

## Split Manifold Kits

308439 rev.C

**Converts Husky™ 307 Diaphragm Pump to dual fluid inlet or outlet**

**Part No. 237210**

For Husky 307 Polypropylene Pumps

**Part No. 237211**

For Husky 307 Acetal Pumps



### **Important Safety Instructions**

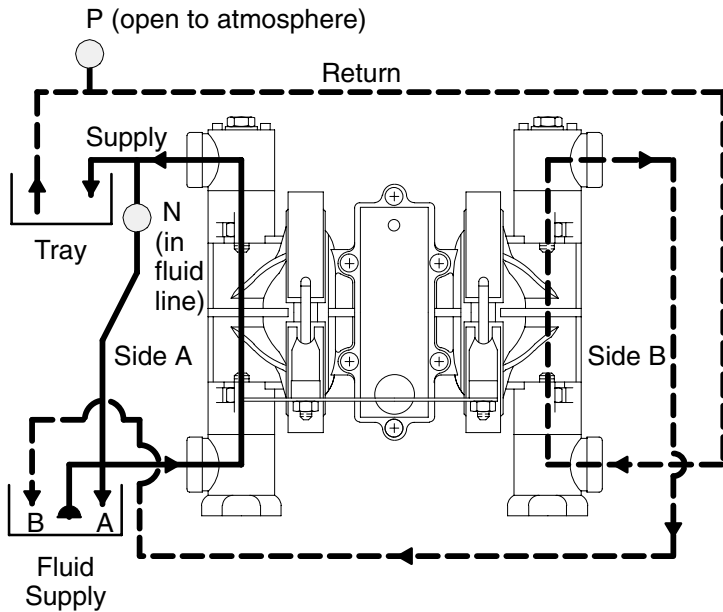
Read all warnings and instructions in the manual. Save these instructions.

# Installation

The Split Manifold Kit enables you to convert the Husky 307 Pump to a dual fluid inlet manifold, dual fluid outlet manifold, or both. See Figs. 1, 2, and 3 for some applications. To install the kit, see page 3.

**NOTE: To convert both the inlet and the outlet manifold, two kits are required.**

## TRAY FILL INSTALLATION Uses dual inlet and dual outlet manifolds.



### System Explanation

In this installation, fluid is drawn from the supply container into one of the manifold inlets. With the fluid needle valve (N) closed, the fluid is pumped through side A and out to the tray. Opening the air side needle valve (P) draws air into the fluid return line so less fluid is returned to the pump (side B) than is supplied to the tray.

To circulate the fluid, close valves P and N.

To lower the fluid level in the tray, close valve P and open valve N.

To raise the fluid level in the tray, close valve N and open valve P.

This is a basic system. Additional equipment such as solenoids and float valves can be used for automated systems. See your Graco representative for details.

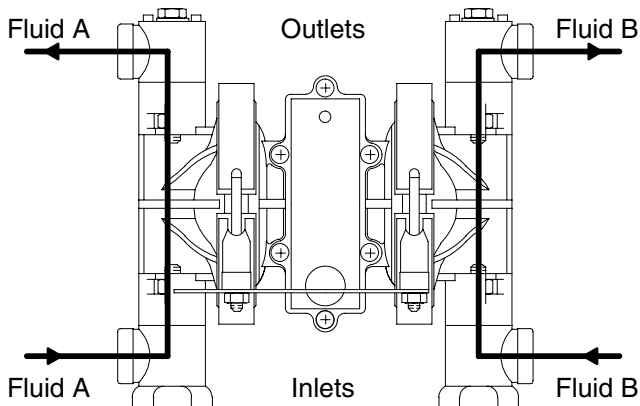
Fig. 1

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## TWO FLUIDS TO TWO DESTINATIONS Uses dual inlet and dual outlet manifolds.

### System Explanation

Supplies two fluids, such as two colors of ink, to two separate destinations. Use in installations where surging does not cause a problem.



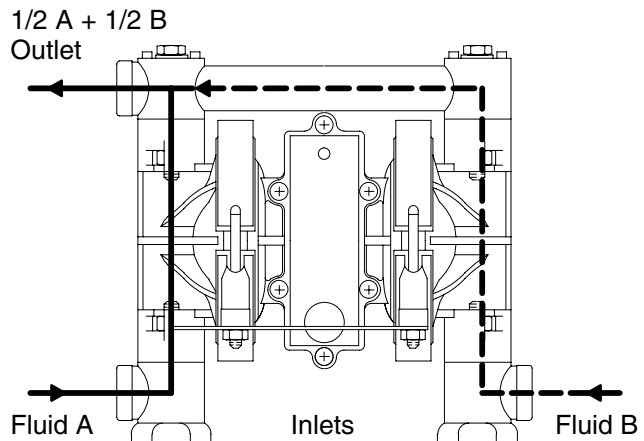
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Fig. 2

## 1:1 MIX RATIO (approximate) Uses dual inlet and single outlet manifolds.

### System Explanation

Mixes two fluids, such as antifreeze and water, in an approximate 1:1 ratio. Minimum fluid output should be in increments of 3 quarts to ensure an approximate 1:1 ratio. Lower output quantities may result in an unequal mix ratio.



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Fig. 3

# Installation

## Installation Procedure



### WARNING

#### Pressure Relief Procedure

To reduce the risk of serious injury, including splashing fluid or solvent in the eyes or on the skin, follow this procedure before installing this kit.

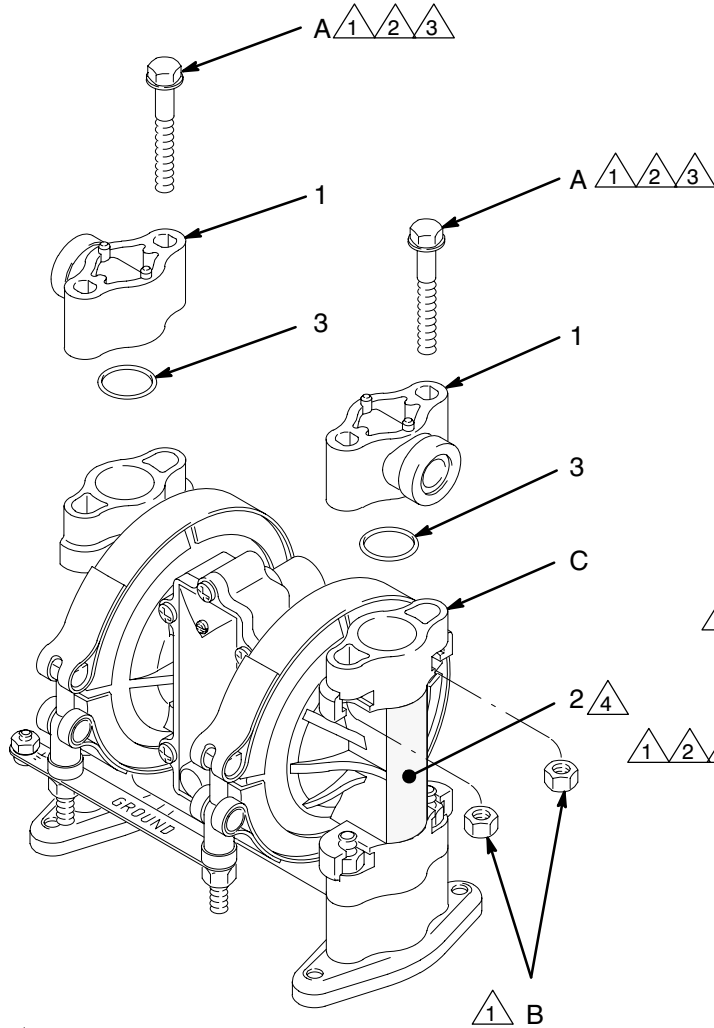
1. Shut off the air to the pump.
  2. Open the dispensing valve, if used.
  3. Open the fluid drain valve to relieve all fluid pressure, having a container ready to catch the drainage.
1. Follow the **Pressure Relief Procedure** above.
  2. Disconnect the fluid inlet and/or outlet line from the pump manifolds.
  3. Remove the fluid inlet and/or fluid outlet manifold, as explained in the pump manual 308553. Keep the attaching hardware (A, B) and the feet (D).
4. Remove the outer o-ring from each cover (C) and replace them with the new o-rings (3) from the kit. See Fig. 4.

**NOTE:** Acetal pumps use screws (A) and nuts (B) to secure the manifolds, as shown in Fig. 4. Polypropylene pumps use nuts, washers, and tie rods; refer to manual 308553.

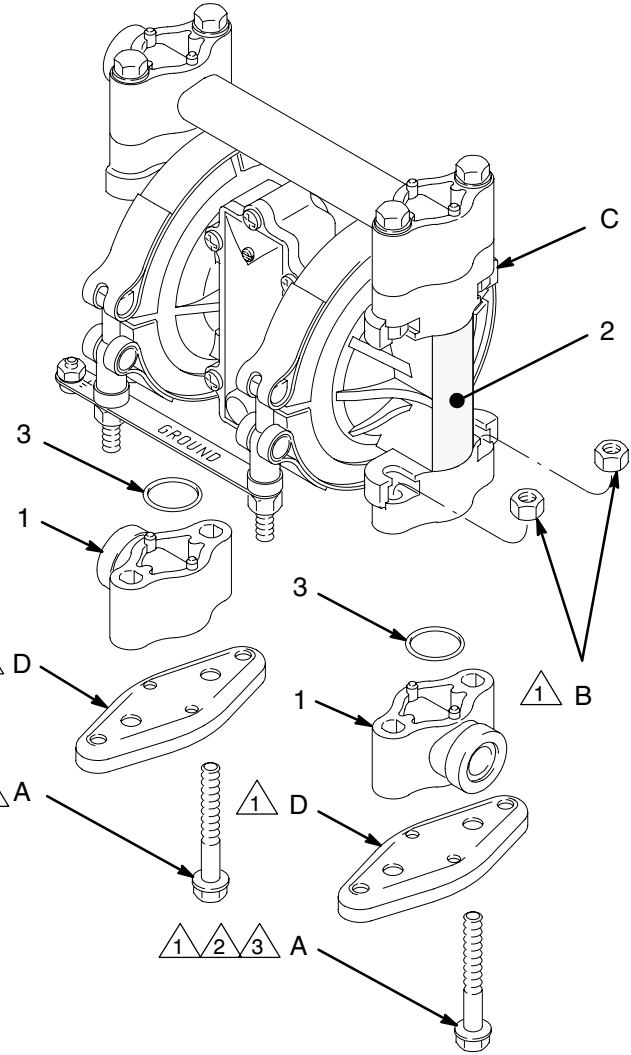
5. Install the split manifolds (1). Apply thread lubricant to the screws and torque to 50–60 in-lb (5.6–6.8 N•m). **Do not over-torque.** See **Torque Sequence**, page 5.
6. The warning label (2) supplied in the kit replaces the one on the standard outlet manifold removed in step 3. First, clean the pump cover (C) with a compatible solvent so the label will adhere permanently, then install the label as shown.
7. Connect the fluid inlet and/or outlet lines to the manifolds securely, and return the pump to service.

# Installation

## Installing a Split Outlet Manifold



## Installing a Split Inlet Manifold



- 1 Part of pump; not supplied in kit.
- 2 Apply thread lubricant.
- 3 Torque to 50–60 in-lb (5.6–6.8 N•m). Do not over-torque.
- 4 See the **WARNING** below.

Fig. 4

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## **WARNING**

The warning label (2) included in the kit contains important information for the safe operation of this pump. Clean the surface of the cover (C) with a compatible solvent and secure the label as shown.

# Parts

## Part No. 237210 Split Manifold Kit For Polypropylene Pumps

Ref. No.	Part No.	Description	Qty.
1	190151	MANIFOLD, split; polypropylene	2
2	187732	LABEL, warning	1
3	111603	O-RING; PTFE	2

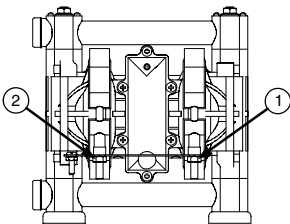
## Part No. 237211 Split Manifold Kit For Acetal Pumps

Ref. No.	Part No.	Description	Qty.
1	190152	MANIFOLD, split; acetal	2
2	187732	LABEL, warning	1
3	111603	O-RING; PTFE	2

## Torque Sequence

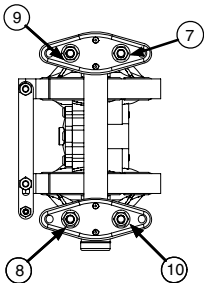
Always follow torque sequence when instructed to torque fasteners.

1. Left/Right Fluid Covers  
Torque bolts to 50–60 in-lbs (5.6–6.8 N•m)



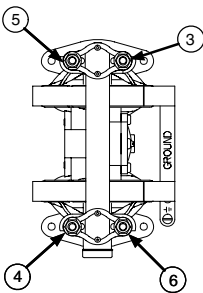
FRONT VIEW

3. Inlet Manifold to Fluid Cover  
Torque bolts to 50–60 in-lbs (5.6–6.8 N•m)



BOTTOM VIEW

2. Outlet Manifold to Fluid Cover  
Torque bolts to 50–60 in-lbs (5.6–6.8 N•m)



TOP VIEW

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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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**612-378-3505 Fax**

**Graco Headquarters:** Minneapolis

**International Offices:** Belgium, China, Japan, Korea

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**GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441**

**[www.graco.com](http://www.graco.com)**

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