

## FLG3 GRAVITY FEED SPRAY GUN AND CUP

**IMPORTANT: Before using this equipment, read all safety precautions on page 2 and instructions. Keep for future use.**

### GUN DESCRIPTION

The FLG3 is a light weight, anodized aluminum, general purpose gravity feed spray gun designed for use in various types of spraying applications. Various models are available to handle HVLP, water based, and solvent based spraying applications.

These guns are sold with either a 1 liter aluminum cup (GFC-502) or a 20 oz. Delrin cup (GFC-501). These guns are suitable for use with water based materials **ONLY** if used with a Delrin cup, or with a disposable cup system.

### WARNING

**Halogenated hydrocarbon solvents - for example; 1, 1, 1- trichloroethane and methylene chloride - can chemically react with the aluminum in this gun and cause an explosion hazard. Read the label or data sheet for the material you intend to spray. Do not use spray materials containing these solvents with this spray gun.**

**IMPORTANT: This gun may be used with most common coating and finishing materials. It is designed for use with mildly corrosive and non-abrasive materials. If used with other high corrosive or abrasive materials, it must be expected that frequent and thorough cleaning will be required and the necessity for replacement of parts will be increased.**

### HVLP MODELS:

HVLP models of this gun were manufactured to provide maximum transfer efficiency by limiting air cap pressure to 10 psi (complies with rules issued by SCAQMD and other air quality authorities).

HVLP models of this gun will produce approximately 10 psi cap pressure at 23 psi gun inlet pressure, as measured at the gun inlet. An air cap test kit (see Accessories) should be used to insure 10 psi cap pressure is not exceeded.

The No. 3 (HVLP) air cap requires a 13 cfm air supply at the gun inlet of 23 psi max., measured with the trigger pulled.

### CUP DESCRIPTIONS

#### 120175 (GFC-502) – 1 Liter Aluminum Cup

The cup is constructed from durable aluminum to provide trouble-free operation. The cup insert is electroless nickel plated brass. The disposable cup lid is recyclable and is constructed with recycled polyethylene. The lid has a unique drip check to prevent paint from dripping out of the vent in the lid.

#### 190252 (GFC-501) – 20 oz. Delrin Cup

The cup and screw-on lid are constructed from durable Delrin to provide trouble-free operation. The lid has a unique drip check to prevent paint from dripping out of the vent in the lid. The cup also has a high grade stainless steel connector which is compatible with water based and all common coating materials.

### ASSEMBLY OF CUP TO GUN

This gun has been assembled with a cup gasket (#7) (blue) in the fluid inlet of the gun body. Place filter (#29) in the cup outlet at this time if desired. See Cup Drawing on page 4. Assemble cup to gun and tighten hand tight.

### INSTALLATION

#### Note

Protective coating and rust inhibitors have been used to keep the gun in good condition prior to shipment. Before using the gun, flush it with solvents so that these materials will be removed from fluid passages.

For maximum transfer efficiency, **do not use more pressure than is necessary to atomize the material being applied.**

Connect the gun to a clean, moisture and oil free air supply using a hose size of at least **5/16" I.D.** hose. Do not use 1/4" I.D. hose. (25' x 1/4" hose at 18 CFM has a pressure loss of 25 psi. 25' x 5/16" hose at 18 CFM has a pressure loss of 8 psi.)

#### Note

Depending on hose length, larger I.D. hose may be required. Install an HAV-501 air gauge at the gun handle and air cap test kit over tip. When gun is triggered on, adjust regulated pressure to desired setting to provide a maximum of 10 psi at the air cap. **Do not use more pressure than is necessary to atomize the material being applied.** Excess pressure will create additional overspray and reduce transfer efficiency.

#### Note

If quick connects are required, use only high flow quick connects approved for HVLP use, such as DeVilbiss HC-4419 and HC-4719. Other types will not flow enough air for proper gun operation.

#### Note

If an air adjusting valve is used at the gun inlet, use DeVilbiss Model HAV-500 or HAV-501. Some competitive adjusting valves have significant pressure drop that can adversely affect spray performance. Models HAV-500 and HAV-501 have minimal pressure drop, which is important for HVLP spraying.

### OPERATION

Mix, prepare and strain the material to be sprayed according to the paint manufacturer's instructions.

Strain material through a 60 or 90 mesh screen.

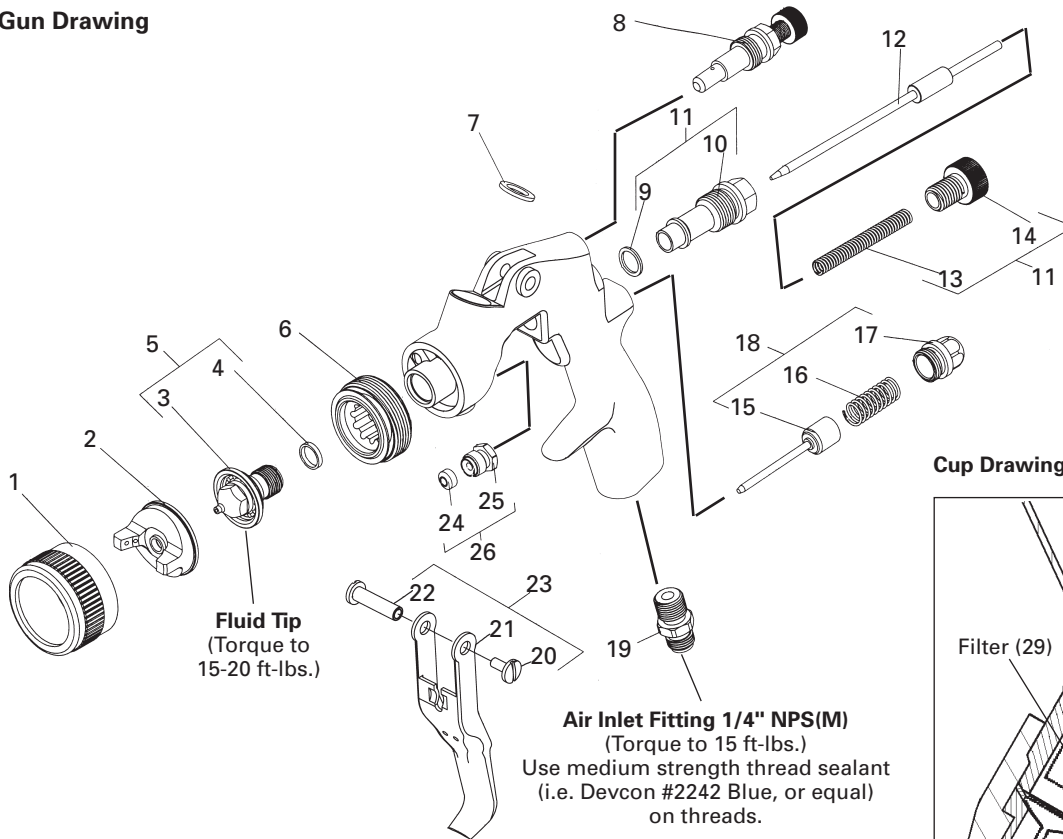
### FILLING WITH PAINT

Fill the cup with paint to the full mark (GFC-502) or to bottom of the threads (GFC-501). **Do not overfill.**

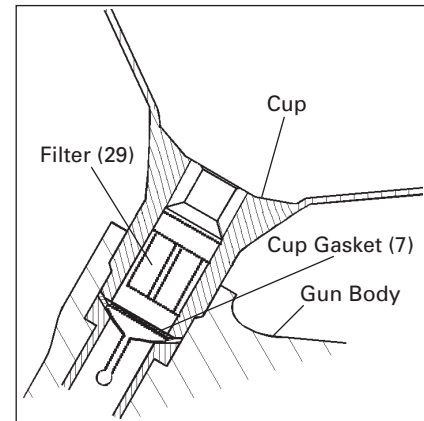
### INSTALLING THE LID

Place plastic lid on the top of the cup, and **push in the center of the lid to assemble lid (GFC-502) or screw lid onto cup (GFC-501).** Fold vent cap and push onto center portion of lid (if vent cap is not already assembled).

Gun Drawing



Cup Drawing

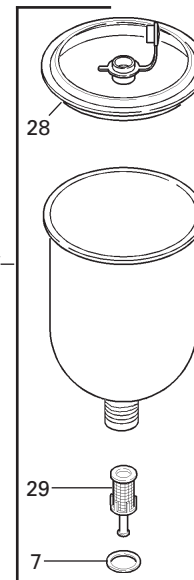


PARTS LIST

Ref. No.	Computer Part No.	Replacement Part No.	Description	Ind. Parts Required
1	803055	FLG-333	Retaining Ring	1
2	See Chart 1		Air Cap	1
3	---	---	Fluid Tip	1
*4	690020	FLG-304-K5	Fluid Tip Seal (Kit of 5)	1
5	See Chart 2		Fluid Tip & Seal Kit	
6	690021	FLG-305	Baffle	1
7	192151	KGP-13-K5	Cup Gasket Kit (Kit of 5)	1
8	803056	FLG-334	Spreader Adjustment Valve	1
*9	---	---	Seal	1
10	---	---	Bushing	1
11	803057	FLG-491	Seal, Bushing, Spring & Knob Kit	1
12	690023	FLG-311	Fluid Needle	1
*13	---	---	Needle Spring	1
14	---	---	Needle Adjusting Knob	1
*15	---	---	Air Valve	1
*16	---	---	Air Valve Spring	1
17	---	---	Air Valve Cap	1
18	803058	FLG-492	Air Valve Kit	1
19	690026	FLG-322	Air Inlet Fitting	1
*20	---	---	Trigger Screw	1
21	---	---	Trigger	1
*22	---	---	Trigger Stud	1
23	690029	FLG-485	Trigger, Stud & Screw Kit	1
*24	---	---	Needle Packing	1
25	---	---	Needle Packing Nut	1
26	690028	FLG-484	Needle Packing & Nut Kit (3 Packings & 1 Nut)	1
27	120175	GFC-502	Metal Gravity Feed Cup	1
	190252	GFC-501	Delrin Gravity Feed Cup	1
28	190944	GFC-404-K2	Disposable Lid Kit (Kit of 2) (for GFC-502)	1
	190225	GFC-402	Lid Kit (for GFC-501)	1
29	190181	KGP-5-K5	Filter Kit (Kit of 5)	1

\* A quantity of necessary parts is included in Repair Kit FLG-488 (Computer No. 690031) for complete gun repair and should be kept on hand for service convenience.

GFC-502



GFC-501

