# Instructions



309962 rev.D

120 Volt

# Hot Melt Dispensing Gun

#### Model C34005 Bottom Feed Model C34007 Bottom Feed with Trigger Switch Model C50018 Top Feed Model C34002 Top Feed with Trigger Switch

3500 psi (24.1 MPa, 241 bar) Maximum Working Pressure

Read all warnings and instructions in this manual. Save these instructions.



TI1629A

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# Symbols

#### Warning Symbol

## WARNING

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

#### **Caution Symbol**



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

# WARNING



#### SKIN INJECTION HAZARD

Spray from the gun, hose leaks, or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Splashing fluid in the eyes or on the skin can also cause serious injury.

- Fluid injected into the skin might look like just a cut, but it is a serious injury. Get immediate surgical treatment.
- Do not point the gun at anyone or at any part of the body.
- Do not put hand or fingers over the gun nozzle.
- Do not stop or deflect fluid leaks with your hand, body, glove, or rag.
- Be sure the gun trigger safety operates before dispensing.
- Lock the gun trigger safety when you stop dispensing.
- If the nozzle clogs while dispensing, fully release the trigger immediately
- Follow the **Pressure Relief Procedure** on page 7 whenever you: are instructed to relieve pressure; stop dispensing; clean, check, or service the equipment; and install or clean the nozzle.
- Tighten all the fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn, damaged, or loose parts immediately. Permanently coupled hoses cannot be repaired; replace the entire hose.



#### TOXIC FLUID HAZARD

Hazardous fluids or toxic fumes can cause a serious injury or death if splashed in the eyes or on the skin, swallowed, or inhaled.

- Know the specific hazards of the fluid you are using. Read the fluid manufacturer's warnings.
- Store hazardous fluid in an approved container. Dispose of the hazardous fluid according to all local, state, and national guidelines.
- Wear appropriate protective clothing, gloves, eyewear, and respirator.





#### Heated fluid can cause severe burns and can cause equipment surfaces to become very hot.

- Wear protective gloves and clothing when operating this equipment in a heated system.
- Do not touch the metal heat sink when the surface is hot.
- Allow the equipment to cool thoroughly before servicing.

Some heated systems are designed to dispense Polyurethane (PUR) heated materials. PUR systems are supplied with ventilation hoods, and require proper ventilation and specially designed system components.

	FIRE AND EXPLOSION HAZARD
	Improper grounding, poor air ventilation, open flames, or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.
ANK.	• Do not use this equipment in a hazardous area, as defined in Article 500 of the National Electrical Code (USA).
	• Ground the equipment and the object. See <b>Ground the System</b> on page 6.
	• Provide fresh air ventilation to avoid the buildup of flammable fumes from solvent or the fluid being dispensed.
	<ul> <li>Extinguish all the open flames or pilot lights in the dispense area.</li> </ul>
	<ul> <li>Keep the dispense area free of debris, including solvent, rags, and gasoline.</li> </ul>
	• Do not turn on or off any light switch in the dispense area while operating or if fumes are present.
	Do not smoke in the dispense area.
	<ul> <li>Do not operate a gasoline engine in the dispense area.</li> </ul>
	• If there is any static sparking while using the equipment, <b>stop dispensing immediately</b> . Identify and correct the problem.
	Keep a fire extinguisher in the work area.
	EQUIPMENT MISUSE HAZARD
INSTRUCTIONS	Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in a serious injury.
	This equipment is for professional use only.
	<ul> <li>Read all the instruction manuals, tags, and labels before operating the equipment.</li> </ul>
	• Use the equipment only for its intended purpose. If you are uncertain about usage, call your Graco distributor.
	<ul> <li>Do not alter or modify this equipment. Use only genuine Graco parts and accessories.</li> </ul>
	Check the equipment daily. Repair or replace worn or damaged parts immediately.
	• Do not exceed the maximum working pressure of the lowest rated system component. See the front cover or the <b>Technical Data</b> for the maximum working pressure of your gun model.
	• Route the hoses away from the traffic areas, sharp edges, moving parts, and hot surfaces.
	<ul> <li>Do not kink or overbend hoses or use the hoses to pull the equipment.</li> </ul>
	• Use only Graco approved hoses. Do not remove hose spring guards, which help protect the hose from rupture caused by kinks or bends near the couplings.
	• Use fluids or solvents that are compatible with the equipment wetted parts. See the <b>Technical Data</b> section of all the equipment manuals. Read the fluid and solvent manufacturer's warnings.
	• Do not use 1,1, 1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents with guns. Such use could result in a serious chemical reaction with the gun's aluminum parts, with the possibility of an explosion.
	• Comply with all applicable local, state and national fire, electrical and other safety regulations.

# 



#### **ELECTRIC SHOCK HAZARD**

To reduce the risk of electric shock

- Keep display panels fastened during operation
- Never cut or puncture a hose cover.
- Disconnect power source before servicing
- Install according to local electric code.
- Ground all equipment.
- Connect to grounded outlet. Do not expose to rain. Store indoors.

# Installation

#### Grounding the System

## WARNING



**FIRE AND EXPLOSION HAZARD** To reduce the risk of a fire, explosion, and serious injury, proper electrical grounding of every part of your system is essential. Read the warning section, **FIRE AND EXPLOSION HAZARD**, on page 4 and follow the grounding instructions below.

The following grounding instructions are minimum requirements for a basic dispensing system. Your system may include other equipment or objects which must be grounded. Check your local electrical code for detailed grounding instructions for your area and type of equipment. Your system must be connected to a true earth ground.

1. **Fluid hoses:** use only grounded fluid hoses with a maximum of 25 feet (7.5 m) combined hose length to ensure grounding continuity. Check the electrical resistance of your fluid hoses at least once a week. If your hose does not have a tag on it which specifies the maximum electrical resistance, contact the hose supplier or manufacturer for the maximum resistance limits. If the hose resistance exceeds the recommended limits, replace it immediately.

- 2. **Gun:** The gun is grounded by connecting it to the properly grounded fluid hose and by a ground wire in the cable. Check ground continuity between the gun body and the heat control ground lug.
- 3. Fluid supply container: ground according to the local code.
- 4. Flammable liquids in the dispense area: must be kept in approved, grounded containers. Do not store more than the quantity needed for one shift.
- 5. All solvent pails used when flushing: ground according to local code. Use only metal pails, which are conductive. Do not place the pail on a non-conductive surface, such as paper or cardboard, which interrupts the grounding continuity.
- 6. To maintain grounding continuity when flushing or relieving pressure: hold a metal part of the gun firmly to the side of a grounded metal pail, then trigger the gun.

# Operation

#### **Relieving Pressure**

## WARNING

SKIN INJECTION HAZARD

The system pressure must be manually relieved to prevent the system from starting or dispensing accidentally. Fluid

under high pressure can be injected through the skin and cause a serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the Relieving Pressure Procedure on page 7 whenever you:

- are instructed to relieve the pressure,
- stop dispensing,
- check or service any of the system equipment,
- install or clean the nozzle. •
- 1. Fully release the gun trigger and lock the gun trigger safety by rotating the safety downward (Fig. 1).
- 2. Shut off the fluid supply pump.
- 3. Hold a metal part of the gun firmly to the side of a grounded metal waste container. Unlock the gun trigger safety by rotating the safety upward (Fig. 2). Trigger the gun to relieve fluid pressure.
- 4. Fully release the gun trigger and lock the gun trigger safety by rotating the safety downward.
- 5. Open the pump drain valve to help relieve fluid pressure in the pump, hose, and gun. Triggering the gun to relieve pressure may not be sufficient. Have a container ready to catch the drainage.
- 6. Leave the drain valve open until you are ready to dispense again.
- 7. If you think that the gun nozzle or fluid hose is completely clogged or that pressure has not been fully relieved after following the steps above, very slowly loosen the hose end coupling and relieve pressure gradually, then loosen the coupling completely. Clear the nozzle or hose obstruction.

#### Gun Trigger Safety

## WARNING



#### SKIN INJECTION HAZARD

To prevent accidental triggering of the gun and reduce the risk of a serious injury, including fluid injection or splashing in the eyes or on skin, lock the gun trigger safety when you stop dispensing.

To lock the gun safety, release the trigger and rotate the safety downward as shown in Fig. 1.

NOTE: Do not try to force the trigger valve open with the safety engaged. This could result in component failure.



To unlock the trigger safety, rotate the safety upward as shown in Fig. 2.



#### Heating Up the Gun and System

# PRESSURE RUPTURE HAZARD Heating fluid expands, causing a rise in pressure in a closed system. Be sure pressure is relieved before heating up the equipment. Follow the pressure Relieving Pressure Procedure on page 7. Engage trigger retainer to hold dispense gun open to prevent excessive pressure build-up from fluid expansion

- 1. Be sure pump is off.
- 2. Engage the dispense gun trigger retainer to hold the valve open.
- 3. Activate the heat controls.
- After pump, hose, and gun are up to temperature, disengage gun trigger retainer to close the valve. Engage the gun trigger safety to prevent accidental dispense of high pressure heated fluid.

#### Dispensing

- 1. Start the fluid supply pump.
- 2. The fluid flow rate is controlled at the pump. Adjust the pump pressure to obtain the desired flow rate. It is recommended that you use the lowest pressure necessary to dispense the fluid. The pressure adjustment will depend on the hose length, the viscosity of the fluid, and the gun nozzle size.

- 3. Unlock the gun trigger safety.
- 4. Squeeze the trigger in all the way. Fluid flow begins with the slightest pressure on the trigger and stops when the trigger is released.

#### **Flushing Safety**

## WARNING



#### FIRE AND EXPLOSION HAZARD

To reduce the risk of a fire, explosion, or serious injury,

• Be sure the entire system and flushing pails are properly grounded before flushing the gun or system.

Read Grounding the System, on page 6.

- Use the lowest possible fluid pressure and maintain firm metal-to-metal contact between the gun and the grounded metal pail during flushing.
- Heat controls must be off during flushing if solvents are used to flush.

#### **Shutting Down**

- 1. Turn off all heat at the controller.
- 2. Turn off fluid pump.
- 3. Trigger gun to relieve pressure while system is still hot.
- 4. With gun over a waste container, engage gun trigger retainer to hold valve open for next heat-up cycle.

# Troubleshooting

Some solutions require disassembling the gun. Always relieve system pressure and disconnect the electrical cable before performing these procedures.

## A WARNING



To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 7.

See PARTS section (pages 14-17) for the parts that need to be serviced.

Problem	Cause(s)	Solution(s)
Material leaks from front of	Seat or packing is worn	Replace seat (18 or packing (20).
gun	Obstruction inside gun Worn needle	Remove seat (18). Check and replace if necessary.
		Check and replace needle (15a), if necessary.
Material leaks from back of gun	Needle seal or packing is worn	Replace seals (15c) or packing (15d).
Gun does not shut off	Needle or adapter is worn	Replace needle (15a) or adapter (19).
	Spring broken or not installed correctly	Check and replace, if necessary, spring (16).
	Obstruction inside gun	Remove seat (18). Check and replace if necessary.
Gun does not heat material	Loose heater wires	Check and reconnect wire connections.
	Loose sensor wires	Check and reconnect wire connections.
	Heater unit failed	Replace heater.
	Sensor failed	Replace sensor.
	Temperature controller failed	Replace temperature controller.
	No power to heating circuitry	Apply power to heating circuitry.

# Service

## A WARNING



**SKIN INJECTION HAZARD** To reduce the risk of a serious injury, including fluid injection,

- Follow the **Pressure Relief Procedure** on page 7 when you stop dispensing, before servicing the gun, and whenever you are instructed to relieve the pressure.
- After adjusting or servicing the gun, make sure the fluid will not trigger on when the trigger safety is locked. If fluid does flow, the gun is not assembled properly or the trigger safety is damaged. Reassemble the gun or return it to your nearest Graco distributor. Do not use the gun until the problem is corrected.

#### SERVICE NOTES:

## WARNING

SKIN INJECTION HAZARD

To reduce the risk of a serious injury, including fluid injection, if fluid continues to flow after the trigger is released, service the gun immediately as instructed below. Do not use the gun until the problem is corrected.

NOTE: Items in ( ) refer to items in the PARTS list.

- If the fluid continues to flow after the trigger is released, the gun valve may need adjustment, be obstructed or damaged, or the needle assembly (15) or seat (18) may be worn or damaged.
  - a. Adjust the spring tension as instructed on page 13.
  - b. Replace the needle assembly (15) or seat (18) as instructed on page 13.
- 2. Follow the torque, sealant and lubrication notes for your gun model number.

3. The following repair kit is available:

Repair Kit	Gun Model
C32002	Manual Hot–Melt Guns C34005, C34007, C34002, and C50018

# Installing new heater unit, RTD sensor, or switch

- 1. Open the connector (24) by removing the screw on the side and pulling out insert (25).
- For Therm–O–Flow 6 pin assemblies, removal and replacement of the heaters and RTD require a pin extraction tool, new connector pins, and a pin crimping tool. These tools meet spec MIL–C–22520 (Ref. Daniels AF8 crimp tool) or equivalent, available at your local industrial electrical supply warehouse. Soldering the new leads is an acceptable alternative as long as new pins (27) are used.
- 3. Remove the faulty sensor or heater by cutting the leads at the connector and pulling the wires back through the conduit and out of the gun.
- 4. Use the pin extraction tool to punch out the old pins.
- 5. Coat heater or sensor with heat sink compound.
- 6. Gently slide new heater or sensor into appropriate hole.
- 7. Feed the new wires through the conduit to the connector. On bottom entry models, be sure to use protective sleeve (31) over wires where they pass through needle area.
- 8. Cut and strip the wires to the appropriate length.
- 9. Slide 1/8" diameter heat shrink tubing over the wires.
- 10. Crimp or solder the wires to the appropriate new connector pin as shown in Fig. 3.

#### **Schematic Diagram** HEATER F с A SENSOR в Е $\cap$ (GUN SWITCH D (Models C34007 and C34002 only) Wiring Diagram Connector **RTD Sensor** Heater $\sim$ 100W @ 120VAC Δ $\sim$ Approximately В 108 ohms @ 70°F 123 ohms minimum-С E/ D 150 ohms maximum Switch **Normally Open** GUN SWITCH (Models C34007 and C34002 only) 6 Pin 120 Volt Shown NOTÈ: Route switch wiring through gun handle, insulator, and body, ensuring enough slack to change over gun from top to bottom inlet without putting strain on wires. Fig. 3

- 11. Slide the heat shrink tubing into place and thoroughly shrink it so that it grabs onto the connector pin and wire insulation.
- 12. Use an ohm meter to check:
  - a. heater pins F to C, 123-150 ohms

- b. RTD sensor pin A to B, 108 ohms +/-1 ohm at 70°F.
- c. Continuity to the gun body from pin 8
- d. No continuity from pins A–F to gun body or connector shell.

#### **Inspection Frequency**

#### **Dispense Valve**

Inspect dispense valve at every use for leakage or other visible damage.

#### Heater

Every two weeks, check heater for proper resistance. Resistance should be approximately 123–150 ohms (+58/–29) cold for the 120 volt valves. Replace heater if necessary.

Also inspect heater when performing regular maintenance procedures.

#### Sensor

Every two weeks, check sensor resistance. Resistance should be 108 ohms at 21° C (70° F). Replace sensor if necessary.

Also inspect sensor when performing regular maintenance procedures.

#### Adjusting the Needle Assembly

The trigger travel and corresponding valve opening are factory set. To adjust this setting, follow the procedure below.

## WARNING



#### SKIN INJECTION HAZARD

To reduce the risk of a serious injury, including fluid injection, follow the **Pressure Relief Procedure** on page 7 whenever you are instructed to relieve the pressure.

**NOTE:** Items in () refer to items in the PARTS list (pages 14-17).

- 1. Relieve the pressure in the system.
- 2. Disconnect the gun from the hose.
- 3. Using a 1/2 in. and 11/32 in. wrench, loosen hex nut (15m).
- 4. Remove nozzle (19), cap (5) and shield (4).
- 5. Trigger gun and, using a screwdriver in the slot of the needle, turn the needle clockwise several turns.
- 6. Release the trigger, turn the needle counterclockwise until it contacts the seat
- 7. Trigger the gun, and turn the needle one additional turn counterclockwise.
- 8. Tighten the hex nuts (15m) to set the adjustment.
- 9. Reassemble shield (4), cap (5), and nozzle (19).

#### Adjusting the Spring Tension

#### 



#### SKIN INJECTION HAZARD

To reduce the risk of a serious injury, including fluid injection, follow the **Pressure Relief Procedure** on page 7

whenever you are instructed to relieve the pressure.

**NOTE:** Items in () refer to items in the PARTS list (pages 14-17).

1. Relieve the pressure in the system.

**NOTE:** For models with switch (42); cover (43) must be removed and the switch must be removed.

- 2. Loosen lock nut (13).
- 3. Adjust the spring retainer (39) to the desired trigger pull force.
- 4. Tighten lock nut (13) to secure spring tension adjustment.

#### Servicing Valve Stem and Seal

If fluid leaks past seal (15c), the seal or needle (15a) may be worn or damaged. To replace the seal or valve stem, follow the procedure below.

## WARNING



#### SKIN INJECTION HAZARD

To reduce the risk of a serious injury, including fluid injection, follow the

Pressure Relief Procedure on page 7 whenever you are instructed to relieve the pressure.

- 1. Relieve the pressure in the system.
- 2. Disconnect the gun from the hose.

**NOTE:** For models with switch (42); cover (43) must be removed and the switch must be removed.

- 3. Loosen lock nut (13).
- 4. Unscrew the spring retainer (Item 39).
- 5. Using a 1/2 in. and 11/32 in. wrench, loosen hex nut (Item15m).
- 6. Remove nozzle (19), cap (5), and shield (4).
- 7. Trigger gun and, using a screwdriver in the slot of the needle (15a), turn the needle clockwise several turns.
- 8. While holding the yoke (15g), turn needle (15a) counterclockwise until it separates.
- 9. Remove the front half of the needle assembly (15a) from the gun.
- 10. Remove and replace packing support (15b), needle seals (15c), and O-ring packing (15d).
- 11. Install the front half of the needle assembly in the body (1)
- 12. While holding yoke (15g), install the needle (15a), rotating clockwise.
- 13. Adjust the needle as described in **Adjusting the Needle Assembly** on page 12.
- 14. Install shield (4), cap (5), and nozzle (19).
- 15. If necessary, adjust spring tension as described in **Adjusting the Spring Tension** on this page.

#### Models C34005, C34007

Hot Melt Gun



#### Model C34005

Manual Hot Melt Gun

#### Model C34007

#### Trigger Switch Hot Melt Gun

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
				19	C32003	NOZZLE	1
1	C34010	BODY, hot-melt, manual gun	1	20*	103610	PACKING, o-ring	1
2	C32028	INSULATOR. hot-melt hand gur	י ו 1	21	C32255	SENSOR, temperature	1
3	C32011	BODY. aun	1	22	198511	ADAPTER, connector, manual	1
4	C31017	SHIELD, hand gun	1	23	C19156	SCREW, socket head	5
5	C31016	CAP	1	26	617838	HEATER, cartridge, 100W, 120V	/ 1
6	156849	FITTING, pipe 3/8 in. npt	1	28	C19977	SCREW, cap, socket head	1
	C57733	SWIVEL, 3/8 in. npt (F)		29	157021	WASHER, lock, internal	1
8	C32368	RING	1	30	C07664	Thermal compound (3 oz)	1
9	C27051	TRIGGER	1	31	15A506	SLEEVE, protective	2
10	C32004	HANGER, gun	1	33	108483	SCREW, shoulder	1
11	C20442	RING, retaining, ext.	6	34	C34009	TRIGGER LOCK	1
12	C27035	PIN, trigger	3	35	C20565	WASHER, spring	1
13	C27036	NUT, lock	1	39	C27037 <i>†</i>	RETAINER, spring	1
14	111821	SCREW, cap, socket head		42	C31021	COVER, sponge	1
		(Model C34005)	2	43	C57733	SWIVEL, hose	1
		(Model C34007)	3	44	116675	CONDUIT, metal flex	1
15	918530	NEEDLE, assembly (consists of	f	45	116673	BUSHING, strain relief	1
		items 15a through 15m	1	48	C32369 <i>‡</i>	RETAINER, spring	1
15a	C27038	NEEDLE	1	49	C32368 <i>‡</i>	SWITCH	1
15b	C27053	SUPPORT, packing	1	50	C32371 <i>‡</i>	COVER, switch	1
15c*	C27060	SEAL, needle	3				
15d*	103338	PACKING, O-ring	1	* <del>т</del>	baca parte ar	a included in Penair Kit C22002	
15e	C32027	NUT, packing	1	1	hich may be	e included in hepail Kit C32002,	
15f	C27061	SCREW, adjustment	1	VV	men may be	purchased separately.	
15g	15C749	YOKE, trigger, handgun	1	7 M	lodel C34005	only.	
15m	C19284	NUT	1	,		e	
16	C00020	SPRING	1	≠ M	lodel C34007	only.	
17	100284	NUT, hex, MSCR	3				
18*	C27014	SEAT	1				

#### Models C50018 and C34002







Orient snap rings as shown. For ease of assembly, install pins and snap rings from top to bottom. Middle snap ring must be installed facing up, then rotated to position shown. Snap rings must be flush with each other without overlapping. NOTE: Apply heat transfer compound (58) to cylindrical surface of heater (27) and sensor (22).

Parts

#### Model C50018

Manual Hot Melt Gun

#### Model C34002

#### Trigger Switch Hot Melt Gun

			Ref	•		
Part No.	Description	Qty.	No.	Part No.	Description	Qty.
C32022	BODY, hot-melt, manual gun, flo	ow 1	26	C31031	HEATER, cartridge	1
C32028	INSULATOR, hot-melt handgun	1	28	C19977	SCREW, cap, socket head	1
C32012	BODY, gun	1	29	157021	WASHER, lock, internal	1
C31017	SHIELD, handgun	1	31	617836	SLEEVE, fiberglass braid, #10,	blk 1
C31016	CAP	1	33	108483	SCREW, shoulder SCH	1
C20483	FITTING, pipe, 3/8 in. npt	1	34	C34009	TRIGGER LOCK	1
C32368	RING	1	35	C20565	WASHER, spring	1
C27051	TRIGGER, gun	1	38	112385	SCREW, set	2
C32004	HANGER, gun	1	39	C32369	RETAINER, spring	1
C20442	RING, retaining, ext.	6	42	C32370 <i>†</i>	SWITCH	1
C27035	PIN, trigger	3	43	C32371 <i>†</i>	COVER, switch	1
C27036	NUT, lock	1	44	C07535	TUBE, heat, shrink	1
C19978	SCREW, cap, socket head		45	065326/	WIRE, copper, electrical	4.9 ft
	(Model C50018)	) 2	46	C07536	TUBE, heat shrink	.2 ft
	(Model C34002)	) 3	47	C51071	GASKET	2
918530	NEEDLE, assembly (consists o	f	48	C78480	ADAPTER, connector, manual	
	items 15a through 15m	1			gun top	1
C27038	NEEDLE	1	49	C32005	COVER, wires	1
C27053	SUPPORT, packing	1	50	C19952	SCREW, socket head	4
C27060	SEAL, needle	3	52	116674	COVER, molded, hand gun	1
103338	PACKING, O–ring	1	53	C57733	SWIVEL, hose	1
C32027	NUT, packing	1	54	116675	CORD, flex, valve, 1K	1
C27061	SCREW, adjustment	1	55	116673	BUSHING, strain relief	1
15C749	YOKE, trigger, handgun	1	56	198422	COVER, protective	1
C19284	NUT	1	57	198442	STRAP, retaining mix manifold	2
C00020	SPRING	1	58	C07664	Heat transfer compound (3 oz)	1
100284 <i>†</i>	NUT, hex MSCR	3				
C27037 <i>‡</i>	RETAINER, spring	1	* '	These parts ar	e included in Repair Kit C32002	,
C27014	SEAT	1		which may be	purchased separately. See page	ə 10
C32003	NOZZLE	1	i	for complete R	lepair Kit list.	
103610	PACKING, O-ring	1				
C32255	SENSOR, temperature	1	/ I	Model C34002	only.	
196508	PLUG	1				
102410	SCREW	4	<i>‡</i>	Model C50018	only.	
	Part No. C32022 C32028 C32012 C31017 C31016 C20483 C32368 C27051 C32004 C20442 C27035 C27036 C19978 918530 C27038 C27038 C27053 C27060 103338 C32027 C27061 15C749 C19284 C00020 100284 <i>†</i> C27037 <i>‡</i> C27014 C32003 103610 C32255 196508 102410	Part No.DescriptionC32022BODY, hot-melt, manual gun, fleC32028INSULATOR, hot-melt handgunC32012BODY, gunC31017SHIELD, handgunC31016CAPC20483FITTING, pipe, $3/8$ in. nptC32368RINGC27051TRIGGER, gunC32004HANGER, gunC20442RING, retaining, ext.C27035PIN, triggerC27036NUT, lockC19978SCREW, cap, socket head (Model C50018 (Model C34002)918530NEEDLE, assembly (consists on items 15a through 15mC27033SUPPORT, packingC27040SEAL, needle10338PACKING, O-ringC32027NUT, packingC27061SCREW, adjustment15C749YOKE, trigger, handgunC19284NUTC00020SPRING1002847NUT, hex MSCRC270372RETAINER, springC27041SEATC32003NOZZLE103610PACKING, O-ringC32255SENSOR, temperature196508PLUG102410SCREW	Part No.       Description       Qty.         C32022       BODY, hot-melt, manual gun, flow       1         C32028       INSULATOR, hot-melt handgun       1         C32012       BODY, gun       1         C31017       SHIELD, handgun       1         C31016       CAP       1         C31016       CAP       1         C3268       RING       1         C32368       RING       1         C3204       HANGER, gun       1         C3204       HANGER, gun       1         C27035       PIN, trigger       3         C27036       NUT, lock       1         C19978       SCREW, cap, socket head       1         C19978       SCREW, cap, socket head       1         C27035       PIN, trigger       3         918530       NEEDLE, assembly (consists of items 15a through 15m       1         C27060       SEAL, needle       3         103338       PACKING, O-ring       1         C27061       SCREW, adjustment       1         15C749       YOKE, trigger, handgun       1         C27037       RETAINER, spring       1         C27037       RETAINER, spring	Part No.         Description         Qty.         No.           C32022         BODY, hot-melt, manual gun, flow 1         26           C32028         INSULATOR, hot-melt handgun         1         28           C32012         BODY, gun         1         29           C31017         SHIELD, handgun         1         31           C31016         CAP         1         33           C20483         FITTING, pipe, 3/8 in. npt         1         34           C32064         RING         1         35           C27051         TRIGGER, gun         1         38           C32004         HANGER, gun         1         39           C20442         RING, retaining, ext.         6         42           C27035         PIN, trigger         3         43           C19978         SCREW, cap, socket head         45           (Model C50018)         2         46           (Model C34002)         3         47           918530         NEEDLE, assembly (consists of items 15a through 15m         1           C27053         SUPPORT, packing         1         53           C32027         NUT, packing         1         54           C27060<	Part No.         Description         Qty.         No.         Part No.           C32022         BODY, hot-melt, manual gun, flow 1         26         C31031           C32028         INSULATOR, hot-melt handgun 1         28         C19977           C32012         BODY, gun 1         29         157021           C31017         SHIELD, handgun 1         31         617836           C31016         CAP         1         33         108483           C20483         FITTING, pipe, 3/8 in. npt 1         34         C34009           C32368         RING         1         35         C20655           C27051         TRIGGER, gun 1         38         112385           C32004         HANGER, gun 1         39         C32369           C20442         RING, retaining, ext.         6         42         C32370 /           C27035         PIN, trigger         3         43         C32371 /           C27036         NUT, lock         1         44         C07535           C19978         SCREW, cap, socket head         45         065326 /           (Model C34002)         3         47         C51071           918530         NEEDLE, assembly (consists of items 15a through 15m	Ref.         No.         Part No.         Description         Qty.         No.         Part No.         Description           C32022         BODY, hot-melt, manual gun, flow 1         26         C31031         HEATER, cartridge           C32028         INSULATOR, hot-melt handgun         1         28         C19977         SCREW, cap, socket head           C32012         BODY, gun         1         29         157021         WASHER, lock, internal           C31016         CAP         1         33         108483         SCREW, shoulder SCH           C31016         CAP         1         33         108483         SCREW, shoulder SCH           C32038         RING         1         35         C20565         WASHER, spring           C27051         TRIGGER, gun         1         38         112385         SCREW, set           C32034         HANGER, gun         1         38         C32370 /         SWITCH           C27035         PIN, trigger         3         43         C32037 /         SWIER, spring           C27035         NUT, lock         1         44         C07535         TUBE, heat shrink           C19978         SCREW, cap, socket head         1663267         WIER, copper, electrical

# **Technical Data**

Maximum Working Pressure
All Models
Outlet Port Size
All Models 1/4 npt(f)
Inlet Port Size on Gun Housing
All Models 3/8 npt(f)
Inlet Port Size on Fluid Swivel
All Models
Height
<i>C34005 and C34007</i> 8.25 in. (210 mm)
<i>C50018 and C34002</i> 10 in. (254 mm)
Width
<i>C34005 and C34007</i> 2.15 in. (55 mm)
<i>C50018 and C34002</i> 3.72 in. (95 mm)
Length
<i>2435197 and C34007</i> 12.54 in. (319 mm)
<i>C50018 and C34002</i> 11.91 in. (303 mm)
Voltage
All Models 120 VAC

#### Wattage

All Models 100 W
RTD
<i>Platinum RTD .00385 ohms/</i> °C 108.2 ohms @70°F
Heater Resistance
All Models 123–150 ohms
Weight
All Models 3.5 lbs. (1.6 kg)
Wetted Parts
All Models Fluid Section Hardened Steel, Viton, AFLAS and PTFE Seals, 12L14 Steel, 1215 CRS, 4140 SST, Chrome Alloy, Black Oxide
Valve Needle Tool Steel shaft with
Valve Seat Hardened Steel RC52

Notes

# **Graco Standard Warranty**

Graco warrants all equipment manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non–Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

## THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

Graco makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by Graco. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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## **Graco Information**

TO PLACE AN ORDER, contact your Graco distributor, or call one of the following numbers

to identify the distributor closest to you:

#### 1-800-328-0211 Toll Free 612-623-6921 612-378-3505 Fax

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