

PSM

3B0405C

1K Ambient and 1K Warm Melt Precision Metering System

EΝ

For accurate metering and dispensing of ambient and warm melt warm melt materials. For professional use only.

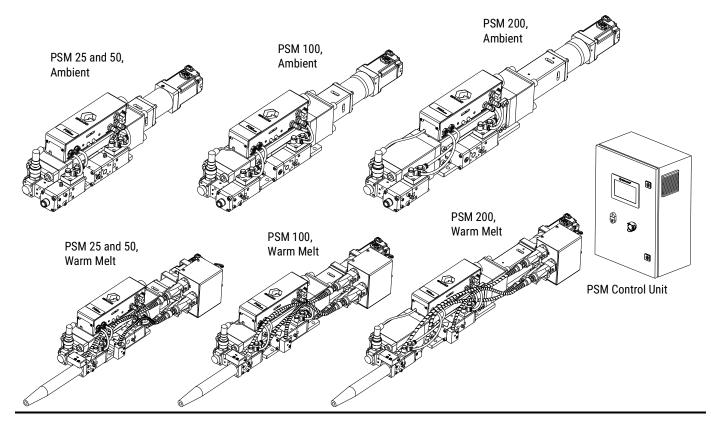
Not approved for use in explosive atmospheres or hazardous (classified) locations.

100 psi (0.7 MPa, 7 bar) Maximum Air Inlet Pressure. See page 3 for model information, including maximum fluid working pressure.



Important Safety Instructions

Read all warnings and instructions in this manual, your PSM instruction manual, and your dispensing manuals before using the equipment. Save these instructions.







Contents

Related Manuals	2
Models	3
Models, PSM Ambient	3
Models, PSM Warm Melt	3
Safety Symbols	4
General Warnings	5
Changing Materials	7
Repair	8
Preparation	8
Piston/Cylinder Replacement	
Warm Melt Module Replacement (Only for PSM War Melt)	
Prepare for Operation	10
Recycling and Disposal	10
End of Product Life	10
Parts	11
Overview	11
System	12
Base	
Metering Module	18
Power Transmission Module	
Junction Box	22
Inlet Valve Module	
1K Inlet Valve Module	
Outlet Valve Module	
1K Outlet Valve Module	
Warm Melt Module (Only for PSM Warm Melt)	
Control Unit	
Kits and Accessories	
Remote Kits	
Communication Module Kits	
Piston Kits	
Metering Module Kits	
Sealing Kits	
Valve Kits	
Cables for Warm Melt Pump	
Appendix: Spare Parts	
Technical Specifications	
California Proposition 65	
Graco Standard Warranty	41

Related Manuals

Manuals in English	Description
3B0404	PSM Instruction Manual
3B0465	Communications Gateway Module Installation Kit Instruction Manual
X032396	iQ Dispense Valves Instructions and Parts List Manual
3A8005	Therm-O-Flow [®] Warm Melt Instructions and Parts List Manual

Models

Models, PSM Ambient

Part	Capacity	Maximum Fluid Working Pressure psi (MPa, bar)	Description
2009034	25cc	3000 psi (20.7 MPa, 207 bar)	System, PSM25, SST ⁽¹⁾ , PCB, I/O ⁽³⁾
2009035	25cc	3000 psi (20.7 MPa, 207 bar)	System, PSM25, CER ⁽²⁾ , PCB, I/O ⁽³⁾
2008986	50cc	3000 psi (20.7 MPa, 207 bar)	System, PSM50, SST ⁽¹⁾ , PCB, I/O ⁽³⁾
2008987	50cc	3000 psi (20.7 MPa, 207 bar)	System, PSM50, CER ⁽²⁾ , PCB, I/O ⁽³⁾
2008990	100cc	3000 psi (20.7 MPa, 207 bar)	System, PSM100, SST ⁽¹⁾ , PCB, I/O ⁽³⁾
2008992	200cc	3000 psi (20.7 MPa, 207 bar)	System, PSM200, SST ⁽¹⁾ , PCB, I/O ⁽³⁾

Models, PSM Warm Melt

Part	Capacity	Maximum Fluid Working Pressure psi (MPa, bar)	Description
2009036	25cc	3000 psi (20.7 MPa, 207 bar)	System, PSM25, SST ⁽¹⁾ , Warm Melt, PCB, I/O ⁽³⁾
2008988	50cc	3000 psi (20.7 MPa, 207 bar)	System, PSM50, SST ⁽¹⁾ , Warm Melt, PCB, I/O ⁽³⁾
2008991	100cc	3000 psi (20.7 MPa, 207 bar)	System, PSM100, SST ⁽¹⁾ , Warm Melt, PCB, I/O ⁽³⁾
2008993	200сс	3000 psi (20.7 MPa, 207 bar)	System, PSM200, SST ⁽¹⁾ , Warm Melt, PCB, I/O ⁽³⁾

⁽¹⁾ SST: Stainless steel material

⁽²⁾ CER: Ceramic material

⁽³⁾ Any I/O communication mode can be converted to Profinet or Ethernet IP communication mode. Order Profinet ModBus kit 2005273 for Profinet communication mode or Ethernet IP Modbus kit 2000362 for Ethernet IP communication mode, and perform communication mode adding procedures. See your Communications Gateway Module Installation Kit Instruction Manual for details. See Related Manuals, page 2.

Safety Symbols

The following safety symbols appear throughout this manual and on warning labels. Read the table to understand what each symbol means.

Symbol	Meaning
	Burn Hazard
4	Electric Shock Hazard
	Equipment Misuse Hazard
	Fire and Explosion Hazard
	Moving Parts Hazard
	Skin Injection Hazard
	Skin Injection Hazard
	Splash Hazard
	Toxic Fluid or Fumes Hazard

Symbol	Meaning
	Do Not Place Hands or Other Body Parts Near Fluid Outlet
	Do Not Stop Leaks with Hand, Body, Glove or Rag
	Eliminate Ignition Sources
MPa/bar/PSI	Follow Pressure Relief Procedure
	Ground Equipment
	Read Manual
	Ventilate Work Area
	Wear Personal Protective Equipment
	Wear Personal Protective Equipme



Safety Alert Symbol

This symbol indicates: Attention! Become Alert! Look for this symbol throughout the manual to indicate important safety messages.

General Warnings

The following warnings apply throughout this manual. Read, understand, and follow the warnings before using this equipment. Failure to follow these warnings can result in serious injury.

⚠WARNING



ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.

- Turn off and disconnect all power before disconnecting any cables and before servicing or installing equipment.
- Connect only to grounded power source.
- All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.



SKIN INJECTION HAZARD

High-pressure fluid from dispensing device, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**



- Do not point dispensing device at anyone or at any part of the body.
- Do not put your hand over the fluid outlet.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing
 equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.







MARNING

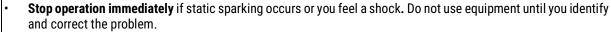


FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. Paint or solvent flowing through the equipment can cause static sparking. To help prevent fire and explosion:



- Use equipment only in well-ventilated area.
- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static sparking).
- Ground all equipment in the work area. See **Grounding** instructions.
- Never spray or flush solvent at high pressure.
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Use only arounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are anti-static or conductive.



Keep a working fire extinguisher in the work area.





EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.



- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Specifications in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Specifications** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer.
- Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



MOVING PARTS HAZARD

Moving parts can pinch, cut or amputate fingers and other body parts.



- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed. Equipment can start without warning. Before checking, moving, or servicing equipment, follow the **Pressure** Relief Procedure and disconnect all power sources.



TOXIC FLUID OR FUMES HAZARD

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

- Read Safety Data Sheets (SDSs) to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.

MARNING



BURN HAZARD

Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns:

Do not touch hot fluid or equipment.



PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. Protective equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- · Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

Changing Materials

NOTICE

Changing the material types used in your equipment requires special attention to avoid equipment damage and downtime.

- When changing materials, flush the equipment multiple times to ensure it is thoroughly clean.
- Always clean the fluid inlet strainers after flushing.
- Check with your material manufacturer for chemical compatibility.
- When changing between epoxies and urethanes or polyureas, disassemble and clean all fluid components and change hoses. Epoxies often have amines on the B (hardener) side. Polyureas often have amines on the B (resin) side.

Repair



This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow **Pressure Relief Procedure** in your PSM Instruction Manual when you stop operating and before cleaning, checking, or servicing the equipment.

To avoid injury from toxic fluids or fumes, such as splashing in the eyes or on skin, wear appropriate personal protective equipment.

To avoid injury from fire, explosion, or electric shock, all electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.

To avoid severe burns, do not touch hot fluid or equipment.

Preparation

NOTE: Graco suggests using TSL™ only in repair procedures. All procedures should be performed by an appropriate professional.

- Follow steps 1 through 3 of the Pressure Relief Procedure in your PSM Instruction Manual. See Related Manuals, page 2.
- 2. Turn off the air supply when the fluid pressure drops to ZERO.
- Go to the Advanced Screen of the PSM Control Unit (F on Typical Installation page in your PSM Instruction Manual, see Related Manuals, page 2). Set the move speed at about 0.2 cc/s, then jog select "Piston move down" until the lower switch light is activated.

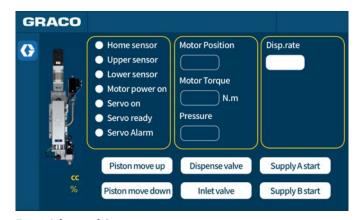


Fig. 1 Advanced Screen

NOTE: To open the Advanced mode, the operator must enter the password **1492**.

- 4. Turn off the system power.
- Disconnect all cables and tubes from Junction Box Assembly (AA on Component Identification page in your PSM Instruction Manual, see Related Manuals, page 2).
- Open the top cover of the Junction Box Assembly (AA on Component Identification page in your PSM Instruction Manual, see **Related Manuals**, page 2) and loosen the two fix screws in the cylinder housing (112). Next, take off the Junction Box Assembly (AA).

Piston/Cylinder Replacement

Disassemble Metering Module

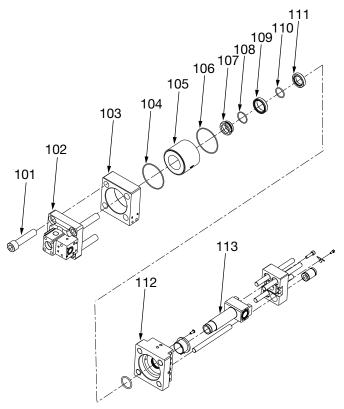
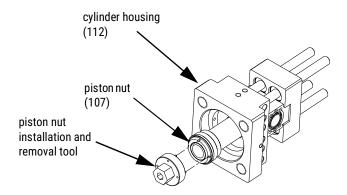


Fig. 2 Disassemble Cylinder of 50 cc and 100 cc

- Remove the four screws (101).
- 2. Remove the support block (102) and the sleeves (103).
- 3. Remove the cylinder (105) and 0-rings (104 and 106) from the cylinder housing (112).
- 4. Using piston nut installation and removal tool (2013509), remove the piston nut (107) and the O-ring (108, only for PSM25) from the rod (113).



- 5. Remove the piston (109) from the rod (113).
- 6. Remove the O-ring (110).
- 7. Remove the washer (111) from the rod (113).
- 8. Clean all parts that have been removed.

Install Metering Module

- 1. Install the washer (111) to the rod (113) with TSL oil.
- 2. Install the new O-ring (110) with TSL oil.
- 3. Install the new piston (109) in the correct direction.
- 4. Install the new 0-ring (108, only for PSM25cc) to the piston nut (107) with TSL oil.
- 5. Install the piston nut (107) and tighten the piston nut with correct torque.
- 6. Install the lubricated new 0-ring (106) into the grooves of cylinder housing (112) with TSL oil.
- Carefully slide the end of the cylinder (105) into the cylinder housing (112) in the correct direction. Ensure the cylinder doesn't damage the sides of the piston as the cylinder is inserted.
- 8. Insert the lubricated new O-ring (104) into the grooves of the cylinder (105).
- Secure cylinder in place with the sleeves (103), support block (102) screws (101). Diagonally tighten the screws (101) by slowly and progressively increasing torque until the screws are securely housed.
- 10. Install other parts.

NOTE: Not all parts need to be replaced with new ones. The operator may replace the parts per actual situation.

Warm Melt Module Replacement (Only for PSM Warm Melt)

Disassemble Warm Melt Module

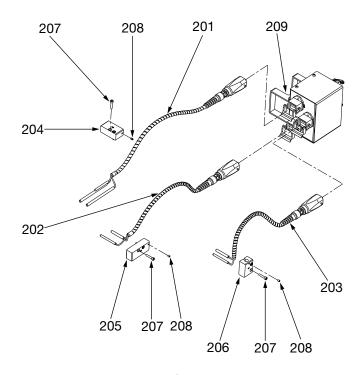


Fig. 3 Disassemble Cylinder of 50 cc and 100 cc

- 1. Unlock and pull the cables (201, 202, and 203) out of the connector (209).
- Remove the screws (207 and 208) from the covers (204, 205, and 206).
- Remove the covers (204, 205, and 206) from the cables (201, 202, and 203).

Disassemble Warm Melt Module

- Install the covers (204, 205, and 206) to the cables (201, 202, and 203) with screws (207 and 208).
- 2. Insert the cables (201, 202, and 203) into the connector (209) and lock the cables.

Prepare for Operation

- Pressurize Supply Pump System (E on Typical Installation page in your PSM Instruction Manual) connected to the PSM Reload Valve (AD on Component Identification page in your PSM Instruction Manual). See Related Manuals, page 2.
- Perform the Prime the System as outlined in your PSM Instruction Manual. See Related Manuals, page 2.
- 3. Perform the **Weight Check** as outlined in your PSM Instruction Manual. See **Related Manuals**, page 2.
- 4. Dispense several full stroke shots until the PSM Metering Unit (H on Typical Installation page in your PSM Instruction Manual, see **Related Manuals**, page 2) is free of air and there is no leakage at the dispense outlet after shutoff. See your PSM Instruction Manual.

Recycling and Disposal

End of Product Life

At the end of the product's useful life, dismantle and recycle it in a responsible manner.

- Follow the Pressure Relief Procedure in your PSM Instruction Manual. See Related Manuals, page 2.
- Drain and dispose of fluids according to applicable regulations. Refer to the material manufacturer's Safety Data Sheet.
- Remove motors, circuit boards, LCDs (liquid crystal displays), and other electronic components. Recycle according to applicable regulations.
- Do not dispose of electronic components with household or commercial waste.
- Deliver remaining product to a recycling facility.

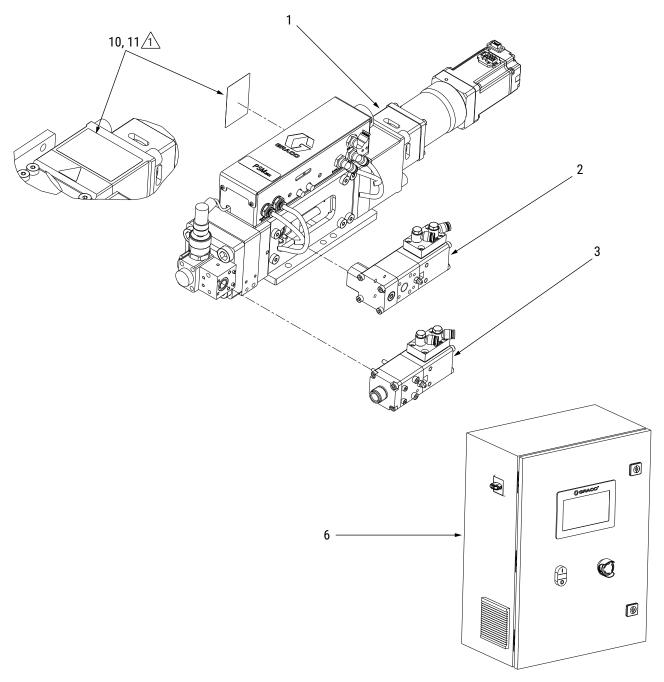
Parts

Overview

Parts Description	Page
System	12
Base	16
Metering Module	18
Power Transmission Module	20
Junction Box	22
Inlet Valve Module	24
1K Inlet Valve Module	26
Outlet Valve Module	28
1K Outlet Valve Module	30
Warm Melt Module (Only for PSM Warm Melt)	32
Control Unit	34

System

System, PSM Ambient, 2009034, 2009035, 2008986, 2008987, 2008990, and 2008992



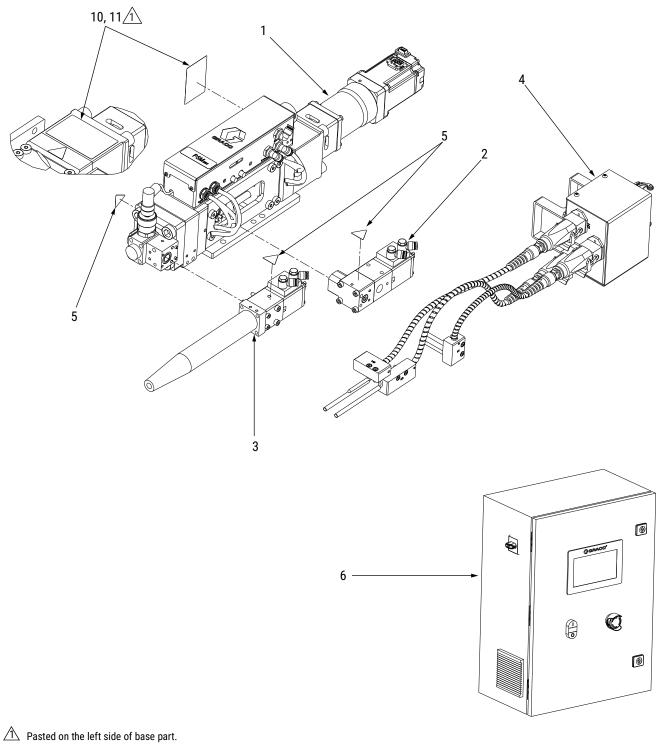
 \triangle Pasted on the left side of base part.

PSM Ambient System Parts List

			Qty.							
			25	5cc	50)cc	100cc	200cc		
Ref.	Part	Description	2009034	2009035	2008986	2008987	2008990	2008992		
1		BASE, PSM25, SST; See Base , page 16	1							
		BASE, PSM25, CER; See Base , page 16		1						
		BASE, PSM50, SST; See Base , page 16			1					
		BASE, PSM50, CER; See Base , page 16				1				
		BASE, PSM100, SST; See Base , page 16					1			
		BASE, PSM200, SST; See Base , page 16						1		
2		VALVE, kit, 1K, inlet; See Inlet Valve, PSM Ambient, page 24	1	1	1	1	1	1		
3		VALVE, kit,1K, outlet, HW; See Outlet Valve, PSM Ambient , page 28		1		1				
		VALVE, kit, 1K, outlet, SST; See Outlet Valve, PSM Ambient , page 28	1		1		1	1		
6	2002837	CONTROL, PSM, PCB; See Control Unit, page 34	1	1	1	1	1	1		
7*	2000277	CABLE, servo motor-A, 10m	1	1	1	1	1	1		
8*	2000274	CABLE, servo encoder-A, 10m	1	1	1	1	1	1		
9*	2000270	CABLE, junction box,10m	1	1	1	1	1	1		
10		BLANK, label, kit	1	1	1	1	1	1		
11		IDENTIFICATION, PSM product	1	1	1	1	1	1		
12*		WIRE, grounding assembly	1	1	1	1	1	1		
13*		SCREW, ground	1	1	1	1	1	1		
14*	2013509	TOOL, four claw spanner, PSM	1	1	1	1	1	1		

^{*} These parts are not shown on the sketch.

System, PSM Warm Melt, 2009036, 2008988, 2008991, and 2008993



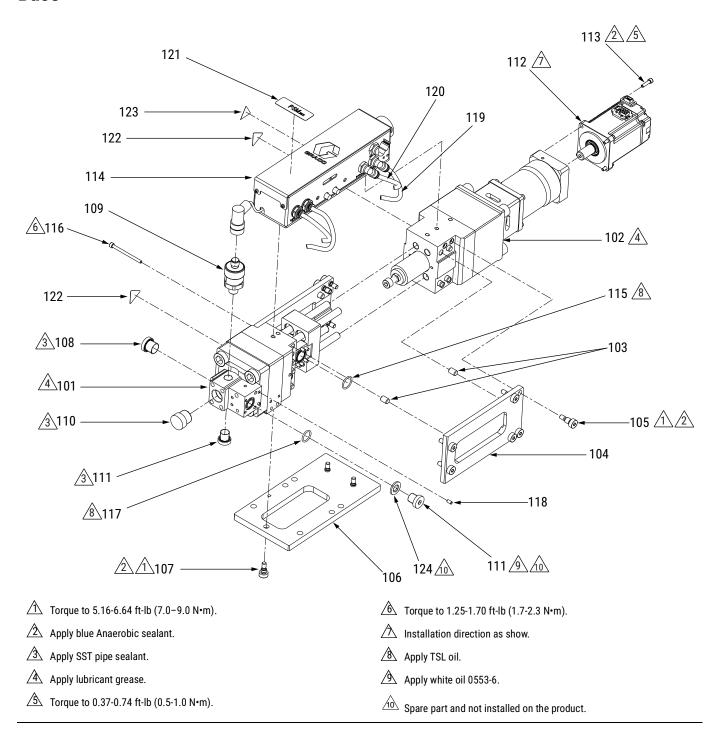
PSM Warm Melt System Parts List

				Qty.					
	_		25cc	50cc	100cc	200cc			
Ref.	Part	Description		2008988	2008991	2008993			
1		BASE, PSM25, SST; See Base , page 16	1						
		BASE, PSM25, CER; See Base , page 16							
		BASE, PSM50, SST; See Base , page 16		1					
		BASE, PSM50, CER; See Base , page 16							
		BASE, PSM100, SST; See Base , page 16			1				
		BASE, PSM200, SST; See Base , page 16				1			
2		VALVE, kit, iQ, inlet; See Inlet Valve, PSM Warm Melt , page 25	1	1	1	1			
3		VALVE, kit, iQ, outlet; See Outlet Valve, PSM Warm Melt , page 29	1	1	1	1			
4	2009219	MODULE, PSM25, 50, 100, warm melt; See Warm Melt Module (Only for PSM Warm Melt), page 32	1	1	1				
	2009220	MODULE, PSM200, warm melt; See Warm Melt Module (Only for PSM Warm Melt), page 32				1			
5▲	290228	LABEL, safety, warning, burn	1	1	1	1			
6	2002837	CONTROL, PSM, PCB; See Control Unit, page 34	1	1	1	1			
7*	2000277	CABLE, servo motor-A, 10m	1	1	1	1			
8*	2000274	CABLE, servo encoder-A, 10m	1	1	1	1			
9*	2000270	CABLE, junction box,10m	1	1	1	1			
10		BLANK, label, kit	1	1	1	1			
11		IDENTIFICATION, PSM product	1	1	1	1			
12*		WIRE, grounding assembly	1	1	1	1			
13*		SCREW, ground	1	1	1	1			
14*	2013509	TOOL, four claw spanner, PSM	1	1	1	1			

^{*} These parts are not shown on the sketch.

[▲] Replacement safety labels, tags, and cards are available at no cost.

Base



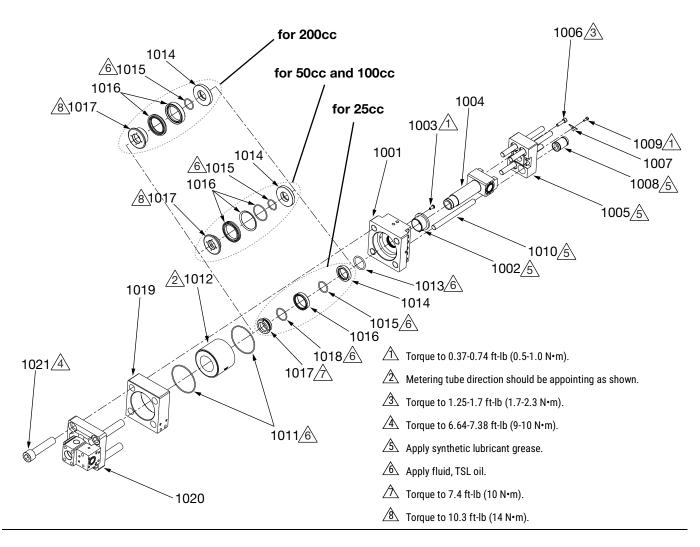
Base Parts List

				Qty.						
			25	СС		cc		200cc		
Ref.	Part	Description	2009034 2009036	200	2008986 2008988	200	2008990 2008991	2008992 2008993		
			2009034 2009036	2009035	8988 8988	2008987	8990 8991	8992 8993		
101		MODULE, metering, SST, PSM25; See page 18	1							
		MODULE, metering, CER, PSM25; See page 18		1						
		MODULE, metering, SST, PSM50; See page 18			1					
		MODULE, metering, CER, PSM50; See page 18				1				
		MODULE, metering, SST, PSM100; See page 18					1			
		MODULE, metering, SST, PSM200; See page 18						1		
102		MODULE, power transmission, PSM25; See page 20	1	1						
		MODULE, power transmission, PSM50; See page 20			1	1				
		MODULE, power transmission, PSM100 See page 20					1			
		MODULE, power transmission, PSM200 See page 20						1		
103	18D920	PIN, dowel, DIA 8-12	16	16	16	16	16	16		
104	18D648	PLATE, side, base, pump, PSM25,50	2	2	2	2				
	18D649	PLATE, side, base, pump, PSM100					2			
	2008980	PLATE, side, base, pump, PSM200						2		
105	18B949	SCREW, shoulder, DIA 8, M6	12	12	12	12	12	12		
106	2010110	PLATE, bottom, base, PSM25,50	1	1	1	1				
	2010111	PLATE, bottom, base, PSM100					1			
	2008981	PLATE, bottom, base, PSM200						1		
107	18B951	SCREW, DIA 8, M6	3	3	3	3	3	3		
108	18D732	PLUG, blind flange, G 3/8	1	1	1	1	1	1		
109	18C018	TRANSMITTER, pressure	1	1	1	1	1	1		
110	18D886	PLUG, UN 13/16-16	1	1	1	1	1	1		
111	18D615	PLUG, blind flange, G 1/4	2	2	2	2	2	2		
112	18D881	MOTOR, servo, 220V, 400W, INO	1	1	1	1	1	1		
113		SCREW, M4 × 0.7-16, socket head, SST	4	4	4	4	4	4		
114	2011564	JUNCTION BOX, PSM25,50; See page 22	1	1	1	1				
	2011565	JUNCTION BOX, PSM100; See page 22					1			
	2011566	JUNCTION BOX, PSM200; See page 22						1		
115	18D626 ⁽¹⁾	O-RING	1	1	1	1	1	1		
116		SCREW, M4 × 0.7-55, socket head	6	6	6	6	6	6		
117	18D698 ⁽¹⁾	O-RING	1	1	1	1	1	1		
118	18D684	PIN, dowel, DIA 4-8	2	2	2	2	2	2		
119		TUBE, 6mm OD × 4mm ID, PU, Black	0.6 ft	0.6 ft	0.6 ft	0.6 ft	0.6 ft	0.6 ft		
120		TUBE, 6mm OD × 4mm ID, PU, Blue	0.6 ft	0.6 ft	0.6 ft	0.6 ft	0.6 ft	0.6 ft		
121		IDENTIFICATION, PSM25	1	1						
		IDENTIFICATION, PSM50			1	1				
		IDENTIFICATION, PSM100					1			
		IDENTIFICATION, PSM200						1		
122▲	15H108	LABEL, safety, warning, pinch	2	2	2	2	2	2		
123▲	189930	LABEL, caution	1	1	1	1	1	1		
124	2013470	PLATE, seal	1	1	1	1	1	1		

[▲] Replacement of safety labels, tags, and cards are available at no cost.

⁽¹⁾ This part is not sold separately. Order sealing kit 2009677 when ordering this part.

Metering Module



Metering Module Parts List

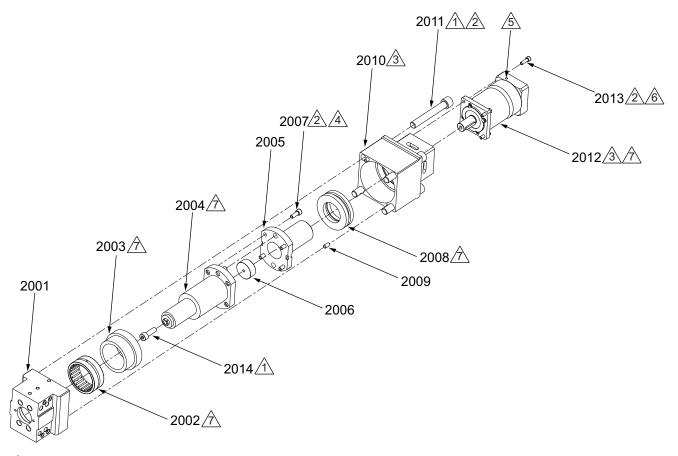
			Qty.							
			25cc		50cc		100cc	200сс		
Ref.	Part	Description	2009034 2009036	2009035	2008986 2008988	2008987	2008990 2008991	2008992 2008993		
1001	18D720	BLOCK, tube	1	1	1	1	1	1		
1002	18D718	SLEEVE, guide, PSM	1	1	1	1	1	1		
1003		SCREW, M4 × 0.7-10, button head, SST	2	2	2	2	2	2		
1004	18D962	ROD, piston, PSM25, warm melt	1	1						
	18D963	ROD, piston, PSM50, warm melt			1	1				
	18D964	ROD, piston, PSM100, warm melt					1			
	2008969	ROD, piston, PSM200						1		
1005	18D966	BLOCK, push, heated	1	1	1	1	1	1		
1006		SCREW, M5 × 0.8-20, socket head	4	4	4	4	4	4		

		Description		Qty.						
5 (Part			icc		cc		200сс		
Ref.			2009034 2009036	2009035	2008986 2008988	2008987	2008990 2008991	2008992 2008993		
1007	18D712	PLATE, bearing limit	2	2	2	2	2	2		
1008	18B942	BEARING	4	4	4	4	4	4		
1009		SCREW, M3 × 0.5-8, socket	2	2	2	2	2	2		
1010	18D709	ROD, guide, PSM25,50	4	4	4	4				
	18D710	ROD, guide, PSM100					4			
	2008970	ROD, guide, PSM200						4		
1011	18D690 ⁽¹⁾ ◆✓✿❖	O-RING	2	2	2	2	2	2		
1012	2009061	CYLINDER, 25, SST, PSM	1							
	2009062	CYLINDER, 25, CER, PSM		1						
	18D703	CYLINDER, 50, SST, PSM			1					
	18D606	CYLINDER, 50, CRE, PSM				1				
	18D704	CYLINDER, 100, SST, PSM					1			
	2008971	CYLINDER, 200, SST, PSM						1		
1013	18D955 ⁽¹⁾	0-RING, 25 × 2.65	1	1	1	1	1	1		
1014	†	PLATE, support back, PSM25	1	1						
	‡ ¼	PLATE, support back, PSM50,100,200			1	1	1	1		
1015	18D751 ⁽¹⁾ ◆✓✿❖	O-RING	1	1	1	1	1	1		
1016	♦	PISTON, 960, PSM25, UHMW PE	1							
	✓	PISTON, 960, PSM25, UPE M22		1						
	A	PISTON, 1800, PSM50,100			1	1	1			
	�	PISTON, PSM200						1		
1017	t	PLATE, support front, PSM25	1	1						
	‡	PLATE, support front, PSM50,100			1	1	1			
	X	NUT, support front, PSM200						1		
1018	18D765 ⁽¹⁾ ◆✓	O-RING	1	1						
1019	18D968	SLEEVE, tube, PSM25,50, warm melt	1	1	1	1				
	18D969	SLEEVE, tube, PSM100, warm melt					1			
	2008974	SLEEVE, tube, PSM200						1		
1020	18D686	BLOCK, support	1	1	1	1	1	1		
1021		SCREW, M14 × 2.0-65, socket head	4	4	4	4				
		SCREW, M14 × 2.0-95, socket head					4			
		SCREW, M14 × 2.0-155, socket head						4		

- ◆ Parts included in 25cc SST piston kit 2009678.
- ✓ Parts included in 25cc CER piston kit 2009679.
- ✿ Parts included in 50cc and 100cc piston kit 2009680.
- Parts included in 200cc piston kit 2009681.
- † Parts included in 25cc nut and back plate kit 2012437.
- ‡ Parts included in 50cc and 100cc nut and back plate kit 2012438.
- ₽ Parts included in 200cc nut and back plate kit 2012439.

(1) This part is not sold separately. Order sealing kit 2009677 when ordering this part.

Power Transmission Module



Torque to 5.90-6.64 ft-lb (8.0-9.0 N•m).

🖄 Apply blue Anaerobic sealant.

 \triangle Installation direction as show.

Torque to 2.21-2.95 ft-lb (3.0-4.0 N•m).

 \triangle When installing, ensure the two threaded holes are on the left and right side of PSM metering unit.

Torque to 1.25-1.7 ft-lb (1.7-2.3 N•m).

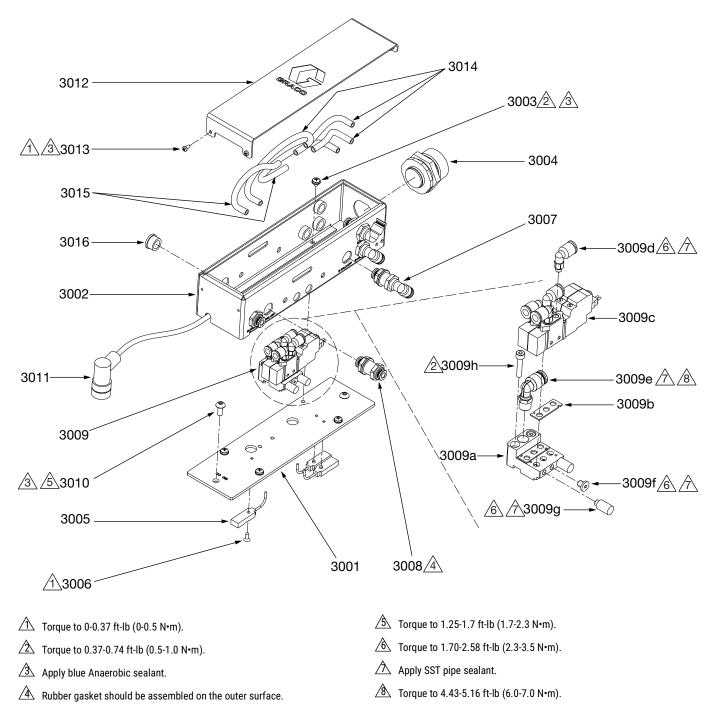
Apply synthetic lubricant grease.

Power Transmission Module Parts List

				Q	ty.	
			25cc	50cc	100cc	200сс
Ref.	Part	Description	2009034 2009035 2009036	2008986 2008987 2008988	2008990 2008991	2008992 2008993
2001	18D674	BLOCK, sleeve	1	1	1	1
2002	18D895	BEARING, needle bearing	1	1	1	1
2003	18D672	BEARING, composite	1	1	1	1
2004	2002387	KIT, ball screw, nut, PSM25,50	1	1		
	2002388	KIT, ball screw, nut, PSM100			1	
	2008976	KIT, ball screw, nut, PSM200				1
2005		ADAPTER, axle sleeve, PSM25,50	1	1		
		ADAPTER, axle sleeve, PSM100			1	
		ADAPTER, axle sleeve, PSM200				1
2006		GASKET, axle sleeve, PSM25,50,100	1	1	1	
		GASKET, axle sleeve, PSM200				1
2007		SCREW, M6 × 1.0-16, socket head	4	4	4	4
2008	18D660	BEARING, single thrust	1	1	1	1
2009		PIN, dowel, DIA 6-12	2	2	2	2
2010	18D655	SEAT, reduction box, PSM25,50	1	1		
	18D656	SEAT, reduction box, PSM100			1	
	2008979	SEAT, reduction box, PSM200				1
2011		SCREW, M12 × 1.75-85, socket head	4	4	4	4
2012	2012441	BOX, reduction, ratio 40	1			
	18D723	BOX, reduction, ratio 60		1	1	1
2013		SCREW, M5 × 0.8-16, socket head, SST	4	4	4	4
2014		SCREW, M8 × 1.25-25, socket head	1	1	1	1

Junction Box

Junction Box, 2011564, 2011565, and 2011566



Junction Box Parts List

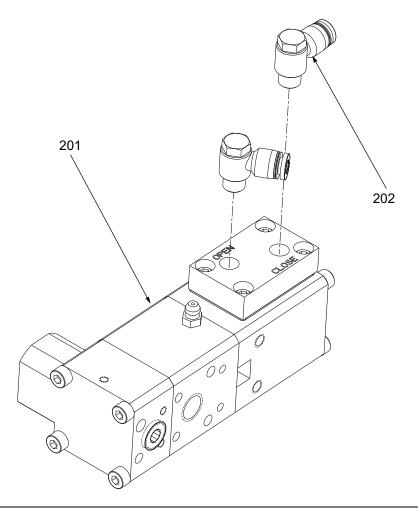
				Qt	ty.	
			25cc	50cc	100cc	200cc
Ref.	Part	Description	2009034 2009035 2009036	2008986 2008987 2008988	2008990 2008991	2008992 2008993
3001		PLATE, junction box, PSM25,50	1	1	_	
		PLATE, junction box, PSM100			1	
		PLATE, junction box, PSM200				1
3002		FRAME, control	1	1	1	1
3003		SCREW, M4 x 0.7-5, Phillips, with washer	4	4	4	4
3004		ADAPTER, WF20, M26	1	1	1	1
3005	18D624	SENSOR, position	3	3	3	3
3006		SCREW, M3 x 0.5-8, flat head, SST	3	3	3	3
3007	18D617	FITTING, DIA 6, M14, PLM6	3	3	3	3
3008	18B922	FITTING, DIA 6, M14 x 1	2	2	2	2
3009	25S118	MODULE, solenoid valve, PSM	1	1	1	1
3009a		BLOCK, support, PSM	1	1	1	1
3009b米		GASKET, rubber, PSM	2	2	2	2
3009c米		KIT, solenoid valve, PSM	2	2	2	2
3009d米		FITTING, DIA 6, M5 x 0.8	4	4	4	4
3009e		FITTING, DIA 6, PT1/8	1	1	1	1
3009f		PLUG, blind flange, M5	1	1	1	1
3009g		MUFFLER, M5	2	2	2	2
3009h		SCREW, M4 x 0.7-20, socket	2	2	2	2
3010		SCREW, M6 x 1.0-10, socket head	2	2	2	2
3011		FITTING, transmitter, PSM25,50,100	1	1	1	
		FITTING, transmitter, PSM200				1
3012		COVER, control, PSM	1	1	1	1
3013		SCREW, M3 x 0.5-6, pan head, SST	4	4	4	4
3014		TUBE, 6 mm OD x 4 mm ID, PU, black	2 ft	2 ft	2 ft	2 ft
3015		TUBE, 6 mm OD x 4 mm ID, PU, blue	1.5 ft	1.5 ft	1.5 ft	1.5 ft
3016		CAP, hole, M14	5	5	5	5
3017*		IDENTIFICATION, driver, tru-shot	1	1	1	1
3018*		LABEL, blank	1	1	1	1

^{*} Parts included in fitting solenoid valve kit 2006571.

^{*} These parts are not shown on the sketch.

Inlet Valve Module

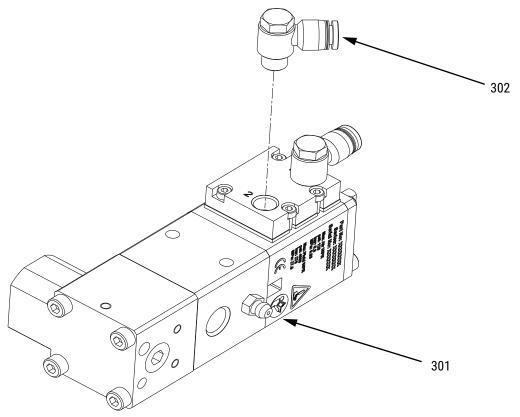
Inlet Valve, PSM Ambient



PSM Ambient Inlet Valve Module Parts List

				Qty.				
			25cc	50cc	100cc	200cc		
Ref.	Part	Description	2009034 2009035	2008986 2008987	2008990	2008992		
201	2009194	VALVE, 1K, ball seat; See 1K Inlet Valve Module , page 26	1	1	1	1		
202	18C103	FITTING, DIA 6, PT1/8, PV	2	2	2	2		

Inlet Valve, PSM Warm Melt



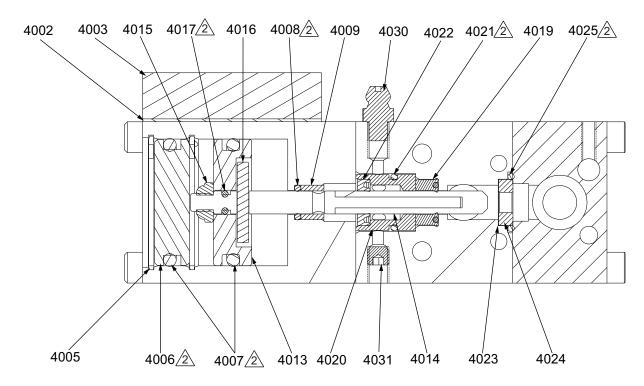
Valve shown for assembling reference.

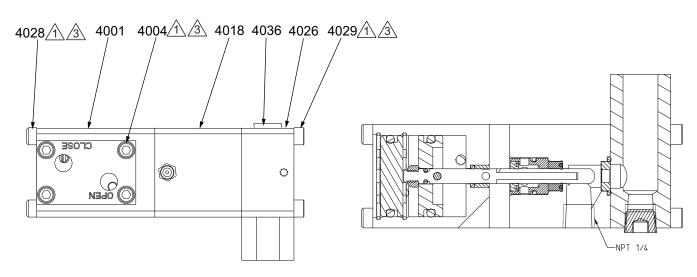
PSM Warm Melt Inlet Valve Module Parts List

			Qty.				
		25cc	50cc	100cc	200сс		
Ref.	Part	Description	2009036	2008988	2008991	2008993	
301	2011771	VALVE, PSM, 90DEG outlet	1	1	1	1	
302	18C103	FITTING, DIA 6, PT1/8, PV	2	2	2	2	

1K Inlet Valve Module

Valve, 1K, Inlet, Ball Seat, 2009194





Apply blue Anaerobic sealant.

Assemble all o-ring and seals with a hight coat of lubricant grease. Torque to 1.25-1.7 ft-lb (1.7-2.3 N·m).

Torque to 1.25-1.7 ft-lb (1.7-2.3 N·m).

1K Inlet Valve Module Parts List

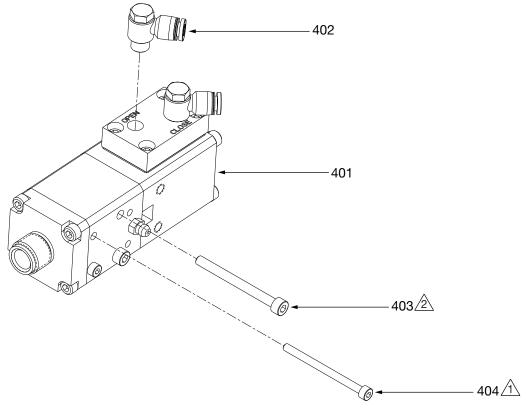
				Qt	t y .	
			25cc	50cc	100cc	200cc
Ref.	Part	Description HOUSING air culinder	2009034 2009035	2008986 2008987	2008990	2008992
4001	2009379	HOUSING, air cylinder	1	1	1	1
4002	626057 ◆	GASKET, air manifold	1	1	1	1
4003	626069	PLATE, air control 2K2	1	1	1	1
4004	104371	SCREW, cap screw 10-32 x 0.375	4	4	4	4
4005	552163	RING, retaining	2	2	2	2
4006	196018	CAP, air cylinder SD	1	1	1	1
4007	154662 ◆	PACKING, O-ring	2	2	2	2
4008	156454 ◆	PACKING, O-ring	1	1	1	1
4009	551181 ◆	BEARING, sleeve 1/4, 3/8, 1/4 NYL	1	1	1	1
4013	626703	PISTON, air	1	1	1	1
4014	2009384 ◆	SHAFT, piston, high flow	1	1	1	1
4015	102920	NUT, lock	1	1	1	1
4016	16D760 ◆	PIN, trigger	1	1	1	1
4017	157628 ◆	PACKING, O-ring	1	1	1	1
4018	2009380	HOUSING, material	1	1	1	1
4019	551190 √◆	SEAL, U-cup polymt 1/4, 1/2, 1/4	1	1	1	1
4020	2010702 ◆	BEARING, seal, TC	1	1	1	1
4021	103610 ✓◆	PACKING, O-ring	1	1	1	1
4022	551191 √◆	PACKING, seal U-cup URT 1/4, 1/2, 1/8 UR	1	1	1	1
4023	171860 ✓◆	GASKET, seat	1	1	1	1
4024	185467 ◆	SEAT, valve	1	1	1	1
4025	104319 ✓◆	PACKING, O-ring	1	1	1	1
4026	2009001	SEAT, 1K valve, PSM	1	1	1	1
4028	2009383	SCREW, M5 x 0.8-70, socket head	4	4	4	4
4029	18D935	SCREW, M5 x 0.8-45, socket	4	4	4	4
4030	120892	FITTING, grease	1	1	1	1
4031	18B944	SCREW, set, M6 x 1.0-5, flat	1	1	1	1
4036	18F960	PLUG, 1/4 NPT	1	1	1	1

 $[\]checkmark$ Parts included in 1K valve sealing kit 2009688.

◆ Parts included in ball seat 1K valve rebuild kit 2009689.

Outlet Valve Module

Outlet Valve, PSM Ambient



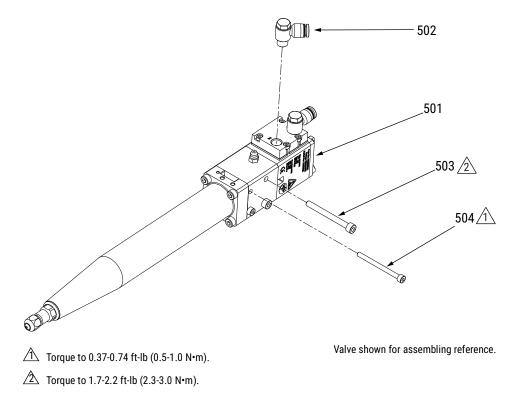
↑ Torque to 0.37-0.74 ft-lb (0.5-1.0 N•m).

Torque to 1.7-2.2 ft-lb (2.3-3.0 N·m).

PSM Ambient Outlet Valve Module Parts List

			Qty.							
Ref. Part			25	25cc		50cc		200cc		
	Description	2009034	2009035	2008986	2008987	2008990	2008992			
401	2009195	VALVE, 1K, snaff back, HW; See 1K Outlet Valve Module , page 30		1		1				
	2011633	VALVE, 1K, snaff back, SST; See 1K Outlet Valve Module , page 30	1		1		1	1		
402	18C103	FITTING, DIA 6, PT1/8, PV	2	2	2	2	2	2		
403		SCREW, M5 × 0.8-55, socket head	2	2	2	2	2	2		
404		SCREW, M4 × 0.7-55, socket head	2	2	2	2	2	2		

Outlet Valve, PSM Warm Melt

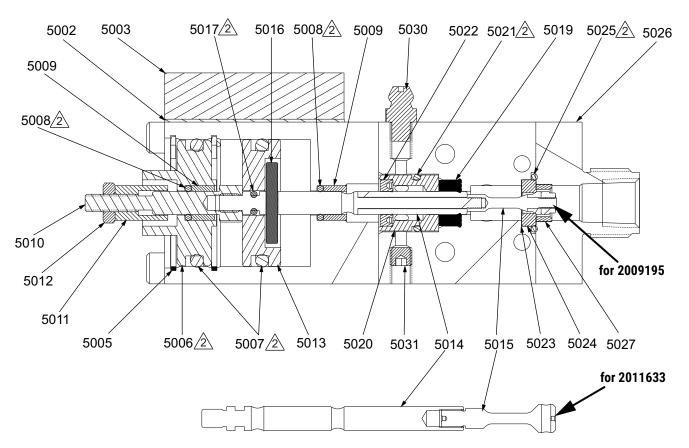


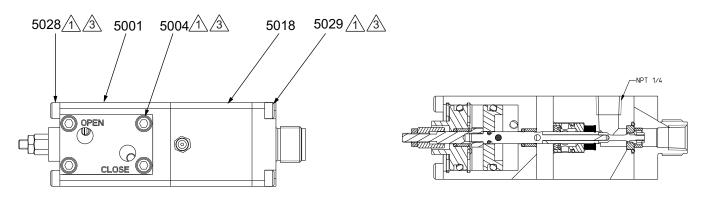
PSM Warm Melt Outlet Valve Module Parts List

			Qty.						
			25cc	50cc	100cc	200cc			
Ref.	Part	Description	•	2008993					
501	2012490	VALVE,T, NPT, 200, RM, AMB, PSM	1	1	1	1			
502	18C103	FITTING, DIA 6, PT1/8, PV	2	2	2	2			
503		SCREW, M5 × 0.8-50, socket head	2	2	2	2			
504		SCREW, M4 × 0.7-50, socket head	2	2	2	2			

1K Outlet Valve Module

Valve, 1K, Outlet, Snaff Back, 2009195 and 2011633





Apply blue Anaerobic sealant.

Assemble all o-ring and seals with a hight coat of lubricant grease. Torque to 1.25-1.7 ft-lb (1.7-2.3 N·m).

Torque to 1.25-1.7 ft-lb (1.7-2.3 N•m).

1K Outlet Valve Module Parts List

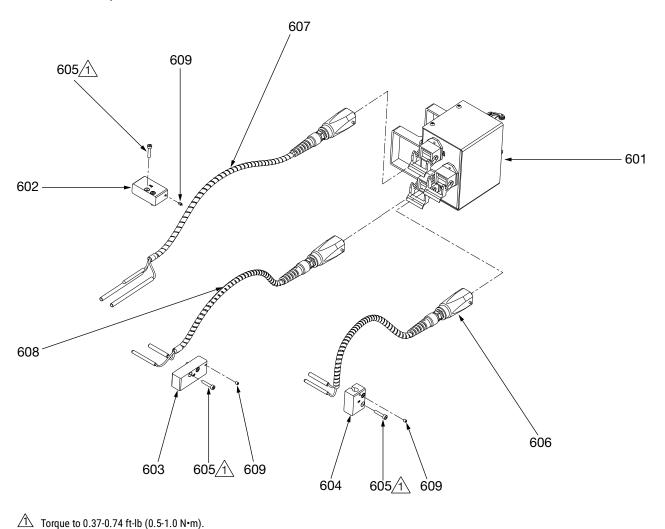
					Qt	ty.		
			25	CC	50	cc	100cc	200cc
Ref.	Part	Description	2009034	2009035	2008986	2008987	2008990	2008992
5001	2009379	HOUSING, air cylinder	1	1	1	1	1	1
5002	626057 ◆+	GASKET, air manifold	1	1	1	1	1	1
5003	626069	PLATE, air control 2K2	1	1	1	1	1	1
5004	104371	SCREW, cap screw 10-32 x 0.375	4	4	4	4	4	4
5005	552163	RING, retaining	2	2	2	2	2	2
5006	626704	CAP, air cylinder	1	1	1	1	1	1
5007	154662 ◆+	PACKING, 0-ring	2	2	2	2	2	2
5008	156454 ◆+	PACKING, 0-ring	2	2	2	2	2	2
5009	551181 ◆+	BEARING, sleeve 1/4, 3/8, 1/4 NYL	2	2	2	2	2	2
5010	626708	SHAFT, adjustment	1	1	1	1	1	1
5011	626709	NUT, adjustment	1	1	1	1	1	1
5012	100166	NUT, full, hex	1	1	1	1	1	1
5013	626703	PISTON, air	1	1	1	1	1	1
5014	18F856 ◆	SHAFT, piston, high flow		1		1		
	15K421 +	SHAFT, primary	1		1		1	1
5015	26D829 ◆	NUT, lock		1		1		
	626062 +	NEEDLE, 2K2 SST hardened	1		1		1	1
5016	16D760 ◆ +	PIN, trigger	1	1	1	1	1	1
5017	157628 ◆+	PACKING, O-ring	1	1	1	1	1	1
5018	2009380	HOUSING, material	1	1	1	1	1	1
5019	551190 ✓◆+	SEAL, U-cup polymt 1/4, 1/2, 1/4	1	1	1	1	1	1
5020	2010702 ◆+	BEARING, seal, TC	1	1	1	1	1	1
5021	103610 ✓◆+	PACKING, 0-ring	1	1	1	1	1	1
5022	551191 √◆+	PACKING, seal U-cup URT 1/4, 1/2, 1/8 UR	1	1	1	1	1	1
5023	171860 ✓◆+	GASKET, seat	1	1	1	1	1	1
5024	185467 ◆+	SEAT, valve	1	1	1	1	1	1
5025	104319 ✓◆+	PACKING, 0-ring	1	1	1	1	1	1
5026	2009381	FLANGE, nose piece	1	1	1	1	1	1
5027	626060 ◆+	INSERT, suff-back, 2K2	1	1	1	1	1	1
5028	2009383	SCREW, M5 x 0.8-70, socket head	4	4	4	4	4	4
5029	2009382	SCREW, M5 x 0.8-16, socket head	4	4	4	4	4	4
5030	120892	FITTING, grease	1	1	1	1	1	1
5031	18B944	SCREW, set, M6 x 1.0-5, flat	1	1	1	1	1	1

 $[\]checkmark$ Parts included in 1K valve sealing kit 2009688.

- ◆ Parts included in snaff back 1K valve rebuild kit 2009690.
- + Parts included in snaff back 1K valve rebuild kit 2012253.

Warm Melt Module (Only for PSM Warm Melt)

Warm Melt Module, 2009219 and 2009220*



* Part 2009219 is for PSM Warm Melt 25cc, 50cc, and 100cc. Part 2009220 is for PSM Warm Melt 200cc.

Warm Melt Module Parts List

				Qty.					
				50cc	100cc	200сс			
Ref. Part		Description		2008988	2008991	2008993			
601		MODULE, connector, warm melt	1	1	1	1			
602		COVER, heater, H2	1	1	1	1			
603		COVER, heater, H3	1	1	1	1			
604		COVER, heater, H1	1	1	1	1			
605		SCREW, M4 × 0.7-20, socket	6	6	6	6			
606*	2009236	CABLE, PSM, warm melt, 400mm, 1 heated and 1 sensor	1	1	1	1			
	2009237	CABLE, PSM, warm melt, 500mm, 1 heated and 1 sensor				1			
607*	2009240	CABLE, PSM, warm melt, 550mm, 2 heated and 1 sensor	1	1	1				
	2009241	CABLE, PSM, warm melt, 700mm, 2 heated and 1 sensor				1			
608*	2009238	CABLE, PSM, warm melt, 550mm, 1 heated and 1 sensor	1	1	1				
	2009243	CABLE, PSM, warm melt, 650mm, 2 heated and 1 sensor, short				1			
609		SCREW, set, M4 × 0.7-5	8	8	8	8			

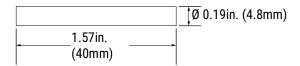
^{*} Include temperature sensors and heating rods.

Temperature Sensor

The temperature sensor is specified with the following parameters:

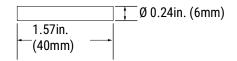
Voltage: 220VPower: 150WDimensions:

Length: 1.57in. (40mm)Diameter: 0.19in. (4.8mm)

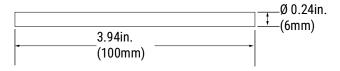


Heating rod

2009236, 2009237, 2009238, and 2009243

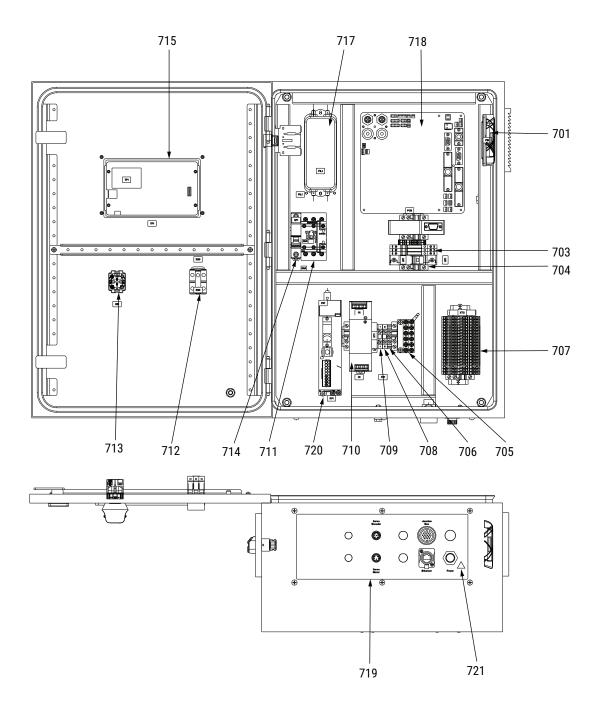


2009240 and 2009241



Control Unit

2002837



Control Unit Parts List

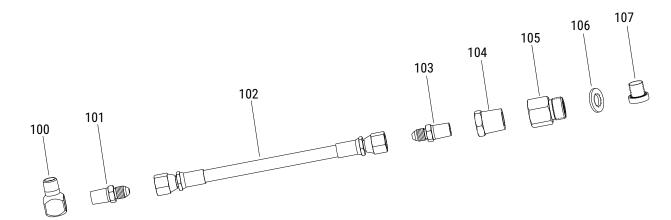
Ref.	Part	Description	Qty.
701		FAN, assembly	1
703		RELAY, module with base	3
704	CU0018	HOLDER, fuse, ABB	1
	CU0341	FUSE	1
705		GROUNDING BAR	1
706		TERMINAL, ground, green-yellow	1
707		TERMINAL, block, gray	20
708		TERMINAL, blue	1
709		TERMINAL, gray	1
710	2009725	POWER SUPPLY, 150W, 24VDC, MW	1
711	CU0017	CONTACT, 3P, 1NO+1NC, SIEMENS	1
712	2000176	STARTER, operator	1
713	2000178	STOP, emergency	1
714	CU0022	CIRCUIT BRKR, 1P, 6A, SCHNEIDER	1
715	CU7788	DISPLAY, PCB	1
717		KIT, filter	1
718	2000267	BOARD, PCB, assembly	1
719		PANEL, socket, external cables	1
720	2000343	DRIVER, servo	1
721▲	189930	Label, caution	1
722*	2000316	BRAND, PSM	1
723*		Blank, label kit	1
724*		IDENTIFICATION, PSM product	1
725*	15G280	LABEL, warning, safety, multiple	1

^{*} Not Shown.

▲ Replacement safety labels, tags, and cards are available at no cost.

Kits and Accessories

Remote Kits



Kits	Description	100	101	102	103	104	105	106	107
Kits	Description	Adapter	Fitting	Hose	Fitting	Bushing	Bushing	Seal	Plug
2000842	KIT, hose, ASSY, JIC fitting, PSM, 3/32 x 60	166866	124961	16W047	124961	102022			
2000843	KIT, hose, ASSY, JIC fitting, PSM, 1/8 x 60	100000	124701	16V531	124701	102022			
2000844	KIT, hose, ASSY, JIC fitting, PSM, 3/16 x 36	166866	94/1000/	16C502	94/1000				
2000845	KIT, hose, ASSY, JIC fitting, PSM, 3/16 x 48	+100030	98	160503	/98	100329			
2000847	KIT, hose, ASSY, JIC fitting, PSM, 3/16 x 72	100000	, ,	16C504	,,,,			2013470	
2000848	KIT, hose, ASSY, JIC fitting, PSM, 1/4 x 36			16C511	124961 1	102022	18D958		
2000849	KIT, hose, ASSY, JIC fitting, PSM, 1/4 x 48	1	124961	16C512					
2000850	, ,		121701	24G990					
2000851	KIT, hose, ASSY, JIC fitting, PSM, 1/4 x 72			16C513					18D615
2000852	,,,			16C520					
2000853	, ,	166866	116704	16C521	112100	504285			
2000854	KIT, hose, ASSY, JIC fitting, PSM, 3/8 x 60		110701	24F994	112100	00.200			
2000855	KIT, hose, ASSY, JIC fitting, PSM, 3/8 x 72			16C522					
2000856	, ,	1167		16C530					
2000857			116703	16C531	C20700				
2000858	KIT, hose, ASSY, JIC fitting, PSM, 1/2 x 60			24G996	020700				
2000859	KIT, hose, ASSY, JIC fitting, PSM, 1/2 x 72			16C532					

Communication Module Kits

Part	Description	Qty.
2005273	KIT, module, Profinet	1
2000362	KIT, module, Ethernet IP	1

Piston Kits

Part	Description	
2009678	KIT, piston, PSM 25cc, SST	1
2009679	KIT, piston, PSM 25cc, CER	1
2009680	KIT, piston, PSM 50cc and 100cc	1
2009681	KIT, piston, PSM 200cc	1

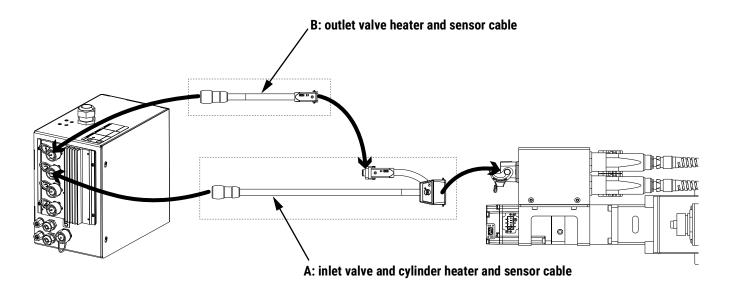
Metering Module Kits

Part	Description	
2012437	KIT, nut, back plate, PSM 25cc	1
2012438	KIT, nut, back plate, PSM 50 and 100cc	
2012439	KIT, nut, back plate, PSM 200cc	1

Sealing Kits

Part	Description	Qty.
2009677	KIT, sealing, PSM	1

Cables for Warm Melt Pump



Part	Description	Qty.
2009698	Cable, PSM, Warm Melt, A, 10m	1
2009699	Cable, PSM, Warm Melt, A, 15m	1
2009700	Cable, PSM, Warm Melt, A, 20m	1
2009701	Cable, PSM, Warm Melt, B, 9m	1
2009702	Cable, PSM, Warm Melt, B, 14m	1
2009703	Cable, PSM, Warm Melt, B, 19m	1

Appendix: Spare Parts

Part	Description	Qty Per Machine
18D881	MOTOR, servo, 220V, 400W	1
18C018	TRANSMITTER, pressure	1
18D718	SLEEVE, guide, PSM	1
2009678	KIT, piston, PSM25, SST	1
2009679	KIT, piston, PSM25, CER	1
2009680	KIT, piston, PSM50, 100	1
2009681	KIT, piston, PSM200	1
2012437	KIT, nut, bake plate, PSM25	1
2012438	KIT, nut, bake plate, PSM50,100	1
2012439	KIT, nut, bake plate, PSM200	1
2009061	CYLINDER, 25, SST, PSM	1
2009062	CYLINDER, 25, CER, PSM	1
18D703	CYLINDER, 50, SST, PSM	1
18D606	CYLINDER, 50, CER, PSM	1
18D704	CYLINDER, 100, SST, PSM	1
2008971	CYLINDER, 200, SST, PSM	1
2009677	KIT, sealing, PSM	1
18D962	ROD, piston, PSM25, WM	1
18D963	ROD, piston, PSM50, WM	1
18D964	ROD, piston, PSM100, WM	1
2008969	ROD, piston, PSM200, WM 1	
18D660	BEARING, PSM	1
2002387	KIT, ball screw, PSM25, 50	1
2002388	KIT, ball screw, PSM100	1
2008976	KIT, ball screw, nut, PSM200	1
2012441	BOX, reduction, PSM25	1
18D723	BOX, reduction, PSM50/100/200	1
2009688	KIT, sealing, 1K valve	1
2009689	KIT, rebuild, 1K valve, ball seat	1
2009690	KIT, rebuild, 1K valve, snaff back, 000, HW	1
2012253	KIT, rebuild, 1K valve, snaff back, 000, SST	1
18D617	FITTING, DIA 6, M14, PLM6	3
18B922	FITTING, DIA 6, M14 × 1	2
25S118	MODULE, solenoid valve, PSM	1
2006571	KIT, solenoid valve, FITT M5 × 0.8, DIA6	1
18D624	SENSOR, position	3
2009236	CABLE, PSM, WM, 400mm, 1 heated and 1 sensor, PSM25, 50, 100 1	
2009240	CABLE, PSM, WM, 550mm, 2 heated and 1 sensor, PSM25, 50, 100 1	
2009238	CABLE, PSM, WM, 550mm, 1 heated and 1 sensor, PSM25, 50, 100	1
2009237	CABLE, PSM, WM, 500mm, 1 heated and 1 sensor, PSM200	1
2009241	CABLE, PSM, WM, 700mm, 2 heated and 1 sensor, PSM200	
2009243	CABLE, PSM, WM, 650mm, 2 heated and 1 sensor, short, PSM200	1
2009725	POWER SUPPLY, 150W, 24VDC, MW	1
2000267	BOARD, PCB, assembly	1
CU7788	DISPLAY, PCB	1

Technical Specifications

PSM System			
	US	Metric	
Maximum Inlet Fluid Pressure	3000 psi	20.7 MPa, 207 bar	
Maximum Working Fluid Pressure	3000 psi 20.7 MPa, 207 bar		
Maximum Air Pressure	100 psi 0.7 MPa, 7 bar		
Electrical Power	200-240 VAC, 50/60 Hz, 10 A		
Viscosity Range	20-1,000,000 cps		
Wetted Parts	304 Stainless Steel, 7075-T651, Ceramic, FKM, FFKM, Hard Chrome, PEEK, PH17-4, Ethylene Propylene, Parker PolyMyte TM , Tungsten Carbide, UHMWPE		
Shot Size Range ⁽¹⁾	25 cc: 0.1-25cc 50 cc: 0.2-50 cc 100 cc: 0.5-100 cc 200 cc: 0.5-200cc		
Shot Size Repeatability	1%		
Maximum Flowrate ⁽²⁾	25 cc: 12 cc/s 50 cc: 15 cc/s 100 cc: 15 cc/s 200 cc: 15 cc/s		
Maximum Working Temperature	158°F	70°C	
Inlet / Outlet Sizes			
Air Inlet Size	1/4 in.	6 mm	
Fluid Inlet Size	1/4 in. npt (f)		
Fluid Outlet	iQ valve: 1.7mm tip size 1K valve: 1/4 in. npt(f)		
Weight			
PSM Metering Unit	25 cc: 40.8 lb 50 cc: 40.8 lb 100 cc: 43.0 lb 200 cc: 48.5 lb	25 cc: 18.5 kg 50 cc: 18.5 kg 100 cc: 19.5 kg 200 cc: 22 kg	
PSM Warm Melt Metering Unit (with warm melt module)	25 cc: 45.2 lb 50 cc: 45.2 lb 100 cc: 49.6 lb 200 cc: 52.9 lb	25 cc: 20.5 kg 50 cc: 20.5 kg 100 cc: 22.5 kg 200 cc: 24 kg	
Warm Melt Module	6.1 lb	2.75 kg	
PSM Control Unit	70.5 lb	32 kg	

Notes

All trademarks or registered trademarks are the property of their respective owners.

 $^{^{(1)}}$ Minimum shot size varies based on the material type and the customer tolerance requirements.

⁽²⁾ Maximum flowrate varies based on the material viscosity.

California Proposition 65

CALIFORNIA RESIDENTS

MARNING: Cancer and reproductive harm – www.P65warnings.ca.gov.

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.

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.

FOR GRACO CANADA CUSTOMERS

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présente document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés, à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées.

Graco Information

Sealant and Adhesive Dispensing Equipment

For the latest information about Graco products, visit www.graco.com.

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

TO PLACE AN ORDER, contact your Graco distributor, go to www.graco.com, or call to identify the nearest distributor.

If calling from the USA: 1-800-746-1334

If calling from Asia Pacific: 00-86-512-6260-5711 or 00-86-21-2310-6198

If calling from Europe: 00-32-89-770-862

All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 3B0405

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS MN 55440-1441 • USA Copyright 2023, Graco Inc. All Graco manufacturing locations are registered to ISO 9001.

www.graco.com Revision C, October 2025