2) the trouble is NOT in the console. Most problems are commonly outside the console such as: lumpy chemical, moist chemical or a plugged fill hose.

If the console is not working properly, it is recommended to clean or replace the *venturi* (Drawing 3, Item #11).

1. Chemical will not flow when:
    a. Extinguisher is not vacuum tight (i.e. a cartridge extinguisher with leaky cartridge receiver).
    b. There is a kink in a hose.
    c. The fill line and/or vacuum line are clogged.
    d. Jar filter assembly on console is not properly sealed (must be tight).
    e. Air supply is not regulated and maintained at 40 – 60 PSI for portables console

2. Overflow jar located under console should never be allowed to fill more than halfway before emptying.
    a. Filter element in jars may be blown clean with an air gun (or similar tool) weekly.
    b. Replace filter every six months.

Recommended Maintenance

Getz Equipment Innovators has designed their dry chemical fill systems to be the most maintenance-free available and to provide the longest equipment life. Nevertheless all equipment needs maintained and simple steps can be done to assure your fill system(s) continues to operate at optimum performance. To maintain optimum fill system performance we recommend the following maintenance items at a minimum. These recommendations are based on averages so frequencies may vary depending on number of extinguishers serviced using the dry chemical fill system(s).

Daily

- Empty the plastic overflow jar when dry chemical reaches the line marked on the jar. Allowing the dry chemical to go above the line on the jar will allow chemical to flow back into the console tubing causing damage to the venturi, on/off valve, and vacuum gauge.

Weekly

- Clean Hopper Lid Filter. Vacuum the inside of the filter. If there is dry chemical caked onto the filter is needs to be replaced.
- Clean Jar Filter. Use only 10-15 psi to blow and clean the jar filter.
- Discharge Hose. Look for burn/soft spot at end by coupling and replace when worn

Annually

- Replace Hopper Lid Filter – 1G54039
- Replace Jar Filter – 1G0067
- Replace Jar Gasket – 1G0205
- Clean/Replace Venturi – 1G54400

RECOMMENDED MAINTENANCE KIT

Dear Customer:

Your recent purchase of our vacu-fill system will provide you with many years of dependable service.

Rest assured you have purchased the finest system available in today's marketplace. The advanced engineering and technological advancement employed in the development of this quality product has made it without equal, worldwide.

While this system is perhaps the most maintenance-free of any we manufacture, it must be remembered that anything man-made is capable of malfunctioning and may require simple repair.

For this reason, we have put together a maintenance kit which will eliminate the need for delay should your system ever fail. Chances are it won't. Yet, on occasion problems do arise for one reason or another. Call it an extra ounce of security.

I urge your consideration and modest investment in the following. Should you ever experience a problem, chances are you'll be equipped to repair it on the spot.

1 – 3G59637 – Maintenance Kit

Sincerely,

Getz Equipment Innovators

Note:
Do not modify any components within this system. Any use of parts other than Getz Equipment Innovators components excludes all written and implied liabilities.