240-3113 SOLVENT METER KIT
INSTALLATION INSTRUCTIONS
In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

### WARNING
Harms or unsafe practices which could result in severe personal injury, death or substantial property damage.

### CAUTION
Harms or unsafe practices which could result in minor personal injury, product or property damage.

### NOTE
Important installation, operation or maintenance information.

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Read the following warnings before using this equipment.

**WARNING**

READ THE MANUAL
Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.

OPERATOR TRAINING
All personnel must be trained before operating finishing equipment.

EQUIPMENT MISUSE HAZARD
Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.

LOCK OUT / TAG-OUT
Failure to de-energize, disconnect, lock out and tag-out all power sources before performing equipment maintenance could cause serious injury or death.

AUTOMATIC EQUIPMENT
Automatic equipment may start suddenly without warning.

PRESSURE RELIEF PROCEDURE
Always follow the pressure relief procedure in the equipment instruction manual.

KEEP EQUIPMENT GUARDS IN PLACE
Do not operate the equipment if the safety devices have been removed.

KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY

WEAR SAFETY GLASSES
Failure to wear safety glasses with side shields could result in serious eye injury or blindness.

INSPECT THE EQUIPMENT DAILY
Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.

NEVER MODIFY THE EQUIPMENT
Do not modify the equipment unless the manufacturer provides written approval.

NOISE HAZARD
You may be injured by loud noise. Hearing protection may be required when using this equipment.

**PROJECTILE HAZARD**
You may be injured by venting liquids or gases that are released under pressure, or by flying debris.

**STATIC CHARGE**
Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

**ELECTRIC SHOCK / GROUNDING**
Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

**PINCH POINT HAZARD**
Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.

**HIGH PRESSURE CONSIDERATION**
High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the spray gun, hose leaks, or ruptured components can inject fluid into your body and cause extremely serious injury.

**WEAR RESPIRATOR**
Toxic fumes can cause serious injury or death if inhaled. Wear a respirator as recommended by the fluid and solvent manufacturer’s Material Safety Data Sheet.

**TOXIC FLUID & FUMES**
Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, injected or swallowed. LEARN and KNOW the specific hazards or the fluids you are using.

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**NOTE**
Important installation, operation or maintenance information.

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IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT. FOR FURTHER SAFETY INFORMATION REGARDING THIS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).

Binks reserves the right to modify equipment specification without prior notice.
Solvent Meter Accessory Kit

The solvent flow meter is used to measure solvent usage during color changes and flushes. The flow meter is the same as used to measure paint flow, and is installed upstream of the color 0 valve and the color stack.

⚠️ CAUTION

The solvent meter must be enabled in the system configuration, accessible only by distributor. Contact distributor for installation and proper kit functionality.

Installation

To install the solvent meter kit, be sure to first depressurize the GEMS system and disconnect electric power. For more information regarding this procedure, see 1.1: System Depressurization Procedure of the Maintenance and Repair Manual 77-2983. Never attempt to touch any electrical componentry when power is supplied.

Use the supplied screws to mount the supplied bracket to the flow meter body as shown. Mount the bracket to the fluid panel using the supplied mounting screws, washers and nuts. Note the flow direction arrow on the solvent meter should be pointing up—opposite the paint meter.

Route the associated tubing form the solvent meter up to the solvent valve (A0) and connect it to the existing elbow fitting. The bottom of the flow meter is now the solvent inlet to the system. Attach solvent supply to 3/8” NPS male fitting. **If necessary, cut tube to appropriate length before tightening ferrule and fitting to solvent inlet.**
Open the enclosure door. Remove one of the pre-installed plugs from one three unused strain reliefs. This is where the wire harness will enter the control enclosure. Unscrew the strain relief end nut and feed the flow meter cable through it into the cabinet.

Remove the wire tray covers and route the wiring through the wire tray before connecting wiring. The white wire #308 connects into the board terminal location L3C1 (shown below). Tighten the terminal screw so the wire will not slip out once installed.

Black wire #275 connects to L3C10 - DCC on the board input. Red wire #216 (#218 if Intrinsically Safe option used) connects to the C13 terminal block.
Route the cable through both wire trays before placing the covers back in place. With the cable in place, be sure to tighten down the nut end of the strain relief, so the cable cannot be tugged out of position. Verify all connections are solid and tight, and close the enclosure door.

Route the cable connector end through the fluid panel opening to the sensor body. Connect the solvent meter connector to the body of the flow sensor and tighten into place. Note the connector and pickup body are keyed so there is only one correct connector orientation.

The flow meter must be enabled in the system configuration, accessible only by distributor. Contact distributor for installation and proper kit functionality.

Power on the system and prime solvent through the system. Perform a Color 0 Resin Only calibration and verify that the measured volume matches up with the calculated volume. If not, revise the cc/pulse value in the settings screen to the correct amount (.123 is the default). Correct solvent usage will be shown on the Usage and Jobs (Color Change) screens.
WARRANTY POLICY

Binks products are covered by Finishing Brands one year materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Finishing Brands, will void all warranties. For specific warranty information please contact the closest Finishing Brands location listed below.

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