



1:1 Extruder

310726 rev.D

Supply, Metering and Dispense System for 5 Gallon (20 Liter) Pails.

Part No. 965119

1:1 Extruder President[®] Check-Mate[®] 200 System, carbon steel

Part No. 570135

1:1 Extruder President[®] Check-Mate[®] 200 System, stainless steel

2000 psi (14 MPa, 140 bar) Pump Maximum Working Pressu 90 psi (621 kPa, 6.3 bar) Pump Maximum Air Inlet Pressure 150 psi (1 MPa, 10 bar) Ram Maximum Air Inlet Pressure



Important Safety Instructions Read all warnings and instructions in this manual. Save these instructions.

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Warnings

The following warnings include general safety information for this equipment. More specific warnings are in the text where applicable.

	 SKIN INJECTION HAZARD High-pressure fluid from gun, 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 gun at anyone or at any part of the body. Do not put your hand over the spray tip. Do not stop or deflect leaks with your hand, body, glove, or rag. Do not spray without tip guard and trigger guard installed. Engage trigger lock when not spraying. Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
	 FIRE AND EXPLOSION HAZARD Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. 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 arc). 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. Ground equipment and conductive objects in work area. See Grounding instructions. Use only grounded hoses. Hold gun firmly to side of grounded pail when triggering into pail. If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.
	 EQUIPMENT MISUSE HAZARD Misuse can cause death or serious injury. Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals. Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. Check equipment daily. Repair or replace worn or damaged parts immediately. Do not alter or modify equipment. For professional use only. Use equipment only for its intended purpose. Call your Graco distributor for information. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not use hoses to pull equipment. Comply with all applicable safety regulations.
T	 MOVING PARTS HAZARD Moving parts can pinch or amputate fingers and other body parts. Keep clear of moving parts. Do not operate equipment with protective guards or covers removed. Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in this manual. Disconnect power or air supply.

4	 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 MSDS's 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. 					
	 PERSONAL PROTECTIVE EQUIPMENT You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: Protective eyewear Clothing and respirator as recommended by the fluid and solvent manufacturer Gloves Hearing protection 					

Grounding



Pump: use ground wire and clamp. Loosen grounding lug locknut (A) and washer (B). Insert 12 gauge minimum ground wire end (D) into lug slot (C) and tighten locknut securely. Connect ground clamp to a true earth ground.

Air and fluid hoses: use only electrically conductive hoses. Check electrical resistance of hoses once a week. Refer to the hose tag or contact supplier for maximum resistance limits. If total resistance to ground exceeds limits, replace hose immediately.

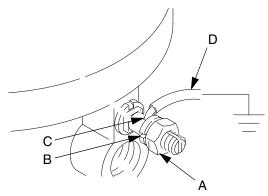


Fig. 1

Air compressor: follow manufacturer's recommendations.

Spray gun / Dispense valve: ground through connection to a properly grounded fluid hose and pump.

Fluid supply container: follow local code.

Object being sprayed: follow local code.

Solvent pails used when flushing: follow local code. Use only conductive metal pails, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts grounding continuity.

To maintain grounding continuity when flushing or relieving pressure: hold metal part of the spray gun/dispense valve firmly to the side of a grounded metal pail, then trigger the gun/valve.

Operation



Keep your fingers, hands, and tools away from the priming piston and the air motor piston during operation and whenever the pump air and fluid pressure is not fully relieved. The pump priming piston extends below the foot valve during operation and could pinch or amputate your fingers or hands as it moves up into the cylinder.

Be sure all moving part shields are installed and safety devices are operating properly before each use.



Tighten all fluid connections securely before each use. High pressure fluid can dislodge a loose coupling or allow high pressure spray to be emitted from the coupling.

CAUTION

Never operate one pump alone. Do not disconnect one pump or allow a pump to run out of material. The system is designed to have both pumps run together. Running one pump alone puts too much stress on the hardware that connects the air motor to the displacement pumps and could cause the hardware to fracture.

Pressure Relief Procedure



Follow **Pressure Relief Procedure** when you stop dispensing and before cleaning, checking, or servicing equipment. Read warnings, page 2.

- 1. Engage trigger lock.
- 2. Turn off air to the pump air motor.
- 3. Disengage the trigger lock.
- 4. Hold a metal part of the gun firmly to a grounded metal pail. Trigger the gun to relieve pressure.
- 5. Engage the trigger lock.
- 6. Open all fluid drain valves in the system, having a waste container ready to catch drainage. Leave drain valve(s) open until you are ready to dispense again.
- 7. If you suspect the spray tip or hose is clogged or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Clear hose or tip obstruction.

Initial Startup

- 1. Connect a 1/2 in. (12.7 mm) air hose to the main air inlet connection.
- 2. Connect the dispense valve kit.
- 3. Raise the pneumatic ram:
 - a. Turn the ram control to UP.
 - b. Turn the ram air regulator up until the pumps begin to rise.

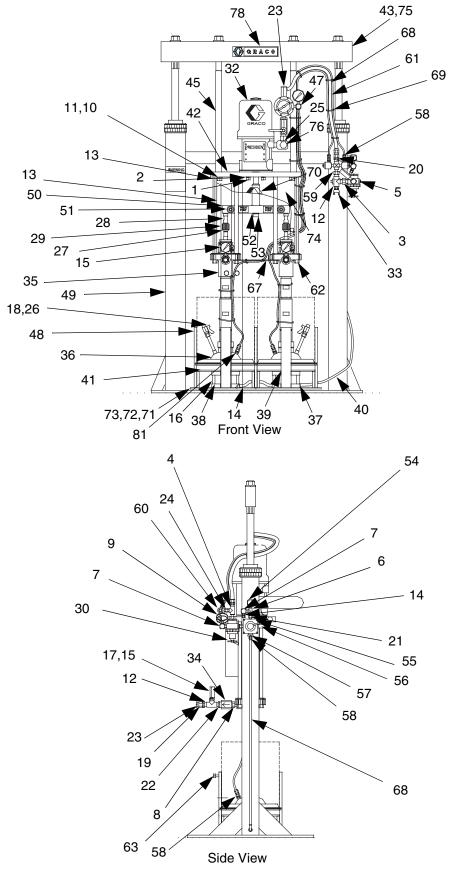
- 4. Open a pail of component A and B. Place the pails in their proper spots on the frame assembly pail levelers. Hook the pail handles over the nearby frame bolts.
- 5. Open the pail ram plate vent valves.
- Stand clear of the pumps. Turn the ram control to DOWN. When the ram plates enter the pails and material comes out the vents, close the vent valves. Set the ram down pressure to at least 50 psi (345 kPa, 3.4 bar). More pressure can be used for high viscosity materials.
- 7. Remove the mixer if one is installed.
- 8. Open the outlet valves on the hoses.
- 9. Set the President air motor regulator to 40 psi (276 kPa, 2.8 bar). Slowly open the pump control air valve just until the pumps start moving. (Some air will escape while the valve is partially open.) When the pumps are primed and filling the hoses, the pump control air valve can be fully opened. When both materials are coming through the outlets free of test oil, close the dispense valve.

Dispensing Mixed Material

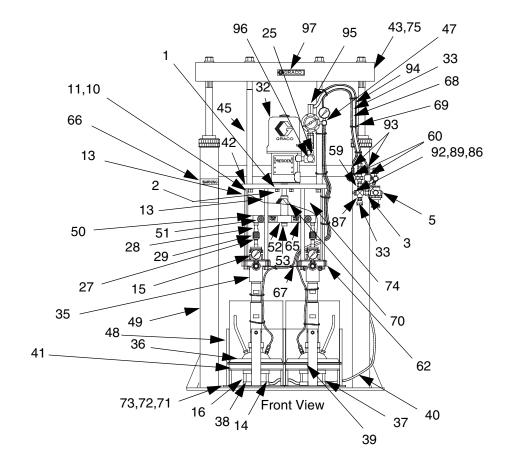
- 1. Install a mixer on the outlet valve.
- 2. Set pump motor valve to the ON position.
- 3. Open dispense valve. Adjust President air motor regulator from 40–120 psi (0.28–0.8 MPa, 2.8–8 bar) to obtain desired flow rate.

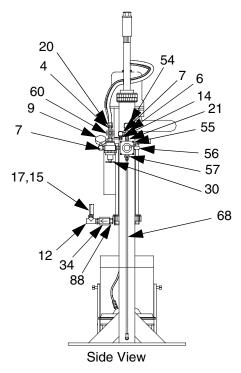
Shutdown

When you are done dispensing, remove the disposable mixer, and wipe off the outlet. Depending on what type of material you are dispensing, it may be better to leave the mixer on until the next time you use the equipment, or it may be necessary to not only wipe off the outlet but to seal it from air. Part No. 551327 plastic disposable caps are available for this purpose.



Ref.				Ref.			
No.	Dart No	Description	Qty.	No.	Part No.	Description	Qty.
1		SCREW, cap hex head	3	43		BEAM, ram	1
2		WASHER, lock spring	3	45		ROD, tie ram 1:1 extruder	2
2 3		NIPPLE, close	3 1	47		KIT, repair	1
4		CROSS, pipe	1	48		FRAME, pail locator	1
5		PLUG, pipe	1	49		RAM, 55 gal, bare 3 in. pneumatic	1
6	10/08/	TEE, pipe		50		YOKE, extruder 1:1	1
7		ELBOW, street	2	51		BEARING, cam follower	2
8		FITTING, bushing pipe	2 2 2	52		WASHER, lock	1
9		GAUGE, press air	1	53	513623	SCREW, cap socket HD	1
10		WASHER, spring lock	6	54	162667	FITTING, elbow street	1
11		NUT, full hex	6	55	513004	VALVE, directional air 1/4 in. NPT	1
12	103475	TEE, pipe	6 3	56	512910	MUFFLER, polyethylene 1/4 in.	1
13		ROD, tie 1:1 extruder	6			NPT	
14		ELBOW, cprsn male	2	57	113034	FITTING, tube	1
15		GAUGE, press fluid	6 2 2 8	58		COUPLING, hose	4
16	104594	SCREW, cap	8	59		FITTING, nipple reducing	1
17		BUSHING, pipe	2	60		VALVE, release air	2
18	208391	VALVE, ball	2 2 2	61		HOSE, nylon	20
19	156684	UNION, adapter	2	62		NUT, lock hex	6
20		UNION, swivel	1	63		SCREW, cap hex head	2
21		NIPPLE, short	2	67		SPACER, pump	1
22	157191	FITTING, adapter (1/2 NPT x 3/4	2	68		HOSE, coupled 61089	1
		NPT)		69		STRAP, tie wiring	10
23		BUSHING	3	70		EMBLEM, Graco	1
25		FITTING, elbow 90°	1	71		SCREW, cap hex head	4
26		NIPPLE, pipe	2	72		WASHER	4
27		NUT, coupling	2 2 2 4	73 74		WASHER, lock	4 1
28		ROD, adapter	2	74 75	100550	SHIELD, yoke 1:2 extruder CAP, end	2
29		COLLAR, coupling				UNION, swivel 90°	2 1
30		REGULATOR, air	1	76 77		WRENCH, packing nut	1
31		FLUID, TSL 1 qt.	1	78		EMBLEM, Graco	1
32		MOTOR, Air pres	1	81		COUPLING	2
33		FITTING, airline	1	01	100431		2
34		VALVE, check	2				
35		PUMP, shovel	2 2	Rena	ir Parts		
36		PLATE, wiper, 5 gallon	2	пери		Motor Seal Kit	
37 38		FITTING, connector tube CYLINDER, air/ 2" stroke	2			Throat Packing Kit (UHMW & PTFE	E)
38 39		SCREW, machine, socket HD	2			Throat Packing Kit (PTFE)	/
39 40		TUBE, poly-flo	2 10			Pump Seal Kit (Less Throat)	
40 41		PLATE, pail/ram	2			Replacement Rod	
42		PLATE, tie 1:1 Extrud. Checkmate				Replacement Cylinder	
-T L	02-000		•			Inlet Seat Kit (Seat & O-ring)	





No. Part No. Description City. No. Part No. Description City. 1 100060 SCREW, cap hex head 3 52 100128 WASHER, lock spring 52 3 100122 NIPPLE, close 1 54 162667 FITTING, elbow street 1 4 113264 CROSS, pipe 1 55 513004 VALVE, directional air 1/4 in. NPT 1 6 104984 TEE, pipe 1 55 513004 VALVE, directional air 1/4 in. NPT 1 9 100860 GAUGE, press air 1 59 162449 FITTING, nipple reducing 1 10 101533 WASHER, spring lock 6 62 109209 NUT, lock hax 6 2 50277 FITTING, tee 1/2 NPT 2 66 513106 LABEL, warning 1 14 101959 ELBOW, cprsn male 2 70 623444 HSAE, Coupled 61089 1 17 10022 BUSHING, pipe	Ref.				Ref.			_
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Technical Specifications

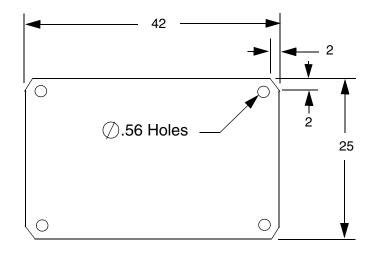
Part No. 570135

Mix ratio by volume	1:1
Pressure Ratio (Fluid/Air)	22:1
Volume Output per cycle	2.9 fl. oz.
Air Motor Diameter	Ø4.25
Air Consumption	10 cfm
Air Inlet	1/2 npsm(f)
Fluid Outlets	1/2 or 3/8 npt(f)
Wetted Parts	Stainless Steel, PTFE, UHMW Polyethylene
Maximum Air Working Pressure	90 psi (6.3 bar, .63 mPa)
Maximum Temperature	Ambient
Maximum Fluid Working Pressure	2000 psi (140 bar, 14.0 mPa)
Weight	500 lbs (227 kg)

Mix Ratio by Volume	1:1
Pressure Ratio (fluid/air)	22:1
Volume Output per cycle	2.9 fl. oz.
Air Motor Diameter	Ø4.25
Air Consumption	10 cfm
Air Inlet	1/2 npsm(f)
Fluid Outlets	1/2 or 3/8 npt(f)
Wetted Parts	Carbon Steel, Stainless Steel, Duc- tile Iron, Zinc and Nickel Plating, PTFE, UHMW Polyethylene
Maximum Air Working Pressure	90 psi (6.3 bar, .63 mPa)
Maximum Temperature	Ambient
Maximum Fluid Working Pressure	2000 psi (140 bar, 14.0 mPa)
Weight	500 lbs (227 kg)

Mounting Footprint

Part No. 570135 and 965119



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.

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

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