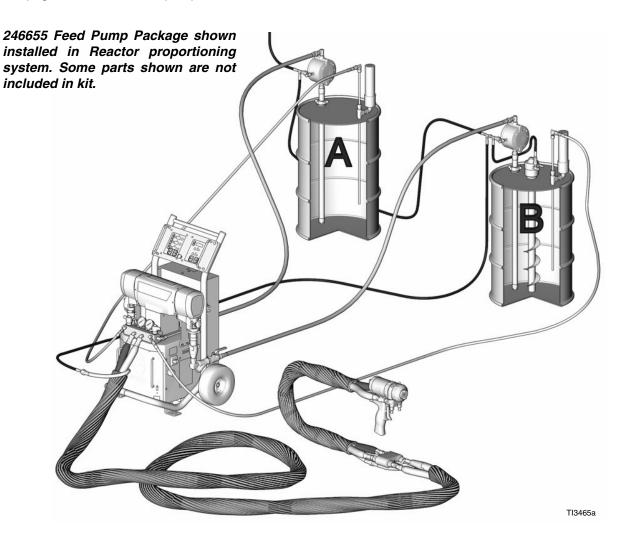


Feed Pump Kits

309815 , Rev. A

Supply polyurethane materials from 55 gal. (200 liter) drums to Reactor™ Proportioner

See page 2 for a list of feed pump kits.



PROVEN QUALITY. LEADING TECHNOLOGY.

Contents

Feed Pump Kits 2	Maintenance	11
Related Manuals3	Parts	12
Manual Conventions 3	Complete Feed Pump Packages	12
Warning	Fluid Supply Kits	13
Installation 6	Pump Kits	14
Husky 1040 Wall Mount9	246419 Riser Tube Kit	16
Standard 2:1 Kit9	Technical Data	17
Operation	Graco Standard Warranty	18
Startup11	Graco Information	18
Shutdown 11		
Changing Drums 11		

Feed Pump Kits

Complete Package (fluid and air)	Pump Kit (1 pump and riser tube)	Pump Model	Maximum Air Input Pressure	Maximum Fluid Working Pressure
246369	246366	Husky™ 515	100 psi (0.7 MPa, 7 bar)	100 psi (0.7 MPa, 7 bar)
246375	246367	Husky™ 716	100 psi (0.7 MPa, 7 bar)	100 psi (0.7 MPa, 7 bar)
246376	246368	Husky [™] 1040	120 psi (0.8 MPa, 8 bar)	120 psi (0.8 MPa, 8 bar)
246655	246654	Triton™ 308	115 psi (0.8 MPa, 8 bar)	115 psi (0.8 MPa, 8 bar)
246081	226040	Standard 2:1	180 psi (1.2 MPa, 12.5 bar)	360 psi (2.5 MPa, 25 bar)

Related Manuals

The following manuals are shipped with feed pump kits. Refer to these manuals for detailed equipment information.

Feed Pumps			
Part No.	Description		
308981	Husky 515 Pump		
308981	Husky 716 Pump		
308479	Husky 1040 Pump		
309303	Triton 308 Pump		
307026	Standard 2:1 Pump		

The following manuals are shipped with Reactor[™]. Refer to these manuals for detailed equipment information.

Reactor Electric Proportioner			
Part No.	Description		
309551	Reactor Electric Proportioner, Operation Manual (English)		
309574	Reactor Electric Proportioner, Repair-Parts Manual (English)		

The following manual is shipped with Fusion[™] spray gun. Refer to this manual for detailed equipment information.

Fusion Spray Gun		
Part No.	Description	
309550	Instruction Manual (English)	

Manual Conventions

Warning



A warning alerts you to possible serious injury or death if you do not follow instructions.

Symbols, such as fire, explosion, and electric shock (shown), alert you to a specific hazard and direct you to read the indicated hazard warnings on pages 4-5.

Caution

⚠ CAUTION

A caution alerts you to possible equipment damage or destruction if you do not follow instructions.

Note



A note indicates additional helpful information.

M WARNING



FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD

Solvent and 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 and plastic drop cloths (potential static arc).
- Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
- Keep the work area free of debris, including solvent, rags, and gasoline.
- Ground equipment and conductive objects. See Ground system, page 8.
- Hold gun firmly to side of grounded pail when triggering into pail.
- Use only grounded hoses.
- If there is static sparking or you feel a shock, **stop operation immediately.** Do not use equipment until you identify and correct the problem.
- To avoid chemical reaction and explosion, do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment.



EQUIPMENT MISUSE HAZARD

Misuse can cause serious injury or death.

- For professional use only.
- Use equipment only for its intended purpose. Call your Graco distributor for information.
- Read manuals, warnings, tags, and labels before operating equipment. Follow instructions.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not alter or modify equipment. Use only Graco parts and accessories.
- 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.
- 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.



BURN HAZARD

This equipment is used with heated fluid, which can cause equipment surfaces to become very hot. To avoid severe burns:

- Do not touch hot fluid or equipment.
- Allow equipment to cool completely before touching it.
- Wear gloves if fluid temperature exceeds 110°F (43°C).

MARNING



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 Material Safety Data Sheet (MSDS) 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 proper 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; and hearing loss. This equipment includes but is not limited to:

- Protective eyewear.
- Gloves, clothing, and respirator as recommended by the fluid and solvent manufacturer.
- Hearing protection.

Installation



For Husky 1040 Wall Mount Kit 246368, see page



For Standard 2:1 Kit 246081, see page 9.

Flush pumps before using



Feed pumps are tested with oil. Flush out oil with a compatible solvent before spraying. See Flushing in Reactor operation manual.



Read warnings, page 4. Flush equipment only in a well-ventilated area. Do not spray flammable fluids. Do not turn on heaters while flushing with flammable solvents.

2. Keep A and B components separate



⚠ CAUTION

To prevent cross-contamination of fluid, mark A component (ISO) pumps, hoses, and connections with red tape. Mark B component (RES) pumps, hoses, and connections with blue tape. Do not interchange or cross-connect A component and B component parts.

Position drums

Place component A (ISO) and component B (RES) drums as desired. Air hose (C) connecting feed pumps is 15 ft (4.57 m) long. See Fig.

4. Install pump kit (101)

a. Inspect bung o-ring (309) and gasket (303) in place. If either is worn or damaged, or if ISO shows signs of crystallization, replace. See page 16.



CAUTION

Lubricate bung o-ring (309) with 217374 ISO Pump Oil each time you change drums. This keeps air and moisture from reacting with isocyanate and allows bung adapter to rotate freely.

> b. Open drum bung hole.



⚠ CAUTION

Tighten pump clamps and external fasteners before first use. See pump manual.

> C. Place riser tube into drum. Tighten bung adapter (304) securely.

246655 Package shown installed in Reactor proportioning system. Includes * parts only.

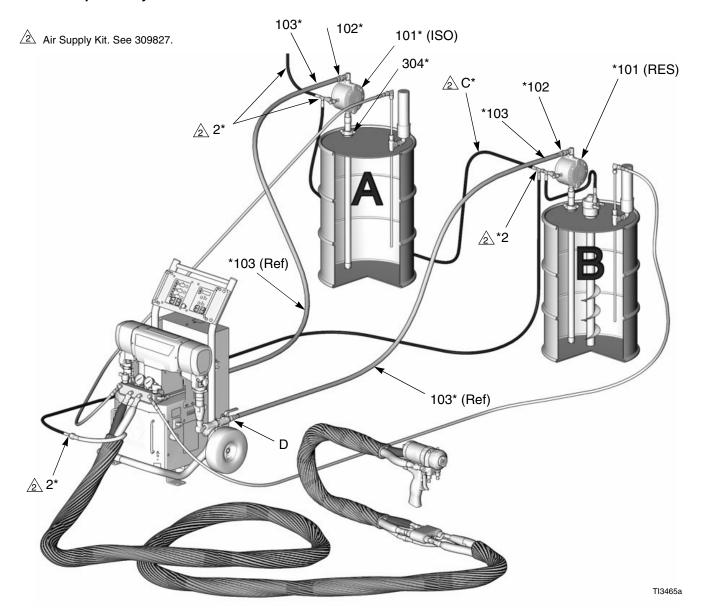
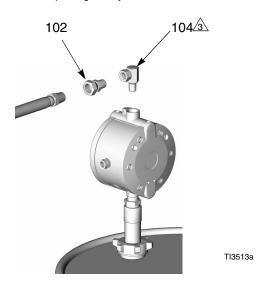


Fig. 1. Installation

5. Connect fluid supply kit 7. Ground system

a. Install swivel union (102) in pump fluid outlet. Triton 308 only: Install 90° elbow (104) in pump outlet, then install swivel union (102) in elbow.

Used on Triton 308 packages only.



b. Connect hose (103) between swivel union (102) and Reactor swivel inlet (D). See Fig. 1.

6. Install air supply kit (2)

- a. Supply clean, dry, filtered air to feed pumps.
- b. See manual 309827 to install air supply kit.



- a. Feed pump: follow instructions in separate feed pump manual, supplied.
- b. Reactor: see Reactor operation manual.
- C. Spray gun: see gun manual.
- d. Fluid supply containers: follow your local code.
- e. Object being sprayed: follow your local code.
- f_ Solvent pails used when flushing: follow your local code. Use only metal pails, which are conductive, placed on a grounded surface. Do not place pail on a nonconductive surface, such as paper or cardboard, which interrupts grounding continuity.
- g. To maintain grounding continuity when flushing or relieving pressure, hold a metal part of spray gun firmly to the side of a grounded *metal* pail, then trigger gun.

Husky 1040 Wall Mount

- Be sure wall can support weight of pump, hoses, and accessories, and can withstand stress during operation.
- Position wall bracket (204) no more than 5 ft (1.52 m) above floor. Check that bracket is level. Attach to wall, using screws long enough to keep bracket from vibrating. See Fig. 2.
- 3. Connect swivel union (205) to pump inlet.
- 4. Install bushing (3) in pump air inlet.
- 5. Install pump (201) on bracket (204) securely, using screws (211), washers (210), and nuts (212).
- 6. Connect elbow (206) to top of riser tube kit (202).
- 7. Connect suction hose (203) to elbow (206) and inlet swivel (205).
- 8. Follow steps 1-7, pages 6-8, to finish installation.

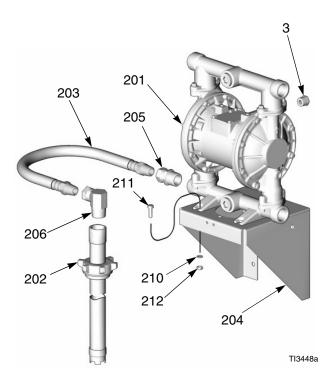


Fig. 2. Husky 1040 Wall Mount

Standard 2:1 Kit

- 1. Follow steps 1-3, page 6.
- 2. Open drum bung hole. Screw pump into bung hole and tighten locknut (L); see pump manual 307026.
- 3. Install nipple (5) in pump fluid outlet. See Fig. 3.
- 4. Screw swivel union (4) onto nipple (5).
- 5. Connect hose (3) between swivel union (4) and Reactor swivel inlet (D, see Fig. 1).
- 6. Follow steps 6-7, page 8, to finish installation.

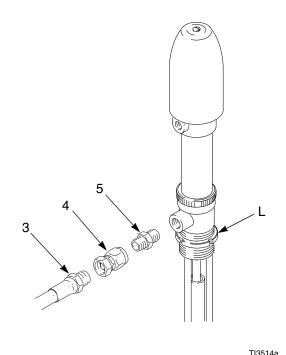


Fig. 3. Standard 2:1 Kit

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Operation

Startup

- 1. See Load fluid with feed pumps in Reactor operation manual.
- 2. Open feed pump air regulator.
- 3. Open feed pump bleed-type master air valve.
- 4. Adjust air to feed pump with needle valve.



Cold, viscous material may be difficult to prime. Use needle valve to reduce air flow to motor.

Do not plug or shut off pump fluid outlet when priming. Fluid must be free to flow through pump to prime.

To increase pump flow rate and reduce icing, remove pump muffler. This will increase exhaust noise.

5. Never let pump run when drum is empty. A dry pump can accelerate and damage itself. If pump is running too fast, stop it immediately. Check and refill fluid supply, or flush with compatible solvent. Always prime entire system to remove any air. Do not let material harden in pump.

Shutdown

See Shutdown and Pressure Relief Procedure in Reactor manual. Close feed pump bleed-type master air valve.

Changing Drums

CAUTION

To prevent cross-contamination of fluid when changing drums, complete changing one component before changing second component.

- 1. See Shutdown above.
- Remove riser tube from drum. Install in new drum, page 6.
- 3. Lubricate bung o-ring (309), page 6.
- 4. See Load fluid with feed pumps in Reactor operation manual.

Maintenance



See supplied pump manual for maintenance, repair, and parts information.

Lubricate bung o-ring (309) with 217374 ISO Pump Oil each time you change drums. This keeps air and moisture from reacting with ISO.

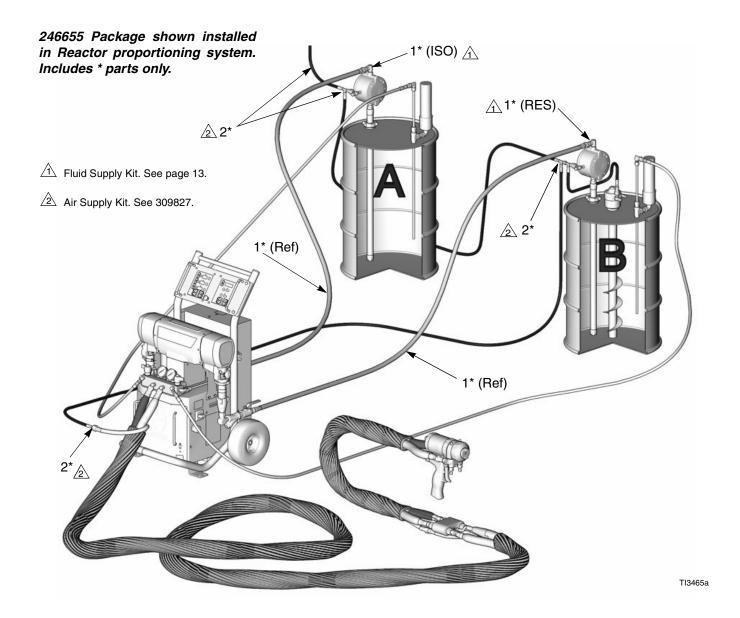
Whenever pump is removed from drum, inspect bung o-ring (309) and gasket (303) in place. If either is worn or damaged, or if ISO shows signs of crystallization, replace. See page 16.

Tighten pump clamps and external fasteners periodically. See pump manual.

Parts

Complete Feed Pump Packages

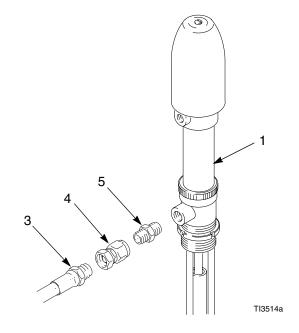
Part No. 246369, Husky 515 Package Ref. No. Part No. Description Qty Part No. 246375, Husky 716 Package 246481 FLUID SUPPLY KIT, Husky 515 246482 FLUID SUPPLY KIT, Husky 716 246676 FLUID SUPPLY KIT, Husky 1040 246677 FLUID SUPPLY KIT, Triton 308 Part No. 246376, Husky 1040 Package 246483 AIR SUPPLY KIT; see 309827 Part No. 246655, Triton 308 Package 100206 BUSHING, air inlet; 1/2 npt(m) x 1/4 npt(f); 246376 only; see page 15 for (shown) location



Complete Feed Pump Packages, continued

Part No. 246081, Standard 2:1 Package

Ref.			
No.	Part No.	Description	Qty
1	226040	PUMP, Standard 2:1; see 307026	2
2	246483	AIR SUPPLY KIT; see page 12 and 309827	1
3	217382	HOSE, fluid; 3/4 npt (mbe); 3/4 in. (19 mm) ID; 10 ft (3.05 m); nylon	2
4	203828	UNION, adapter, swivel; 1/2 npt(f) x 3/4 nps(f)	2
5	158491	NIPPLE; 1/2 npt	2



Fluid Supply Kits

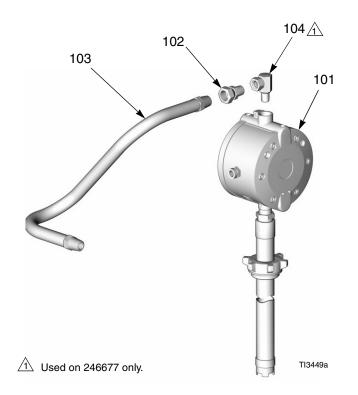
Part No. 246481, Husky 515 Kit

Part No. 246482, Husky 716 Kit

Part No. 246676, Husky 1040 Kit

Part No. 246677, Triton 308 Kit (shown)

Ref.			
No.	Part No.	Description	Qty
101	246366	PUMP KIT, Husky 515; 246481	2
	246367		2
	246368	PUMP KIT, Husky 1040; 246676	2
	246654	PUMP KIT, Triton 308; 246677	2
102	157785	UNION, swivel; 3/4 npt(m) x 3/4	2
		npsm(f); 246481 and 246482	
	202965	ÚNIOŇ, swivel; 1 in. npt(m) x 3/4	2
		npsm(f); 246676	
	113344	UNION, swivel; 1/2 npt(m) x 3/4	2
		npsm(f); 246677	
103	217382	HOSE, fluid; 3/4 npt (mbe); 3/4 in.	2
		(19 mm) ID; 10 ft (3.05 m); nylon	
104	217430	ELBOW, swivel; 90°; 3/8 npt(m) x	2
		1/2 npsm(f); 246677 only	



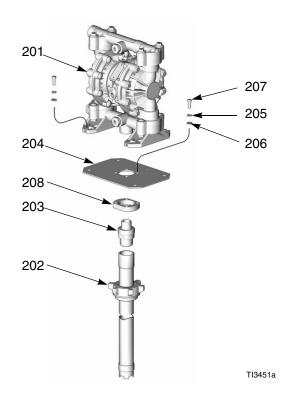
Pump Kits

Part No. 246366, Husky 515 Pump

Part No.	Description	Qty
246484	PUMP, Husky 515; see 308981 and read CAUTION below	1
246419	RISER TUBE KIT; see page 16	1
15C257	NIPPLE, reducing; 1 in. npt x 3/4	1
	npt	
196093	PLATE, mounting	1
100086	WASHER, plain; 3/16	8
		8
100022	SCREW, cap, hex hd; 1/4-20 x 3/4	8
15C258	NUT, jam	1
	246484 246419 15C257 196093 100086 100016 100022	read CAUTIÓN below 246419 RISER TUBE KIT; see page 16 15C257 NIPPLE, reducing; 1 in. npt x 3/4 npt 196093 PLATE, mounting 100086 WASHER, plain; 3/16 100016 WASHER, lock; 1/4 100022 SCREW, cap, hex hd; 1/4-20 x 3/4 in. (19 mm)

A CAUTION

246484 Husky 515 Pump is built specifically for use with isocyanates. To order replacement parts and repair kits only, refer to the parts list for Model D51331 in manual 308981. However, never replace pump 246484 with D51331; D51331 is tested in water, which will react with isocyanates.

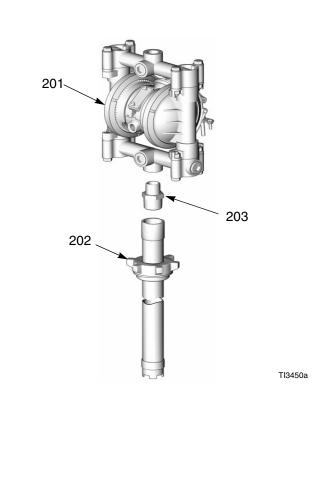


Part No. 246367, Husky 716 Pump

Ref.			
No.	Part No.	Description	Qty
201	246485	PUMP, Husky 716; see 308981 and read CAUTION below	1
202	246419	RISER TUBE KIT; see page 16	1
203	158555	NIPPLE, reducing; 1 in. npt x 3/4 npt	1

A CAUTION

246485 Husky 716 Pump is built specifically for use with isocyanates. To order replacement parts and repair kits only, refer to the parts list for Model D53331 in manual 308981. However, never replace pump 246485 with D53331; D53331 is tested in water, which will react with isocyanates.

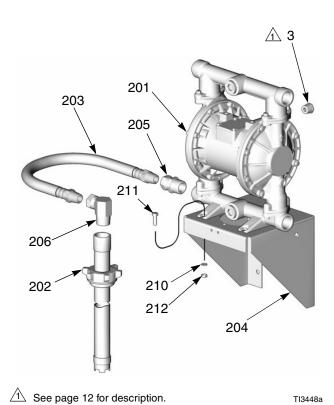


Part No. 246368, Husky 1040 Pump

Ref.			
No.	Part No.	Description	Qty
201	246685	PUMP, Husky 1040; see 308479	1
		and read CAUTION below	
202	246419	RISER TUBE KIT; see page 16	1
203	214961	HOSE, suction; 3/4 npt (mbe);	1
		3/4 in. (19 mm) ID; 6 ft (1.8 m);	
		neoprene	
204	189233	BRACKET, wall	1
205	202965	UNION, swivel, pump inlet;	1
		1 in. npt(m) x 3/4 npsm(f)	
206	107409	ELBOW, swivel, riser tube; 90°;	1
		1 in. npt(m) x 3/4 npsm(f)	
210	100214	WASHER, lock; 5/16	4
211	100450	SCREW, cap, hex-hd; 5/16-18;	4
		1 in. (25 mm)	
212	111303	NUT, hex; 5/16-18	4

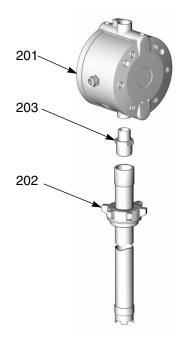
A CAUTION

246685 Husky 1040 Pump is built specifically for use with isocyanates. To order replacement parts and repair kits only, refer to the parts list for Model D73331 in manual 308479. However, never replace pump 246685 with D73331; D73331 is tested in water, which will react with isocyanates.



Part No. 246654, Triton 308 Pump

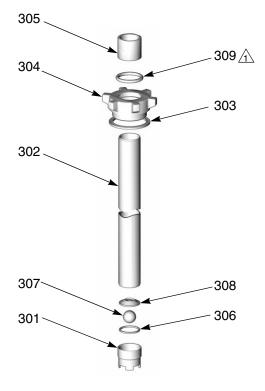
Ref.			
No.	Part No.	Description	Qty
201	233500	PUMP, Triton 308; see 309303	1
202	246419	RISER TUBE KIT; see page 16	1
203		NIPPLE, reducing; 1 in. npt x 3/4 npt	1



TI3447a

246419 Riser Tube Kit

Ref.			
No.	Part No.	Description	Qty
301	159101	HOUSING, valve, intake	1
302	156592	TUBE, riser	1
303	106537	GASKET, bung	1
304		ADAPTER, bung	1
305		FITTING; 1 in. npt	1
306	15B921	SPACER	1
307	100279	BALL	1
308	159100	RETAINER, ball	1
309	110831	O-RING	1



Lubricate with 217374 ISO Pump Oil each time you change drums.

TI3445a

Technical Data

Category	Data
Maximum air input pressure	Husky 515: 100 psi (0.7 MPa, 7 bar)
	Husky 716: 100 psi (0.7 MPa, 7 bar)
	Husky 1040: 120 psi (0.8 MPa, 8 bar)
	Triton 308: 115 psi (0.8 MPa, 8 bar)
	Standard 2:1: 180 psi (1.2 MPa, 12.5 bar)
Maximum fluid working pressure	Husky 515: 100 psi (0.7 MPa, 7 bar)
	Husky 716: 100 psi (0.7 MPa, 7 bar)
	Husky 1040: 120 psi (0.8 MPa, 8 bar)
	Triton 308: 115 psi (0.8 MPa, 8 bar)
	Standard 2:1: 360 psi (2.5 MPa, 25 bar)
Wetted parts	Pump: see supplied pump manual
	Riser tube: carbon steel
	Fluid hoses: nylon
	Suction hose (Husky 1040 only): neoprene
	Fittings: carbon steel

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 by an authorized Graco distributor to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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

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

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

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TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you:

1-800-367-4023 Toll Free 612-623-6921 612-378-3505 Fax

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