

# Merkur<sup>®</sup> Non-Heated Spray Packages

312797Y

ΕN

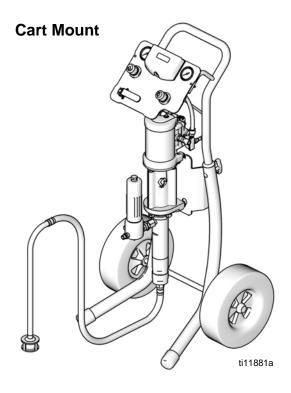
For high-performance finishing and coating applications in hazardous or non-hazardous locations. For professional use only.



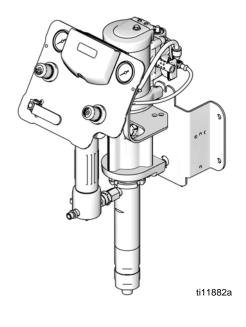
#### Important Safety Instructions

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

See the charts beginning on page 7 for model information, including maximum air inlet pressures and maximum fluid working pressures.



#### **Wall Mount**





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## **Related Manuals**

Manual	Description
312792	Merkur Displacement Pump
312794	Merkur Pump Assembly
312796	NXT <sup>™</sup> Air Motor
312798	Merkur Electrostatic Packages
313255	Merkur Heated Packages
3A0149	AA Series Spray Gun (G15, G40, and G40 with RAC)
312145	XTR <sup>™</sup> 5 and XTR <sup>™</sup> 7 Airless Spray Gun
307273	Fluid Outlet Filter

DataTrak<sup>™</sup> includes agency approvals listed below.







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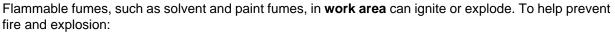
## **Warnings**

The following warnings are for the 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. When these symbols appear in the body of this manual, refer back to these Warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

## **AWARNING**



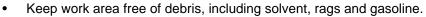
#### FIRE AND EXPLOSION HAZARD







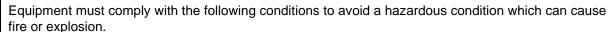
• Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).



- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground all equipment in the 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.
- Keep a working fire extinguisher in the work area.



#### SPECIAL CONDITIONS FOR SAFE USE





- All label and marking material must be cleaned with a damp cloth (or equivalent).
- The electronic monitoring system is required to be grounded. See **Grounding** instructions.



#### **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.



#### PRESSURIZED EQUIPMENT HAZARD

Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

## WARNING



#### **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 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. For complete information
  about your material, request MSDS forms from distributor or retailer.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine Graco replacement parts only.
- Do not alter or modify equipment.
- 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 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 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.



#### **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.



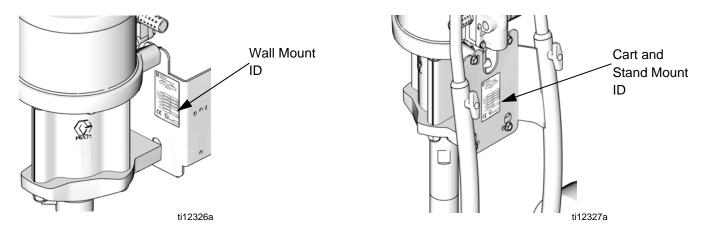
#### PERSONAL PROTECTIVE EQUIPMENT

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

## **Models**

Check the identification plate (ID) for the 6-digit part number of your package. Use the following matrix and tables to define the components of your package. For example, package number **G30C26** represents a Merkur package **(G)**, with a 30:1 ratio pump **(30)**, cart mounting **(C)**, and the components shown for **(26)** in the table on page 12.



G		30		С	26
First Digit	Secor	nd and Third Digits (Ratio)		Fourth Digit ounting Type)	Fifth and Sixth Digit (Components Included)
G	10	10:1	С	Cart	See Tables, pages 8 to 16
(Merkur Package)	15	15:1	Т	Stand	
1 ackage)	18	18:1	W	Wall	
	23	23:1			
	24	24:1			
	28	28:1			
	30	30:1			
	36	36:1			
	45	45:1			
	48	48:1			

# Merkur 10:1 Packages (G10Cxx and G10Wxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar) Maximum Fluid Working Pressure: 1000 psi (6.9 MPa, 69 bar)

Мо	del			Air	Но	ses	Ac	cessor	ies		
Wall Mount	Cart Mount	Pump Assembly	Gun	Controls (pump and gun)	Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper	DataTrak	Maximum Fluid Flow Rate gpm (lpm)
G10W09		W10CAS	None								
G10W01	G10C01	W10CAS	None	~							
G10W03	G10C03	W10CAS	None	~			~				
	G10C05	W10CAS	None	~	~	~	~				
G10W05	G10C07	W10CAS	G15 Carbide	~	~	~	~				1 2 (4 5)
G10W06	G10C08	W10CBS	G15 Carbide	~	~	~	~			~	1.2 (4.5)
G10W07	G10C09	W10CAS	G15 Carbide	~	~	~	~	~			
G10W08	G10C10	W10CBS	G15 Carbide	~	~	~	~	~		~	
	G10C11	W10CAS	G15 Carbide	~	~	~			~		
	G10C13	W10CAS	G15 Carbide	~	~	~		~	~		

# Merkur 15:1 Packages (G15Wxx, G15Cxx, and G15Txx)

Maximum Inlet Air Pressure 100 psi (0.7 MPa, 7 bar) Maximum Fluid Working Pressure: 1500 psi (10.3 MPa, 103 bar)

	Model				Air Co	ntrols	Hos	ses	Acc	cesso	ries		Maximum
Wall Mount	Cart Mount	Stand Mount	Pump Assembly	Gun	Pump Only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Siphon Kit		Hopper	Data Trak	Fluid Flow Rate gpm (lpm)
G15W09			W15AAS	None									
G15W01	G15C01	G15T01	W15AAS	None		~							
G15W03	G15C03		W15AAS	None		~			<b>V</b>				
	G15C05		W15AAS	None		~	~	~	~				
G15W05	G15C07	G15T03	W15AAS	G15 Carbide		~	~	~	~				
G15W06	G15C08	G15T04	W15AAS	G15 Carbide		~	~	~	~			<b>✓</b> *	0.40 (1.5)
G15W07	G15C09		W15AAS	G15 Carbide		~	~	~	~	~			0.40 (1.5)
G15W08	G15C10		W15AAS	G15 Carbide		~	~	~	<b>V</b>	~		<b>/</b> *	
	G15C11	G15T05	W15AAS	G15 Carbide		~	~	~			<b>V</b>		
	G15C12		W15AAS	G15 Carbide		~	~	~			<b>V</b>	<b>/</b> *	
	G15C13		W15AAS	G15 Carbide		~	~	~		~	~		
	G15C14		W15AAS	G15 Carbide		<b>'</b>	<b>'</b>	<b>'</b>		~	~	<b>✓</b> *	
G15W19			W15BAS	None									
G15W21	G15C21		W15BAS	None		~							
G15W23	G15C23		W15BAS	None		<b>/</b>			~				
	G15C25	G15T11	W15BAS	None		<b>/</b>	/	/	~				
		G15T12	W15BBS	None		~	<b>✓</b>	<b>✓</b>	<b>'</b>			<b>'</b>	
G15W25	G15C27	G15T13	W15BAS	G15 Carbide		~	~	~	~				0.8 (3.0)
G15W26	G15C28	G15T14	W15BBS	G15 Carbide		<b>/</b>	<b>'</b>	/	~			/	
G15W27	G15C29		W15BAS	G15 Carbide		<b>/</b>	<b>'</b>	/	~	<b>'</b>			
G15W28	G15C30		W15BBS	G15 Carbide		~	~	~	<b>'</b>	~		<b>'</b>	
	G15C31	G15T15	W15BAS	G15 Carbide		<b>/</b>	<b>'</b>	/			~		
	G15C33		W15BAS	G15 Carbide		<b>/</b>	<b>'</b>	<b>/</b>		<b>'</b>	~		
G15W51	G15C75		W15FAS	None									
G15W52			W15FBS	None								~	
	G15C77		W15FAS	None	~								
	G15C78		W15FBS	None	~							~	
G15W53	G15C79		W15FAS	None	~				<b>V</b>	~			2.4 (9.0)
G15W54	G15C80		W15FBS	None	~				<b>V</b>	~		~	
	G15C81		W15FAS	None		~			<b>'</b>				
G15W55	G15C83		W15FAS	G15 Carbide		~	~	<b>'</b>	<b>V</b>	~			
G15W56	G15C84		W15FBS	G15 Carbide		~	~	~	<b>V</b>	~		~	

<sup>\*</sup> DataTrak with cycle counter only, no runaway solenoid.

# Merkur 18:1 Packages (G18Wxx and G18Cxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 1800 psi (12.4 MPa, 124 bar)

Мо	del			Air Co	ntrols		Hoses	i	Acces	sories		
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Gun Fluid Whip Hose	Siphon Kit	Fluid Filter	DataTrak	Maximum Fluid Flow Rate gpm (lpm)
G18W01		W18EAS	None									
G18W03		W18EAS	None	~								
G18W04		W18EBS	None	~							~	
G18W05	G18C01	W18EAS	None	~					~	~		
G18W06	G18C02	W18EBS	None	~					~	~	<b>V</b>	2.0 (7.5)
	G18C03	W18EAS	None		~				~			2.0 (7.5)
G18W07	G18C05	W18EAS	G40		~	~	~		~	~		
G18W08	G18C06	W18EBS	G40		~	~	~		~	~	~	
G18W09	G18C07	W18EAS	G40 RAC		~	~	~		~	~		
G18W10	G18C08	W18EBS	G40 RAC		~	~	~		<b>'</b>	~	~	

# Merkur 23:1 Packages (G23Wxx and G23Cxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 2300 psi (15.9 MPa, 159 bar)

Мо	del			Air Co	ntrols	Но	ses	A	ccessor	ies		Maximum
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper	DataTrak	Fluid Flow Rate gpm (lpm)
G23W01		W23DAS	None									
G23W03		W23DAS	None	~								
G23W04		W23DBS	None	~							~	
	G23C01	W23DAS	None	~				~				
	G23C02	W23DBS	None	~				~			~	
G23W05		W23DAS	None	~				~	~			
G23W06		W23DBS	None	~				~	~		~	
G23W07	G23C03	W23DAS	XTR5	~		~		~	~			16(60)
G23W08	G23C04	W23DBS	XTR5	~		~		~	~		~	1.6 (6.0)
	G23C05	W23DAS	None		~			~				
	G23C07	W23DAS	G40		<b>'</b>	~	<b>'</b>			~		
G23W09	G23C09	W23DAS	G40		~	~	~	~	~			
	G23C11	W23DAS	G40		~	~	~		~	~		
G23W10	G23C12	W23DBS	G40		<b>'</b>	~	~	~	~		~	
G23W11	G23C13	W23DAS	G40 RAC		~	~	~	~	~			
G23W12	G23C14	W23DBS	G40 RAC		<b>V</b>	~	<b>'</b>	~	~		~	

# Merkur 24:1 Packages (G24Wxx and G24Cxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 2400 psi (16.5 MPa, 165 bar)

Мо	del			Air Co	ntrols	Ho	ses		Option	าร	Maximum
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only	Pump and Gun	Fluid	Gun Air Hose	Siphon Kit	Fluid Filter	DataTra k	Fluid Flow Rate gpm (lpm)
G24W01		W24FAS									
G24W02		W24FBS		~						~	
G24W03	G24C01	W24FAS	None	~				~	~		
G24W04	G24C02	W24FBS	None	<b>/</b>				~	/	<b>✓</b>	
G24W05	G24C03	W24FAS	XTR5	<b>/</b>		<b>/</b>		~	/		2.4 (9.0)
G24W06	G24C04	W24FBS	XTR5	~		~		~	~	<b>✓</b>	2.4 (9.0)
G24W07	G24C09	W24FAS	G40		~	~	~	~	~		
G24W08	G24C10	W24FBS	G40		~	~	~	~	~	<b>✓</b>	
G24W09	G24C11	W24FAS	G40RAC		~	~	~	~	~		
G24W10	G24C12	W24FBS	G40RAC		~	~	~	<b>V</b>	~	~	

## Merkur 28:1 Packages (G28Wxx and G28Cxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 2800 psi (19.3 MPa, 193 bar)

Мо	del			Air Co	ntrols	Hos	ses	Access	ories		Maximum
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only	Pump and Gun	Fluid	Gun Air Hose	Siphon Kit	Fluid Filter		Fluid Flow Rate gpm (lpm)
G28W01		W28EAS	None								
G28W02		W28EBS	None	~						~	
G28W03	G28C01	W28EAS	None	~				~	~		
G28W04	G28C02	W28EBS	None	~				~	~	~	
G28W05	G28C03	W28EAS	XTR5	~		~		~	~		2.0 (7.5)
G28W06	G28C04	W28EBS	XTR5	~		~		~	~	~	2.0 (7.5)
G28W11	G28C09	W28EAS	G40		~	~	~	~	~		
G28W12	G28C10	W28EBS	G40		~	~	~	~	~	~	
G28W13	G28C11	W28EAS	G40RAC		~	~	~	~	~		
G28W14	G28C12	W28EBS	G40RAC		~	~	~	<b>V</b>	<b>&gt;</b>	~	

# Merkur 30:1 Packages (G30Wxx, G30Cxx, and G30Txx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 3000 psi (20.7 MPa, 207 bar)

		Pump Assembly W30AAS		Pump	Pump	Gun	Gun						Maximum
G30W01 G30C01 G30W03 G30C03		W30AAS	1	Only		Fluid Hose	Air	Siphon Kit		Hopper	Drain Valve	DataTra k	Fluid Flow Rate gpm (lpm)
G30W03 G30C03													
		W30AAS	None	>									
G30W05 G30C05		W30AAS	None	~				~					
0301103 030003		W30AAS	None	~				~	~				
G30C07		W30AAS	XTR5	~		~		~					
G30C08		W30ABS	XTR5	~		~		~				~	
G30W07 G30C09		W30AAS	XTR5	~		~		~	~				
G30W08 G30C10		W30ABS	XTR5	~		~		~	~			~	
G30C11		W30AAS	XTR5	~		~				~			
G30C13		W30AAS	XTR5	~		<b>/</b> **		~	~				
G30C15		W30AAS	XTR5	~		~			~	~			
G30W09 G30C17		W30AAS	None		~								
G	330T01	W30AAS	None		~	~	~	~					•
G	330T02	W30ABS	None		~	~	~	~				~	
G30W11 G30C19		W30AAS	None		<b>'</b>			~					
G30W12		W30ABS	None		~			~				~	0.4 (1.5)
G30W13 G30C21 G	30T03	W30AAS	G40		~	~	~	~					•
G30W14 G30C22 G	330T04	W30ABS	G40		~	~	~	~				~	
G30C23 G	330T09	W30AAS	G40		<b>'</b>	~	~			~			
G30W15 G30C25 G	330T05	W30AAS	G40		~	~	~	~	<b>'</b>				
G30W16 G30C26 G	30T06	W30ABS	G40		~	~	~	~	<b>'</b>			~	•
G30C27		W30AAS	G40		~	~	~		~	~			
G30C29 G	330T07	W30AAS	G40 RAC		~	~	~	<b>V</b>					
G30C30 G	30T08	W30ABS	G40 RAC		~	~	~	~				~	
G30C31		W30AAS	G40 RAC		~	~	~			~			•
G30W17 G30C33 G	330T11	W30AAS	G40 RAC		~	~	~	~	<b>'</b>				1
G30W18 G30C34 G	330T12	W30ABS	G40 RAC		~	~	~	<b>V</b>	~			~	
G30C35		W30AAS	G40 RAC		<b>'</b>	~	~		~	<b>'</b>			
G30C37		W30AAS	XTR5	~		~		<b>✓</b> *	~				
G30C39		W30AAS	G40		<b>'</b>	~	~	<b>✓</b>	~		<b>'</b>		
G30C40		W30ABS	G40		<b>'</b>	~	~	<b>/</b>	~		<b>/</b>	~	
G30W51		W30CAS	None										1.2 (4.5)
G30W53		W30CAS	None	~									
G30C51		W30CAS	None	~				~					
G30W55 G30C53		W30CAS	None	~				<b>V</b>	~				
G30W56 G30C54		W30CBS	None	~				~	~			~	

	Model				Air Co	ntrols	Hos	ses		Acces	ssories			Maximum
Wall Mount	Cart Mount	Stand Mount	Pump Assembly		Pump Only	Pump and Gun	Gun Fluid Hose		Siphon Kit		Hopper	Drain Valve	DataTra k	Fluid Flow Rate gpm (lpm)
G30W57			W30CAS	XTR5	~		~		~					
G30W58			W30CBS	XTR5	~		~		~				~	
G30W59	G30C55		W30CAS	XTR5	~		~		~	~				
G30W60	G30C56		W30CBS	XTR5	~		~		~	~			~	
	G30C57		W30CAS	XTR5	~		<b>✓</b> **		~	~				
G30W71			W30CAS	None		~								
	G30C63		W30CAS	None		~			~					
	G30C65		W30CAS	G40		~	~	~			~			40(45)
G30W73	G30C67		W30CAS	G40		~	~	/	~	~				1.2 (4.5)
G30W74	G30C68		W30CBS	G40		~	~	/	~	~			~	
	G30C69		W30CAS	G40		~	<b>✓</b> **	~	~	~				
	G30C71		W30CAS	G40 RAC		~	~	~			~			
G30W75	G30C73		W30CAS	G40RAC		~	~	~	~	~				
G30W76	G30C74		W30CBS	G40RAC		~	~	~	V	~			~	
	G30C85		W30CAS	XTR5		~	~	~	V	~		~		
	G30C86		W30CBS	XTR5		~	~	~	~	~		~	~	

<sup>\*</sup> This package offers a short suction tube, rather than the standard suction hose.

<sup>\*\*</sup> Fluid hose is  $3/16 \times 50$  ft., rather than standard  $3/16 \times 25$  ft.

# Merkur 36:1 Packages (G36Wxx and G36Cxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 3600 psi (24.8 MPa, 248 bar)

Мо	del			Air Co	ntrols		Hoses		Acc	essori	es		
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only		Fluid	Gun Fluid Whip Hose	Gun Air Hose	Suction Hose		Drain Valve	DataTra k	Maximum Fluid Flow Rate gpm (lpm)
G36W01		W36DAS	None										
G36W03		W36DAS	None	~									
G36W04		W36DBS	None	~								~	
G36W05	G36C01	W36DAS	None	~					~	~			
G36W06	G36C02	W36DBS	None	~					~	~		~	
G36W07	G36C03	W36DAS	XTR5RAC	~		~			~	~			
G36W08	G36C04	W36DBS	XTR5RAC	~		~			~	~		~	
G36W13	G36C09	W36DAS	G40		~	~	~	~	~	~			1.6 (6.0)
G36W14	G36C10	W36DBS	G40		~	~	~	~	~	~		~	
G36W15	G36C11	W36DAS	G40RAC		~	~	~	~	~	~			
G36W16	G36C12	W36DBS	G40RAC		~	~	~	~	~	~		~	
G36W17	G36C13	W36DAS	G40		~	~	~	~	~	<b>&gt;</b>	<b>&gt;</b>		
G36W18	G36C14	W36DBS	G40		~	~	~	~	~	~	~	~	
	G36C15	W36DAS	XTR5RAC	~		~			~	<b>'</b>	<b>/</b>		
	G36C16	W36DBS	XTR5RAC	~		~			<b>V</b>	~	~	~	

# Merkur 45:1 Packages (G45Wxx and G45Cxx)

**Table A:** Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 4500 psi (31.0 MPa, 310 bar)

Мо	del			Air Co	ntrols		Hoses	Ac	cesso	ries		
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only	Pump and Gun	Fluid	Gun Fluid Whip Hose	Siphon Kit		Hopper	DataTra k	Maximum Fluid Flow Rate gpm (lpm)
G45W01		W45BAS	None									
G45W03		W45BAS	None	~								
G45W04		W45BBS	None	~		~		~	~		~	
	G45C01	W45BAS	None	~				~				
G45W05	G45C03	W45BAS	XTR5RAC	~		~		~	~			0.8 (3.0)
G45W06	G45C04	W45BBS	XTR5RAC	~		~		~	~		~	0.6 (3.0)
	G45C05	W45BAS	XTR5RAC	~		~			~	~		
	G45C06	W45BBS	XTR5RAC	~		~			~	~	~	
G45W11		W45BAS	None		~							
	G45C11	W45BAS	None		~			~				

**Table B:** Maximum Inlet Air Pressure: 90 psi (0.6 MPa, 6 bar)

Maximum Fluid Working Pressure: 4000 psi (27.6 MPa, 276 bar)

Мо	del			Air Co	ntrols		Hoses			Acces	sories			
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only	Pump and Gun	Fluid	Gun Fluid Whip Hose	Gun Air Hose	Siphon Kit		Hopper	Drain Valve	DataTra k	Maximum Fluid Flow Rate gpm (Ipm)
	G45C13	W45BAS	G40		~	~	~	~			~			
G45W13	G45C15	W45BAS	G40		~	~	~	~	~	~				
G45W14	G45C16	W45BBS	G40		~	~	~	~	~	~			~	
G45W15	G45C17	W45BAS	G40 RAC		~	~	~	~	~	~				0.8 (3.0)
G45W16	G45C18	W45BBS	G40 RAC		~	~	~	~	~	~			~	0.8 (3.0)
G45W17	G45C19	W45BAS	G40		~	~	~	~	~	~		~		
G45W18	G45C20	W45BBS	G40		~	~	~	~	~	~		~	~	
	G45C21	W45BAS	G40		~	~	~	<b>&gt;</b>		~	<b>V</b>	<b>'</b>		

# Merkur 48:1 Packages (G48Wxx and G48Cxx)

**Table A:** Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 4800 psi (33.1 MPa, 331 bar)

Мо	del			Air Co	ntrols		Hoses	l		Acces	sories			
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only		Fluid	Gun Fluid Whip Hose	Air	Siphon Kit		Hopper	Drain Valve	DataTra k	Maximum Fluid Flow Rate gpm (lpm)
G48W01		W48CAS	None											
G48W03	G48C01	W48CAS	None	~					~	~				
G48W04	G48C02	W48CBS	None	~					~	~			<b>V</b>	
G48W05	G48C03	W48CAS	XTR5 RAC	~		~			~	~				
G48W06	G48C04	W48CBS	XTR5 RAC	~		~			~	~			~	1.2 (4.5)
	G48C05	W48CAS	XTR5 RAC	~		~			~	~		~		
	G48C06	W48CBS	XTR5 RAC	~		~			~	~		~	~	
G48W11		W48CAS	None		<b>&gt;</b>		_							

**Table B:** Maximum Inlet Air Pressure: 85 psi (0.6 MPa, 6 bar)

Maximum Fluid Working Pressure: 4000 psi (27.6 MPa, 276 bar)

Мо	del			Air Co	ntrols		Hoses	3		Acces	sories			
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only		Fluid	Gun Fluid Whip Hose	Air	Siphon Kit		Hopper	Drain Valve	DataTra k	Maximum Fluid Flow Rate gpm (lpm)
G48W07	G48C07	W48CAS	G40		~	~	~	~	~	<b>✓</b> *		~		
G48W08	G48C08	W48CBS	G40		~	~	~	~	~	<b>✓</b> *		~	V	
	G48C09	W48CAS	G40		~	~	~	~			~			
G48W13	G48C11	W48CAS	G40		~	~	~	~	~	~				1.2 (4.5)
G48W14	G48C12	W48CBS	G40		~	~	~	~	~	~			V	1.2 (4.3)
G48W15	G48C13	W48CAS	G40 RAC		~	~	~	~	~	~				
G48W16	G48C14	W48CBS	G40 RAC		~	~	~	~	~	~			<b>&gt;</b>	

## Installation

**Package configurations vary widely.** See pages 8-16 to determine the components included in your model. Items designated as accessories are not included in the packages.

- A Air Shutoff Valve (optional accessory)
- B Air Filter (optional accessory)
- C Gun Air Pressure Gauge
- D Gun Air Pressure Regulator
- E Bleed Type Master Air Valve (3/8-18 npt(f))
- F DataTrak
- G Pump Air Pressure Gauge
- H Pump Air Pressure Regulator
- J Solenoid Release Button (DataTrak equipped packages only, not visible, see Fig. 8, page 28)
- K Gun Swivel
- L Air-Assisted Spray Gun
- M Gun Fluid Supply Hose
- N Gun Air Supply Hose
- P Fluid Filter
- R Pump Fluid Outlet
- S Grounding Wire
- T Wet-Cup (not visible, see Fig. 4, page 22)
- U Pump Fluid Inlet
- V Suction Hose
- W Fluid Drain Valve

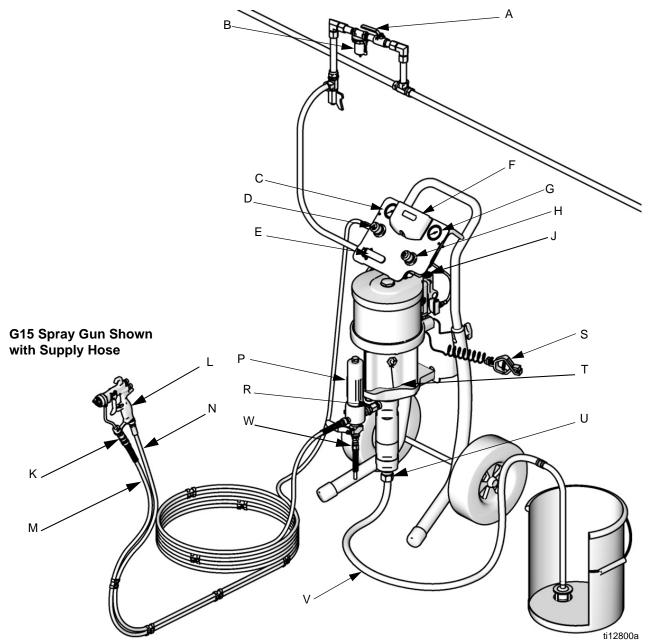


Fig. 1. Typical Installation (Your package may not include all items shown.)

#### **General Information**

**NOTE:** Reference numbers and letters in parentheses in the text refer to the callouts in the figures and the parts drawing.

**NOTE:** Always use Genuine Graco Parts and Accessories, available from your Graco distributor. If you supply your own accessories, be sure they are adequately sized and pressure-rated for your system.

FIG. 1 is only a guide for selecting and installing system components and accessories. Contact your Graco distributor for assistance in designing a system to suit your particular needs.

## **Prepare the Operator**

All persons who operate the equipment must be trained in the operation of all system components as well as the proper handling of all fluids. All operators must thoroughly read all instruction manuals, tags, and labels before operating the equipment.

## **Prepare the Site**

Ensure that you have an adequate compressed air supply.

Bring a compressed air supply line from the air compressor to the pump location. Be sure all air hoses are properly sized and pressure-rated for your system. Use only electrically conductive hoses. The air hose should have a 3/8 npt(m) thread. A quick disconnect coupling is recommended.

Keep the site clear of any obstacles or debris that could interfere with the operator's movement.

Have a grounded, metal pail available for use when flushing the system.

## **Wall Mount Packages**

- Be sure the wall can support the weight of the pump, bracket, hoses and accessories, as well as the stress caused during operation.
- Position the wall bracket about 1.2-1.5 m (4-5 ft)
  above the floor. For ease of operation and service,
  make sure the pump air inlet, fluid inlet, and fluid
  outlet ports are easily accessible.
- Using the wall bracket as a template, drill 10 mm (0.4 in.) mounting holes in the wall. Wall mounting dimensions are shown on page 55.
- 4. Attach the bracket to the wall. Use 3/8 in. (9 mm) screws that are long enough to keep the pump from vibrating during operation.

NOTE: Be sure the bracket is level.

## **Cart Mount Packages**

In packages with M012xx and M018xx motors the muffler(s) are shipped loose. Ensure the muffler(s) are installed before first use.

### Components

See Fig. 1. Components vary by package ordered. See tables on pages 8 to 16. Your package may include:

- The red-handled bleed-type master air valve (E) is required in your system to relieve air trapped between it and the air motor and gun when the valve is closed. Do not block access to the valve.
- The pump air regulator (H) controls pump speed and outlet pressure by adjusting the air pressure to the pump.
- The air relief valve (not shown) opens automatically to prevent overpressurization of the pump.
- The gun air regulator (D) adjusts the air pressure to the air-assisted spray gun (L).
- The air-assisted or airless spray gun (L) dispenses the fluid. The gun houses the spray tip (not shown), which is available in a wide range of sizes for different spray patterns and rates of flow. Refer to gun manual for tip installation.
- The transparent hose (N, labeled "Air Hose Only") provides the gun air supply.
- The blue hose (M) provides the gun fluid supply.
- The gun swivel (K) allows for freer gun movement and comes attached to the blue hose (AA packages). The airless gun has a built-in fluid swivel.
- The suction hose (V) with strainer allows the pump to draw fluid from a 5 gallon (19 liter) pail. A fluid hopper with screen also is available.
- A fluid filter (P) with a 60 mesh (250 micron) stainless steel element filters particles from fluid as it leaves the pump.
- A fluid drain valve (W) relieves fluid pressure in the hose and gun.
- DataTrak (F) provides pump diagnostics and material usage information. DataTrak equipped packages with M02xxx air motors do not have a runaway solenoid; all other DataTrak equipped packages do. See page 27.

#### **Air Line Accessories**

Install the following accessories in the order shown in Fig. 1, using adapters as necessary.

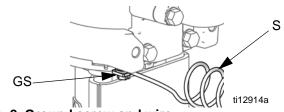
- An air-line filter (B) removes harmful dirt and moisture from the compressed air supply.
- A second bleed-type air shutoff valve (A) isolates the air line accessories for servicing. Locate upstream from all other air line accessories.

## Grounding



The equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.

Pump: See Fig. 2. Verify that the ground screw (GS) is attached and tightened securely to the air motor.
Connect the other end of the ground wire (S) to a true earth ground.



- Fig. 2. Ground screw and wire
- Pump fluid hoses: use only electrically conductive fluid hoses Check electrical resistance of hoses. If total resistance to ground exceeds 25 megohms, replace hose immediately.
- 3. Air compressor: follow manufacturer's recommendations.
- 4. Spray gun: ground through connection to a properly grounded fluid hose and pump.

- 5. Fluid supply container: follow your local code.
- 6. Object being sprayed: follow your local code.
- Solvent pails used when flushing: follow your local code. Use only metal pails, which are conductive, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts the grounding continuity.
- To maintain grounding continuity when flushing or relieving pressure, hold a metal part of the spray gun firmly to the side of a grounded metal pail, then trigger the gun.

## Setup

- 1. See Fig. 1. Attach end of blue fluid hose (M) to pump outlet (R) or filter (P) outlet.
- 2. Attach one end of the air hose (N) to gun air regulator (D).
- 3. Attach remaining end of the air hose (N) to air inlet at base of gun (L).
- 4. Attach gun swivel (K) to gun fluid inlet.
- 5. Attach other end of blue fluid hose (M) to gun swivel (K).
- 6. Clip fluid and air hoses together with the supplied hose clips (qty. of 7). Space clips as needed.
- 7. Apply lens cover to both regulator gauge lenses.
- 8. Verify that suction hose fittings are tight.

## **Operation**

### **Pressure Relief Procedure**



- 1. Engage the trigger lock.
- See Fig. 1. Turn off the bleed-type master air valve (D).
- 3. Disengage the trigger lock.
- Hold a metal part of the gun firmly to a grounded metal waste container. Trigger the gun to relieve fluid pressure.
- 5. Engage the trigger lock.
- Open all fluid drain valves in the system, having a
  waste container ready to catch the drainage. Leave
  the drain valve(s) open until you are ready to spray
  again.
- 7. If you suspect that pressure has not been fully relieved after following the steps above, check the following:
  - a. The spray tip may be completely clogged. Very slowly loosen the air cap retaining ring to relieve pressure in the cavity between the ball/seat shutoff and the plugged tip. Clear the tip orifice.
  - b. The gun fluid filter or the fluid hose may be completely clogged. Very slowly loosen the hose end coupling at the gun and relieve pressure gradually. Then loosen completely to clear the obstruction.
  - c. After following the steps above, if the spray tip or hose still seems completely clogged, very slowly loosen the tip guard retaining nut or hose end coupling and relieve pressure gradually, then loosen completely. With tip removed, trigger gun into waste container.

## Flush the Pump Before First Use

The pump is tested with lightweight oil, which is left in to protect the pump parts. If the fluid you are using may be contaminated by the oil, flush it out with a compatible solvent. See **Flush the Pump** on page 25.

## **Trigger Lock**



See Fig. 3. Always engage gun trigger lock when you stop spraying to prevent gun from being triggered accidentally by hand or if dropped or bumped.





Fig. 3. Trigger Lock

### **Wet Cup**



Before starting, fill wet cup (T) 1/3 full with Graco Throat Seal Liquid (TSL) or compatible solvent.

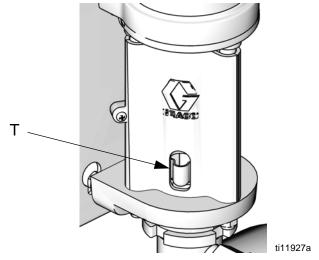


Fig. 4. Wet Cup

## **Prime the Pump**

- 1. See Fig. 1. Lock gun trigger. Remove tip guard and spray tip from gun (L). Refer to gun manual.
- Close gun air regulator (D) and pump air regulator (H) by turning knobs counterclockwise reducing pressure to zero. Close bleed-type air valve (E).
   Also verify that all drain valves are closed.
- 3. Connect air line to bleed type air valve (D).
- 4. Check that all fittings throughout system are tightened securely.
- 5. Position pail close to pump. Suction hose is 4 ft (1.2 m) long. Do not stretch hose tight; let it hang to assist fluid flow into pump.
- 6. Hold metal part of gun (L) firmly to side of grounded metal pail, unlock trigger, and hold trigger open.
- 7. Units with runaway protection only: enable the prime/flush function by pushing the prime/flush button on the DataTrak.

- 8. Open bleed-type air valve (E). Slowly turn clockwise pump air regulator (H) increasing pressure until pump starts.
- 9. Cycle pump slowly until all air is pushed out and pump and hoses are fully primed.
- 10. *Units with runaway protection only:* disable the prime/flush function by pushing the prime/flush button on the DataTrak.
- 11. Release gun trigger and lock trigger safety. Pump should stall against pressure.

## **Install the Spray Tip**









Follow **Pressure Relief Procedure**, page 21. Install the spray tip and tip guard as explained in your separate gun manual, supplied.

The fluid output and pattern width depend on the size of the spray tip, the fluid viscosity, and the fluid pressure. Use the Spray Tip Selection Chart in your gun instruction manual as a guide for selecting an appropriate spray tip for your application.

## **Adjust the Atomization**











Do not turn on atomizing air supply. Fluid pressure is controlled by the air pressure supplied to the pump (pump air regulator). Set fluid pressure at low starting pressure. For low viscosity fluids (less than 25 sec, #2 Zahn cup) with lower percent solids (typically less than 40%), start at 300 psi (2.1 MPa, 21 bar) at pump outlet. For fluids with higher viscosity or higher solids content, start at 600 psi (4.2 MPa, 42 bar). Refer to the following example.

#### Example:

Pump Ratio			Approximate Fluid Pressure psig (MPa, bar)	
15:1	Х	20 (0.14, 1.4)	=	300 (2.1, 21)
30:1	Х	20 (0.14, 1.4)	=	600 (4.2, 42)

- 2. Hold gun perpendicular and approximately 12 inches (304 mm) from surface.
- 3. Move gun first, then pull gun trigger to spray onto test paper.
- Increase fluid pressure in 100 psi (0.7 MPa, 7 bar) increments, just to the point where a further increase in fluid pressure does not significantly improve fluid atomization. Refer to the following example.

#### Example:

Pump Ratio		Pump Air Regulator Increment psi (MPa, bar)		Incremental Fluid Pressure psi (MPa, bar)
15:1	Х	7 (.05, 0.5)	=	100 (0.7, 7.0)
30:1	Х	3.3 (0.02, 0.2)	=	100 (0.7, 7.0)

## **Adjust the Spray Pattern**

#### **Packages with Airless Guns**

The spray tip orifice and spray angle determine pattern coverage and size. When you need more coverage, use a larger spray tip rather than increasing fluid pressure. Align guard horizontally to spray a horizontal pattern. Align guard vertically to spray a vertical pattern.

#### **Packages with AA Guns**

 See Fig. 5. Close off pattern adjustment air by turning knob (AA) clockwise (in) all the way. This sets gun for its widest pattern.

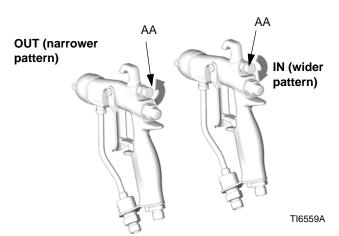


Fig. 5. Pattern Air Knob

 See Fig. 6. Set atomizing air pressure at about 5 psi (0.35 bar, 35 kPa) when triggered. Check spray pattern, then slowly increase air pressure until tails are completely atomized and pulled into spray pattern. Do not exceed 100 psi (0.7 MPa, 7 bar) air pressure to gun. 3. See Fig. 5. For narrower pattern, turn pattern adjustment valve knob (AA) counterclockwise (out). If pattern is still not narrow enough, increase air pressure to gun slightly or use different size tip.

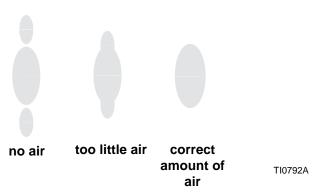


Fig. 6. Spray Pattern Problems

#### Shutdown



Follow Pressure Relief Procedure, page 21.

Always flush the pump before the fluid dries on the displacement rod. See **Flush the Pump** on page 25.

## **Maintenance**

## Preventive Maintenance Schedule

The operating conditions of your particular system determine how often maintenance is required. Establish a preventive maintenance schedule by recording when and what kind of maintenance is needed, and then determine a regular schedule for checking your system.

Replace lens covers on regulator gauge lenses when dirt makes gauges difficult to read.

## **Tighten Threaded Connections**

Before each use, check all hoses for wear or damage. Replace as necessary. Check that all threaded connections are tight and leak-free.

## Flush the Pump



Flush the pump:

- Before first use
- When changing colors or fluids
- Before repairing equipment
- Before fluid dries or settles out in a dormant pump (check the pot life of catalyzed fluids)
- At the end of the day
- Before storing the pump.

Flush at the lowest pressure possible. Flush with a fluid that is compatible with the fluid you are pumping and with the wetted parts in your system. Check with your fluid manufacturer or supplier for recommended flushing fluids and flushing frequency.

- Follow Pressure Relief Procedure, page 21.
- 2. Remove tip guard and spray tip from gun. Refer to separate gun manual.
- Place siphon tube in grounded metal pail containing cleaning fluid.
- 4. Set pump to lowest possible fluid pressure, and start pump.
- 5. Hold a metal part of the gun firmly to a grounded metal pail.
- 6. Units with runaway protection only: enable the prime/flush function by pushing the prime/flush button on the DataTrak.
- 7. Trigger gun. Flush system until clear solvent flows from gun.
- Units with runaway protection only: disable the prime/flush function by pushing the prime/flush button on the DataTrak.
- 9. Follow Pressure Relief Procedure, page 21.
- 10. Clean the tip guard, spray tip, and fluid filter element separately, then reinstall them.
- 11. Clean inside and outside of suction tube.

## **Wet Cup**

Fill the wet cup one-half full with Graco Throat Seal Liquid (TSL). Maintain level daily.

## **Troubleshooting**



**Relieve the pressure** before checking or servicing the equipment.

**NOTE:** Check all possible problems and causes before disassembling the pump.

Problem	Cause	Solution
Pump fails to operate.	Restricted line or inadequate air supply; closed or clogged valves.	Clear line or increase air supply. Check that the valves are open.
	Obstructed fluid hose or gun; fluid hose ID is too small.	Open, clear*; use hose with larger ID.
	Fluid dried on the displacement rod.	Clean; always stop the pump at the bottom of its stroke; keep the wet-cup 1/3 filled with Graco throat seal liquid (TSL).
	Dirty, worn, or damaged air motor parts.	Clean or repair air motor. See manual 312796.
	DataTrak models only: Air valve cannot cycle because solenoid pin is	Enable runaway protection (See <b>DataTrak Operation</b> , <b>Setup Mode</b> , page 28). Bleed
	extended.	air from motor. Press 🔀 on the DataTrak
		display to retract solenoid pin.
Pump operates, but output is low on both strokes.	Restricted line or inadequate air supply; closed or clogged valves.	Clear line or increase air supply. Check that the valves are open.
	Obstructed fluid hose or gun; fluid hose ID is too small.	Open, clear*; use hose with larger ID.
	Worn packings in displacement pump.	Replace packings. See manual 312792.
Pump operates, but output is low on downstroke.	Held open or worn ball check valves or piston packings.	Clear valve; replace packings. See manual 312792.
Erratic or accelerated pump	Exhausted fluid supply.	Refill and prime.
speed.	Held open or worn ball check valves or packings.	Clear valve, replace packings; see manual 312792.
Fluid being pumped is visible in the TSL reservoir.	Worn throat packings.	Replace throat packings. See manual 312792.

<sup>\*</sup> To determine if the fluid hose or gun is obstructed, relieve the pressure. Disconnect the fluid hose and place a container at the pump fluid outlet to catch any fluid. Turn on the air just enough to start the pump. It the pump starts when the air is turned on, the obstruction is in the hose or gun.

## **DataTrak Controls and Indicators**

#### Key for Fig. 7

- AA Runaway Limit, in cycles per minute (user settable; 00=OFF)
- AB Lower Displacement (user settable)
- AC Flow Rate Units (user settable to  $\P$ /min, gpm [US], gpm [Imperial], oz/min [US], oz/min [Imperial], I/min, or cc/min)
- AD LED (fault indicator when lit)
- AE Display
- PF Prime/Flush Key (Enables Prime/Flush mode. While in Prime/Flush mode, runaway protection is disabled and the batch totalizer [BT] will not count.) LED will flash while in Prime/Flush mode.
- RK Reset Key (Resets faults. Press and hold for 3 seconds to clear the batch totalizer.) Push to toggle between flow rate and cycle rate. With runaway protection enabled, push to extend and retract the solenoid pin.
- CF Cycle/Flow Rate
- BT Batch Totalizer
- **GT** Grand Totalizer
- RT Runaway Toggle (enable/disable)
- UT E1 Toggle
- DT E2 Toggle
- ST E5 Toggle

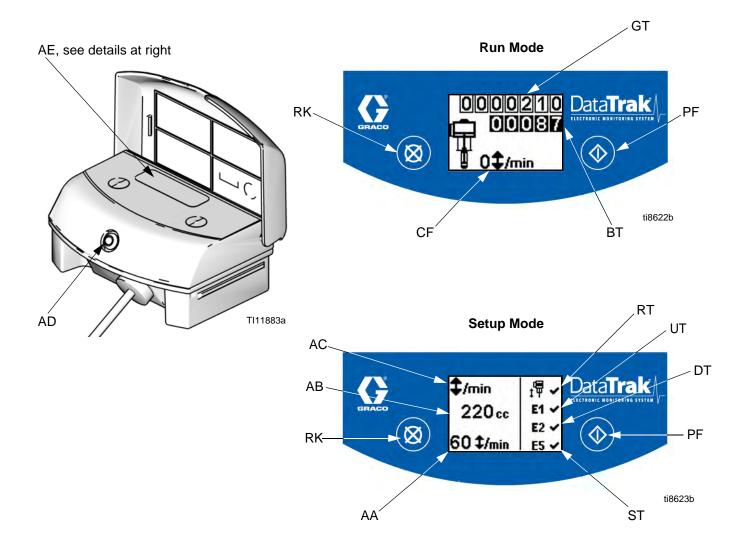


Fig. 7. DataTrak Controls and Indicators

## **DataTrak Operation**

**NOTE:** The display (AE) will turn off after 1 minute to save battery life. Press any key to wake up the display.

#### **NOTICE**

To prevent damage to the soft key buttons, do not press the buttons with sharp objects such as pens, plastic cards, or fingernails.

## **Setup Mode**

- See Fig. 7. Press and hold for 5 seconds until Setup menu appears.
- To enter settings for runaway (if equipped), lower size, and flow rate units, and to enable runaway, E1, E2, and E5 error options, press to change the value, then to save the value and move the cursor to the next data field. See page 30 for a description of E1, E2, and E5 error codes.

NOTE: Graco recommends setting runaway (if equipped) to 60 t ☐ . All DataTrak modules are shipped with runaway protection not enabled.

**NOTE:** When runaway, E1, E2, and E5 error options are enabled, a ✓ will appear on the setup screen. See Fig. 7.

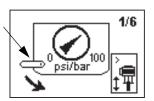
 Move the cursor to the E5 error enable option field, then press once more to exit Setup mode.

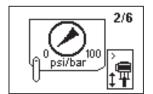
### **Run Mode**

#### Runaway

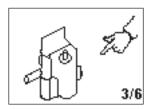
**NOTE:** DataTrak is available with and without runaway protection. Packages with M02xxx air motors ship without a runaway solenoid. All other packages are equipped with a runaway solenoid.

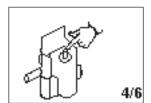
 See Fig. 7. If pump runaway occurs, the runaway solenoid will actuate, stopping the pump. The LED (AD) will flash and the display (AE) will indicate a runaway condition (see Table 1). The display will cycle through six instruction screens. 2. Runaway Screens 1 and 2: To reset the runaway solenoid, close the master air valve (E). Wait for air to completely bleed off the air motor.





 Runaway Screens 3 and 4: After the air is bled off, push the solenoid release button (J) down to reset the air valve. The button will pop back up when the air valve is repressurized.





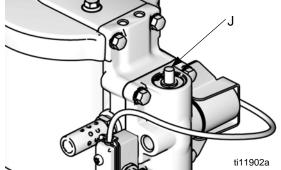
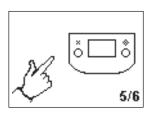
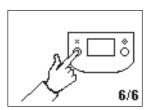


Fig. 8. Solenoid Release Button

4. Runaway Screens 5 and 6: Press to clear the diagnostic code and reset the runaway solenoid.





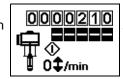
5. Open master air valve (E) to restart pump.

**NOTE:** To disable runaway monitoring, go to setup mode and set runaway value to 0 (zero) or toggle (RT) off (see Fig. 7).

#### Prime/Flush

 See Fig. 7. To enter Prime/Flush mode, press any key to wake up the display, then press . The Prime/Flush symbol will appear in the display and

the LED will flash



- 2. While in Prime/Flush mode, runaway protection is disabled and the batch totalizer (BT) will not count. The grand totalizer (GT) continues to count.
- To exit Prime/Flush mode, press any key to wake up the display, then press . The Prime/Flush symbol will disappear from the display and the LED will stop flashing.

#### Counter/Totalizer

See Fig. 7. The last digit of the batch totalizer (BT) represents tenths of gallons or liters. To reset the totalizer, press any key to wake up the display, then press and hold for 3 seconds.

- If AC is set to gallons or ounces, BT and GT display gallons.
- If AC is set to liters or cc, BT and GT display liters.
- If AC is set to cycles, BT and GT display cycles.

Press to toggle between flow rate units and cycles. A letter under the BT display indicates that both BT and GT are displaying gallons (g) or liters (l). No letter means both BT and GT are displaying cycles.

#### **Display**

See Fig. 7. The display (AE) will turn off after 1 minute of inactivity in Run mode or 3 minutes in Setup mode. Press any key to wake up the display.

**NOTE:** DataTrak will continue to count cycles when display is off.

**NOTE:** The display (AE) may turn off if a high-level static discharge is applied to the DataTrak. Press any key to wake up the display.

### **Diagnostics**

DataTrak can diagnose several problems with the pump. When the monitor detects a problem, the LED (AD, Fig. 7) will flash and a diagnostic code will appear on the display. See Table 1.

To acknowledge the diagnosis and return to the normal operating screen, press once to wake up the display, and once more to clear the diagnostic code screen

**Table 1: Diagnostic Codes** 

Sym	bol	Code	Code Name	Diagnosis	Cause
0 psi/bar 1/6	2/6 psi/bar 100	谭	Runaway (DataTrak only)	Pump running faster than set runaway limit.	Increased air pressure.     Increased fluid output.     Exhausted fluid supply.
3/6	4/6				
₩ 5/6	6/6				

**Table 1: Diagnostic Codes** 

Symbol	Code	Code Name	Diagnosis	Cause
<b>₽</b> E1	E-1	Diving Up	Leak during upstroke.	Worn piston valve or packings.
<b>₽</b> E2	E-2	Diving Down	Leak during downstroke.	Worn intake valve.
<b>1</b>	E-3	Low Battery	Battery voltage too low to stop runaway.	Low battery. Replace battery; see page 32.
1- E4	E-4	Service Component 1 (units with runaway protection only)	Problem with stopping runaway.	<ul> <li>Damaged solenoid.</li> <li>Damaged valve carriage.</li> <li>Runaway (RT, Fig. 7) protection may be enabled with pump that is not equipped with a runaway solenoid valve. Enter setup screen and disable runaway protection.</li> </ul>
ĕ □ Š <b>E</b> 4	E-4	Disconnected Solenoid (units with runaway	Solenoid is disconnected.  Solenoid is not engaging piston cup (112).	<ul> <li>Solenoid unplugged.</li> <li>Damaged solenoid wires.</li> <li>Bracket and solenoid not tight against air valve housing.</li> </ul>
2 <b>E</b> 5	E-5	Service Component 2	Problem with sensing valve movement.	<ul> <li>Sensors unplugged.</li> <li>Sensors mounted incorrectly.</li> <li>Damaged sensors.</li> <li>Damaged valve carriage.</li> </ul>
E6 Fuse 63 mA	E-6	Blown Fuse	Fuse is blown. Replace fuse; see page 32.	<ul> <li>Faulty solenoid or solenoid wiring.</li> <li>Extreme temperatures (above 140°F [60°C]).</li> <li>Runaway (RT, Fig. 7) protection may be enabled with pump that is not equipped with a runaway solenoid valve. Enter setup screen and disable runaway protection.</li> </ul>

## Replace DataTrak Battery or Fuse



To reduce the risk of fire and explosion, the battery and fuse must be replaced in a non-hazardous location.

Use only an approved replacement battery, shown in TABLE 2, and an approved fuse, shown in TABLE 3. Use of an unapproved battery or fuse will void Graco's warranty and Intertek and Ex approvals.

#### **Replace Battery**

- 1. Unscrew cable from the back of the reed switch assembly. See Fig. 9.
- 2. Remove the cable from the two cable clips.

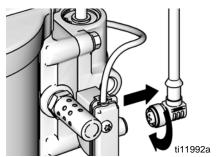


Fig. 9. Disconnect DataTrak

 Remove DataTrak module from bracket. See Fig. 10. Take module and attached cable to a non-hazardous location.

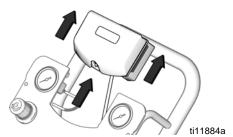


Fig. 10. Remove DataTrak

- 4. Remove two screws on back of module to access battery.
- 5. See Fig. 11. Disconnect the used battery and replace with an approved battery from TABLE 2.

Table 2. Approved Batteries	
Energizer alkaline # 522	
Varta alkaline # 4922	
Ultralife lithium # U9VL	
Duracell alkaline # MN1604	

### **Replace Fuse**

- 1. Remove the screw, metal strap, and plastic holder.
- 2. Pull the fuse away from the board.
- 3. Replace with an approved fuse from TABLE 3.

Tabl	Table 3. Approved Fuses									
DataTrak Part Number	Series*	Fuse Required								
289822	A or B	24C580								
209022	C and later	24V216								
All other part	A	24C580								
numbers	B and later	24V216								

\* Fig 11 shows where to find the Series letter.

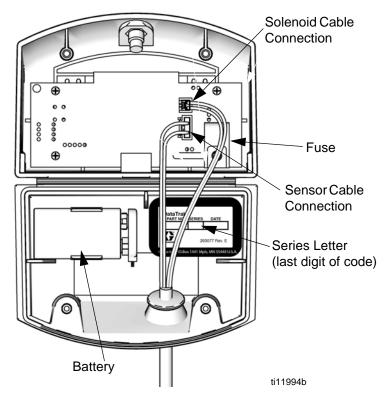
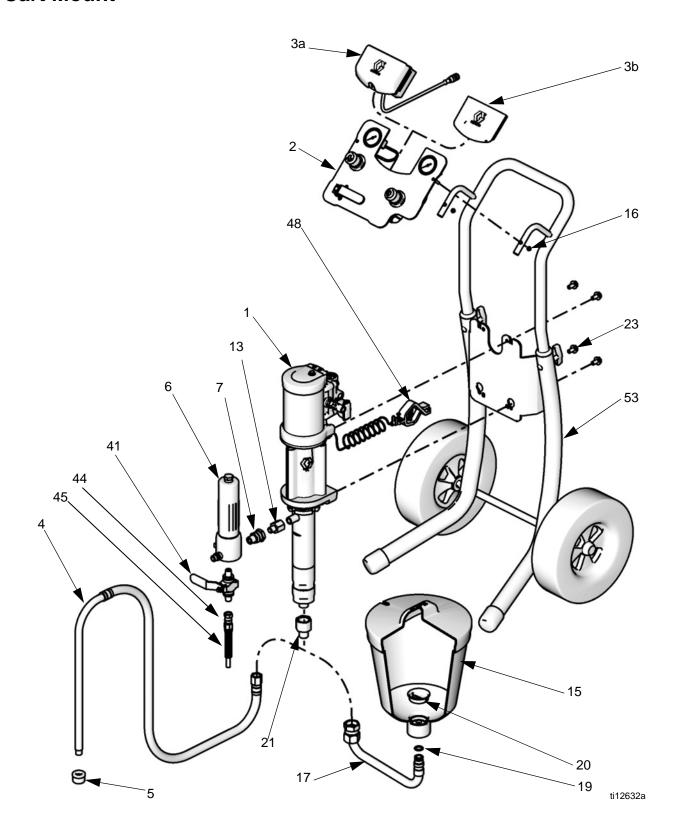


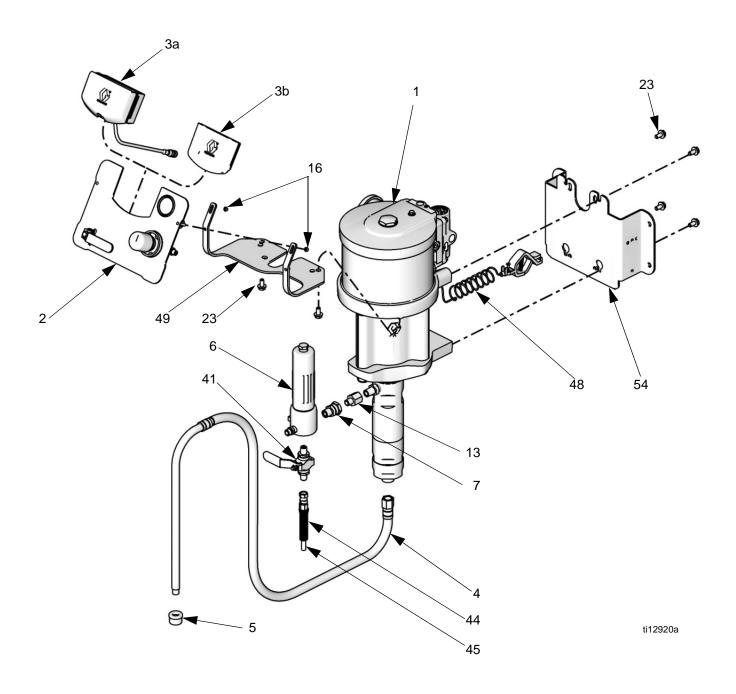
Fig. 11. DataTrak Battery and Fuse Location

DataTrak Operation

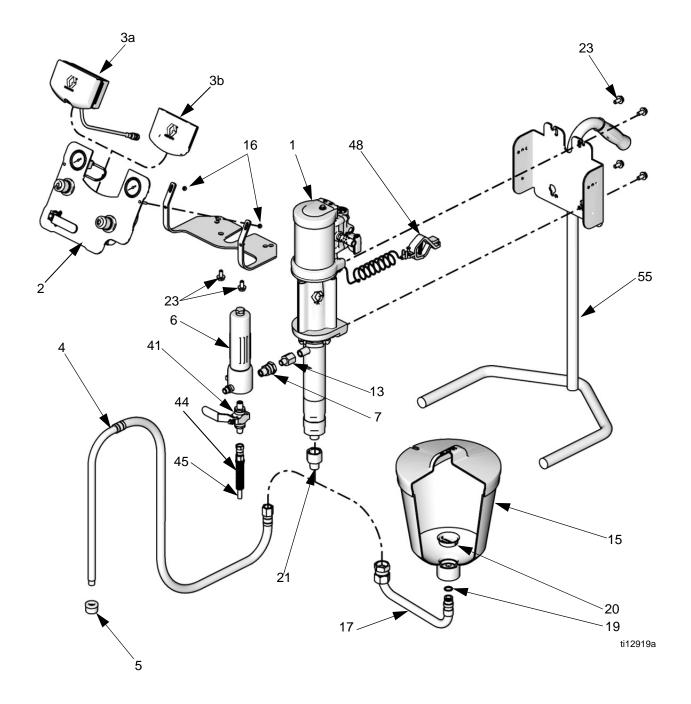
# Parts Cart Mount



## **Wall Mount**



# **Stand Mount**



#### NOTE:

- See page 48 for mounting kits for all packages.
- See page 49 for repair parts and accessories.

Package	Parts List Page
G10xxx	38
G15xxx	39
G18xxx	40
G23xxx	41
G24xxx	42
G28xxx	43
G30xxx	44
G36xxx	45
G45xxx	46
G48xxx	47

#### **G10xxx Models**

This list includes all possible parts for G10xxx packages. See page 8 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1		Pump Assembly; see Manual 312794	1
	W10CAS	M04LN0 x LW075A	
	W10CBS	M04LT0 x LW075A	
2	24A585	PANEL, air control; see page 49	1
3a	24A575	DATATRAK, assembly; see manual	1
		313541	
3b		INSERT, panel (included with Part 2)	1
4	256420	HOSE, suction (includes Part 5)	1
5		STRAINER (included with Part 4, or	1
		see page 52 for packages of 10)	
6	24A587	FILTER, fluid	1
7		FITTING, union, 3/8-18 npsm x	1
		3/8-18 npt, (included with Part 6)	
8	189018	SWIVEL, fluid hose (packages with	1
		gun)	
9	241812	HOSE, fluid (packages with gun)	1
10	24C853	GUN, G15, carbide	1
11	AAM413	TIP (packages with gun)	1
12	AAMxxx	TIP OPTION, (packages with gun)	1
13	512351	ADAPTER, outlet, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun, (packages with gun)	1
15	256410	HOPPER (includes 17, 19, 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with	2
		Parts 2 and 49)	

Ref	Part	Description	Qty
17		TUBE, inlet, hopper (included with Part 15)	1
18		CLIP, hose (packages with gun), see page 52 for packages of 10	7
19		O-RING, hopper (included with Part 15)	1
20	112133	SCREEN, hopper (included with Part 15)	1
21	24B299	ADAPTER, inlet, 3/4 nptf to 1/2 nptm, for suction hose	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	See p. 48	CART MOUNTING KIT; see page 48 (G10Cxx models only)	1
54	See p. 48	WALL MOUNTING KIT; see page 48 (G10Wxx models only)	1

<sup>----</sup> Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

# **G15xxx Models**

This list includes all possible parts for G15xxx packages. See page 9 to check whether a part is included in your particular package.

			Qty
Ref.	Part	Description	
1		Pump Assembly; see Manual 312794	1
	W15AAS	M02LN0 x LW025A	
	W15BAS	M04LN0 x LW050A	
	W15BBS	M04LT0 x LW050A	
	W15FAS	M12LN0 x LW150A	
	W15FBS	M12LT0 x LW150A	
2		PANEL, air controls (includes Part 3b)	1
	24A585	M02xxx or M04xxx motor, pump	
		and gun; see page 49	
	24A583	M12xxx motor, pump only; see	
		page 51	
	24A581	M12xxx motor, pump and gun; see	
		page 49	
3a		DATATRAK, assembly; see manual	1
		313541	
	24A575	M02xxx and M04xxx motor	
	24A576	M12xxx motor	
3b		INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5))	1
-	256420	LW025A or LW050A displacement	
		pump	
	256422	LW150A displacement pump, cart	
		mount	
	256424	LW150A displacement pump, wall	
		mount	
5		STRAINER (included with Part 4)	1
		LW025A or LW050A displacement	
		pump, see page 52 for packages of	
		10	
	187190	LW150A displacement pump	
6	24A587	FILTER, fluid	1
7		FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA	1
		gun)	
9	241812	HOSE, fluid (packages with gun)	1
10	24C853	GUN, G15 Carbide	1
11	AAM413	TIP (packages with AA gun)	1
12	AAMxxx	TIP OPTION (packages with AA gun)	1
13		ADAPTER, outlet	1
	512351	LW025A or LW050A displacement	
		pump,1/4 nptm x 3/8 nptf	
	121238	LW150A displacement pump,	
		3/8 nptm x 3/4 nptf	
14	256390	AIR HOSE, gun (all AA packages)	1
15	256410	HOPPER (includes 17, 19, 20, and 21)	1

			Qty
Ref.	Part	Description	
16	105332	NUT, lock, M5 x 0.08 (included with	2
		Parts 2 and 49)	
17		TUBE, inlet, hopper (included with Part	1
10		15)	
18		CLIP, hose (all AA packages), see page 52 for packages of 10	7
19		O-RING, hopper (included with Part 15)	1
20	112133	SCREEN, hopper (included with Part	1
		15)	
21		ADAPTER, 3/4 in. to 1/2 in.	1
		LW025A displacement pump with	
		hopper (included with Part 15)	
	24B299	LW050A or LW075A displacement	
		pump with suction hose	
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with	
		Parts 49, 53, and 54)	
		Wall and stand mount	6
		Cart mount	4
26	105335	SCREW (stand mount only)	1
37	166846	ADAPTER, for whip hose	1
48	238909	GROUNDING WIRE assembly	1
49	24E883	BRACKET, air control, wall and stand	1
		mount only (includes Parts 16 and 23)	
53	289694	CART MOUNTING KIT; see page 48	1
		(G15Cxx models only)	
54	24A578	WALL MOUNTING KIT; see page 48	1
		(G15Wxx models only)	
55	24A577	STAND MOUNTING KIT; see page 48	1
		(G15Txx models only)	

---- Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

# **G18xxx Models**

This list includes all possible parts for G18xxx packages. See page 10 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, see Manual 312794	1
	W18EAS	M12LN0 x LW125A	
	W18EBS	M12LT0 x LW125A	
2		PANEL, air controls (includes 3b)	1
	24A583	pump only; see page 51	
	24A581	pump and gun; see page 49	
3a	24A576	DATATRAK, assembly; see manual	1
		313541	
3b		INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256422	cart mount packages	
	256424	wall mount packages	
5	187190	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7		FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA	1
		gun)	
9	241812	HOSE, fluid (packages with gun)	1
10		GUN	1
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP, (packages with gun)	1
12	AAMxxx	TIP OPTION (packages with gun)	1
13	121237	ADAPTER, 3/8 nptm x	1
		1/2 nptf	

Ref.	Part	Description	Qty.
14	256390	AIR HOSE, gun (all AA packages)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
18		CLIP, hose (all AA packages), see page 52 for packages of 10	7
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; see page 48 (G18Cxx models only)	1
54	24A578	WALL MOUNTING KIT; see page 48 (G18Wxx models only)	1

---- Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

# **G23xxx Models**

This list includes all possible parts for G23xxx packages. See page 10 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, see Manual 312794	1
	W23DAS	M12LN0 x LW100A	
	W23DBS	M23LT0 x LW100A	
2		PANEL, air controls (includes 3b)	1
	24A583	pump only; see page 51	
	24A581	pump and gun; see page 49	
3a	24A576	DATATRAK, assembly; see manual 313541	1
3b		INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256421	cart mount packages	
	256423	wall mount packages	
5	181073	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7		FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA	1
		gun)	
9	241812	HOSE, fluid (packages with gun)	1
10		GUN	1
	XTR501	XTR 5	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (packages with G40 gun)	1
12	AAMxxx	TIP OPTION (packages with G40 gun)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun (all AA packages)	1
15	256410	HOPPER (includes Parts 17, 19, and 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2

Ref.	Part	Description	Qty.
17		TUBE, inlet, hopper (included with Part 15)	1
18		CLIP, hose (all AA packages), see page 52 for packages of 10	7
19		O-RING, hopper (included with Part 15)	1
20	112133	SCREEN, hopper (included with Part 15)	1
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; see page 48 (G23Cxx models only)	1
54	24A578	WALL MOUNTING KIT; see page 48 (G23Wxx models only)	1

---- Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

#### **G24xxx Models**

This list includes all possible parts for G24xxx packages. See page 11 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, see Manual 312794	1
	W24FAS	M18LN0 x LW150A	
	W24FBS	M18LT0 x LW150A	
2		PANEL, air controls (includes Part 3b)	1
	24A583	pump only; see page 51	
	24A581	pump and gun; see page 49	
3a	24A576	DATATRAK, assembly; see manual	1
		313541	
3b		INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256422	cart mount packages	
	256424	wall mount packages	
5	187190	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7		FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA	1
		gun)	
9	241812	HOSE, fluid (packages with gun)	1
10		GUN	1
	XTR501	XTR 5	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (Packages with G40 gun)	1
12	AAMxxx	TIP OPTION (Packages with G40 gun)	1
13	121238	ADAPTER, 3/8 nptf x 3/4 nptm	1

Ref.	Part	Description	Qty.
14	256390	AIR HOSE, gun (all AA packages)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
18		CLIP, hose (all AA packages), see page 52 for packages of 10	7
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount Cart mount	6
37	166846	ADAPTER, for whip hose	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; see page 48 (G24Cxx models only)	1
54	24A578	WALL MOUNTING KIT; see page 48 (G24Wxx models only)	1

<sup>----</sup> Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

#### **G28xxx Models**

This list includes all possible parts for G28xxx packages. See page 11 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, see Manual 312794	1
	W28EAS	M18LN0 x LW125A	
	W28EBS	M18LT0 x LW125A	
2		PANEL, air controls (includes Part 3b)	1
	24A583	pump only; see page 51	
	24A581	pump and gun; see page 49	
3a	24A576	DATATRAK, assembly; see manual	1
		313541	
3b		INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256422	cart mount packages	
	256424	wall mount packages	
5	187190	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7		FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA	1
		gun)	
9	241812	HOSE, fluid (packages with gun)	1
10		GUN	1
	XTR501	XTR 5	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (Packages with AA gun)	1
12	AAMxxx	TIP OPTION (Packages with AA gun)	1
13	121237	ADAPTER, 3/8 nptm x 1/2 nptf	1

Ref.	Part	Description	Qty.
14	256390	AIR HOSE, gun (all AA packages	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
18		CLIP, hose (all AA packages), see page 52 for packages of 10	7
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; see page 48 (G28Cxx models only)	1
54	24A578	WALL MOUNTING KIT; see page 48 (G28Wxx models only)	1

---- Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

#### **G30xxx Models**

This list includes all possible parts for G30xxx packages. See page 12 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, see Manual 312794	1
	W30AAS	M04LN0 x LW025A	
	W30ABS	M04LT0 x LW025A	
	W30CAS	M12LN0 x LW075A	
	W30CBS	M12LT0 x LW075A	
2		PANEL, air controls (includes Part 3b)	1
	24A586	M04xxx motor, pump only, see	
		page 51	
	24A585	M04xxx motor, pump and gun; see	
		page 49	
	24A583	M12xxx motor, pump only; see	
		page 51	
	24A581	M12xxx motor, pump and gun; see	
		page 49	
3a		DATATRAK, assembly; see manual	1
		313541	
	24A575	M04xxx motors	
	24A576	M12xxx motors	
3b		INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256420	LW025A displacement pump	
	24C581	G30C37 Model	
	256421	LW075A displacement pump, cart	
		mount	
	256423	LW075A displacement pump, wall	
		mount	
5		STRAINER (included with Part 4)	1
		LW025A displacement pump, see	
		page 52 for packages of 10	
	181073	LW075A displacement pump	
6	24A587	FILTER, fluid, assembly (if included,	1
•	0.44.505	uses parts 6a and 6b)	
6a	24A587	FILTER, fluid, see Manual 307273	1
6b		FITTING, union	1
8	189018	SWIVEL, fluid hose (packages with AA	1
0		gun)	
9	1150505	HOSE, fluid (packages with gun)	1
	H52525	G30W57–G30W60	
	24B562	G30C13, G30C57, G30C69	
40	241812	All other packages	
10	VTD = 0.4	GUN	1
	XTR501	XTR 5	
	24C855	G40	
4.4	24C857	G40 with RAC tip	
11	AAM413	TIP (Packages with AA guns	1
12	AAMxxx	TIP OPTION (Packages with AA guns)	1
13	512351	ADAPTER, 1/4 nptm x	1
	j	3/8 nptf	

Ref.	Part	Description	Qty.
14	256390	AIR HOSE, gun, 25 ft (7.6 m); used on	1
		most AA packages	
	256389	AIR HOSE, gun, 50 ft (15.2 m); Model	1
		G30C69 only	
15	256410	HOPPER (includes Parts 17, 19, and	1
		20)	
16	105332	NUT, lock, M5 x 0.08 (included with	2
		Parts 2 and 49)	
17		TUBE, inlet, hopper (included with Part	1
		15)	
18		CLIP, hose (all AA packages), see	7
		page 52 for packages of 10	
19		O-RING, hopper (included with Part 15)	1
20	112133	SCREEN, hopper (included with Part	1
		15)	
21		ADAPTER, 3/4 in. to 1/2 in.,	1
		(LW025A only, included with Part 15)	
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with	
		Parts 49, 53, and 54)	
		Wall and stand mount	6
		Cart mount	4
26	105335	SCREW (stand mount only)	1
37	166846	ADAPTER, for whip hose	1
41	256425	VALVE, drain, stainless steel (if	1
		equipped, includes Parts 44 and 45)	
44		COUPLING, hose, drain (included with	1
		Part 41)	
45		HOSE, drain (included with Part 41)	1
48	238909	GROUNDING WIRE assembly	1
49	24E883	BRACKET, air control, wall and stand	1
		mount only (includes Parts 16 and 23)	
53	289694	CART MOUNTING KIT; see page 48	1
		(G30Cxx models only)	
54	24A578	WALL MOUNTING KIT; see page 48	1
		(G30Wxx models only)	
55	24A577	STAND MOUNTING KIT; see page 48	1
		(G30Txx models only)	

---- Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

# **G36xxx Models**

This list includes all possible parts for G36xxx packages. See page 14 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, see Manual 312794	1
	W36DAS	M18LN0 x LW100A	
	W36DBS	M18LT0 x LW100A	
2		PANEL, air controls (includes Part 3b)	1
	24A583	pump only; see page 51	
	24A581	pump and gun; see page 49	
3a	24A576	DATATRAK, assembly; see manual 313541	1
3b		INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256421	cart mount packages	
	256423	wall mount packages	
5	181073	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7		FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA	1
		gun)	
9		HOSE, fluid (packages with gun)	1
	H42525	XTR 5 with RAC tip	
	24A446	G40 and G40 with RAC tip	
10		GUN	1
	XTR504	XTR 5 with RAC tip	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (packages with G40 gun)	1
12	AAMxxx	TIP OPTION (packages with G40 gun)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun, (all AA packages)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2

Ref.	Part	Description	Qty.
18		CLIP, hose (all AA packages), see	7
		page 52 for packages of 10	
22	239069	HOSE, whip (AA packages only)	1
23	111799	SCREW, M8 x 16 (included with	
		Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose (AA pack-	1
		ages only)	
41	256425	VALVE, drain, stainless steel (includes	1
		Parts 44 and 45)	
44		COUPLING, hose, drain (included with	1
		Part 41)	
45		HOSE, drain (included with Part 41)	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only	1
		(includes Parts 16 and 23)	
53	289694	CART MOUNTING KIT; see page 48	1
		(G36Cxx models only)	
54	24A578	WALL MOUNTING KIT; see page 48	1
		(G36Wxx models only)	

---- Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

# **G45xxx Models**

This list includes all possible parts for G45xxx packages. See page 15 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, see Manual 312794	1
	W45BAS	M12LN0 x LW050A	
	W45BBS	M12LT0 x LW050A	
2		PANEL, air controls (includes 3b)	1
	24A583	pump only, 100 psi; see page 51	
	24A581	pump and gun, 100 psi; see	
		page 49	
	24A582	pump and gun, 90 psi; see	
		page 49	
3a	24A576	DATATRAK, assembly; see manual	1
01		313541	
3b		INSERT, panel (included with Part 2)	1
4	0=0404	HOSE, suction (includes Part 5)	1
	256421	cart mount packages	
_	256423	wall mount packages	
5	181073	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7		FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA	1
_		gun)	
9	1140505	HOSE, fluid (packages with gun)	1
	H42525	XTR 5 with RAC tip	
40	24A446	G40 and G40 with RAC tip	
10	VTD 50.4	GUN	1
	XTR504	XTR 5 with RAC tip	
	24C855	G40	
4.4	24C857	G40 with RAC tip	
11	AAM413	TIP (packages with G40 gun)	1
12	AAMxxx	TIP OPTION (packages with G40 gun)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun, (all AA packages)	1
15	256410	HOPPER (includes Parts 17, 19, and 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with	2
		Parts 2 and 49)	

Ref.	Part	Description	Qty.
17		TUBE, inlet, hopper (included with Part 15)	1
18		CLIP, hose (all AA packages), see page 52 for packages of 10	7
19		O-RING, hopper (included with Part 15)	1
20	112133	SCREEN, hopper (included with Part 15)	1
22	239069	HOSE, whip (AA packages only)	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose (AA packages only)	1
38		SWITCH, reed (included with Part 3a)	1
39		SCREW, switch (included with Part 3a)	1
40		CLAMP, hose (included with Part 3a)	2
41	256425	VALVE, drain, stainless steel (includes Parts 44 and 45)	1
44		COUPLING, hose, drain (included with Part 41)	1
45		HOSE, drain (included with Part 41)	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; see page 48 (G45Cxx models only)	1
54	24A578	WALL MOUNTING KIT; see page 48 (G45Wxx models only)	1

<sup>----</sup> Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

# **G48xxx Models**

This list includes all possible parts for G48xxx packages. See page 16 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, see Manual 312794	1
	W48CAS	M18LN0 x LW075A	
	W48CBS	M18LT0 x LW075A	
2		PANEL, air controls (includes 3b, 16,	1
		30, and 31)	
	24A583	pump only, 100 psi; see page 51	
	24A584	pump and gun, 85 psi; see page 49	
3a	24A576	DATATRAK, assembly; see manual	1
Sa	24A376	313541	'
3b		INSERT, panel (Included with Part 2)	1
4	256423	HOSE, suction (includes Part 5)	1
5	181073	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7		FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA	1
		gun)	
9		HOSE, fluid (packages with gun)	1
	H52525	XTR 5 with RAC tip	
	24A446	G40 and G40 with RAC tip	
10		GUN	1
	XTR504	XTR 5 with RAC tip	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (packages with G40 gun)	1
12	AAMxxx	TIP OPTION (packages with G40 gun)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun (all AA packages)	1
15	256410	HOPPER (includes Parts 17, 19, and 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2

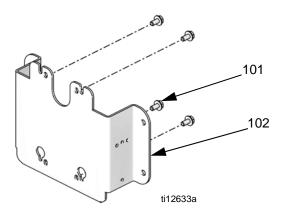
Ref.	Part	Description	Qty.
17		TUBE, inlet, hopper (included with Part 15)	1
18		CLIP, hose (all AA packages), see page 52 for packages of 10	7
19		O-RING, hopper (included with Part 15)	1
20	112133	SCREEN, hopper (included with Part 15)	1
22	239069	HOSE, whip (AA packages only)	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose (AA packages only)	1
41	256425	VALVE, drain, stainless steel (includes Parts 44 and 45)	1
44		COUPLING, hose, drain (included with Part 41)	1
45		HOSE, drain (included with Part 41)	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; see page 48 (G48Cxx models only)	1
54	24A578	WALL MOUNTING KIT; see page 48 (G48Wxx models only)	1

---- Not sold separately.

**NOTE:** Replacement Warning labels, signs, tags, and cards are available at no cost.

# **Kits**

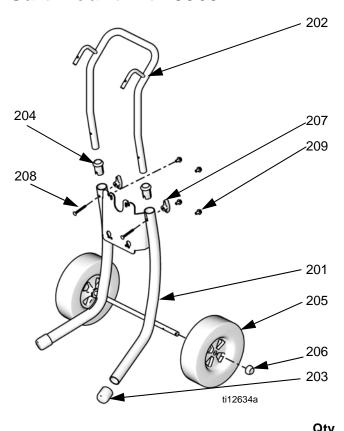
#### **Wall Mount Kit 24A578**



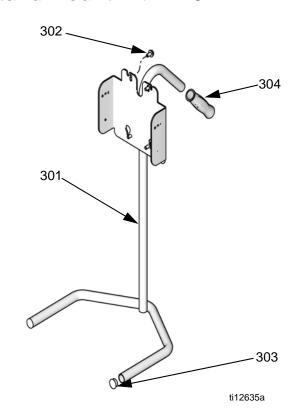
		Qty
Ref.	Description	
101	SCREW, cap, M8 x 1.25	4
102	PLATE, wall mount	1

**NOTE:** Air Control Mounting Kit 24E883 (see page 52) also is required for wall mounting a package that has a control panel.

# Cart Mount Kit 289694



#### **Stand Mount Kit 24A577**

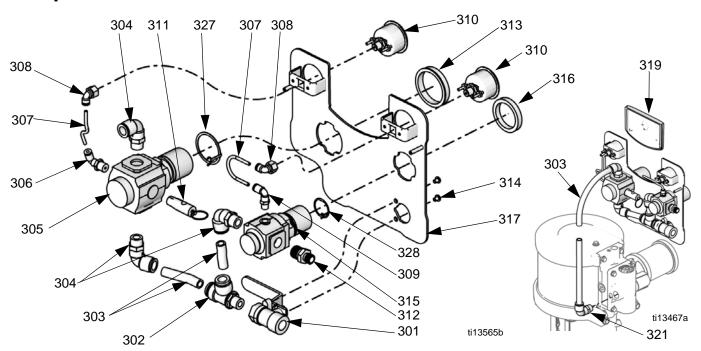


			Qιy
Ref.	Part	Description	
201		CART, frame	1
202		HANDLE, cart	1
203	15C871	CAP, leg	2
204		SLEEVE, cart handle	2
205	119451	WHEEL, semi-pneumatic	2
206	119452	CAP, hub	2
207	115480	KNOB, t-handle	2
208	116630	SCREW, carriage	2
209	111799	SCREW, cap, M8 x 1.25	4

			Qty
Ref.	Part	Description	
301		FRAME	1
302	111799	SCREW, cap, M8 x 1.25	4
303	105521	PLUG, tubing	2
304	108063	GRIP, handle	1

**NOTE:** Air Control Mounting Kit 24E883 (see page 52) also is required for stand mounting a package that has a control panel.

# **Pump and Gun Control Panel Kits**



#### M12xxx and M18xxx air motors

#### Kits 24A581, 24A582, and 24A584

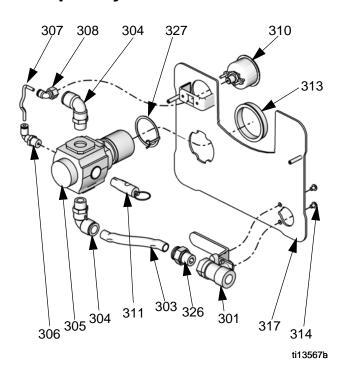
#### M02xxx and M04xxx air motors

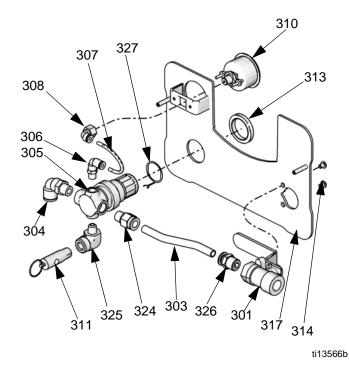
Kit 24A585

1110 2 17 100 1, 2 17 100 2, and 2 17 100 1			Tut 2 17 1000				
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
301		VALVE, ball	1	301	114362	VALVE, ball, 3/8-18 npt(f)	1
302	15T643	SWIVEL, tee, 3/8 npt(m) x 1/2T	1	302		SWIVEL, tee	1
303		TUBE, 1/2 OD, cut to fit,	1.3 ft.	303		TUBE, 3/8 OD, cut to fit,	1.3 ft.
004	101010	order Tubing Kit 24D496	•			order Tubing Kit 24D496	
304		ELBOW, swivel, 1/2T x 3/8 npt(m)	3	304	121141	ELBOW, swivel, 3/8T x 1/4 npt(m)	3
305		REGULATOR, air, pump, 3/8 npt	1	305	15T499	REGULATOR, air, pump, 1/4 npt	1
306		ELBOW, swivel, 5/32 T x 1/4 npt	1	306	15T866	ELBOW, swivel, 5/32T x 1/8 npt	1
307*		TUBE, black, cut to fit, order Tubing Kit 24D496	4 in.	307		TUBE, black, cut to fit,	4 in.
308	15T/08	SWIVEL, 90°, 5/32T x 1/8 npt(f)	2			order Tubing Kit 24D496	
309		ELBOW, swivel, 5/32T x 1/8 npt	1	308	15T498	SWIVEL, 90°, 5/32T x 1/8 npt(f)	2
310		GAUGE, pressure	2	309		ELBOW, swivel, 5/32T x 1/8 npt	1
311		VALVE, safety	1	310		GAUGE, pressure	2
•	113498	Kit 24A581	•	311		VALVE, safety	1
		Kit 24A582		312		ADAPTER, 1/4 nps(m) x 1/4 npt	1
	120306	Kit 24A584		313		NUT, regulator	2
312	164672	ADAPTER	1	314		SCREW, cap, button head	2
313	15T538	NUT, regulator	1	315		REGULATOR, air, gun, 1/4 npt	1
314	114381	SCREW, cap, button head	2	316		NUT, regulator	1
315		REGULATOR, air, gun, 3/8 npt	1	317		PANEL	1
316	116514	NUT, regulator	1				1
317		PANEL	1	318		LABEL, panel (not shown)	1
318		LABEL, panel (not shown)	1	319	405000	INSERT	1
319	405000	INSERT	1	320	105332	NUT, lock (not shown)	2
320		NUT, lock (not shown)	2				
321		ELBOW, 1/2T x 1/2 npt	1				
322		COVER, lens, 12 sticker sheet (not	Т				
327	2/1021/	shown), order Kit 24A540 for 5 sheets RING, grounding	1				
328		RING, grounding	1				
320	271 013	raise, grounding	'				

Ref.	Part	Description	Qty.
321	121141	ELBOW, 3/8T x 1/4 npt(m)	1
322		COVER, lens, 12 sticker sheet (not	1
		shown), order Kit 24A540 for 5 sheets	
323		ELBOW, 1/4 npt(f) x 1/8 npt(m)	1
327	24P812	RING, grounding	1
328	24P812	RING, grounding	1

# **Pump Only Control Panel Kits**





#### Kit 24A583

# M07xxx, M12xxx, and M18xxx air motors

#### M02xxx and M04xxx air motors

Kit 24A586

	., 1000				,		
	Part	<b>Description</b> VALVE, ball	Qty.			<b>Description</b> VALVE, ball	Qty.
303		TUBE, 1/2 OD, cut to fit,	1.5 ft.			TUBE, 3/8 OD, cut to fit,	1.3 ft.
505		order Tubing Kit 24D496	1.0 11.	505		order Tubing Kit 24D496	1.0 11.
304	121212	ELBOW, swivel, 1/2T x 3/8 npt(m)	2	304	121141	ELBOW, swivel, 3/8T x 1/4 npt(m)	1
		REGULATOR, air, 3/8 npt	1			REGULATOR, air, 1/4 npt	1
306		ELBOW, swivel, 5/32 T x 1/4 npt	1			ELBOW, swivel, 5/32T x 1/8 npt	1
307		TUBE, black, cut to fit,	5 in.			TUBE, black, cut to fit,	4 in.
001		order Tubing Kit 24D496	0	007		order Tubing Kit 24D496	
308		SWIVEL, 90°, 5/32T x 1/8 npt(f)	1	308	15T498	SWIVEL, 90°, 5/32T x 1/8 npt(f)	1
		GAUGE, pressure	1			GAUGE, pressure	1
		VALVE, safety	1			VALVE, safety	1
		NUT, regulator	1			NUT, regulator	1
		SCREW, cap, button head	2			SCREW, cap, button head	2
317		PANEL	1			PANEL	1
318		LABEL, panel (not shown)	1			LABEL, panel (not shown)	1
319		INSERT (see inset illustration on	1			INSERT (see inset illustration on	1
		page 49)				page 49)	
320	105332	NUT, lock (not shown)	2	320	105332	NUT, lock (not shown)	2
321		ELBOW, 1/2T x 1/2 npt (see inset	1			ELBOW, swivel, 3/8T x 1/4 npt(m)	1
		illustration on page 49)				(see inset illustration on page 49)	
322		COVER, lens, 12 sticker sheet (not	1	322		COVER, lens, 12 sticker sheet (not	1
		shown), order Kit 24A540 for 5				shown), order Kit 24A540 for 5	
		sheets				sheets	
326		FITTING, straight, 1/2T x 3/8 npt(m)	1	324		FITTING, straight, 3/8T x 1/4 npt(m)	1
		RING, grounding	1			ELBOW, 1/4 npt(f) x 1/8 npt(m)	1
						FITTING, straight, 3/8T x 3/8 npt(m)	1
				327	24P812	RING, grounding	1

#### **DataTrak**

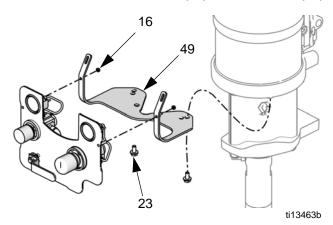
**NOTE:** See DataTrak manual, 313541, for all DataTrak related part numbers and kit information, including the reed switch and solenoid.

## **Hopper Kit 256410**

Includes hopper (15), inlet tube (17), o-ring (19), screen (20), and fitting (21, 25cc pumps only).

## Air Control Mounting Kit 24E883, Wall and Stand

Kit 24E883 includes bracket (49), two hex nuts (16), and two screws (23). Use either set of mounting holes.



#### 5-Gallon Suction Hose Kits

Includes suction hose (4) and strainer (5).

Kit	Packages	Wall/Cart
256420	10:1, 15:1, 30:1 M02xxx and	Both
	M04xxx air motors only	
256421	23:1, 30:1 (M12xxx X L075xx),	Cart
	36:1, 45:1, 48:1	
256422	15:1 (M12xxx X L150xx), 18:1,	Cart
	24:1, 28:1	
256423	23:1, 30:1 (M12xxx X L075xx),	Wall
	36:1, 45:1, 48:1	
256424	15:1 (M12xxx X L150xx), 18:1,	Wall
	24:1, 28:1	

256426 - Package of 10 strainers (5) for Kit 256420.

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 312797

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

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#### 55-Gallon Suction Hose Kits

Includes suction hose, bung adapter, and strainer.

24A954 - 3/4 in. hose

24B598 - 1 in. hose

#### **PTFE Suction Hose Kits**

For pumping acid materials that are compatible with PTFE. Includes suction hose, swivel, and strainer.

Kit	Description	Wall/Cart
24B337	3/4 in. hose, PTFE lined, with swivel elbow	Cart
24B338	1 in. hose, PTFE lined, with swivel elbow	Cart
24B424	3/4 in. hose, PTFE lined, with straight swivel	Wall
24B425	1 in. hose, PTFE lined, with straight swivel	Wall
24J315	3/8 in. hose, 1/2 in. connection, PTFE lined, with straight swivel	Wall or Cart*

<sup>\*</sup> Cart mount requires separate fitting, Part Number 114874.

#### **Drain Valve Kit 256425**

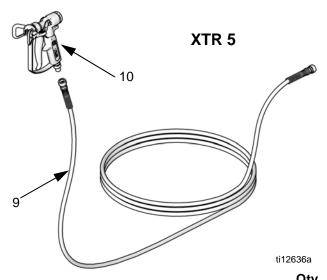
Includes drain valve (41), coupling (44), and hose (45).

# **Reinforced PTFE V-Packing Kits**

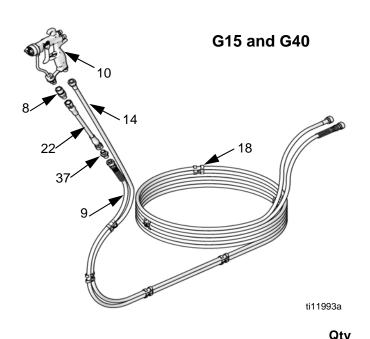
**NOTE:** See manual 312792 for information related to optional kits with reinforced PTFE seals for use with materials that cause chemical compatibility concerns with UHMWPE, such as acid catalyst materials.

#### **Guns and Hoses**

To find the correct parts for your model, locate the gun you have. The correct hoses and related parts are listed in the table below each gun.



			Qty
Ref.	Part	Description	
9		HOSE, fluid	1
	241812	G10xxx-G30xxx; exceptions listed	
		next in this table; 25 ft (7.6 m), 3300	
		psi (22.7 MPa, 227 bar) maximum	
		working pressure	
	H52525	G30W57-G30W60, G48xxx; 25 ft	
		(7.6 m), 5600 psi (38.6 MPa, 386	
		bar) maximum working pressure	
	24B562	G30C13 and G30C57; 50 ft (15.2 m),	
		3300 psi (22.7 MPa, 227 bar) maxi-	
		mum working pressure	
	H42525	G36xxx-G45xxx; 25 ft (7.6 m); 4500	
		psi (30.1 MPa, 310 bar) maximum	
		working pressure	
10		GUN, XTR	1
	XTR504	GUN, XTR with RAC tip	1



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Ref.	Part	Description	
8	189018	SWIVEL, fluid hose	1
9		HOSE, fluid	1
	241812	G10xxx-G30xxx, 25 ft (7.6 m), 3300	
		psi (22.7 MPa, 227 bar) maximum	
		working pressure	
	24A446	G36xxx-G48xxx, 23 ft (7 m); 4100	
		psi (28.3 MPa, 283 bar) maximum	
		working pressure	
10		GUN, G40	1
	24C857	GUN, G40 with RAC tip	1
	24C853	GUN, G15	1
11	AAM413		1
12	AAMxxx	TIP, option, see gun manual	1
14	256390	HOSE, air	1
18		CLIP, hose; order Kit 24A588 for	7
		package of 10	
22	239069	HOSE, whip (G36xxx-G48xxx	1
		packages only)	
37	166846	ADAPTER, for whip hose	1

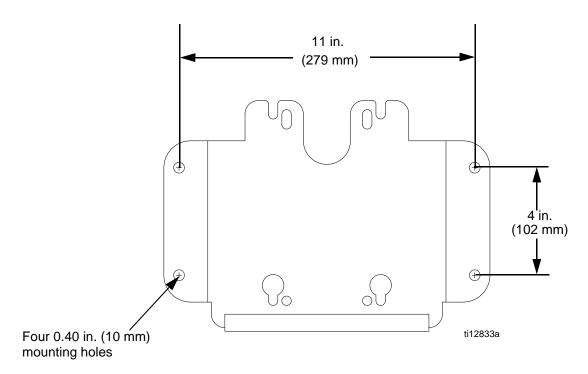
# 50-Foot Air/Fluid Hose Kit 24A955

Optional 50-foot coupled fluid/air hose with 20 clips. Use with G10xxx-G30xxx models only (3300 psig maximum fluid working pressure).

#### 50-Foot Fluid Hose 24A413

Optional 50-foot hose, 5600 psi (38.6 MPa, 386 bar) maximum working pressure.

# **Wall Bracket Mounting Dimensions**



# **Technical Data**

Maximum fluid working pressure	, <del>-</del>
Maximum gun air inlet pressure	100 psi (0.7 MPa, 7.0 bar)
Ratio	See <b>Models</b> table on page 7.
Air inlet size	3/8-18 npt(f)
Ambient air temperature range	35°F-120°F (2°C-49°C)
Maximum fluid temperature	160°F (71°C)
Sound data	
	Spray gun: See Manual 3A0149 (AA guns) or Manual 312145 (XTR guns).
	Fluid hoses: nylon
	Suction assembly: stainless steel, nylon

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Fluid filter: See manual 307273.

Drain valve: stainless steel, nylon

# **Package Weights**

	Weight in lb (kg)				
Ratio, Motor, Displacement Pump	Mounted Pump*	Mounted pump* + siphon kit	Mounted pump + siphon kit + fluid filter	Mounted pump* + siphon kit or hopper + gun and	Mounted pump* + siphon kit or hopper + gun and hoses + fluid filter
Cart Mount	Fullip	Sipilon Kit	Hulu Hitei	hoses	nuia miei
10:1, M04xxx, LW075A	68 (31)	69 (32)		76 (35)	81 (37)
15:1, M02xxx, LW025A	53 (24)	54 (25)		62 (29)	67 (31)
15:1, M04xxx, LW050A	66 (30)	67 (31)		75 (34)	79 (36)
15:1, M12xxx, LW150A	100 (45)	103 (47)	109 (49)	75 (34)	113 (51)
18:1, M12xxx, LW125A	100 (45)	103 (47)	109 (49)		113 (51)
23:1, M12xxx, LW100A	98 (45)	104 (47)	109 (49)		113 (51)
24:1, M18xxx, LW150A	102 (46)	101 (40)	111 (50)		116 (53)
28:1, M18xxx, LW125A	102 (46)		111 (50)		116 (53)
30:1, M04xxx, LW025A	60 (28)	61 (28)		68 (31)	73 (34)
30:1, M12xxx, LW075A	94 (43)	98 (45)	104 (47)		108 (49)
36:1, M18xxx, LW100A	100 (45)	90 (43)	104 (47)		114 (52)
45:1, M12xxx, LW050A	92 (42)	96 (43)	100 (49)	101 (46)	106 (48)
48:1, M18xxx, LW075A	97 (44)		105 (48)	106 (48)	110 (50)
Wall Mount	37 (44)		100 (40)	100 (40)	110 (00)
10:1, M04xxx, LW075A	42 (19)	43 (20)		48 (22)	53 (24)
15:1, M02xxx, LW025A	27 (12)	28 (13)		33 (15)	38 (17)
15:1, M04xxx, LW050A	40 (18)	41 (19)		46 (21)	51 (23)
15:1, M12xxx, LW150A	73 (33)	41 (19)	81 (37)	40 (21)	86 (39)
18:1, M12xxx, LW125A	72 (33)		81 (37)		86 (39)
23:1, M12xxx, LW100A	70 (32)		78 (35)		83 (38)
24:1, M18xxx, LW150A	76 (35)		84 (38)		89 (40)
28:1, M18xxx, LW125A	75 (34)		83 (38)		87 (39)
30:1, M04xxx, LW025A	34 (15)	35 (16)		40 (18)	44 (20)
30:1, M12xxx, LW075A	67 (30)	33 (10)	75 (34)	40 (16)	80 (36)
36:1, M18xxx, LW100A	73 (33)		81 (37)		87 (39)
45:1, M12xxx, LW050A	65 (29)		73 (33)		80 (36)
48:1, M18xxx, LW075A	70 (32)		78 (35)		84 (38)
Stand Mount	10 (02)		70 (00)		04 (30)
15:1, M02xxx, LW025A	29 (13)	30 (14)		36 (16)	41 (19)
30:1, M04xxx, LW025A	36 (16)	37 (17)		43 (20)	48 (22)
15:1, M04xxx, LW050A	42 (19)	43 (20)		49 (22)	54 (25)

<sup>\*</sup> Includes air controls.

<sup>----</sup> This component configuration is not offered for these models.

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