

Operation Manual: KGP-509-1 Gravity Feed Cup

Important:
Read and follow all instructions and safety precautions
before using this equipment.

The KGP gravity feed cup is designed for use with the DeVilbiss GFG,GFV and GFHV spray guns. It is manufactured from nylon with a high grade stainless steel connector. The lid is fitted with a drip check to prevent accidental coating material spillage from the vent hole if the operator tilts the cup. They are suitable for use with most solvent based and waterborne coating materials.

Models

KGP-509-1 275 ml Cup assembly 1/4BSP connector thread.

Specifications

Materials in contact with Coating Material:

Cup	:	Nylon with high grade stainless steel connector.
Lid assembly	:	Nylon.
Drip check lid	:	High density polyethylene.
Washer	:	PTFE.
Filter	:	Nylon.

Weight:

KGP-509-1	:	115 g.
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EC Declaration of Conformity

We: **ITW Finishing UK, Ringwood Rd, Bournemouth, Dorset, BH11 9LH, UK**, as the manufacturer of the **Gravity Cup model KGP-509-1** declare, under our sole responsibility, that the equipment to which this document relates is in conformity with the following standards or other normative documents:

EN 13463-1:2001; and thereby conform to the protection requirements of Council Directive **94/9/EC** relating to **Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres** protection level **II 2 G X**, suitable for use in ZONE 1 hazardous areas.



B. Holt, General Manager
9th February 2004



SAFETY WARNINGS



Fire and explosion

Solvents and coating materials can be highly flammable or combustible, especially when sprayed.

Work stations must be provided with adequate ventilation/exhaust to prevent the build-up of flammable vapours.



Smoking and naked flames must not be allowed in the spraying or mixing areas.

Fire extinguishing equipment must be provided in the spraying and mixing areas.



Users must comply with all local and national codes of practice and insurance company requirements governing ventilation, fire precautions, operation, maintenance and housekeeping of work stations.

HALOGENATED HYDROCARBON SOLVENTS - for example 1,1,1-Trichloroethane and Methylene Chloride can chemically react with aluminium and galvanised or zinc coated parts and cause an explosion hazard. Read the label and data sheet of the material you intend to spray.



This equipment, as supplied, is suitable for use with Halogenated Hydrocarbons and the user must ensure that all other equipment in the system is also suitable for use with these materials. **DO NOT SPRAY MATERIALS CONTAINING THESE SOLVENTS EXCEPT WITH EQUIPMENT SPECIFICALLY DESIGNATED BY THE MANUFACTURER AS BEING SUITABLE FOR SUCH USE.**

STATIC ELECTRICITY - is generated by fluid moving through pipes and hoses. A static spark, capable of igniting certain solvents and coating materials, could be produced by high fluid flow rates. To prevent the risk of fire or explosion, earth continuity to the spray equipment and object being sprayed should be maintained.



Personal Protective Equipment

.TOXIC VAPOURS - when sprayed, certain materials may be poisonous, create irritation or otherwise be harmful to health. Always read carefully all labels and safety/performance data for the material being sprayed and follow any recommendations. **IF IN DOUBT, CONSULT THE MATERIAL SUPPLIER.**



The use of respiratory protective equipment is recommended at all times when spraying. The type of respiratory protective equipment used must be compatible with the material being sprayed and the level of concentration.



Always wear eye protection when spraying or cleaning the equipment.



Gloves must be worn for spraying or cleaning the equipment when certain coating materials and solvents are used.



Training

Personnel should be given adequate training in the safe use and maintenance of this equipment. Training courses on all aspects of the equipment are available. For details contact your local representative. The instructions and safety precautions contained in this literature and the literature supplied with the coating material should be read and understood before the equipment is used.

Misuse

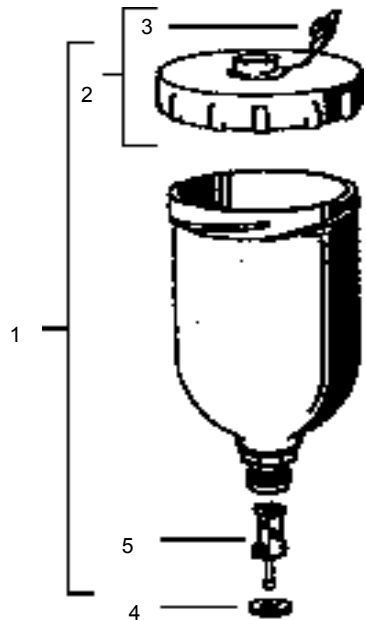
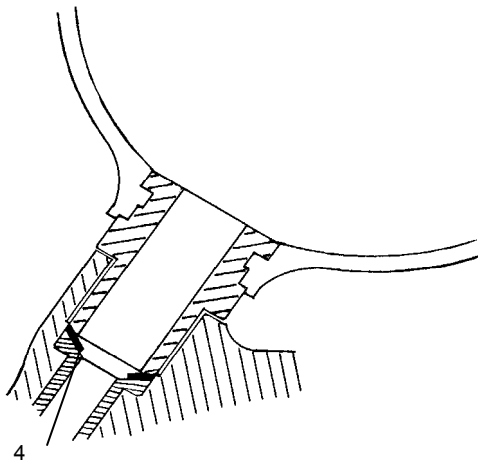
- All spray guns project particles at high velocity and must never be aimed at any part of the body.
- Never exceed the recommended safe working pressures for any of the equipment used.
- The fitting of non-recommended or non-original accessories or spare parts may create hazardous conditions.
- Before dismantling the equipment for cleaning or maintenance, all pressures, air and material, must be isolated and released.

The disposal of non-metallic materials must be carried out in an approved manner. Burning may generate toxic fumes. The removal of waste solvents and coating materials should be carried out by an authorised local waste disposal service.

The materials used in the construction of this equipment are (bearing in mind the warning on Halogenated Hydrocarbons) solvent resistant enabling the equipment to be cleaned using gun washing machines. However, this equipment must not be left inside the gun washing machine for prolonged periods of time after the automatic cleaning cycle has been completed. The solvents used in the gun washing machine should be regularly checked to ensure that the equipment is not flushed through with contaminated material. Follow the recommendations of the machine manufacturer.

Parts List			
Ref.	Order No.	Description	Qty.
1	KGP-509-1	Cup assembly 275 ml	1
2	KGP-401	Lid assembly 275 ml	1
3	GFC-2-K5	Drip check lid	1
4	KGP-12-K5	Washer	1
5	KGP-5-K5	Filter	2

Note: Order numbers shown in parts list for figure 1 with suffix '-K5' at the end of the Order No. indicate a kit of parts. Example KGP-12-K5 is a kit of five washers



Installation

IMPORTANT: To ensure that this equipment reaches you in first class condition, protective coatings, rust inhibitors, etc., have been used. Flush all equipment through with a suitable solvent before use to remove these agents from the material passages.

Remove filter (5) and washer (4) from inside cup. Push filter into connector. Insert washer into gun body and screw cup assembly onto gun. Tighten sufficiently to seal against washer (4).

Operations

1. Adjust the spray gun controls as instructed in the spray gun Operation Manual before filling the cup.
2. Mix, prepare and filter the coating material to be sprayed to the manufacturer's instructions.
3. Hold cup and remove cup lid. Fill cup, do not overfill. Replace lid and hand tighten.

Note: Always keep lid vent hole clear.

Preventive Maintenance

Cleaning

1. Turn off air supply to gun and release pressure.
2. Empty coating material from cup.
3. Fill cup with a small amount of solvent replace lid and gently shake. Empty solvent and clean. Check vent holes in lid assembly are clear.
4. Clean filter by immersing in solvent and dry with compressed air.

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