

ΕN

Therm-O-Flow[®] **Automatic Dispense Valves** 310538N

Air-operated dispense valves. For professional use only.



Important Safety Instructions

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

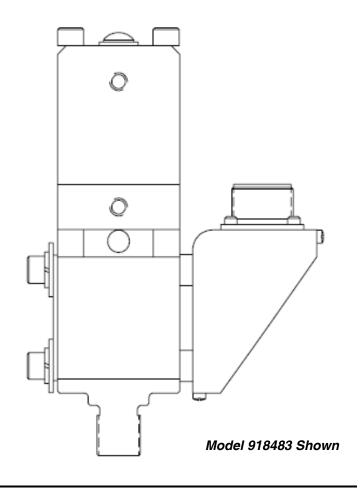


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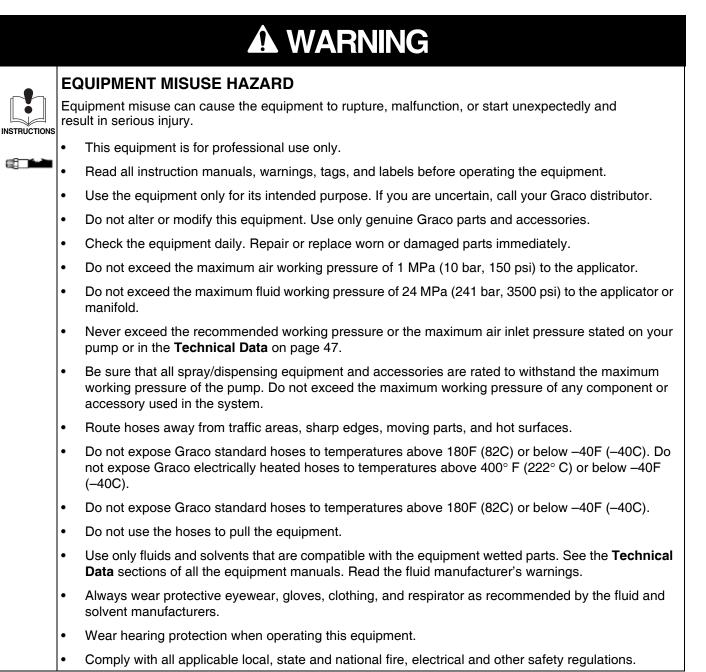
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List of Models

Valve Type	Part No.	Туре	Voltage / No. of Pins	Maximum Fluid Working Pressure	Maximum Air Input Pressure	Parts Page
TOF	194485	Snuff Back	120 V / 6	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	20
TOF	918483	Snuff Back	120 V / 6	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	22
	918512	Snuff Back	Ambient	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	24
TOF	918639	Snuff Back	120 V / 6	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	26
TOF+	243694	Base Seal	240 V / 8	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	28
TOF 200	297266	Snuff Back Swirl	240 V / 8	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	30
TOF+	243695	Base Seal H. F.	240 V / 8	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	31
TOF+	243696	Snuff Back	240 V / 8	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	33
TOF	C27340	Base Seal	Ambient	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	35
TOF	C34068	Base Seal	120 V / 6	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	37
TOF	C34079	Base Seal	120 V / 6	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	39
TOF	C50592	Base Seal	120 V / 6	241 bar, 24 MPa (3500 psi)	10 bar, 1 MPa (150 psi)	41

Warnings

The following Warnings are for the safe setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure–specific risks. Refer back to these Warnings. Additional product–specific warnings may be found throughout the body of this manual where applicable.



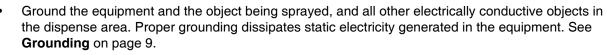
	IOT SURFACE AND FLUID HAZARD	
	leated fluid can cause severe burns and can cause equipment surfaces to become very hot.	
The state of	Wear protective gloves and clothing when operating this equipment in a heated system.	
1999 BARRING (1838)	Do not touch the metal heat sink when the surface is hot.	
	Allow the equipment to cool thoroughly before servicing.	
	ome heated systems are designed to dispense Polyurethane (PUR) heated materials. PUR ystems are supplied with ventilation hoods, and require proper ventilation and specially designed ystem components.	
.	KIN INJECTION HAZARD	
-	pray from the applicator, hose leaks, or ruptured components can inject fluid into your body and ause extremely serious injury, including the need for amputation. Fluid splashed in the eyes or on he 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 surg cal treatment.	ıi-
	Do not point the applicator at anyone or at any part of the body.	
	Do not put hand or fingers over the front of the applicator.	
	Do not stop or deflect fluid leaks with your hand, body, glove, or rag.	
	Follow the Pressure Relief Procedure on page 11 whenever you are instructed to: relieve pressure stop dispensing; clean, check, or service the equipment; or install or clean a tip or nozzle.	re;
	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.	1.
	ALWAYS wear eye protection and protective clothing when installing, operating, or servicing this c pensing equipment.	lis-
	Do not remove or modify any part of the applicator; this can cause a malfunction and result in serio bodily injury.	us
	Use extreme caution when cleaning or changing tips. If the tip clogs while applying material, ALWAYS follow the Pressure Relief Procedure on page 11, then remove the tip to clean it.	
	NEVER wipe off build-up around the tip or air cap until pressure is fully relieved.	

A WARNING

FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD

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

• Ground the equipment and the object being sprayed. The Automatic Dispense Valve is grounded through proper connection of pin E inside the electrical control panel to truth earth ground inside the electrical control panel. See **Grounding** on page 9.



- Do not use this equipment with flammable liquids.
- Keep the dispense area free of debris, including solvent, rags, and gasoline.
- If there is any static sparking or you feel an electric shock while using the equipment, stop dispensing immediately. Do not use the equipment until you have identified and corrected the problem.
- Make sure all electrical work is performed by a qualified electrician only.
- Have any checks, installation, or service to electrical equipment performed by a qualified electrician only.
- Make sure all electrical equipment is installed and operated in compliance with applicable codes.
- Make sure power is disconnected when servicing and repairing equipment.
- · Before operating the equipment, extinguish all open flames or pilot lights in the dispense area.
- Do not smoke in the dispensing area.

TOXIC FLUID HAZARD

- Keep liquids away from the electrical components.
- Disconnect electrical power at the main switch before servicing the equipment.
- Never exceed maximum wattage of the supply unit.



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

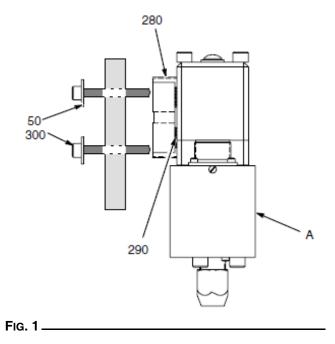
- Provide fresh air ventilation to avoid the buildup of vapors from the fluid being dispensed.
- Know the specific hazards of the fluid you are using.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
- Always wear protective eyewear, gloves, clothing and respirator as recommended by the fluid and solvent manufacturer.
- Avoid exposure to heated material fumes.

Install the automatic applicator as follows:

- mount the automatic dispense valve
- attach dispense tip, nozzle, or swirl
- connect the air lines
- connect material hose
- connect the electrical cable
- make sure the automatic dispense valve is grounded

Mount the Automatic Dispense Valve

Mount the automatic dispense valve to the mounting bracket on a stationary support or robotic arm (FIG. 1), using two socket head screws (300) and two flat washers (50). Be sure to position the insulation block (280) and insulation tape (290) between the dispense valve and the mounting bracket.



Attach Dispense Tip, Nozzle, or Swirl

Attach a dispense tip and a nozzle adapter, or a nozzle adapter alone, to the automatic dispense valve.

Dispense Tip and Nozzle Adapter Attachment

Attach dispense tip (B) to the automatic dispense valve.

- 1. Select a nozzle adapter (C) and a dispensing tip (B).
- 2. Install the tip and then use the nozzle adapter (C) to secure the tip to the seat adapter (D).

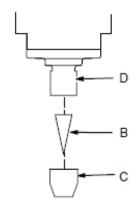


Fig. 2 .

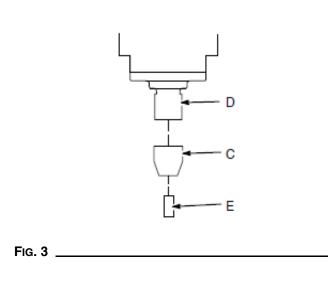
Nozzle Attachment

Attach a nozzle (C) to the automatic dispense valve.

- 1. Select a nozzle.
- 2. Install nozzle adapter (C) on the seat adapter (D).
- 3. Install nozzle in nozzle adapter (E).

Swirl Nozzle Attachment

- 1. Install swirl adapter (C) on seat adapter (D).
- 2. Install swirl applicator head (E).
- 3. Install swirl nozzle (F).



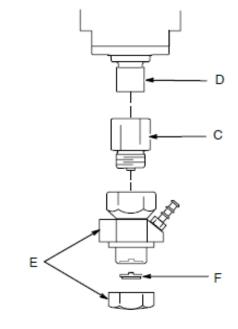


FIG. 4 _____

Connect Air Lines to Dispense Valve

Only use air fittings that are rated at a temperature equal to or higher than the operating temperature of your fluid dispensing system. Lower rated air fittings could melt and cause damage to the automatic dispense valve.

These valves are air to open and air to close with a spring to bias them closed. Use a 4–way exhausting solenoid to operate these valves.

Making sure to connect the appropriate air lines to the appropriate ports (see FIG. 5), securely connect air lines to dispense valve air ports (G).

Connect Material Hose to Dispense Valve

Securely connect the material hose to the dispense valve material inlet port (A). See FIG. 5.

Connecting Electrical Cable to Dispense Valve

Connect electrical cable plug from your Therm–O– Flow or Therm–O–Flow Plus hose or control.

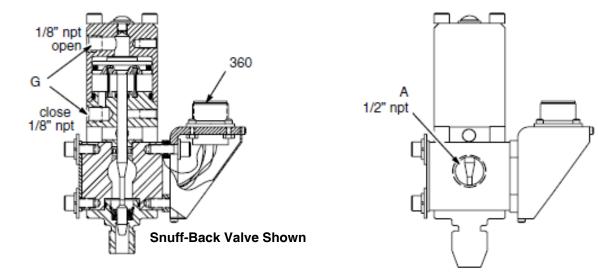


Fig. 5 _

Grounding

FIRE, EXPLOSION, AND ELECTRIC HAZARD

To reduce the risk of fire, explosion, or electric shock:



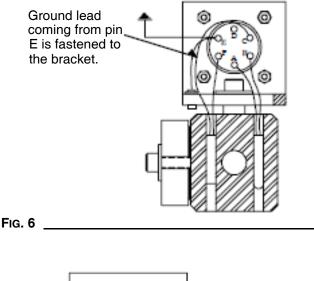
• The power source conduit is not an adequate ground for the system. The unit must be grounded to either the building ground or a true earth ground.

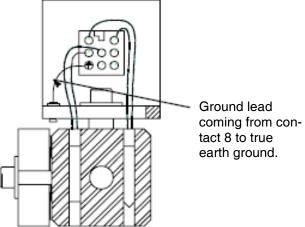
• A qualified electrician must complete all grounding and wiring connections and check the resistance.

- Refer to your local code for the requirements for a "true earth ground" in your area.
- Also read and follow the warnings on page
- 5.

Ground the automatic dispense valve:

1. Connect the connector from a heated hose to the receptacle on the dispense valve.







- 2. Connect the electrical cable to the electrical control panel.
- Verify that socket contact E on six pin models (see FIG. 5) or contact eight on eight pin models (see FIG. 7), inside control panel receptacle, is connected to true earth ground.

Troubleshooting

Some solutions require disassembling the automatic dispense valve. Always relieve system pressure before performing these procedures.



To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** (page 11).

See PARTS section for the parts that need to be serviced.

Problem	Cause(s)	Solution(s)
Air leaks from automatic dispense	Loose air connections	Check air connections.
valve	Worn o-rings	Replace o-rings (90) and (100) in cylinder base.
	Worn ring	Replace ring (110) in cylinder base.
Material leaks from front of automatic dispense valve	Seal, spacer or retaining ring is worn	Replace rod seal (150), spacer (160), and retaining ring (170).
	Obstruction inside dispense valve	Remove seat adapter (10). Check and replace if necessary, rod seal (150), spacer (160), and retaining ring (170).
	Worn needle	Check and replace needle (140), if necessary.If replacing needle, you must disassemble dispense valve.
	Worn seat (Base seal models)	Check and replace seat (10) if necessary.
Material leaks from automatic dispense	Seal not installed correctly	Check seal (70) and replace if necessary.
valve body	Seal is worn	
Automatic dispense valve	Loose air connections	Check air connections.
does not shut off	Worn needle-seal interface	Check and replace, if necessary, needle (140), rod seal (150), spacer (160), and retaining ring (170). If replacing needle, you must disassemble dispense valve
Automatic dispense valve does not shut off	Worn spring-piston interface	Disassemble dispense valve. Check and replace, if necessary, needle (140), and spring (370).
Automatic dispense valve does not shut off	Spring broken or not installed correctly	Disassemble dispense valve. Check and replace, if necessary, needle (140), and spring (370).
Automatic dispense valve does not	Loose heater wires	Check and reconnect wire connections.
heat material	Loose sensor wires	Check and reconnect wire connections.
	Heater unit failed	Replace heater. See page 17.
	Sensor failed	Replace sensor. See page 17.
	Temperature controller failed	Replace temperature controller.
	No power to heating circuitry	Apply power to heating circuitry.

Pressure Relief Procedure



HOT SURFACE AND FLUID HAZARD The material and equipment will be hot! To reduce the risk of injury, wear eye protection, gloves and protective clothing when installing, operating, or servicing this dispensing system.



SKIN INJECTION HAZARD

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure
- stop spraying/dispensing
- install or clean the nozzle
- check or service any of the system equipment



PRESSURIZED FLUID HAZARD

High pressures can cause serious personal injury. Be sure to **open the dispense valve during system heat-up** to alleviate pressure which might occur in the system due to material expansion.

This procedure describes how to relieve pressure from the automatic dispense valve. See your supply unit or system documentation for instructions on relieving pressure for the entire dispensing system. Use this procedure whenever you shut off the dispense valve and before checking or adjusting any part of the system, to reduce the risk of serious injury.

- 1. Shut off the material supply.
- 2. Shut off electrical power to the automatic dispense valve.
- 3. Close all self bleeding air supply valves for supply unit.
- 4. Have a container ready to catch the drainage, then bleed off material pressure by actuating the dispense valve.
- 5. Shut off air supply to valve.

NOTE: If you suspect that the nozzle or hose is completely clogged, or that the pressure has not been fully relieved after following the steps above, **very slowly** loosen the tip guard, retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Then clear the tip/nozzle or hose.

Prepare to Service Automatic Dispense Valve

If the unit is hot, determine whether or not you can service the unit after it has cooled down. Some materials, like polyurethanes, may cure permanently when cooled and exposed to air, preventing you from disassembling the dispense valve. If you are working with such a material, service the unit while the material is at a temperature where the material is soft enough to work with. If the material can be reheated at a later time, you can service the unit after it has cooled, reheating the material as necessary.

Perform this procedure before servicing the automatic dispense valve.

1. Relieve the system pressure.

WARNING

To reduce the risk of serious injury, whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** (page 11).

- 2. Make sure material flow has been shut off.
- 3. Make sure system air has been shut off.
- 4. Remove power from the automatic dispense valve.

A WARNING



HOT SURFACE AND FLUID HAZARD The material and equipment will be hot! To reduce the risk of injury, wear eye protection, gloves and protective clothing when servicing this dispensing system component.

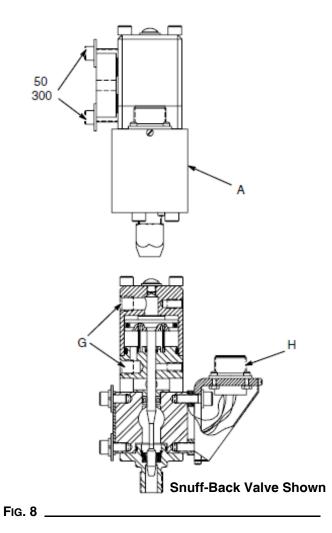
 If the material in the dispense valve can be reheated, wait for the dispense valve to cool thoroughly before servicing it.

If the material in the dispense valve cures permanently when cooled and/or exposed to air, service the unit while the material is at a temperature where the material is soft enough to work with.

Service the Automatic Dispense Valve

Some dispense valve seals and o-rings can be replaced while the dispense valve is still mounted. However, to replace the needle, you must remove the automatic dispense valve from the mounting bracket and disassemble it.

Prior to installation, lubricate all seals and o-rings with 115982 Graco thermal lubricant (3 oz. cartridge) or an equivalent lubricant. Check with the material supplier for a compatible lubricant.



Disconnect Automatic Dispense Valve from Mounting Bracket

Remove the automatic dispense valve from its mounting bracket.

1. Perform the procedures in Prepare to Service the Automatic Dispense Valve on page 12.





HOT SURFACE AND FLUID HAZARD The material and equipment may be hot! To reduce the risk of injury, wear eye protection, gloves and protective clothing when servicing this dispensing system component.

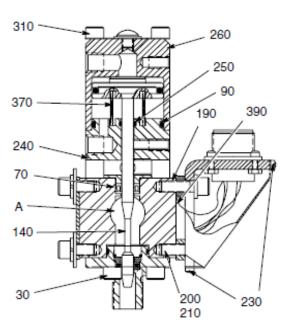
- 2. Disconnect the cable plug from receptacle on dispense valve (H). See FiG. 8 on page 13.
- Disconnect air lines from dispense valve air ports (G).
- 4. Disconnect material hose from material inlet port (A).
- 5. Separate the dispense valve body from the temperature conditioning manifold if used:

Reconnect Automatic Dispense Valve to Mounting Bracket

Reconnect the automatic dispense valve to its mounting bracket. See FIG. 8.

- 1. Reconnect air lines to dispense valve air ports (G).
- 2. Reconnect the electrical cable plug to the receptacle (H).
- 3. Reconnect the material hose to the dispense valve material inlet port (A).

Disassemble Automatic Dispense Valve



Snuff-Back Valve Shown

FIG. 9

To disassemble the automatic dispense valve:

1. Relieve automatic dispense valve pressure.

To reduce the risk of serious injury, whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** (page 11).

- 2. Make sure you have removed the dispense valve from its mounting.
- 3. Remove the cable plug from the automatic dispense valve.
 - a. Remove the two screws (230) from the connector cover. Then remove the connector cover.
 - Remove the two socket head screws [FIG. 9, Item (200)], two washers (210). The heater cartridge (270) and sensor (320) will come out of the dispense valve body (FIG. 15).
- 4. Remove the four socket head screws (310) and pull cylinder cap (260) and cylinder base (240) from the dispense valve body (190). The needle and piston remain with the cap and base.
- 5. Remove cap from base.
- 6. Remove needle from either the cap or the base (depending on which piece it went with). When the needle is separated from the base, the closure spring (370) falls out.
- 7. Using an o-ring pick, remove dispense valve body seal (70).

- 8. Disassemble adapter assembly (FIG. 10):
 - a. Unscrew nozzle adapter (C).
 - b. Remove three socket head screws (30 in FIG. 9).
 - c. Remove seat adapter (10). Contains seat on base seal valves.
 - d. Remove retaining ring (170) from adapter seat (FIG. 10). Not on base seal guns.
 - e. Remove seal (150) and spacer (160) from adapter seat (FIG. 10). not on base seal guns.
 - f. Remove o-ring (20) from adapter seat.

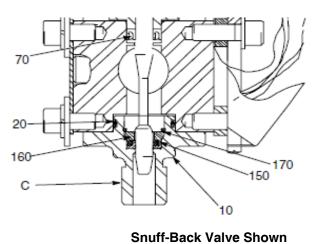


Fig. 10_____

Reassemble Automatic Dispense Valve

Prior to installation, lubricate all seals and o-rings with 115982 Graco high temperature grease (3 oz. cartridge), or an equivalent lubricant. Check with the material supplier for a compatible lubricant. To reassemble the automatic dispense valve:

- 1. Make sure all parts are free of solid material residue.
- 2. Reassemble adapter assembly (FIG. 10):
 - a. Lubricate and replace o-ring (20).
 - Lubricate and replace seal (150) and spacer (160). Make sure the seal energizer faces toward the material pressure.
 - c. Replace retaining ring (170).
 - d. Replace seat retainer (10).
 - e. Insert and tighten three socket head screws (30 in Fig. 9).
 - f. Screw on nozzle adapter (C).
- Lubricate then replace dispense valve body seal (70). Make sure the seal energizer faces toward the material pressure.

- 4. Reassemble cap and base (FIG. 11):
 - a. Lubricate o-ring (100) and ring (110).
 - b. Insert o-ring (100) into needle piston (140) groove.
 - c. Slide ring (110) on top of o-ring (100).
 - d. Lubricate, then replace o-rings (90) and (250). Insert spring on base seal models (FIG. 12).
 - e. Insert needle assembly into cylinder cap (260).
 - Place spring (370) over shaft of needle/piston. Seat spring in groove on piston face on snuffback models (FIG. 11).
 - g. Slide base (240), over the needle, into the cylinder cap (260). Seat spring (370) in groove on base.

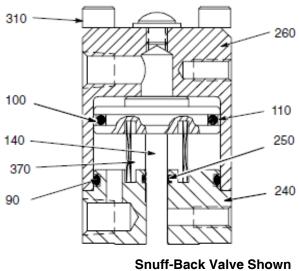


Fig. 11_

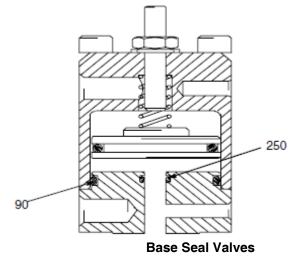
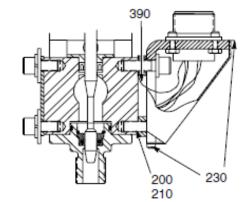


FIG. 12

- 5. Reconnect the cable receptacle to the automatic dispense valve. See FIG. 13.
 - a. Re-insert heater cartridge and sensor into their appropriate holes.
 - b. Ensure the ground wire (380) is connected to the bracket (330).
 - c. Connect the receptacle to the dispense valve body. Then secure it with the two socket head screws (200) and washers (210).
 - d. Reattach the receptacle cover. Then secure it with the two screws (230).





Replace Heater Unit or Sensor

You can replace the automatic dispense valve heater unit or sensor without removing the automatic dispense valve from its mounting bracket. You only have to disconnect the cable connector from the automatic dispense valve.

This procedure requires:

- soldering iron
- solder
- shrink wrap
- wire cutters
- heat sink compound, Graco part number C07664 or equivalent. Check with the material supplier for a compatible compound.
- 1. Perform the procedures in **Prepare to Service Automatic Dispense Valve** on page 12.
- 2. Remove the cable receptacle from the automatic dispense valve.
 - a. Remove the two screws from the connector cover [FIG. 9, Item (230)] and remove the receptacle cover.
 - Remove the two socket head screws [FIG. 14, Item (200)], two washers (210). The heater cartridge (270) and sensor (320) will come out of the dispense valve body.

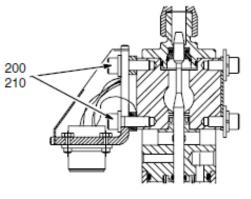
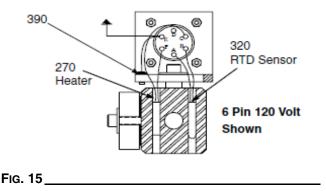
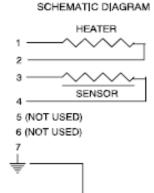


FIG. 14_

- 3. Remove old heater cartridge or sensor.
 - a. Locate the leads to the part you are replacing.
 - b. Remove the shrink wrap from the leads.
 - c. Unsolder the leads from the connector. Cut the leads on 8 pin models, leaving enough to strip and solder the leads.
- 4. Install new heater unit or sensor:





WIRING DIAGRAM

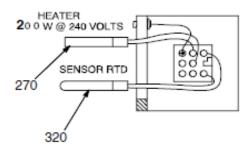


FIG. 16

a. Install the shrink wrap over the leads.

- Solder the leads to the appropriate connector (FIG. 15) for 6 pin connector. For Therm–O– Flow 8 pin assemblies, removal and replacement of the heaters and RTD require a pin extraction tool, new pins, and a pin crimping tool. These tools meet spec MIL–C–22520 [Ref. Daniels AF8 (crimp tool) or equivalent, available at local electrical supply warehouse.
- c. Coat heater or sensor with heat sink compound.
- d. Gently slide new heater or sensor into appropriate hole.
- e. Either shrink the shrink wrap, or use electrical tape to electrically insulate the connection between the leads and connector pins.
- Reconnect the dispense valve to the receptacle (FIG. 14):
 - Reattach the receptacle base to the dispense valve body and secure it with the two socket head screws [Fig. 14, Items (200) and washer (210)].
 - b. Reattach the receptacle cover to the Amphenol connector base and secure the cover with the screws.

Inspection Frequency

Automatic Dispense Valve

Inspect automatic dispense valve at least once every two weeks for leakage or other visible damage.

Check specifically for:

- material leaks
- air leaks

Hoses/Tubes

Inspect hoses/tubes at least once every two weeks for leakage or other visible damage.

- material hose
- air hoses

Heater

Every two weeks, check heater for proper resistance. Resistance should be approximately 96 ohms for the 120 volt valves or 288 ohms (+30/-40) for the 240 volt valves. Replace heater if necessary.

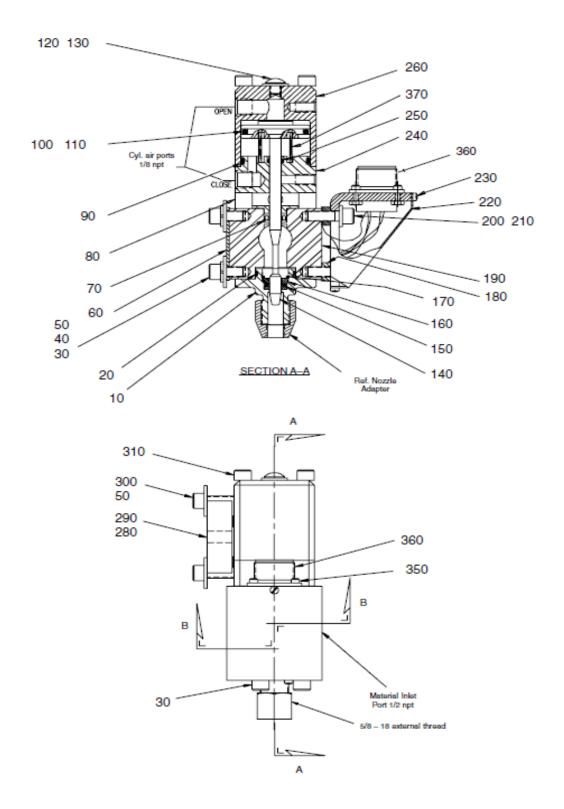
Also inspect heater when performing regular maintenance procedures.

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.

Model 194485, Warm (275°F/135°C max) Automatic Dispense Valve with Snuff Back



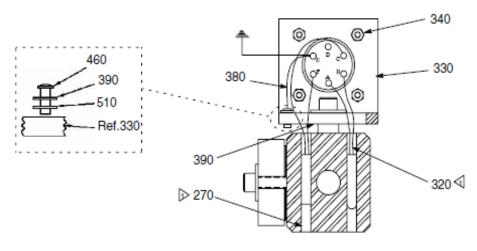
Model 194485, Warm (275°F/135°C max) Automatic Dispense Valve with Snuff Back

Ref	
No. Part No. Description	Qty.
10 617479 ADAPTER, seat	1
20* 722834 O-RING, -018 flouroelastome	r 1
30 C19800 SCREW, soc. hd. cap,	5
1/4" - 20 x 0.5	
40 100016 WASHER, lock, 1/4"	2
50 111591 WASHER, flat, 1/4"	4
60 C34044 PLATE, blank-off	1
70* 551190 SEAL, Polymite	1
80 C34030 SPACER	4
90* 113944 O-RING, -125 flouroelastomer	
100* 103649 O-RING, -123 flouroelastomer	
110* C32088 RING	1
120 617495 SCREW, button head,	1
1/4" - 20 x 0.31	
130* C20521 SEAL, thread	1
140✓ 918471 NEEDLE, piston	1
150* C54172 SEAL, rod, 0.25 x 0.50 x 0.25	1
160 617480 SPACER	1
170* C20406 RING, retaining, for 0.56 I.D.	1
180 C34045 SPACER	2
190 194527 BODY, gun	1
200 112166 SCREW, soc. hd. cap,	2
1/4" - 20 x 0.75	
210 C19197 WASHER, flat, 3/16	2

Ref			
No.	Part No.	Description	Qty.
220	C34040	COVER	1
230	C19269	SCREW, fill. hd. machine,	2
		#4 - 40 x 0.25	
240	617537	BASE, cylinder	1
250*	103337	O-RING, -010 fluoroelastomer	1
260		CAP, cylinder	1
270√	C31034	HEATER, cartridge 120V, 150W	
280	C32099	BLOCK, mounting	1
290	C33037	TAPE, fiberglass,	9"
		0.5" wide (229 mm)	-
300	C19810	SCREW, soc. hd. cap,	2
		1/4" - 20 x 1	
310	104594	SCREW, soc. hd. cap,	4
	_	1/4" - 20 x 3.25	
320			1
330	C34043	-	1
340		NUT, hex, #4 - 40	4
350	C19270	SCREW, fill. hd. machine,	4
	0.0000	#4 - 40 x 0.38	
360	C07329	CONNECTOR, 6 pin	1
370*	617536	SPRING	1
380	065345	WIRE, high temp. (127 mm)	5" 1
390	101674 C07664	TERMINAL, ring	ı A/R
400 460	112144	COMPOUND, heat sink SCREW	А/н 1
400 510	157021		1
510	10/021		1

* These parts are included in Repair Kit 194486, which may be purchased separately.

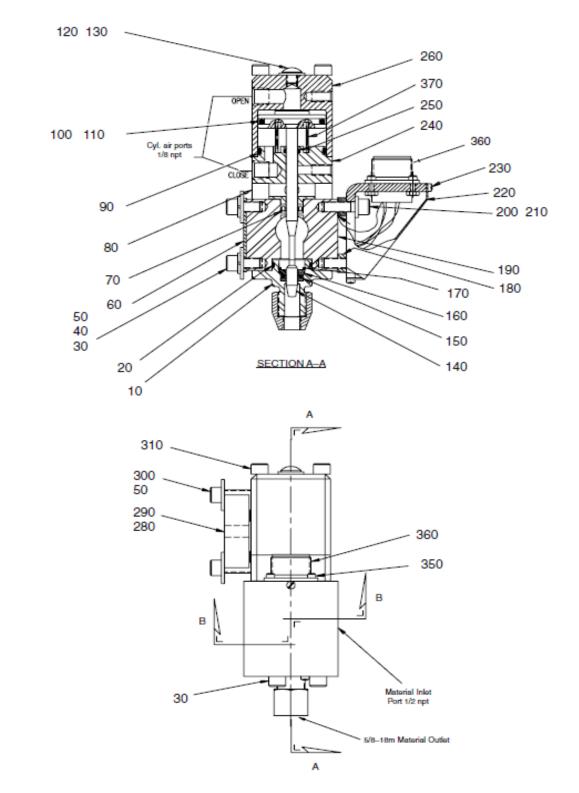
✓ Keep these spare parts on hand to reduce down time.



SECTION B-B (Enlarged to show detail)

Notes

Coat with heat sink compound (400) before installing.



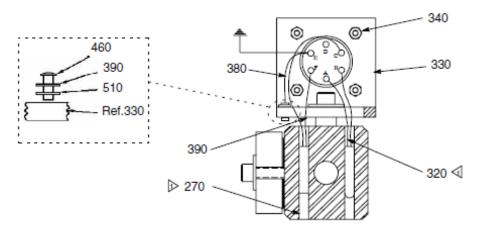
Model 918483, Therm-O-Flow Automatic Dispense Valve with Snuff Back

Model 918483, Therm-O-Flow Automatic Dispense Valve with Snuff Back

				Ref			
Ref				No.	Part No.	Description	Qty.
No.	Part No.	Description	Qty.	220	C34040	COVER	1
10	617479	ADAPTER, seat	1	230	C19269	SCREW, fill. hd. machine,	2
20*	722834	O-RING, -018 flouroelastomer	1			#4 - 40 x 0.25	
30	C19800	SCREW, soc. hd. cap,	5	240	617603	BASE, cylinder	1
		1/4" - 20 x 0.5		250*	103337	O-RING, -010 fluoroelastomer	1
40	100016	WASHER, lock, 1/4"	2	260	C34028	CAP, cylinder	1
50	110755	WASHER, flat, 1/4"	4	270🗸	C31034	HEATER, cartridge 120V, 150W	1
60		PLATE, blank-off	1	280	C32099	, 3	1
70*	617604	SEAL	1	290	C33037	TAPE, fiberglass,	9"
80		SPACER	4			0.5" wide (229 mm)	
90*		O-RING, -125 flouroelastomer	1	300	C19810	SCREW, soc. hd. cap,	2
100*	103649	O-RING, -123 flouroelastomer	1			1/4" - 20 x 1	
110*	C32088	RING	1	310	104594	SCREW, soc. hd. cap,	4
120	617495	SCREW, button head,	1			1/4" - 20 x 3.25	
		1/4" - 20 x 0.31		320🗸	C32255	SENSOR, RTD	1
130*	C20521	- ,	1	330	C34043	BRACKET	1
140		NEEDLE, piston	1	340		NUT, hex, #4 - 40	4
150*	617491	SEAL, rod hi temp,	1	350	C19270	SCREW, fill. hd. machine,	4
		0.25 x 0.50 x 0.25				#4 - 40 x 0.38	
160	617480	SPACER	1	360	C07329	CONNECTOR, 6 pin	1
170*		RING, retaining, for 0.56 I.D.	1	370*	617536	SPRING	1
180		SPACER	2	380	065345	WIRE, high temp. (127 mm)	5"
190	617605	BODY	1	390	101674	TERMINAL, ring	1
200	112166	SCREW, soc. hd. cap,	2	400	C07664	,	A/R
010	010107	1/4" - 20 x 0.75	0	460	112144	SCREW	1
210	C19197	WASHER, flat, 3/16	2	510	157021	WASHER, lock	1

* These parts are included in Repair Kit 918520, which may be purchased separately.

✓ Keep these spare parts on hand to reduce down time.

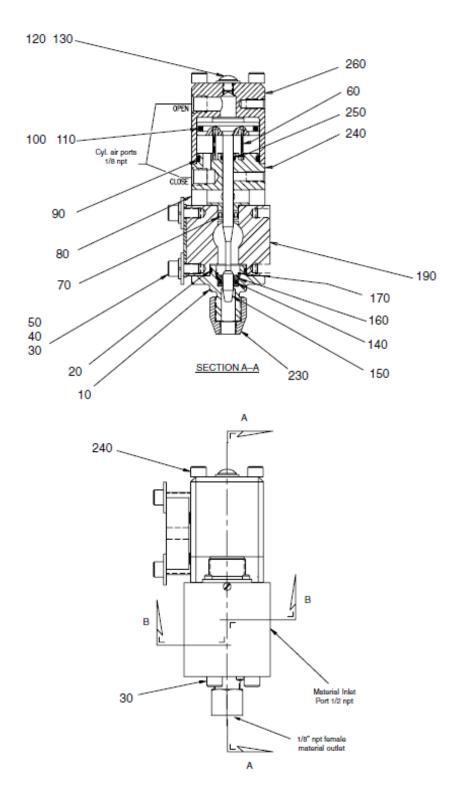


SECTION B-B (Enlarged to show detail)

Notes

Coat with heat sink compound (400) before installing.

Model 918512, Ambient Therm-O-Flow Automatic Dispense Valve with Snuff Back

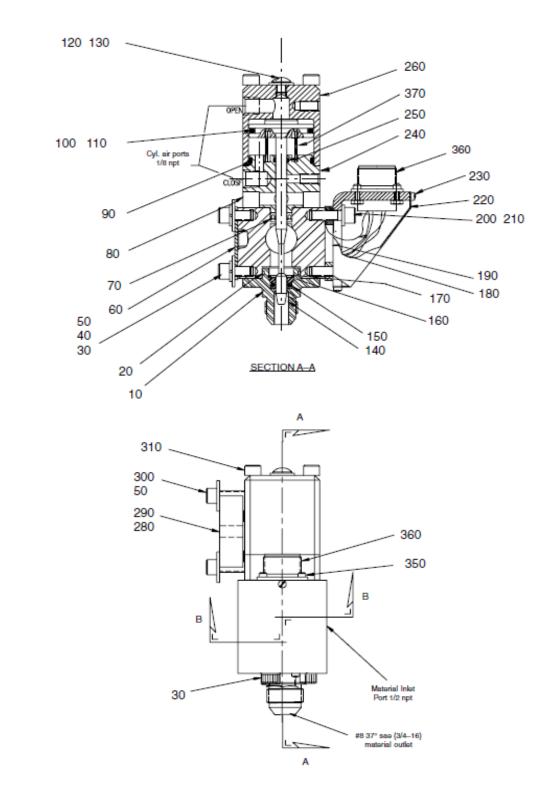


Model 918512, Therm-O-Flow Automatic Dispense Valve with Snuff Back

Ref			
No.	Part No.	Description	Qty.
10	617 479	ADAPTER, seat	1
20	722834	O-RING, -018 fluoroelastomer	1
30	C19800	SCREW, soc. hd. cap,	5
		1/4" - 20 x 0.5	
40	100016	WASHER, lock, 1/4"	2
50	110755	WASHER, flat, 1/4"	4
60	617536	SPRING	1
70	C34032	SEAL	1
80	C34030	SPACER	4
90	113944	O-RING, -123 fluoroelastomer	1
100	103649	O-RING	1
110	C32088	O-RING	1
120	112925	SCREW, button head, 1/4" - 20 x 0.31	1

Ref			
No.	Part No.	Description	Qty.
130	C20521	SEAL, thread	1
140	617491	SEAL, outlet	1
150	918471	NEEDLE assembly	1
160	617480	SPACER	1
170	111209	RING, retaining, for 0.56 I.D.	1
190	194527	BODY	1
200	617537	BASE, cylinder	1
210	103337	O-RING, -010 fluoroelastomer	1
220	C34028	CAP, cylinder	1
230	C32089	RETAINER	1
240	104594	SCREW, cap	4

✓ Keep these spare parts on hand to reduce down time.



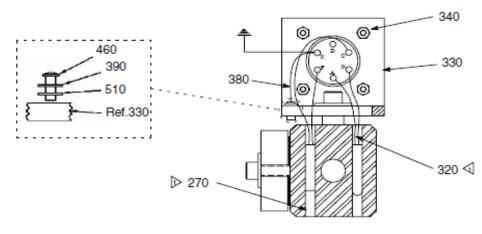


Model 918639, Therm-O-Flow Automatic Dispense Valve with Snuff Back

				Ref			
Ref				No.	Part No.	Description	Qty.
No.	Part No.	Description	Qty.	220	C34040	COVER	1
10	617690	ADAPTER, nozzle/valve	1	230	C19269	SCREW, fill. hd. machine,	2
20*	722834	O-RING, -018 flouroelastomer	1			#4 - 40 x 0.25	
30	C19800	SCREW, soc. hd. cap,	5	240	617603	BASE, cylinder	1
		1/4" - 20 x 0.5		250*	103337	O-RING, -010 fluoroelastomer	1
40	100016	WASHER, lock, 1/4"	2	260	C34028	CAP, cylinder	1
50	110755	WASHER, flat, 1/4"	4	270	C31034	HEATER, cartridge 120V, 150W	/1
60	C34044	PLATE, blank-off	1	280	C32099	BLOCK, mounting	1
70*	617604	SEAL	1	290	C33037	TAPE, fiberglass,	9"
80	C34030		4			0.5" wide (229 mm)	
90*	113944	,	1	300	C19810	SCREW, soc. hd. cap,	2
100*	103649	O-RING, -123 flouroelastomer	1			1/4" - 20 x 1	
110*	C32088	-	1	310	104594	SCREW, soc. hd. cap,	4
120	617495	SCREW, button head,	1			1/4" - 20 x 3.25	
		1/4" - 20 x 0.31		320🗸	C32255	SENSOR, RTD	1
130*	C20521		1	330	C34043	BRACKET	1
140		NEEDLE, piston	1	340	102794	NUT, hex, #4 - 40	4
150*	617491	SEAL, rod hi temp,	1	350	C19270	SCREW, fill. hd. machine,	4
		0.25 x 0.50 x 0.25				#4 - 40 x 0.38	
160	617480	SPACER	1	360	C07329	CONNECTOR, 6 pin	1
170*	C20406	·····; ··········	1	370*	617536	SPRING	1
180	C34045	SPACER	2	380	065345	WIRE, high temp. (127 mm)	5"
190	617605	BODY	1	390	101674	TERMINAL, ring	1
200	112166	, , , , , , , , , , , , , , , , , , , ,	2	400	C07664	COMPOUND, heat sink	A/R
	_	1/4" - 20 x 0.75		460	112144	SCREW	1
210	C19197	WASHER, flat, 3/16	2	510	157021	WASHER, lock	1

* These parts are included in Repair Kit 918520, which may be purchased separately.

✓ Keep these spare parts on hand to reduce down time.

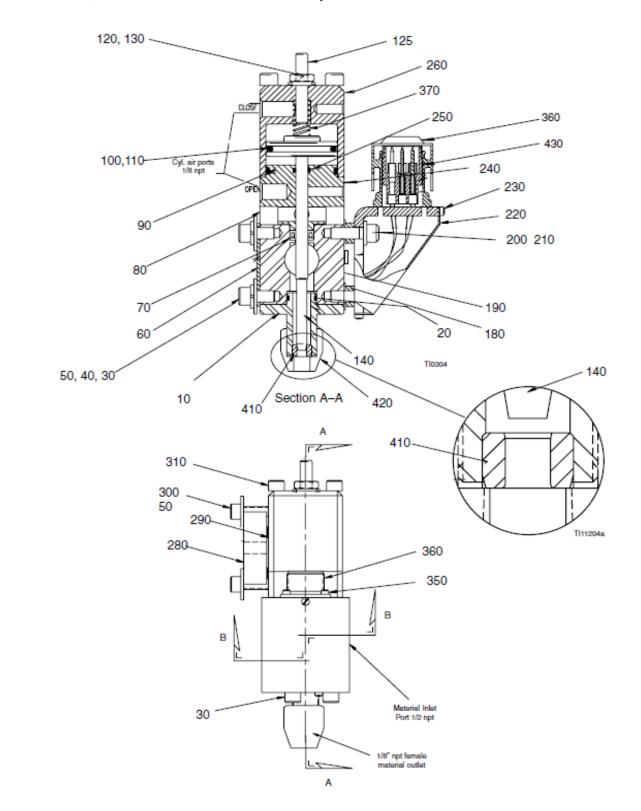


SECTION B-B (Enlarged to show detail)

Notes

Coat with heat sink compound (400) before installing.

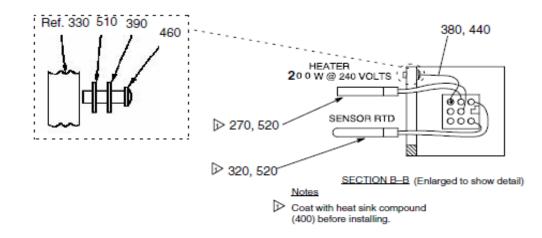
Parts



Model 243694, Therm-O-Flow Automatic Dispense Valve

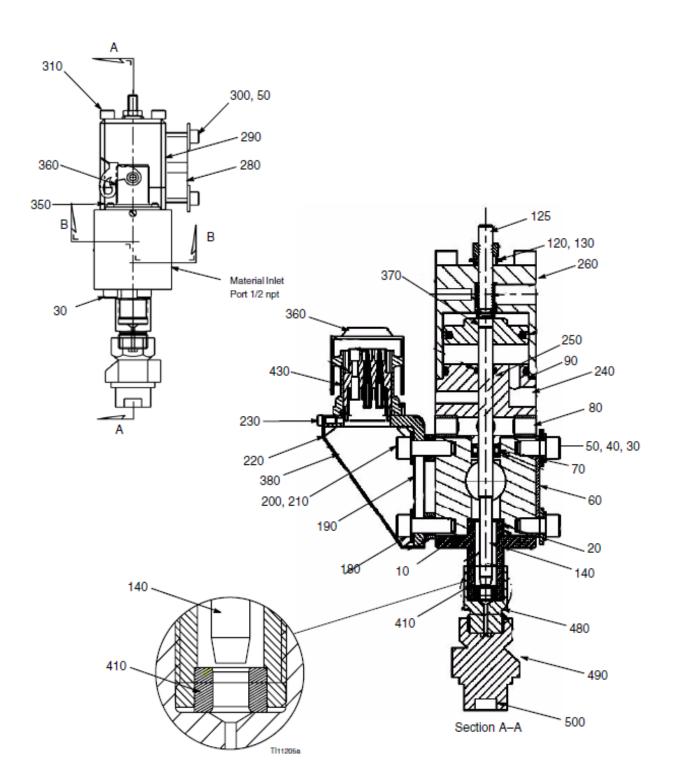
Model 243694, Therm-O-Flow Automatic Dispense Valve

				Ref			
Ref				No.	Part No.	Description	Qty.
No.	Part No.	Description	Qty.	270√	116011	HEATER, cartridge 230V, 200W	-
10	C32083	ADAPTER, seat	1	280	C32099	BLOCK, mounting	1
20*	103610	O-RING, -018 flouroelastomer	1	290	C33037	TAPE, fiberglass,	9"
30	C19800	SCREW, soc. hd. cap,	5			0.5" wide (229 mm)	
		1/4" - 20 x 0.5		300	C19810	SCREW, soc. hd. cap,	2
40	100016	WASHER, lock, 1/4"	2			1/4" - 20 x 1	
50	110755	WASHER, flat, 1/4"	4	310	104594	SCREW, soc. hd. cap,	4
60	C34044	PLATE, blank-off	1			1/4" - 20 x 3.25	
70*	C34032	SEAL, graphite/PTFE	1	320√	C32255	SENSOR, RTD	1
80	C34030	SPACER	4	330	C34043	BRACKET	1
90*	113944		1	350	C19949	SCREW, pan hd. machine,	2
100*	103649	O-RING, -123 flouroelastomer	1			#4 - 40 x 0.5	
110*	C32088	RING	1	360	115861	HOUSING, 8 pin	1
120	112248	NUT, hex	1	370	C34041	SPRING	1
125	C19359	SCREW, set	1	380	065345	WIRE, high temp. (127 mm)	5"
130*	C20521		1	390	101674	TERMINAL, ring	1
140	C32082	NEEDLE, assembly	1	410	C32090	SEAT	1
180	C34045	SPACER	2	420	C32089	NUT, retainer	1
190	C32097	BODY	1	430	115860	INSERT, male	1
200	112166	SCREW, soc. hd. cap,	2	440	115862	CONNECTOR, male, crimp	1
	0 4 0 4 0 7	1/4" - 20 x 0.75		460	112144	SCREW, PH 8-32 x 1/4	1
210	C19197	WASHER, flat, 3/16	2	510	157021	WASHER, lock	1
220	C34040	COVER	1	520	116640	CONNECTOR	4
230	C19269	SCREW, fill. hd. machine,	2				
		#4 - 40 x 0.25		* Thes	se parts a	re included in Repair Kit C273	842, which
240	C32085	BASE, cylinder	1			ased separately.	,
250*	103337	O-RING, -010 fluoroelastomer	1		•		down time
260	C34028	CAP, cylinder	1	✓ Kee	ep mese s	pare parts on hand to reduce	uown lime.



Parts





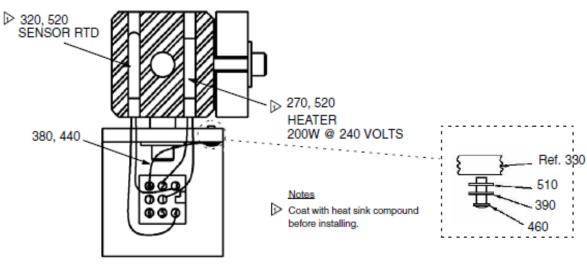
Model 297266, Automatic Hot Melt Swirl Dispense Valve

Ref			
No.	Part No.	Description	Qty.
10	C32083	ADAPTER, seat	1
20*	103610	O-RING, -018 flouroelastomer	1
30	C19800	SCREW, soc. hd. cap,	5
		1/4" - 20 x 0.5	
40	100016	WASHER, lock, 1/4"	2
50	110755	WASHER, flat, 1/4"	4
60	C34044	PLATE, blank-off	1
70*	C34032	SEAL, graphite/PTFE	1
80	C34030	SPACER	4
90*	113944	O-RING, -125 flouroelastomer	1
100*	103649	O-RING, -123 flouroelastomer	1
110*	C32088	RING	1
120	112248	NUT, hex	1
125	C19359	SCREW, set	1
130*	C20521	SEAL, thread	1
1407	C32082	NEEDLE, assembly	1
180	C34045	SPACER	2
190	C32097	BODY	1
200	112166	SCREW, soc. hd. cap,	2
		1/4" - 20 x 0.75	
210	C19197	WASHER, flat, 3/16	2
220	C34040	COVER	1
230	C19269	SCREW, fill. hd. machine,	2
		#4 - 40 x 0.25	
240	C32085	BASE, cylinder	1
250*	103337	O-RING, -010 fluoroelastomer	1
260	C34028	CAP, cylinder	1
270	116011	HEATER, cartridge 230V, 200W	1

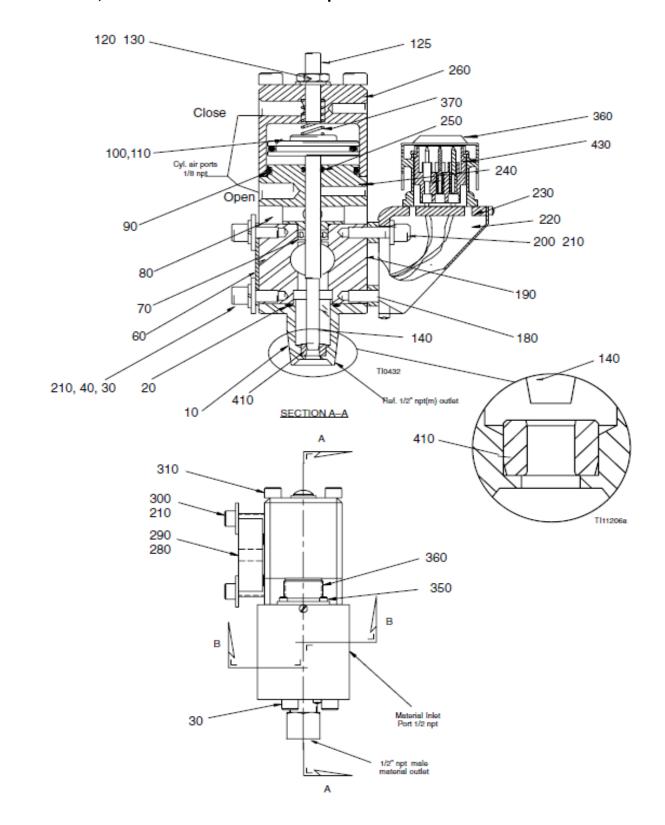
Ref		-	•
No.	Part No.	Description	Qty.
280	C32099	BLOCK, mounting	1
290	C33037	TAPE, fiberglass,	9"
		0.5" wide (229 mm)	
300	C19810	SCREW, soc. hd. cap,	2
		1/4" - 20 x 1	
310	104594	SCREW, soc. hd. cap,	4
		1/4" - 20 x 3.25	
320🗸		SENSOR, RTD	1
330		BRACKET	1
350	C19949	SCREW, pan hd. machine,	2
		#4 - 40 x 0.5	
360	115861	HOUSING, 8 pin	1
370	C34041	SPRING	1
380	065345	·····, ····, ····, ····, ····,	5"
390	101674	TERMINAL, ring	1
410	C32090	SEAT	1
430	115860	INSERT, male	1
440	115862	CONNECTOR, male, crimp	1
460	112144	SCREW, PH 8-32 x 1/4	1
480	15H098	ADAPTER, swirl	1 1
490 500	118072 117950	HEAD. applicator, swirl NOZZLE, swirl, 0.30	1
500 510	157021	WASHER, lock	1
520	116640	CONNECTOR	4
520	110040		4

* These parts are included in Repair Kit C27342, which may be purchased separately.

✓ Keep these spare parts on hand to reduce down time.



SECTION B-B (Enlarged to show detail)



Model 243695, Therm-O-Flow Automatic Dispense Valve

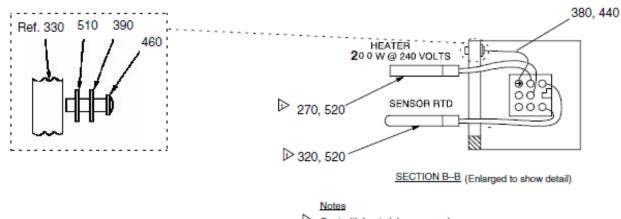
Model 243695, Therm-O-Flow Automatic Dispense Valve

Ref			
No.	Part No.	Description	Qty.
10	C51762	ADAPTER, seat	1
20*	16D530	O-RING	1
30	C19800	SCREW, soc. hd. cap,	5
		1/4" - 20 x 0.5	
40	100016	WASHER, lock, 1/4"	2
50			
60	C34044	PLATE, blank-off	1
70*	C34032		1
80	C34030		4
90*	113944	,	1
100*	103649	,	1
110*		-	1
120			1
125			1
130*	C20521		1 1
140√ 150	C32082	NEEDLE, piston	I
160			
170			
180	C34045	SPACER	2
190	C32097		1
200	112166	-	2
		1/4" - 20 x 0.75	_
210	C19197		6
220	C34040	_ , _ ,	1
230	C19269	SCREW, fill. hd. machine,	2
		#4 - 40 x 0.25	
240	C32085	BASE, cylinder	1
250*	103337	O-RING, -010 fluoroelastomer	1

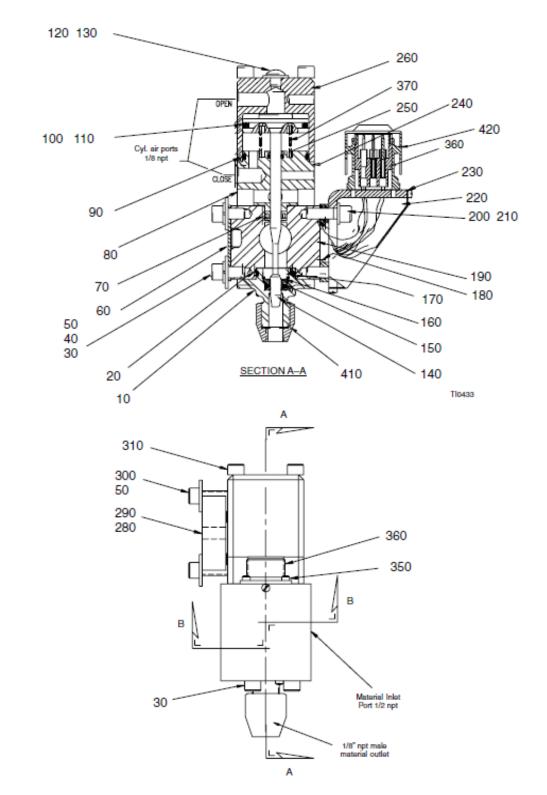
Ref			
No.	Part No.	Description	Qty.
260	C34028	CAP, cylinder	1
270	116011	HEATER, cartridge 230V, 200W	/1
280	C32099	, 5	1
290	C33037	,,	9"
	-	0.5" wide (229 mm)	
300	C19810	SCREW, soc. hd. cap,	2
		1/4" - 20 x 1	
310	104594	SCREW, soc. hd. cap,	4
	-	1/4" - 20 x 3.25	
320		,	1
330	C34043	-	1
350	C19949	- , , , , , , , , , , , , , , , , , , ,	2
		#4 - 40 x 0.5	
360	115861	HOUSING, conn.	1
370	C34041		1
380	065345	WIRE, high temp. (127 mm)	5"
390 410	101674 C51774	TERMINAL, ring SEAT	1 1
430	115860	INSERT, male	1
430	115862	CONNECTOR, male	1
460	112144	SCREW	1
510	157021		1
520	116640	CONNECTOR	4
			•

* These parts are included in Repair Kit C50594, which may be purchased separately.

✓ Keep these spare parts on hand to reduce down time.



Coat with heat sink compound (400) before installing.





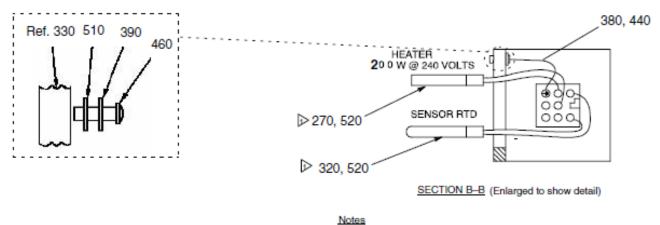
Model 243696, Therm-O-Flow Automatic Dispense Valve with Snuff Back

Ref			
No.	Part No.	Description	Qty.
10	617479	ADAPTER, seat	1
20*	722834	O-RING, -018 flouroelastomer	1
30	C19800	SCREW, soc. hd. cap	5
40	100016	WASHER, lock, 1/4"	2
50	110755	WASHER, flat, 1/4"	4
60	C34044	PLATE, blank-off	1
70*	617604	SEAL, PTFE, 0.25 x 0.44	1
80	C34030	SPACER	4
90*	113944	O-RING, -125 flouroelastomer	1
100*	103649	O-RING, -123 flouroelastomer	1
110*	C32088	RING	1
120	617495	SCREW, button head,	1
		1/4" - 20 x 0.31	
130*	C20521	SEAL, thread	1
140🗸		NEEDLE, assembly	1
150*	617491	SEAL, rod hi temp,	1
		0.25 x 0.50 x 0.25	
160	617480	SPACER	1
170*	C20406	RING, retaining, for 0.56 I.D.	1
180	C34045	SPACER	2
190	617605	BODY	1
200	112166	SCREW, soc. hd. cap,	2
		1/4" - 20 x 0.75	
210	C19197	WASHER, flat, 3/16	2
220	C34040	COVER	1
230	C19269	SCREW, fill. hd. machine,	2
		#4 - 40 x 0.25	
240	617603	BASE, cylinder	1

Ref			
No.	Part No.	Description	Qty.
250*	103337	O-RING, -010 fluoroelastomer	1
260	C34028	CAP, cylinder	1
270√	116011	HEATER, cartridge 230V, 200W	1
280	C32099	BLOCK, mounting	1
290	C33037	TAPE, fiberglass,	9"
		0.5" wide (229 mm)	
300	C19810	SCREW, soc. hd. cap,	2
		1/4" - 20 x 1	
310	104594	SCREW, soc. hd. cap,	4
		1/4" - 20 x 3.25	
320🗸	C32255	SENSOR, RTD	1
330	C34043	BRACKET	1
340	112144	SCREW	1
350	C19949	SCREW, pan hd. machine,	2
		#4 - 40 x 0.5	
360	115860	INSERT, male	1
370*	617536	SPRING	1
390	065345	WIRE, high temp, (127 mm)	5"
400	101674	TERMINAL, ring	1
410	C32089	NUT, nozzle	1
420	115861	HOUSING, connector	1
430	115862	CONNECTOR, male	1
510	157021	WASHER, lock	1
520	116640	CONNECTOR	4

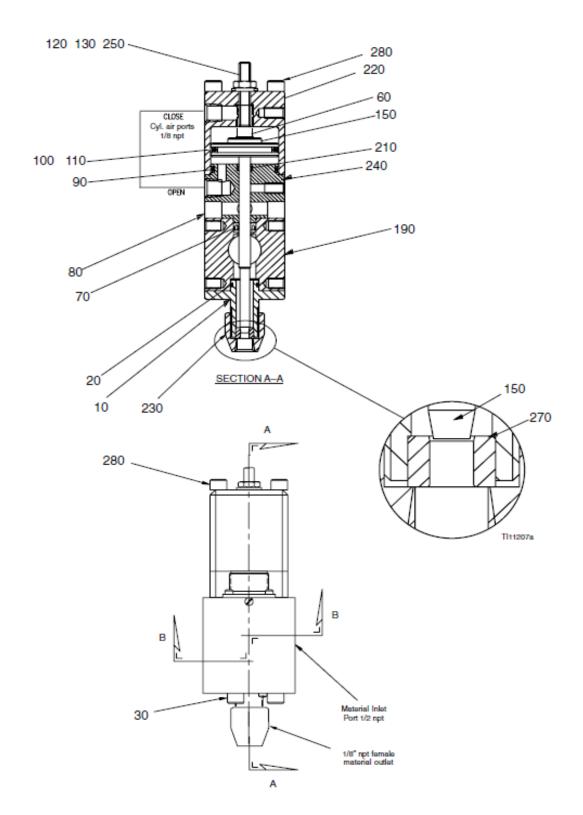
* These parts are included in Repair Kit 918520, which may be purchased separately.

✓ Keep these spare parts on hand to reduce down time.



Coat with heat sink compound (400) before installing.

Model C27340, Ambient Therm-O-Flow Automatic Dispense Valve, Double Acting

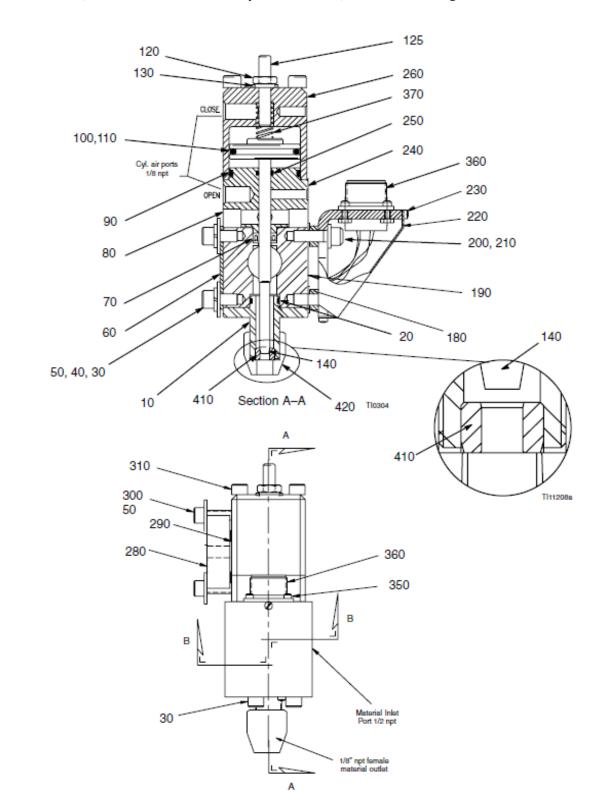


Model C27340, Ambient Therm-O-Flow Automatic Dispense Valve, Double Acting

Ref No.	Dort No	Description	Otv
NO.	Fart NO.	Description	Qty.
10	C32083	ADAPTER, seat	1
20	103610	O-RING, -018 flouroelastomer	1
30	C19800	SCREW, soc. hd. cap,	3
		1/4" - 20 x 0.5	
60	C34041	SPRING	1
70	C34032	SEAL	1
80	C34030	SPACER	4
90	113944	O-RING, -123 flouroelastomer	1
100	103649	O-RING	1
110	C32088	GLIDE RING	1
120	C19359	SCREW, set, 1/4" - 20 x 1.5	1

Ref No.	Part No.	Description	Qty.
130	112248	NUT, hex, 1/4" - 20	1
150🗸	C32082	NEEDLE assembly	1
190	C32097	BODY	1
210	103337	O-RING, -010 fluoroelastomer	1
220	C34028	CAP, cylinder	1
230	C32089	RETAINER	1
240	C32085	BASE, cylinder	1
250	C20521	SEAL, thread	1
270	C32090	SEAT	1
280	104594	SCREW, soc. hd.	4

✓ Keep these spare parts on hand to reduce down time





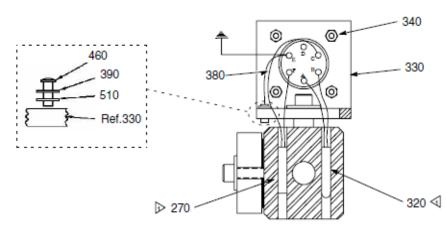
Model C34068, Warm (275°F/135°C max) Automatic Dispense Valve with Snuff Back

Ref			
No.	Part No.	Description	Qty.
10	C32083	ADAPTER, seat	1
20*	103610	O-RING, -018 flouroelastomer	1
30	C19800	SCREW, soc. hd. cap,	5
		1/4" - 20 x 0.5	
40	100016	WASHER, lock, 1/4"	2
50	110755	WASHER, flat, 1/4"	4
60	C34044	PLATE, blank-off	1
70*	C34032	SEAL, graphite/PTFE	1
80	C34030	SPACER	4
90*	113944	O-RING, -125 flouroelastomer	1
100*	103649	O-RING, -123 flouroelastomer	1
110*	C32088	RING	1
120	112248	NUT, hex	1
125	C19359	SCREW, set	1
130*	C20521	SEAL, thread	1
140		NEEDLE, assembly	1
180	C34045		2
190	C32097	-	1
200	112166	SCREW, soc. hd. cap,	2
		1/4" - 20 x 0.75	-
210	C19197	WASHER, flat, 3/16	6
220	C34040	COVER	1
230	C19269	SCREW, fill. hd. machine,	2
	_	#4 - 40 x 0.25	
240	C32085	BASE, cylinder	1
250*	103337	O-RING, -010 fluoroelastomer	1
260	C34028	CAP, cylinder	1

Ref			
No.	Part No.	Description	Qty.
270√	C31034	HEATER, cartridge 120V, 150W	V 1
280	C32099	BLOCK, mounting	1
290	C33037	TAPE, fiberglass,	9"
		0.5" wide (229 mm)	
300	C19810	SCREW, soc. hd. cap,	2
		1/4" - 20 x 1	
310	104594	SCREW, soc. hd. cap,	4
		1/4" - 20 x 3.25	
320🗸	C32255	SENSOR, RTD	1
330	C34043	-	1
340		NUT, hex, #4 - 40	
350	C19270	SCREW, fill. hd. machine,	2
	_	#4 - 40 x 0.38	
360	C07329	CONNECTOR, 6 pin	1
370	C34041	SPRING	1
380	065345	WIRE, high temp. (127 mm)	5"
390	101674	TERMINAL, ring	1
400	073019	COMPOUND, heat sink (not	
440	000000	shown)	
410	C32090	SEAT	1
420	C32089	NUT, retainer	1 1
460	112144		1
510	157021	WASHER, lock	I

* These parts are included in Repair Kit C27342, which may be purchased separately.

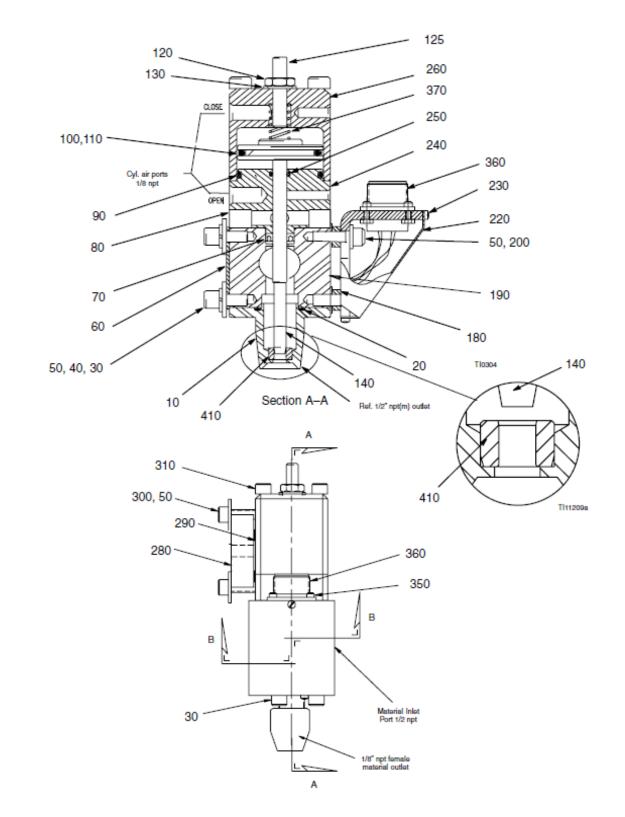
✓ Keep these spare parts on hand to reduce down time.



SECTION B-B (Enlarged to show detail)

Notes

Coat with heat sink compound (400) before installing.





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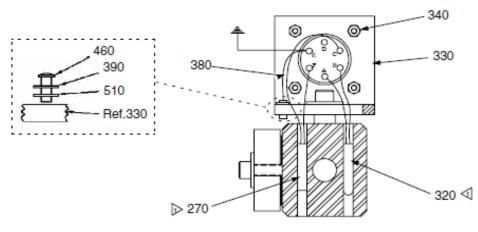
Model C34079, Therm-O-Flow Automatic Dispense Valve, Double Acting

				Ref	
Ref				No.	Part No.
No.	Part No.	Description	Qty.	260	C34028
10	C51762	ADAPTER, seat	1	270√	C31034
20*	16D530	O-RING	1	280	C32099
30	C19800	SCREW, soc. hd. cap,	5	290	C33037
		1/4" - 20 x 0.5			
40	100016	WASHER, lock, 1/4"	2	300	C19810
50	C19197	WASHER, flat, 1/4"	6		
60	C34044	PLATE, blank-off	1	310	104594
70*	C34032	SEAL, graphite/PTFE	1		
80	C34030	SPACER	4	320√	C32255
90*	113944	O-RING, -125 flouroelastomer	1	330	C34043
100*	103649	O-RING, -123 flouroelastomer	1	340	102794
110*	C32088	RING	1	350	113970
120	112248	NUT, hex	1	360	C07329
125	C19359	SCREW, set	1	370	C34041
130*	C20521	SEAL, thread	1	380	065345
140	C32082	NEEDLE, assembly	1	390	101674
180	C34045	SPACER	2	400	073019
190	C32097	BODY	1		
200	112166	SCREW, soc. hd. cap,	2	410	C51774
		1/4" - 20 x 0.75		460	112144
220	C34040	COVER	1	510	157021
230	C19269	SCREW, fill. hd. machine,	2		
		#4 - 40 x 0.25		* The	se parts a
240	C32085	BASE, cylinder	1		be purch
250*	103337	O-RING, -010 fluoroelastomer	1		•
				./ KOG	on thaca c

Ref			
No.	Part No.	Description	Qty.
260	C34028	CAP, cylinder	1
270	C31034	HEATER, cartridge 120V, 150W	1
280	C32099	BLOCK, mounting	1
290	C33037	TAPE, fiberglass,	9"
		0.5" wide (229 mm)	
300	C19810	SCREW, soc. hd. cap,	2
		1/4" - 20 x 1	
310	104594	SCREW, soc. hd. cap,	4
		1/4" - 20 x 3.25	
320	C32255	SENSOR, RTD	1
330	C34043	BRACKET	1
340	102794	NUT, hex, #4 - 40	4
350	113970	SCREW, machine, #4 - 40	4
360	C07329	CONNECTOR, 6 pin	1
370	C34041	SPRING	1
380	065345	WIRE, high temp. (127 mm)	5"
390	101674	TERMINAL, ring	1
400	073019	COMPOUND, heat sink (not	A/R
		shown)	
410	C51774	SEAT	1
460	112144	SCREW	1
510	157021	WASHER, lock	1

* These parts are included in Repair Kit C34080, which may be purchased separately.

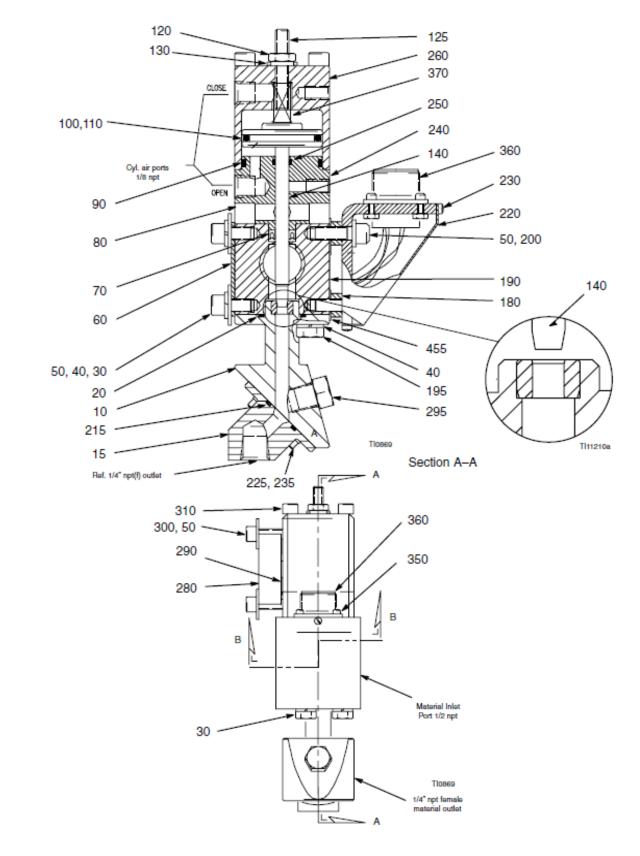
✓ Keep these spare parts on hand to reduce down time.



SECTION B-B (Enlarged to show detail)

Notes

Coat with heat sink compound (400) before installing.



Model C50592, Therm-O-Flow Automatic Dispense Valve, Double Acting

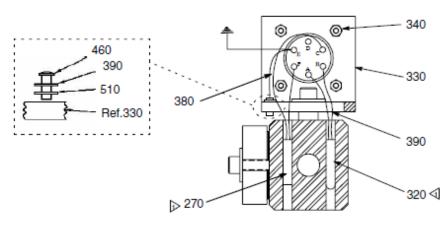
Model C50592, Therm-O-Flow Automatic Dispense Valve, Double Acting

Ref			•	Ref No.
No.	Part No.	Description	Qty.	250*
10	C50881	ADAPTER, nozzle manifold	1	260
15	C50582	MANIFOLD, nozzle	1	270√
20*	16D530	O-RING	1	280
30	C19800	SCREW, soc. hd. cap, 1/4" - 20 x 0.5	2	290
40	100016	WASHER, lock, 1/4"	5	295
50	C19197	WASHER, flat, 1/4"	6	300
60	C34044	PLATE, blank-off	1	
70*	C34032	SEAL, graphite, PTFE	1	310
80	C34030	SPACER	4	
90*	113944	O-RING, -125 flouroelastomer	1	320🗸
100*	103649	O-RING, -123 flouroelastomer	1	330
110*	C32088	RING, piston	1	340
120	112248	NUT, hex	1	350
125	C19359	SCREW, set	1	360
130*	C20521	SEAL, thread	1	370
140		NEEDLE, assembly	1	380
180	C34045	SPACER	2	390
190	C32097	BODY	1 3	400
195 200	100333 112166	SCREW, cap, hex. hd.	3	
200	112100	SCREW, soc. hd. cap,	2	460
215*	109576	1/4" - 20 x 0.75	1	510
215	C34040	O-RING, fluoroelastomer COVER	1	
220	112788	SCREW, soc. hd. cap	4	* The
225	C19269	SCREW, fill. hd. machine,	2	may
		#4 - 40 x 0.25		✓ Kee
235	100079	WASHER, lock, spring	4	
240	C32085	BASE, cylinder	1	

Ref			
No.	Part No.	Description	Qty.
250*	103337	O-RING, -010 fluoroelastomer	1
260	C34028	CAP, cylinder	1
270	C31034	HEATER, cartridge 120V, 150W	1
280	C32099	BLOCK, mounting	1
290	C33037	TAPE, fiberglass,	11"
		0.5" wide (229 mm)	
295	C38014	PLUG, o-ring boss	1
300	C19810	SCREW, soc. hd. cap,	2
		1/4" - 20 x 1	
310	104594	SCREW, soc. hd. cap,	4
		1/4" - 20 x 3.25	
320🗸	C32255	SENSOR, temperature	1
330	C34043	BRACKET	1
340	102794	NUT, hex, #4 - 40	4
350	113970	SCREW, machine, #4 - 40	4
360	C07329	CONNECTOR, 6 pin	1
370	C34041	SPRING	1
380	065345	WIRE, lead, motor	5"
390	101674	TERMINAL, ring	1
400	073019	COMPOUND, heat sink (not	A/R
		shown)	
460	112144	SCREW	1
510	157021	WASHER, lock	1

* These parts are included in Repair Kit C50594, which may be purchased separately.

/ Keep these spare parts on hand to reduce down time.



SECTION B-B (Enlarged to show detail)

Notes

Coat with heat sink compound (400) before installing.

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Accessories

Use Only Genuine Graco Parts and Accessories

Description LOW PRESSURE HEATED HOSES

14 MPa (138 bar, 2000 psi) Heated hoses for use with Therm-O-Flow $^{\mbox{\scriptsize B}}$ 5 and Therm-O-Flow 55 supply units. Contact your Graco Service Representative for more information.

HIGH PRESSURE HEATED HOSES

28 MPa (275 bar, 4000 psi) Heated hoses for use with Therm-O-Flow 5 and Therm-O-Flow 55 supply units. Contact your Graco Service Representative for more information.

HOSE FITTINGS

For use with heated hoses. Do not use fittings with temperature ratings that are lower than the operating temperature of your system. Contact your Graco Service Representative for more information.

#8-37° SAE [3/4-16 (m)] x 1/2 npt male adapter	
#10-37° SAE [7/8"-14 (m)] x 1/2 npt male adapter	

NOTE: The following accessories are not applicable to Model 297266.

EXTRUSION NOZZLE ADAPTER NUT [5/8-18(f) x 1/8 npt(f)]

Adapts 1/8"–27 npt (m) nozzles to dispense valve. Accepts the adapter nut. 5/8–18F X 1/8 npt(f) nozzles listed below. Contact your Graco Service Representative for more information.

Description	Length	Orifice	Thread	Part No.
Nozzle	2"	Ø 3/32"	1/8" npt	161505
	2"	Ø 1/84"		607665
	21/8"	Ø 1/8"		164799
	2-7/16"	Ø 3/32" x 3/8"		C01025
	1-7/32"	Ø 1/8"	1	C17009

STREAMING TIP ADAPTERS

Ø 0.469 opening adapter for automatic dispense valve. Use tips listed below. The last 3 digits of the part number indicate the orifice size. Contact your Graco Service Representative for streaming tip selection.

Orifice Size (inches)	Part No.	Orifice Size (inches)	Part No.
Odd sizes .025" t	nrough .047"		
0.25	270025	.061	270061
0.37	270037	.063	270063
0.47	270047	.065	270065
		.067	270067
		.077	270077

617585

Part No.

C32089

C20700 C20703

Accessories

AIR FITTINGS

Suggested air fittings for automatic dispense valve air inlet ports. Do not use fittings with temperature ratings that are lower than the operating temperature of your system. Contact your Graco Service Representative for more information.

Description	NPT	Tube	Part No.
90° elbow, brass push-in tube	1/8" male	1/4" O.D.	C19389

SOLENOID VALVE KITS

For heated double acting air actuated valves. Includes solenoid, 24" high temperature air tubes, air fittings, and muffler.

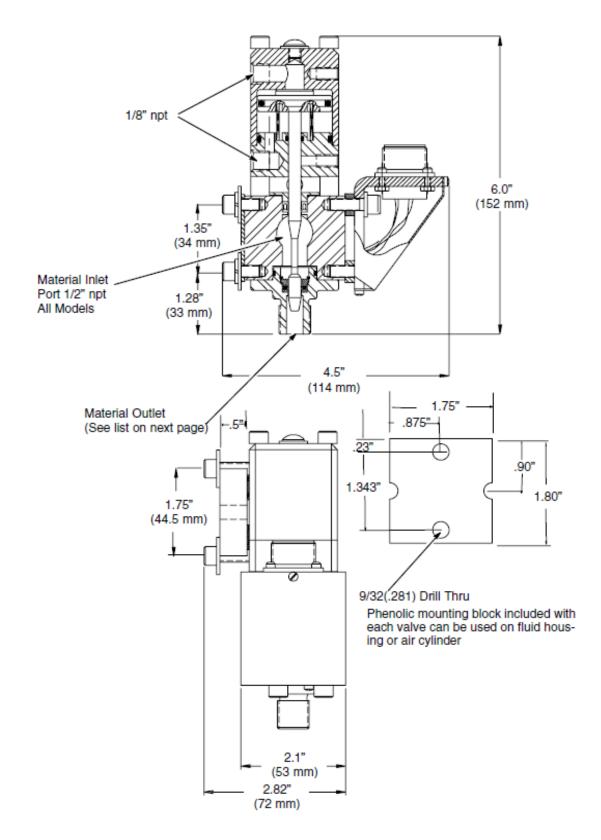
Coil Voltage	Part No.	
120 Volt AC	C58942	
230 Volt AC	243703	
24 Volt DC	C59038	

SWIRL ASSEMBLIES

For Model 297266 only.

Description	Orifice Size (in.)	Part No.
Swirl applicator head	n/a	118072
Swirl nozzle	.030	117950
Swirl nozzle	.045	117951
Swirl nozzle	.060	117952
Swirl nozzle	.080	117953

Dimensions



-	

Technical Data

Maximum working dry air pressure

Material Inlet (to conditioning manifold)

Air Inlet

120 Volt Heater (Models C34068, C34079, C50592, 194485, 918483, 918512, and 918639)

240 Volt Heater (Models 243694, 243695, 243696, and 297266)

RTD Sensor

Weight (automatic dispense valve + connector)

1 MPa (10 bar, 150 psi) 1/2" npt 1/8" npt 150w @ 120 Vac, 96 ohms +/-10

200w @ 240 Vac, 288 ohms +30/-40

100 Ohm platinum RTD, 0.00385 ohm/ohm/deg C (108.2 ohms @ 21° C (70° F))

approx. 1.8 kg (4 lbs)

Fluid Seal Material	Part No.	Max. Temp.	Maximum Fluid Working Pressure	Maximum Air Input Pressure	Parts Page
Polymite/ fluoroelastomer	194485	135° C (275° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	20
PTFE/fluoroelastomer	918483	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	22
PTFE/fluoroelastomer	918512	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	24
PTFE/fluoroelastomer	918639	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	26
PTFE/fluoroelastomer	243694	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	28
PTFE/fluoroelastomer	297266	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	30
PTFE/fluoroelastomer	243695	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	31
PTFE/fluoroelastomer	243696	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	33
PTFE/fluoroelastomer	C27340	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	35
PTFE/fluoroelastomer	C34068	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	37
PTFE/fluoroelastomer	C34079	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	39
PTFE/fluoroelastomer	C50592	205° C (400° F)	241 bar, 24 MPa (3500 psi)	10 bar, 1MPa (150 psi)	41

WETTED PARTS (all values)

Stainless Steel, plated carbon steel, chrome, brass.

PrecisionFloTM is a trademark of Graco, Inc.

PARKER O LUBE is a trademark of Parker Seal.

POLYMITE is a trademark of Parker Seal.

Material Outlet		
C34079 and 243695	1/2 npt(m)	
194485, 918483	5/8–18 thread to accept nozzle retaining nuts	
918512, 243694, and 243696	Nozzle retaining nut with 1/8 npt(f)	
918639	3/4–16 (37°SAE #8)	

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is 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.

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For patent information, see www.graco.com/patents.

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Original instructions. This manual contains English. MM 310538

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