Split Manifold Kits

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.

Fig. 1

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.

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.

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. 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.

8. Prolonged exposure to UV radiation will degrade natural polypropylene components of the pumps. To prevent potential injury or equipment damage, do not expose pump or the plastic components to direct sunlight for prolonged periods.
Installation

Installing a Split Outlet Manifold

Installing a Split Inlet Manifold

Part of pump; not supplied in kit.

Apply thread lubricant.

Torque to 50-60 in-lb (5.6-6.8 N·m). Do not over-torque.

See the WARNING below.

Fig. 4

⚠️ 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

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<tr>
<th>Ref. No.</th>
<th>Part No.</th>
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For Acetal Pumps

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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\(\text{m}\))

2. Outlet Manifold to Fluid Cover
   Torque bolts to 50-60 in-lbs (5.6-6.8 N\(\text{m}\))

3. Inlet Manifold to Fluid Cover
   Torque bolts to 50-60 in-lbs (5.6-6.8 N\(\text{m}\))
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