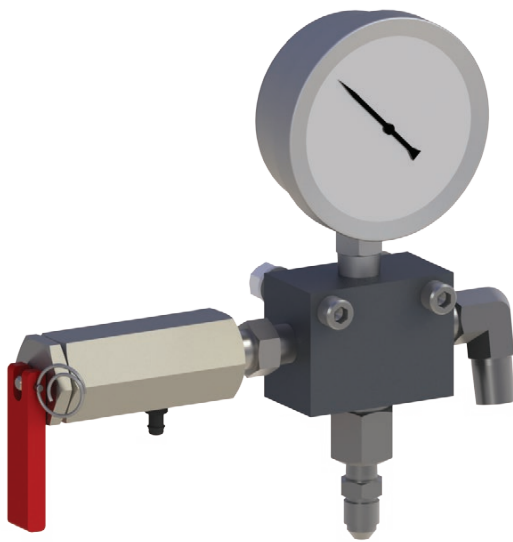




# CENTURY FRP PUMP CATALYST MANIFOLD & FLOW METER ASSEMBLIES



**Models: 101-9469-75  
101-9469-800  
101-9469-2050**



**Model: 101-9470**

In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

## **WARNING**

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

## **CAUTION**

Hazards or unsafe practices which could result in minor personal injury, product or property damage.

## **NOTE**

Important installation, operation or maintenance information.

## **WARNING**

### Read the following warnings before using this equipment.



#### **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.



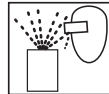
#### **NEVER MODIFY THE EQUIPMENT**

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 flying debris.



#### **PINCH POINT HAZARD**

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



#### **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.



#### **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.



#### **FIRE AND EXPLOSION HAZARD**

Improper equipment grounding, poor ventilation, open flame or sparks can cause a hazardous condition and result in fire or explosion and serious injury.



#### **MEDICAL ALERT**

Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor you suspect an injection injury.
- Show the doctor this medical information or the medical alert card provided with your airless spray equipment.
- Tell the doctor what kind of fluid you were spraying or dispensing.



#### **GET IMMEDIATE MEDICAL ATTENTION**

To prevent contact with the fluid, please note the following:

- Never point the gun/valve at anyone or any part of the body.
- Never put hand or fingers over the spray tip.
- Never attempt to stop or deflect fluid leaks with your hand, body, glove or rag.
- Always have the tip guard on the spray gun before spraying.
- Always ensure that the gun trigger safety operates before spraying.



#### **PROP 65 WARNING**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**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.

## ⚠ WARNING



**Read the following warnings before using this equipment.**  
**When using this equipment with Methyl Ethyl Ketone Peroxide in Plasticizer OBSERVE the following precautions:**  
**CORROSIVE TO THE EYES – MAY CAUSE BLINDNESS. MAY BE FATAL IF SWALLOWED. STRONG IRRITANT. CONTAMINATION OR HEAT MAY LEAD TO FIRE OR EXPLOSIVE DECOMPOSITION. COMBUSTIBLE.**



**Do not handle or use until safety precautions concerning Methyl Ethyl Ketone Peroxides in the Manufacturer's literature have been read and understood.**

Contact with foreign materials, especially strong mineral acids, metals (including certain equipment and containers) or metal salts, or exposure to heat above 135° F (57° C) may lead to violent decomposition, releasing of flammable vapors which may self-ignite.

Do not get into eyes or on skin or clothing. Wear eye and skin protection when handling. Avoid breathing mist. Use with adequate ventilation. Store only in the original closed container. Wash hands thoroughly after handling. Protect from direct sunlight, heat, sparks and other sources of ignition. Prevent contamination with foreign materials. Do not add to hot materials. To maintain the chemical activity store below 38° C [100° F].

In case of fire, use water spray, foam or dry chemical. In case of spill or leak, absorb or blend with inert, non-combustible material. Place in a suitable container. Dispose of immediately in accordance with federal, state and local regulations.

Do not reuse container as some of the original hazardous contents may still be present.

Follow the above precautions in handling.

## FIRST AID

### EYES

Wash immediately (seconds count) with water and continue washing for at least 15 minutes. Obtain medical attention.

### SKIN

Wash with soap and water. Remove contaminated clothes and shoes and again wash thoroughly with soap and water.

### SWALLOWING

Administer large quantities of milk or water. Obtain immediate medical attention for lavage.

## ⚠ WARNING

### READ & UNDERSTAND THE MATERIAL SAFETY DATA SHEET FROM MATERIAL SUPPLIER



**This equipment is constructed with components of aluminum alloy and SHOULD NOT be used with any Halogenated Hydrocarbon solvents.**

#### **HALOGENATED HYDROCARBON SOLVENTS CAN CAUSE AN EXPLOSION WHEN IN CONTACT WITH ALUMINUM COMPONENTS OF A PRESSURIZED OR CLOSED FLUID SYSTEM (pumps, heaters, filters, etc.)**

The same possibility of an explosion is possible with the galvanized coatings in pressure tanks. The possibility of a non-flammable explosion increases greatly at high operating temperatures.

The explosion could be of sufficient strength to cause bodily injury, death, and substantial property damage.

Cleaning agents, coatings, or adhesives may contain halogenated hydrocarbon solvents. Check with your solvent and paint supplier.

If you are now using a Halogenated Hydrocarbon Solvent in a pressurized fluid system with aluminum components or galvanized wetted parts, the following steps should be taken immediately:

- Remove all pressure; drain and disconnect the entire system.
- Inspect and replace all corroded parts.
- Contact your solvent supplier for a non-halogenated solvent to flush and clean the system of all residues.

Halogenated Solvents are defined as any hydrocarbon solvent containing any of the following elements:

Chlorine	"Chloro" (Cl)
Bromine	"Bromo" (Br)
Fluorine	"Fluoro" (F)
Iodine	"Iodo" (I)

Of those listed, the Chlorinated Solvents will most likely be the type used as a cleaning agent or solvent in an adhesive or coating.

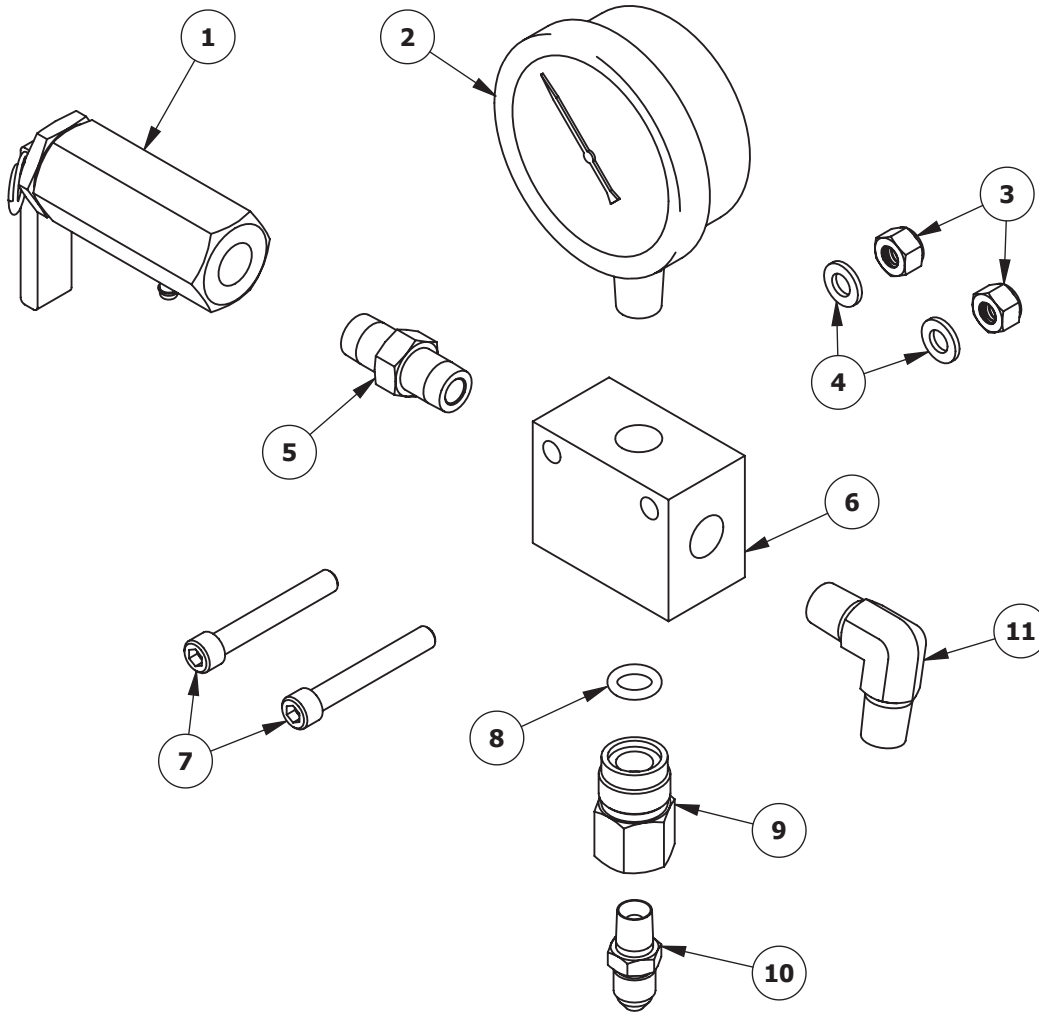
The most common are:

Methylene Chloride  
 1,1,1, Trichlorethane  
 Perchlorethylene

Although stabilizers have been added to some of the solvents to reduce their corrosive effect, **we are aware of none that will prevent these solvents from reacting under all conditions with aluminum components or galvanized coatings.**

Previous use of the solvents under pressurized conditions, without incident, does not necessarily indicate that it can be considered safe.

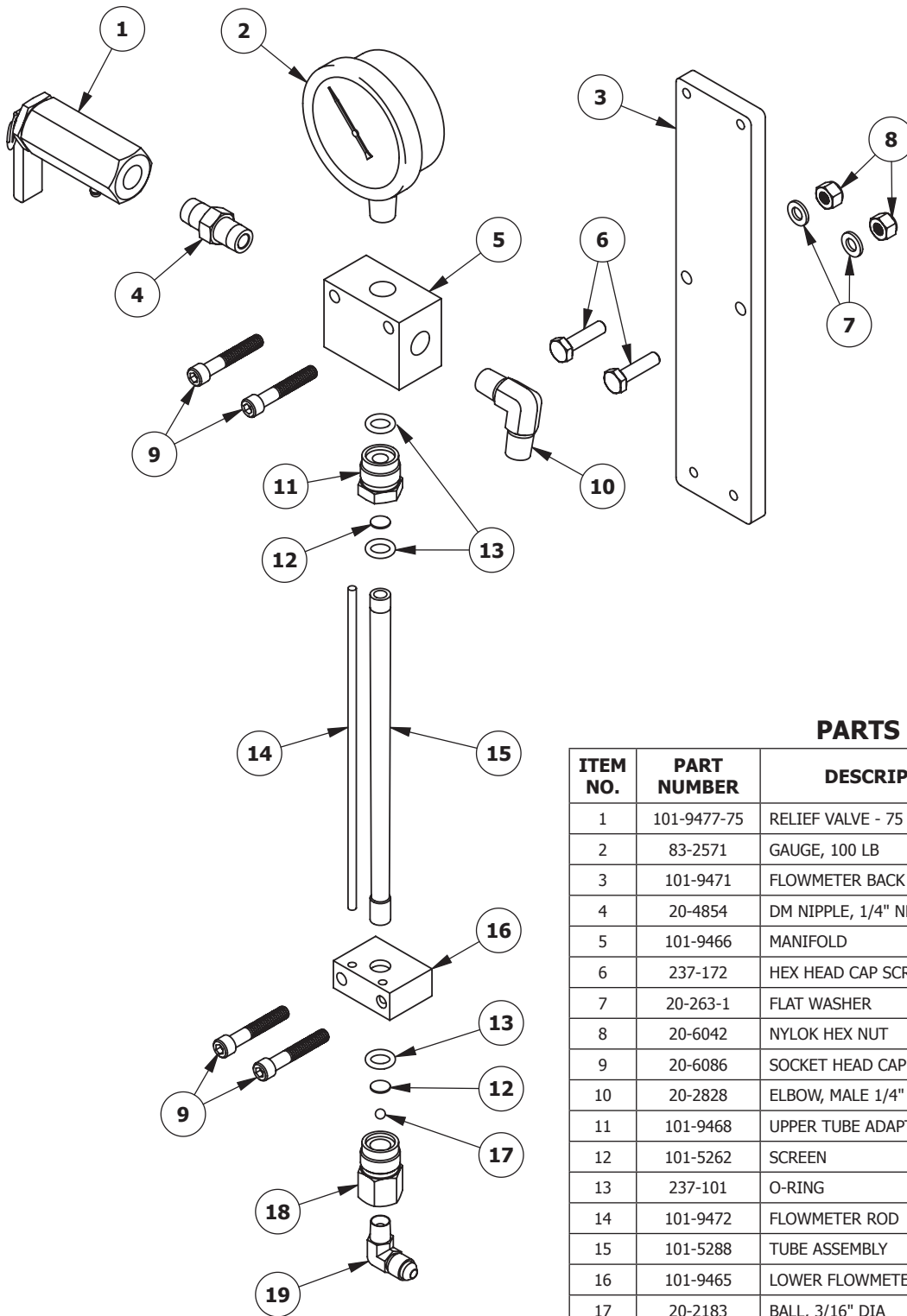
**CATALYST MANIFOLD ASSEMBLIES**



**PARTS LIST**

ITEM NO.	PART NUMBER	DESCRIPTION	101-9469-75 QTY.	101-9469-800 QTY.	101-9469-2050 QTY.	SPRING PART NO.
1	101-9477-75	RELIEF VALVE - 75 PSI	1	-	-	101-9480-75
	101-9477-800	RELIEF VALVE - 800 PSI	-	1	-	101-9480-800
	101-9477-2050	RELIEF VALVE - 2050 PSI	-	-	1	101-9480-2050
2	83-2571	GAUGE, 100 LB	1	-	-	
	107-1637	GAUGE, 1000 LB	-	1	-	
	107-1433	GAUGE, 2000 LB	-	-	1	
3	20-6042	NYLOK HEX NUT	2	2	2	
4	20-263-1	FLAT WASHER	2	2	2	
5	20-4854	DM NIPPLE, 1/4" NPT	1	1	1	
6	101-9466	MANIFOLD	1	1	1	
7	20-5299	SOCKET HEAD CAP SCREW	2	2	2	
8	237-101	O-RING	1	1	1	
9	101-9467	CATALYST INLET	1	1	1	
10	107-1449	DM NIPPLE, 1/8" NPT X JIC #4	1	1	1	
11	20-2828	MALE ELBOW, 1/4" NPT/NPS	1	-	-	
	107-1640	MALE ELBOW, 1/4" NPT X JIC #4	-	1	1	

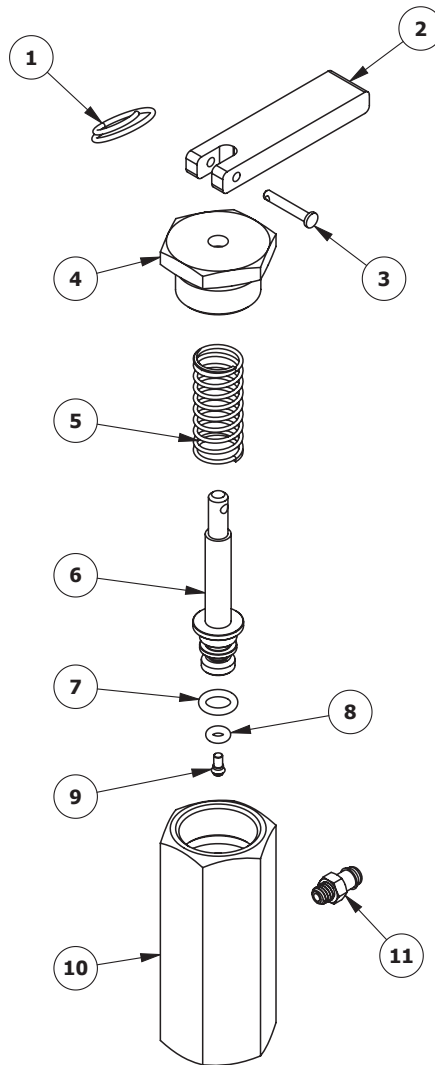
### CATALYST FLOW METER ASSEMBLY



#### PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SPRING PART NO.
1	101-9477-75	RELIEF VALVE - 75 PSI	1	101-9480-75
2	83-2571	GAUGE, 100 LB	1	
3	101-9471	FLOWMETER BACK PLATE	1	
4	20-4854	DM NIPPLE, 1/4" NPT	1	
5	101-9466	MANIFOLD	1	
6	237-172	HEX HEAD CAP SCREW	2	
7	20-263-1	FLAT WASHER	2	
8	20-6042	NYLOK HEX NUT	2	
9	20-6086	SOCKET HEAD CAP SCREW	4	
10	20-2828	ELBOW, MALE 1/4" NPT/NPS	1	
11	101-9468	UPPER TUBE ADAPTER	1	
12	101-5262	SCREEN	2	
13	237-101	O-RING	3	
14	101-9472	FLOWMETER ROD	2	
15	101-5288	TUBE ASSEMBLY	1	
16	101-9465	LOWER FLOWMETER BLOCK	1	
17	20-2183	BALL, 3/16" DIA	1	
18	101-9467	CATALYST INLET	1	
19	107-1646	MALE ELBOW, 1/8" NPT X JIC #4	1	

**CATALYST RELIEF VALVE ASSEMBLIES**

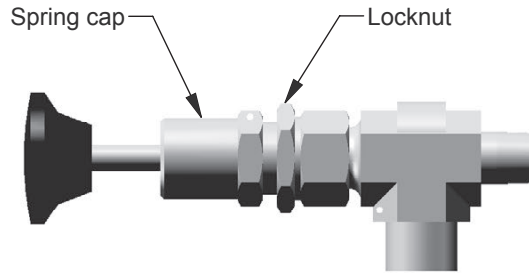


**PARTS LIST**

ITEM NO.	PART NUMBER	DESCRIPTION	101-9477-75 QTY.	101-9477-800 QTY.	101-9477-2050 QTY.
1	20-6901 ◇	COTTER RING	1	1	1
2	101-9482	LEVER	1	1	1
3	101-9483	PIN	1	1	1
4	101-9479	CAP	1	1	1
5	101-9480-75	SPRING - 75 PSI	1	-	-
	101-9480-800	SPRING - 800 PSI	-	1	-
	101-9480-2050	SPRING - 2050 PSI	-	-	1
6	101-9481	VALVE	1	1	1
7	20-6864 ◇	O-RING	1	1	1
8	20-6900 ◇	O-RING	1	1	1
9	101-9484 ◇	SCREW	1	1	1
10	101-9478	RELIEF VALVE BODY	1	1	1
11	20-6902 ◇	TUBE ADAPTER	1	1	1

◇ Items are included within the 106-1280 Repair Kit.

## BINKS CATALYST MANIFOLD & FLOW METER ASSEMBLIES



### PRESSURE ADJUSTMENT

Turn spring cap CLOCKWISE to INCREASE the relief pressure. Turn spring cap COUNTER-CLOCKWISE to DECREASE the relief pressure. Thread locknut against spring cap to lock relief pressure.

107-1649 RELIEF VALVE ACCESSORIES				
PART NUMBER	DESCRIPTION	GUN TYPE	PRESSURE RANGE	COLOR
107-1666	LOW PRESSURE SPRING KIT	INTERNAL MIX	350 – 750 psi	RED
107-1667	MEDIUM PRESSURE SPRING KIT	INTERNAL MIX	750 – 1500 psi	ORANGE
107-1668	HIGH PRESSURE SPRING KIT	INTERNAL MIX	1500 – 2250 psi	YELLOW
107-1669	LOW PRESSURE SPRING KIT	EXTERNAL MIX	50 – 350 psi	GRAY
107-1650	RELIEF VALVE SEAL KIT	—	—	—

#### Maintaining the pressure relief device:

<b>⚠ CAUTION</b>
<b>Ensure that pressure is relieved from the catalyst meter or manifold before maintenance.</b>

<b>⚠ CAUTION</b>
<b>Binks FRP systems require a pressure relief device on the catalyst portion of the system to prevent the catalyst pump from becoming over-pressurized, and possibly damaging the pump and/or transmission.</b>

Periodically check the performance of the pressure relief device by:

1. Ensure the resin and catalyst pumps are primed and the pump is stalled at the appropriate working pressure with the dispensing device turned "off".
2. Slowly open the bypass valve on the outlet manifold to allow the pump to cycle.
3. Allow catalyst pressure to increase to the cracking pressure of the pressure relief device.
4. If pressure continues to increase beyond the cracking pressure STOP IMMEDIATELY and relieve the pressure by triggering the dispensing device. DO NOT continue until the problem has been corrected.
5. If pressure remains at the cracking pressure while the pump cycles, the relief device is working properly.

## 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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Binks is part of Finishing Brands, a global leader in innovative spray finishing technologies. For technical assistance or to locate an authorized distributor, contact one of our international sales and customer support locations below.

### USA/Canada

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Fax: 1-888-246-5732

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