SB-E-4-220

II 2 G X

Binks STEADI-GRIP “SG-2” 2 QT. PRESSURE CUPS

Model No. 80-350 (Standard)

SPECIFICATIONS

MAX. WORKING PRESSURE	15 psig	1.0 bar
OPTION (see p8)	40 psi	2.7 bar
OVERALL HEIGHT		
WITH AUXILIARY HANDLE	16 9/16 in	421 mm
WITHOUT AUXILIARY HANDLE	11 3/4 in	298 mm
BASE DIAMETER	6 in.	152 mm
DIA. ACROSS CLOSED CLAMPS	8 1/16 in	205 mm
DIA. ACROSS OPEN CLAMPS	8 1/16 in	205 mm
AIR INLET & OUTLET CONNECTION SIZE	1/4 NPS (m)	-
FLUID OUTLET CONNECTION SIZE	3/8 NPS (m)	-
FLUID CAPACITY	2 Qts (US)	1.9 Ltr
WEIGHT	4 lb.13oz.	2.18 kg

⚠ WARNING

The following hazards may occur during the normal use of this equipment. Please read the following chart.

HAZARD	CAUSE	SAFEGUARDS
FIRE 	Solvents and coatings can be highly combustible, especially when sprayed.	1. Adequate exhaust must be provided to keep the air free of accumulations of flammable vapours 2. Smoking must never be allowed in the spray area. 3. Fire extinguishing equipment must be present in the spray area.
FIRE - PRESSURE CUP 	Vapours from flammable liquids can catch fire or explode	1. Keep Cup at least 3 metres away from sources of ignition, including hot surfaces, mechanical sparks and arcing (non-explosion proof) electrical equipment. 2. Electrostatic charges may accumulate and may ignite flammable vapours by brush discharges. Ensure the Cup is earthed with conductive air or fluid hoses or earthing clamp.
INHALING TOXIC SUBSTANCES 	Certain materials may be harmful if inhaled, or there is contact with the skin.	1. Follow the requirements of the Material Safety Data Sheet supplier by the coating manufacturer. 2. Adequate exhaust must be provided to keep the air free of accumulations of toxic materials. 3. Use a mask or respirator wherever there is a risk of inhaling sprayed materials. The mask must be suitable for the material being sprayed.
EXPLOSION, PRESSURE TANK—RUPTURE 	Making any changes or modification to the pressure Cup may weaken it.	1. Never drill into, weld or modify the Cup in any way. 2. Do not adjust, remove or tamper with the safety valve. 3. Only replace the safety valve with the correct spare part as listed. 4. Do not fit any other safety valve of a higher pressure rating than the maximum working pressure of the Cup.
GENERAL SAFETY	Improper operation or maintenance may create a hazard.	Operators should be given adequate training in the safe use and maintenance of this equipment. Refer to Pressure Systems Safety Regulations 2000 Approved Code of Practice or other national codes.

INTRODUCTION

Binks Steadi-Grip "SG-2" Pressure Cups are CE marked in accordance with the ATEX Directive 94/9/EC, Cat 2 G X for use in Zones 1 and 2.

These Cups are ideal for component spraying and industrial applications where small batch production spraying is required. The 2 qt. capacity is sufficient to complete large spray jobs without refilling the cup. Its lightweight and rugged construction is excellent for portability allowing the operator to make fluid and air control adjustments quickly and efficiently at the spray station.

The internal construction is designed for waterborne and solvent base materials.

Other features include:

- Stainless steel pick-up tube, fluid fittings and removable plastic liner makes it corrosion resistant.
- "Wide-mouth" opening allows easy cleaning, plastic liner removal and quick color change.
- Positive grip carrying handle for operator comfort.
- Wide stainless steel base for stability and corrosion resistance.
- 0-15 psig fluid pressure range.
- Optional 0-40 psig pressure kit available for high viscosity fluids.

SETUP AND OPERATION

Refer to "TYPICAL INSTALLATION" drawing below

Set up the Steadi-Grip "SG2" with the CONVENTIONAL or HVLP gun along with at least 5 ft. of air and fluid hose. Attach air hose from extractor to air inlet on handle of steadigrip assembly. Pour paint into canister with liner. Re-attach lid to canister and firmly tighten four knobs over canister lid. Set air pressure from air regulator mounted on extractor and fluid pressure by adjusting fluid pressure adjustment knob on cup handle.

⚠ WARNING

Chlorinated solvents and aluminum are incompatible and will cause an adverse chemical reaction, possibly resulting in bodily injury. Under NO circumstances should chlorinated solvents be used with the "SG2" pressure cup without the use of the plastic liner (80-355).

⚠ WARNING

All air and fluid pressure in the system must be relieved before servicing the cup and before cup is filled or cleaned. Attempting to service the cup while pressurized could result in damage to components or personal injury.

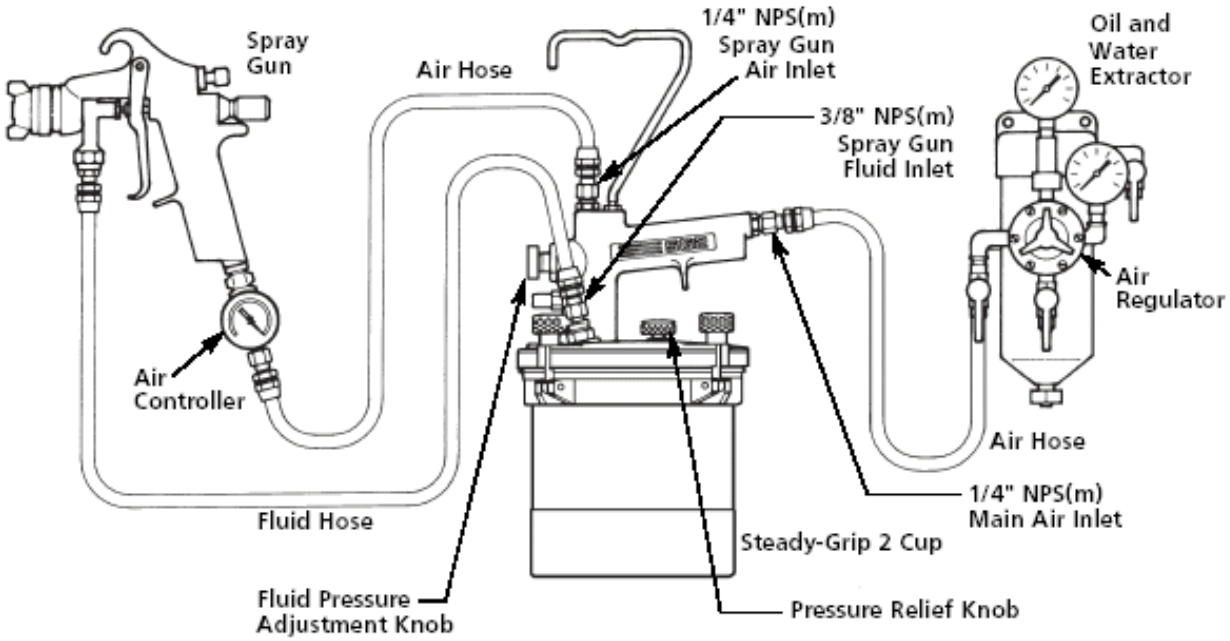
⚠ CAUTION

Do not exceed 100 PSIG input air pressure into the cup. Excessive pressure could damage components

⚠ NOTE

Before refilling canister with paint, shut odd air supply to the cup and release pressure from canister by rotating pressure relief knob counter clockwise

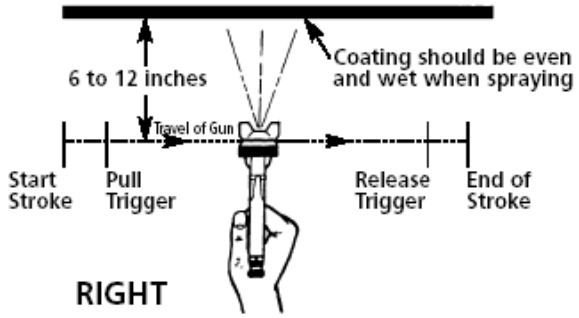
TYPICAL INSTALLATION

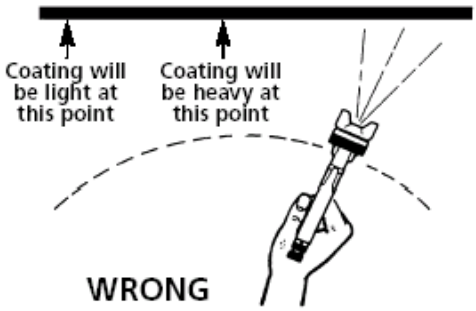


SPRAY TECHNIQUE

The first requirement for a good resultant finish is the proper handling of the gun. The gun should be held perpendicular to the surface being covered and moved parallel with it.
The stroke should be started before the trigger is pulled, and the trigger should be released before the stroke is ended.

This gives accurate control of the gun and material. The distance between the gun and surface should be 6 to 10 inches depending on material and atomizing pressure. The material deposited should always be even and wet. Lap each stroke over the preceding stroke to obtain a uniform finish.





PARTS LIST

ITEM NO	PART NO	DESCRIPTION	QTY
1	85-46	SPRING CAP	1
2▲	85-257	SPRING	1
3	85-184	CAP	1
4	85-267	WASHER	1
5▲○	85-183-5	DIAPHRAGM	1
6	85-262	DIAPHRAGM RETAINER	1
7▲	20-6683	O-RING 2-003 EPR	2
8	85-181	SEAT	1
9▲	85-266	SEAL	1
10	85-259	VALVE	1
11▲	54-1637	SPRING	1
12▲	85-84	POP VALVE (Set at 15 psig)	1
13▲	80-360	CHECK VALVE ASSEMBLY	1
14	80-361	CHECK VALVE BODY	1
15	20-3619	O-RING	1
16	20-2183	BALL 3/16 Dia	1
17	80-362	CHECK VALVE SPRING	1
18	20-6161	SET SCREW 1/4-28 X 1/4Headless Hex	1
19	GA-313	GAUGE (0-15 psig)	1
20	80-365	STEADI-GRIP HANDLE	1
21	54-768	AIR CONNECTION 1/4 NPS (m)	2
22▲	80-373	HANDLE GASKET	1
23	80-367	AUXILIARY HANDLE NUT	1
24	80-364	AUXILIARY HANDLE	1
25	80-372	VENT KNOB	1
26	80-385	FLUID TUBE ASSEMBLY	1
27▲	80-388	FLUID TUBE SEAL	1
28	80-389	FLUID TUBE NUT	1
29	80-370	CANISTER LID Standard	1
30	20-6582	SCREW 1/4-20 X 5/8 flat head socket	2
31▲	80-392	LID GASKET (E.P.D.M.)	1
32○	80-355C	DISPOSABLE CAN LINER see 8-0-356 below	1
33	80-375	2 QT. CANISTER ASSEMBLY	1
34■†	80-382m†	RETAINER RING	4
35■†	80-380m†	KNOB	4
36■†	80-381m†	SWIVEL	4
37■†	20-4870m†	PIN	4
38†	-	CANISTER	1

▲	Includes 80-353 Repair Kit.
○	Available only as a quantity pack
•	Items **NOT** available separately
■	Indicates parts are included in Spare Parts Kit No. 80-390. (1 each
†	Indicates parts are included in 80-375 Assembly (33)

NOTE
To convert to High Pressure (0-40 psig) see page **8**

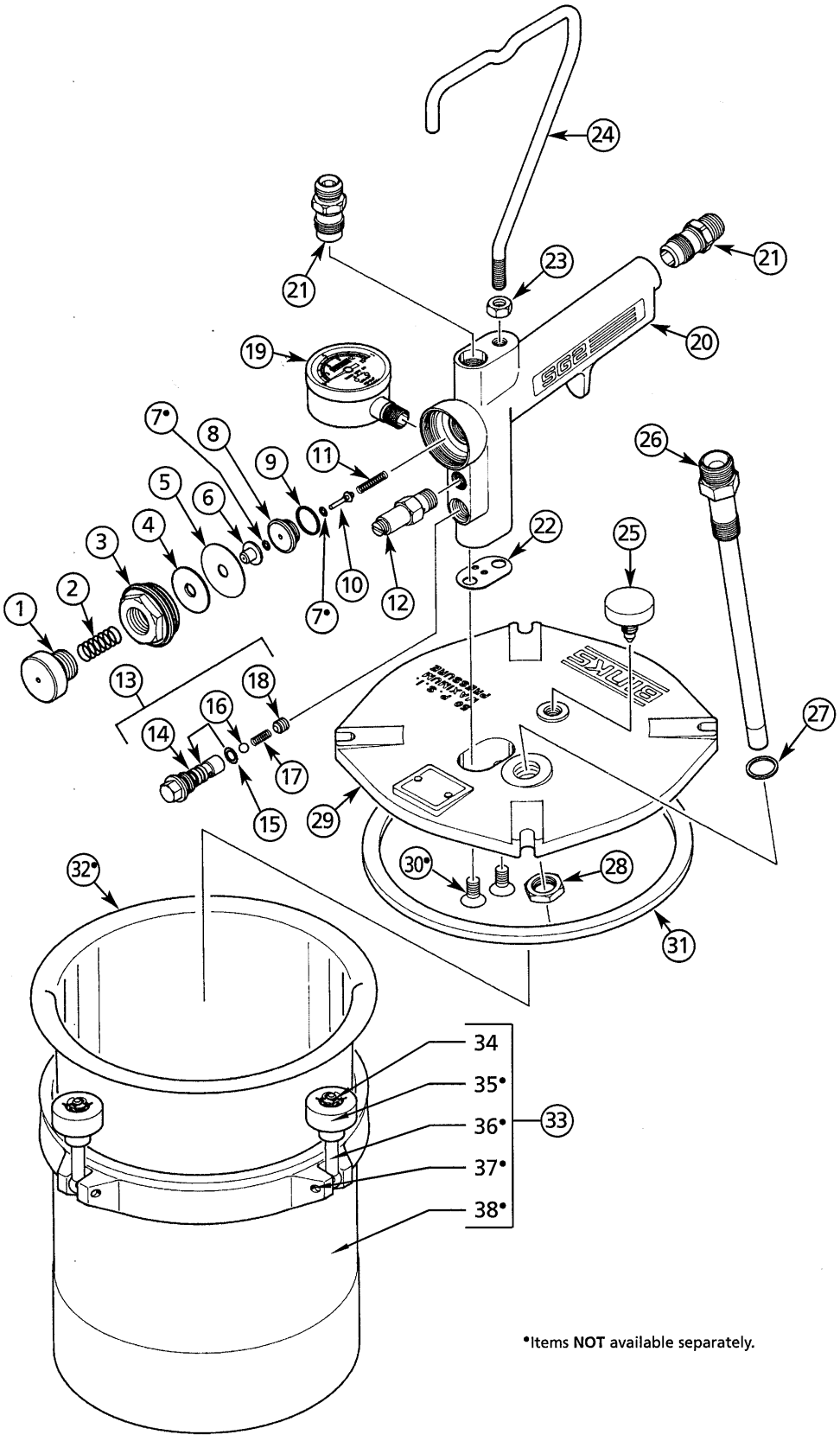
ACCESSORIES
(Not furnished. Please order separately)

80-356	CANISTER LINER QUANTITY PACK	12/pk
73-125	AIR CONTROLLER (for atomizing air)	
80-352	HIGH FLUID PRESSURE CONVERSION KIT (0-40 psig)	
80-353	PRESSURE CUP REPAIR KIT	
80-390.	KNOB REPLACEMENT KIT	

80-353 PRESSURE CUP REPAIR KIT
(Model 80-350)

85-257	SPRING	1
85-183-5	DIAPHRAGM	1
20-6683	O-RING 2-003 EPR	
85-266	SEAL	1
54-1637	SPRING	1
85-84	POP VALVE (Set at 15 psig)	1
80-360	CHECK VALVE ASSEMBLY	1
80-373	HANDLE GASKET	1
80-388	FLUID TUBE SEAL	1
80-392	LID GASKET (E.P.D.M.)	1

MODEL 83-350 PRESSURE CUP



•Items **NOT** available separately.

MODEL 80-352 HIGH PRESSURE RETRO-FIT CONVERSION KIT

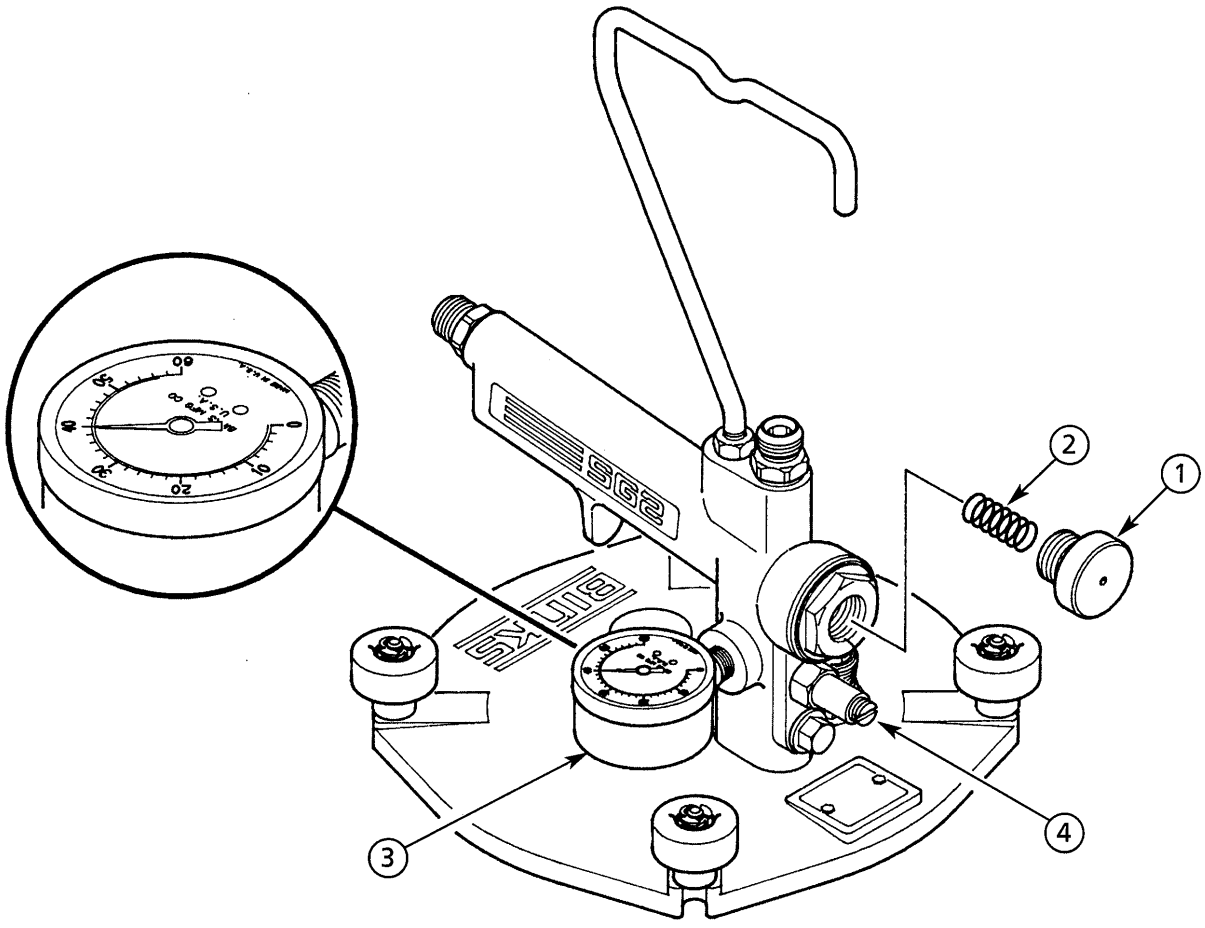
CONVERSION INSTRUCTIONS

⚠ WARNING

Attempting to install the conversion kit while the system is pressurised could result in damage to components or bodily injury

Before converting to high pressure kit, depressurize and shut off the entire system before installing the conversion kit. Keep the cup lid in fully clamped position.

To convert to high pressure (0-40 psig) remove spring cap (1) and replace spring (2) with an 85-80 spring. Then, replace the standard GA-313 gauge (0-l5 psig) with an 85-70 (0-60 psig) gauge (3). Pressurize the cup slowly with air by turning spring cap (1) clockwise. With the spring cap screwed all the way in, adjust the pop valve by turning the pop valve adjustment screw (4) clockwise until the pop valve releases air at 40 psi gauge pressure as shown in the illustration below. All items to convert to high pressure are provided in 80-352 kit.



NOTES

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EC DECLARATION OF CONFORMITY

We: **ITW Finishing UK**
Ringwood Rd
Bournemouth
Dorset
BH11 9LH
UK

As the manufacturers representative of the items listed below:

TYPE : **SG-2 Pressure Feed Cup**

MODEL: **83-350**

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*.**

Approved by:

P C Loveless
Manufacturing Engineering Manager

Date: **19/1/2004**

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