



Getz Equipment Innovators Dry Chemical Fill System

This manual covers the following part numbers:

3G0050/3G0050 M/3G0050 OPT/3G0050 OPTM - 100# ABC Filling Systems

3G0031/3G0031 M/3G0031 OPT/3G0031 OPTM - 150# ABC Filling Systems

3G0032/3G0032 M/3G0032 OPT/3G0032 OPTM - 150# BC Filling Systems

3G0086/3G0086 M/3G0086 OPT/3G0086 OPTM - Industrial Fill Systems



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.



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!!!WARNING!!!

SEVERE DAMAGE AND/OR INJURY MAY RESULT

100 # CAPACITY VACUFILLS:

DO NOT DISCHARGE ANY EXTINGUISHER CYLINDER EXCEEDING 195 PSI AND NOT EXCEEDING 30 POUNDS IN AGENT WEIGHT.

150 # CAPACITY VACUFILLS:

DO NOT DISCHARGE ANY EXTINGUISHER CYLINDER EXCEEDING 195 PSI WITHOUT THE USE OF GETZ EQUIPMENT P/N 3G59745, WHEELED SYSTEM DISCHARGE ASSEMBLY, INSTALLED.

FAILURE TO INSTALL AND OPERATE EQUIPMENT ACCORDING TO THE GUIDELINES PUT FORTH IN THE INSTRUCTION MANUAL SHALL VOID WARRANTY.

3G0086 INDUSTRIAL UNITS:

WHEN DISCHARGING INDUSTRIAL CYLINDERS OR ANY PRESSURIZED CYLINDER OVER 300 PSI, THE 3G0058 WHEELED UNIT DISCHARGE ASSEMBLY PICTURED ON PAGE 9 MUST BE USED. (IF YOU WANT TO DISCHARGE REGULAR PORTABLE FIRE EXTINGUISHERS USING THIS SYSTEM YOU WILL NEED A SEPARATE DISCHARGE LINE, PART NUMBER 3G58545.)

THE SAFETY RELIEF ON THE REAR OF THE HOPPER SHOULD NEVER BE REMOVED FOR ANY REASON.

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Getz Equipment Innovators Dry Chemical Fill System

Air Source:

Air Compressor
Compressed Air
Nitrogen

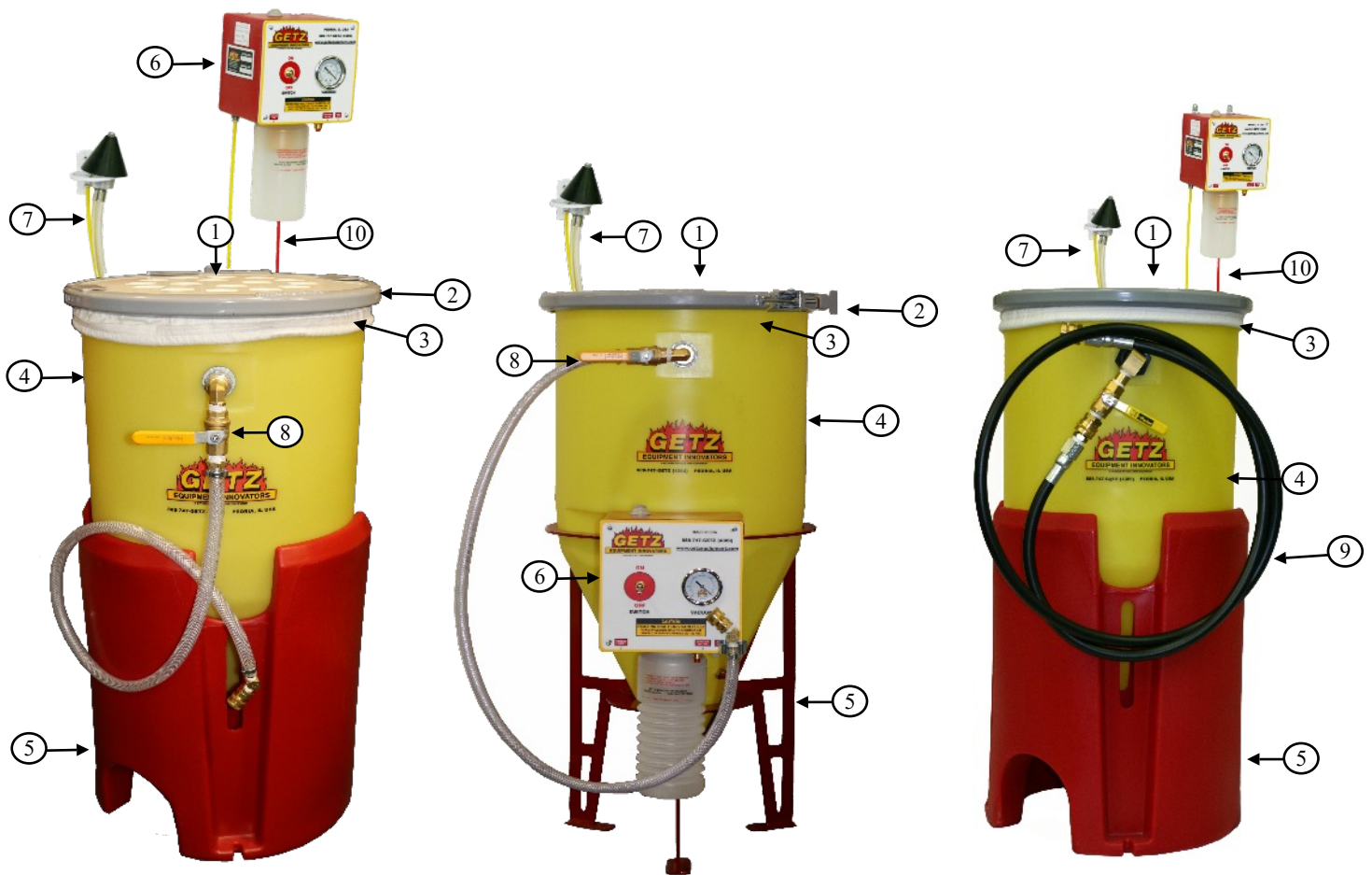
To get maximum vacuum on your fill system, the operating input pressure may range from 40 to 65 P.S.I. This setting will vary depending on which console you purchased (standard or optimum), atmosphere conditions and chemical composition.

To set your regulator for the best results, take the vacuum line off of the elbow connector screwed into the filler tube. Turn the on-off switch on and put your finger over the vacuum line. Then, adjust the regulator up or down as needed, so that you have maximum vacuum on your gauge.

Warning: Operator must wear safety glasses when operating filling system equipment

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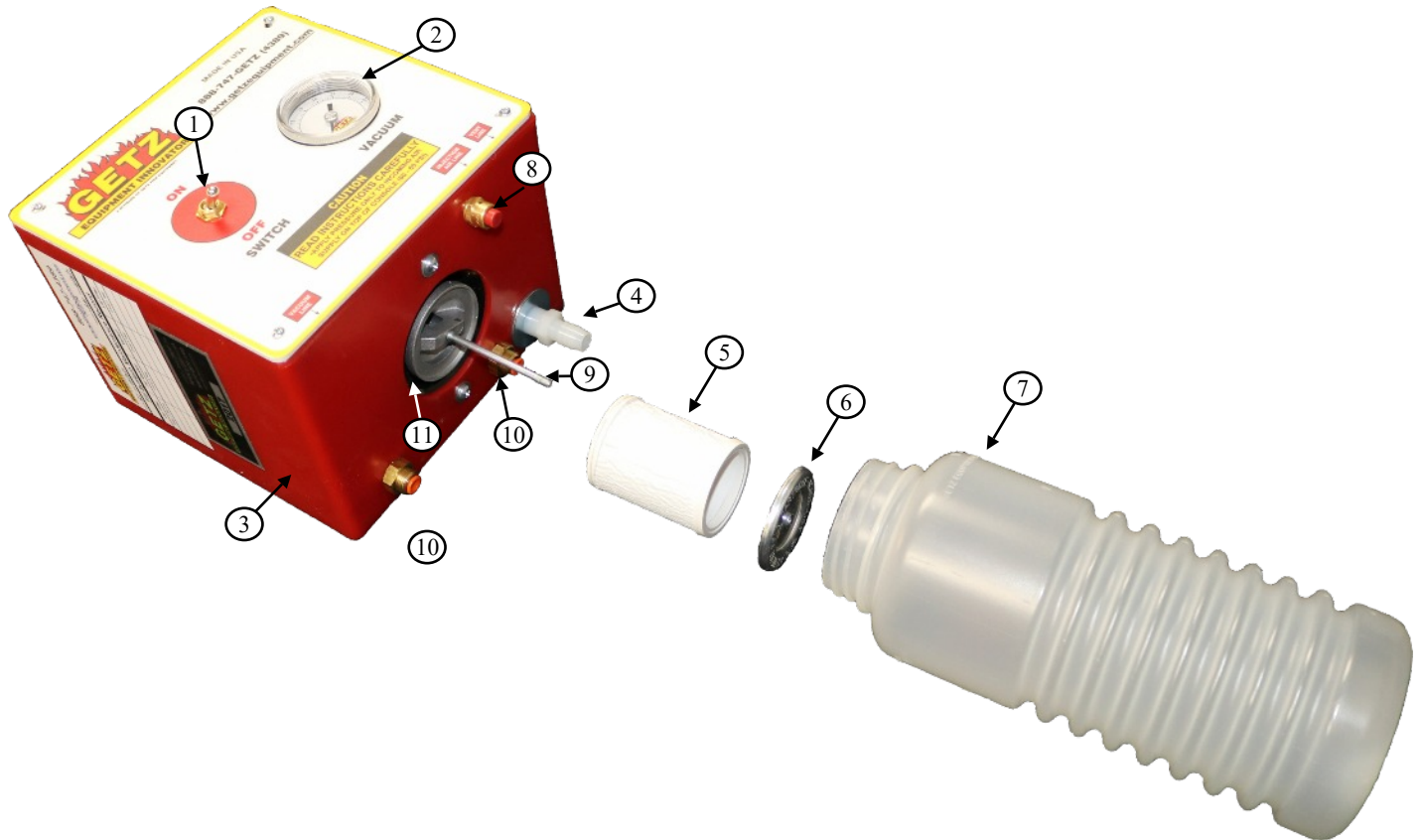
Drawing 1 - Fill System Exterior



ITEM	PART #	DESCRIPTION	QTY
1	1G0012	Lid Hopper Plastic	1
2	1G0034	Lever Lock Ring For Hopper	1
3	1G0024	Hopper Filter	1
4	1G0008/1G0009	Hopper – Yellow(1G0008, White (1G0009	1
5	1G0010/1G0635	Plastic Stand (1G0010)/Metal Stand(1G0635)	1
6	3G0046/3G0136	Regular Console (3G0046)/Optimum Console (3G0136)	1
7	3G58553	Fill Line Assembly	1
8	3G58545	Discharge Assembly	1
9	3G0058	Discharge Line - Wheeled Unit	1
10	1G0046	Air Injection Line - Tubing Poly ¼ Red	9
Not Shown	1G0281	1" Relief Valve (3G0086 Units Only)	1
Not Shown	1G54197	Diffuser Fitting ¾ x ½ (3G0086 Units Only)	1

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Drawing 2 - Control Console Exterior



ITEM	PART #	DESCRIPTION	QTY
1	1G0015	Toggle Valve 3 Way	1
2	1G0018	Gauge 30" Vacuum 2" Dial	1
3	1G0023/1G0125	Control Console Plastic Box/Lid	1
4	1G54318	Hose Barb Plastic ½ x ¼ Female	1
5	1G0067	Jar Filter	1
6	1G0206	Filter Cap	1
7	1G0020	Jar Plastic Ribbed	1
8	3G0082	Push Button Valve Air Injection w/Cover	1
9	1G0207	Stem	1
10	1G0197	Bulkhead Union ¼ - ¼ Tube	2
11	1G0205	Jar Gasket	1

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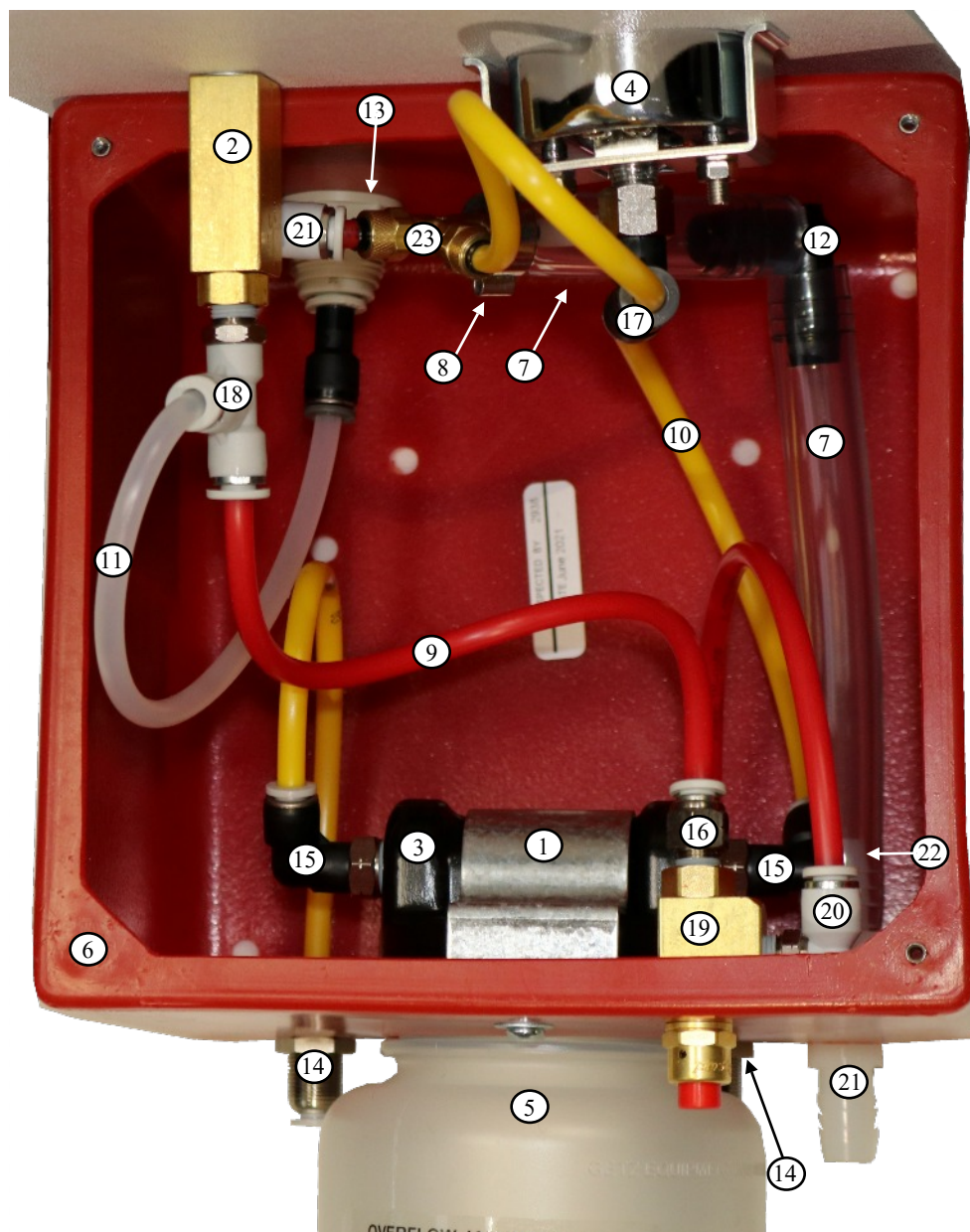
Drawing 3 - Interior - Standard Venturi 3G0046 Control Console

3G0050/3G0050 M - 100# ABC Filling Systems

3G0031/3G0031 M - 150# ABC Filling Systems

3G0032/3G0032 M - 150# BC Filling Systems

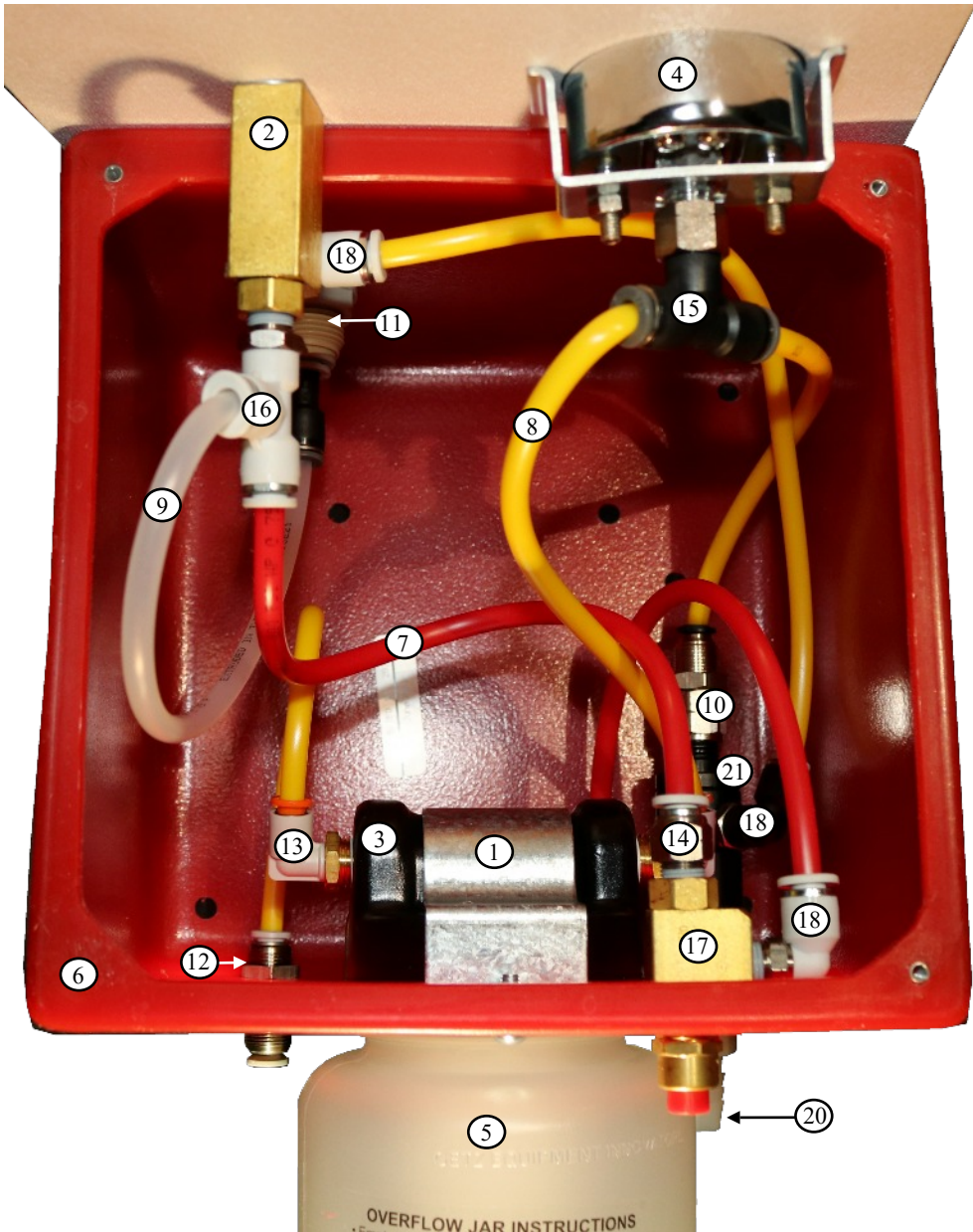
3G0086/3G0086 M - Industrial Fill System



ITEM	PART #	DESCRIPTION	QTY
1	1G0011	Jar Bracket Assembly	1
2	1G0015	Toggle Valve 3 Way	1
3	1G0017	Filter Housing Assembly	1
4	1G0018	Gauge 30" Vacuum 2" Dial	1
5	1G0020	Jar Plastic Ribbed	1
6	1G0023	Control Console Plastic Box	1
7	1G0032	Tubing 1/2 I.D. Clear Vinyl Per Ft.	1
8	1G0041	Clamp 2 - Ear 3/4"	1
9	1G0046	Tubing Poly 1/4 Red	2
10	1G0047	Tubing Poly 1/4 Yellow	2
11	1G0048	Tubing Poly 1/4 White	1
12	1G0099	Elbow Poly Barbed 1/2 X 1/2	1
13	1G0193	Bulkhead Union 3/8-1/4 Tube,M20.Ox1.5 Th	1
14	1G0197	Bulkhead Union 1/4-1/4 Tube	2
15	1G0198	Elbow 90 1/4" Stem To 1/4" Tube	2
16	1G0199	Adapter Straight 1/4" Tube -1/8" Npt	1
17	1G0200	Tee Adapter Swivel 1/4" Od Tube To 1/8"	1
18	1G0201	Tee Swivel Side 1/4" Tube To 1/8" Npt	1
19	3G0082	Push Button Valve Air Inj. W/Cover	1
20	1G0327	Elbow 90 1/4 Od X 1/8 Npt	2
21	1G54318	Barb Hose Plas 1/2 X 3/9 MI	1
22	1G54319	Barb Hose Plastic 1/2 X 3/8 Female	1
23	3G0151	Venturi Complete	1

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Drawing 4 - Interior - Optimum Venturi
3G0136 Control Console

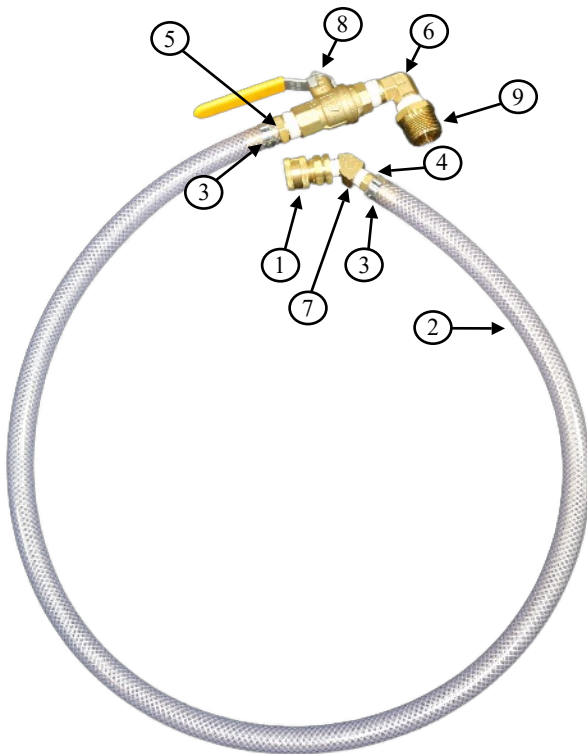


- 3G0050 OPT/3G0050 OPTM - 100# ABC Filling Systems
- 3G0031 OPT/3G0031 OPTM - 150# ABC Filling Systems
- 3G0032 OPT/3G0032 OPTM - 150# BC Filling Systems
- 3G0086 OPT/3G0086 OPTM - Industrial Fill System

ITEM	PART #	DESCRIPTION	QTY
1	1G0011	Jar Bracket Assembly	1
2	1G0015	Toggle Valve 3 Way	1
3	1G0017	Filter Housing Assembly	1
4	1G0018	Gauge 30" Vacuum 2" Dial	1
5	1G0020	Jar Plastic Ribbed	1
6	1G0023	Control Console Plastic Box	1
7	1G0046	Tubing Poly 1/4 Red	1
8	1G0047	Tubing Poly 1/4 Yellow	1
9	1G0048	Tubing Poly 1/4 White	2
10	1G0168	Bulkhead Female ¼ NPT x ¼ PTC Bras	2
11	1G0193	Bulkhead Union 3/8-¼ Tube	1
12	1G0197	Bulkhead Union 1/4-1/4 Tube	2
13	1G0198	Elbow 90 1/4" Stem To 1/4" Tube	2
14	1G0199	Adapter Straight 1/4" Tube -1/8" Npt	1
15	1G0200	Tee Adapter Swivel 1/4" Od Tube To 1/8"	1
16	1G0201	Tee Swivel Side 1/4" Tube To 1/8" Npt	1
17	3G0082	Push Button Valve Air Inj. W/Cover	1
18	1G0327	Elbow 90 1/4 Od X 1/8 Npt	3
Not	1G51344	Gasket Fill Ad Teflon	1
20	1G54339	Hose Barb Plastic ½ x ¼ Female	1
21	3G0151	Venturi Complete	1

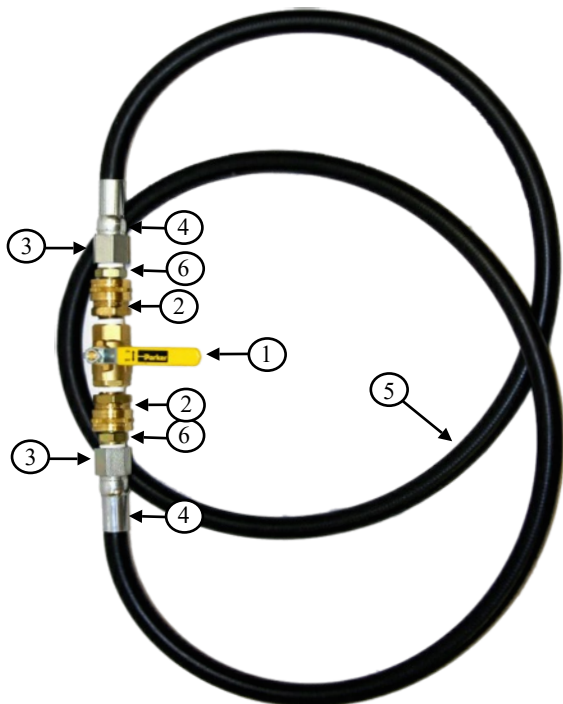
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Drawing 5 - Discharge Assembly



3G58545 Standard Discharge Assembly

ITEM	PART #	DESCRIPTION	QTY
1	1G0028	Coupling Female Straight Thru ¼	1
2	1G0033	Tubing ½ Reinforced Clear Vinyl	4
3	1G0041	Clamp 2 - EAR ¼	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 Reducer Brass ¾ x ½	1



3G0058 Wheeled Unit Discharge Assembly

ITEM	PART #	DESCRIPTION	QTY
1	1G0258	Ball Valve 1/2 Female X Female Vented	1
2	1G0260	1/2" Male Socket	2
3	1G0578	Coupling 1/2 F/F 5000 Psi	2
4	1G51253	Coupling 1/2 Male Synflex	2
5	1G51562	Hose Synflex 1/2 2000psi	8
6	1G51674	Coupling Q/C 1/2 Male	2

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Drawing 6 - 3G58553 Fill Line Assembly



ITEM	PART #	DESCRIPTION	QTY
1	1G0032	Tubing ½ ID Clear Vinyl	8
2	1G0048	Tubing Poly ¼ White	7
3	1G0091	Rubber Fill Cone Brass Filler Tube	1
4	3G0014	Filler Tube Assembly Aluminum	1
5	1G0237	Moisture Cap Filler Tube	1

Getz Equipment Innovators Dry Chemical Fill System

Assembly Instructions

1. Remove all items from inside the hopper.
2. Separate the red stand from the hopper.
3. If filling system is to be placed in a vehicle then it will need to be mounted to the floor using (4) 5/8 X 3" bolts (8) fender washers (top and underside of vehicle) and (4) nylon locking nuts for plastic stand and (3) 5/8 X 3" bolts (6) fender washers (top and underside of vehicle) and (3) nylon locking nuts for metal stand (hardware not included). If it is for shop use then mounting the base to the floor is optional. When mounting make sure the vertical sight slot is in front. Leave at least a 4" clearance around the base from any wall or structure.
4. Run the clear 1/2" vinyl tubing on the 3G58553 fill line (reference drawing #6, item 1) thru the top part of the ring bracket. Then run it through the left front opening in the bottom of the plastic stand or to the underside of the metal stand and attach it to the outlet at the base of the hopper; secure using provided worm gear clamp.
5. Attach long end of the red 1/4" poly tubing to the air injection port on the right side of the hopper by pushing it firmly into the connector. Feed the short end of the red 1/4" poly tubing through the right rear opening at the bottom of the stand. Place the hopper back into stand with the logo and bulk head assembly in front.
6. For wall mount, mount console to wall centering it above the filling system approximately 36" above the floor. If you purchased the unit with the metal stand, the control console can be mounted right to the front of the stand.
7. Attach the 6' clear 1/2" vinyl tubing to the vent line port (reference drawing #2, Item 4) on the base of the console on the right side by pushing it over the hose barb. It is best if the vent line goes through the floor of the vehicle or directed to an exhaust fan.
8. Attach red 1/4" poly tubing to the air injection port on the base of the console (right side) (reference drawing #2, Item 10) by pushing it firmly into the connector.
9. Mount ring bracket onto the wall next to the console approximately 46" from the floor.
10. Attach white 1/4" poly tubing to the vacuum port on the base of the console (reference drawing #2, Item 10) by pushing it firmly into the connector.
11. Screw the discharge line (part no 3G58545 (drawing #5), into the bulkhead on the front of the hopper, reference drawing #1, item 8.
12. Connect 3/8" white poly tubing to the fitting on the top of the console by pushing the air line into the fitting. Attach opposite end of 3/8" tubing to a regulated air source. Maximum incoming air should be 40 to 65 psi (no more than 65 psi).

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Portable Extinguisher Discharge Instructions

1. Make sure extinguisher is pressurized.
2. If extinguisher is not pressurized and is full/partially full of chemical, hook up re-charge adapter and pressurize to factory recommended pressure on gauge.
3. Remove hose and connect correct discharge adapter with male quick coupler into valve assembly of extinguisher.
4. Connect discharge assembly to the discharge adapter on extinguisher.
5. Ensure that powder recovery lid is clamped firmly to hopper.
6. Close valve and partially discharge extinguisher into the discharge hose to inspect chemical.
7. If chemical is proper chemical for extinguisher being discharged, open valve to allow chemical into hopper and allow nitrogen pressure to escape through the powder recovery filter.
8. Discharge extinguisher and when pressure gauge reaches zero, disconnect discharge assembly hose and inspect or hydro-test the extinguisher.
9. Remove valve from extinguisher and clean.
10. Perform 6 year internal maintenance, recharge or hydro-test.

Filling Empty Dry Chemical Extinguisher Instructions

1. Ensure that scale is set and balanced to zero.
2. Visually check with inspection light that empty dry chemical extinguisher is dry and not corroded.
3. Check for type of chemical to be filled on label of empty extinguisher.
4. Take clear fill line and extend it to the top of the empty cylinder to be filled.
5. Place rubber cone (from the end of fill line) into top of cylinder neck with a clockwise $\frac{1}{4}$ turn.
6. With extinguisher and fill line attached on scale, return scale back to zero (making it "weightless") and then fill to recommended weight.
7. Turn off-on valve to "ON" position until extinguisher reaches recommended weight. Turn valve to "OFF" once it is filled. **If chemical returns to plastic jar before reaching correct weight, let it settle then turn valve back on to reach desired weight.
8. Remove fill line from neck to fill line ring bracket.

View Video for discharge/refill here: <https://www.youtube.com/watch?v=ytMx9HLlqQ8&t=4s>

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Trouble Shooting for Fill System

To determine if problem is in console, take the vacuum line off of the elbow connector screwed into the filler tube. Turn the on-off switch on and put your finger over the vacuum line. Suction should be present and gauge should read a minimum 15" of vacuum. IF NOT, make sure jar gasket 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 vacuum line, 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 replace the *venturi*.

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 – 65 PSI
2. Overflow jars 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.

Getz Equipment Innovators Dry Chemical Fill System

Recommended Maintenance

Getz Equipment Innovators has designed their plastic 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
 - Replace Jar Filter
 - Replace Jar Gasket
 - Replace Venturi

Getz Equipment Innovators Dry Chemical Fill System

Maintenance Kit Instructions

Maintenance Kits

3G0089 - Maintenance Kit for 100/150 Standard Units:

(Covers 3G0050/3G0050 M / 3G0031/3G0031 M / 3G0032/3G0032 M / 3G0086/3G0086 M)

3G0175 - Maintenance Kit for 100/150 Optimum Units:

(Covers 3G0050 OPT/3G0050 OPTM / 3G0031 OPT/3G0031 OPTM / 3G0032 OPT/3G0032 OPTM / 3G0086 OPT/3G0086 OPTM)

1G0024 - Hopper Lid Filter

1. Unlatch the hopper lever lock ring and remove with the plastic hopper lid.
2. Remove old hopper lid filter and discard.
3. Install new hopper lid filter and reinstall plastic hopper lid (beveled edge on top) and lever lock ring.

1G0067 – Jar Filter & 1G0205 – Jar Gasket

4. Unscrew the Plastic Jar counterclockwise from the bottom of the console and the metal Filter Cap. The Jar Filter should be loose to remove after the metal Filter Cap is removed.
5. Remove the old Jar Gasket. Gently clean the Filter Housing Assembly being careful not to blow air up into the Housing/Console that will force chemical into the tubing.
6. Install the new Jar Gasket and new Jar Filter with the metal Filter Cap. Install the Plastic Jar.

3G0151 – Venturi (Standard Units Only)

1. Remove the four corner screws on the front console lid to access the inside.
2. Remove vent line from the poly elbow.
3. Use a 7/16" open end wrench to remove the two brass nuts and pull the clear and yellow 1/4" tubing with those brass nuts from the venturi.
4. Unscrew (counterclockwise) the brass nut using the ear clamp. This will leave the nut in the vent tube and the piece of 1/4" clear plastic tube.
5. Remove the brass nut on the new venturi that has the piece of 1/4" clear plastic tubing. The 1/4" clear plastic tubing can be removed from the new venturi if the same tubing stayed in the vent tube.
6. Install the new venturi into the brass nut that was left in the vent tube.
7. Remove the other two brass nuts in the new venturi.
8. Insert 1/4" clear and yellow tubing and tighten brass nuts.
9. Insert vent line into the poly elbow.
10. Replace front Console lid and tighten four corner screws.

View Maintenance Video: <https://www.youtube.com/watch?v=WDXCNaJ1Ud4&t=236s>