

Circulation Kit

310673 Rev.A

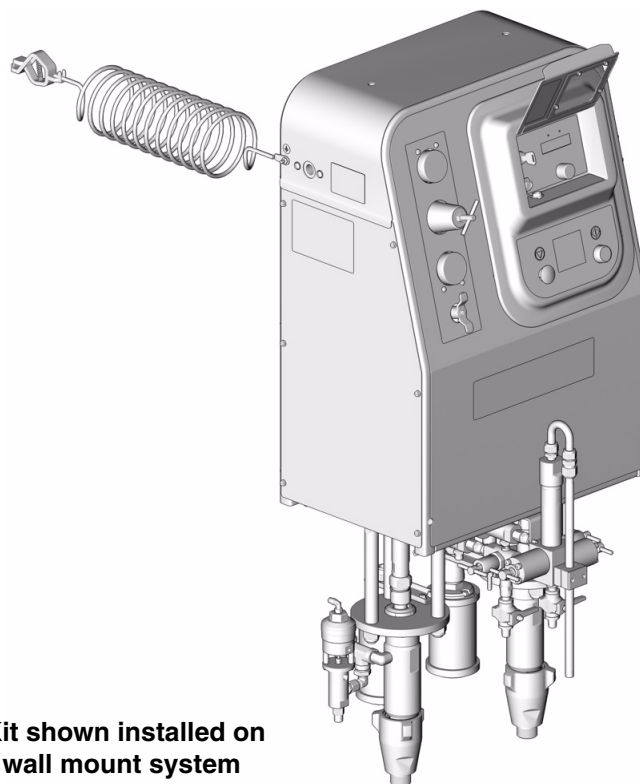
Part No. 248652

For use with ProMix™ Easy and Xtreme Mix™ 185 Proportioners, to circulate material from proportioner to fluid supply container

5000 psi (34.5 MPa, 345 bar) Maximum Fluid Working Pressure



Read warnings and instructions in the ProMix Easy operation manual 309908 or the Xtreme Mix 185 operation manual 310665.




Circulation Kit shown installed on ProMix Easy wall mount system




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Installation

Before Installing Kit

 Letters and numbers in parentheses refer to the callouts in the figures and the **Parts** list on page 7.



WARNING




To reduce the risk of serious injury including fluid injection, relieve the pressure as explained in the proportioner operation manual before disassembling any parts or installing the kit.

1. Relieve pressure (see proportioner operation manual).
2. Flush fluid system (see proportioner operation manual).

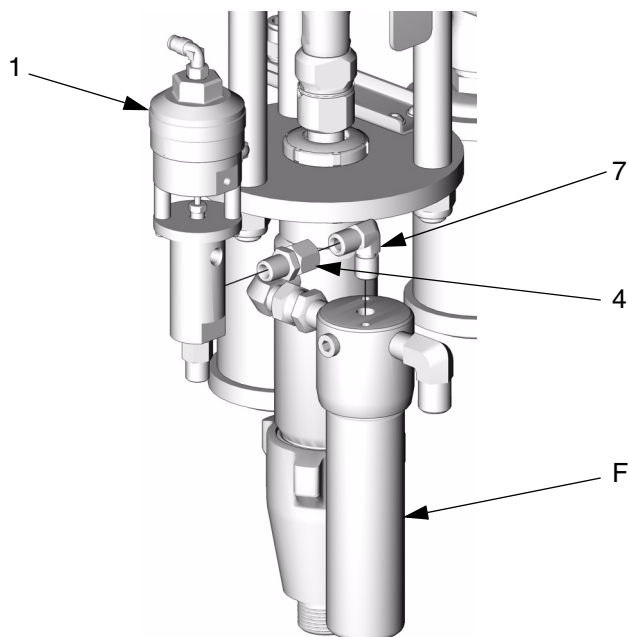
Install Dispense Valve

Xtreme Mix 185 Proportioners

 Apply thread sealant to all non-swivel threaded connections.

 Some kit parts are not used on the Xtreme Mix 185.

1. Remove plug from top of fluid filter (F). Install 1/4 npt elbow (7) in its place. See FIG. 1.
2. Install swivel (4) in side port of dispense valve (1).
3. Screw swivel (4) onto elbow (7). Adjust position of dispense valve as necessary.



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FIG. 1. Xtreme Mix 185

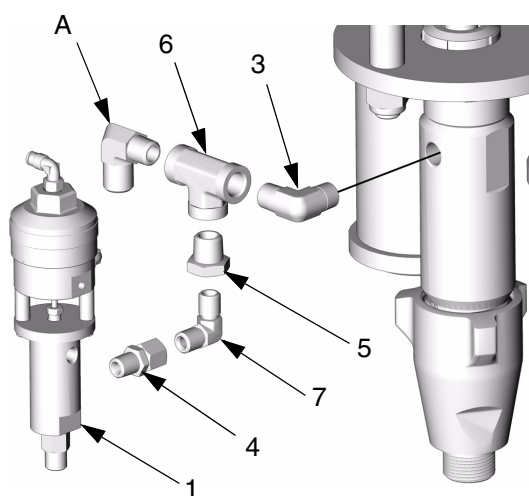
ProMix Easy Proportioners



Apply thread sealant to all non-swivel threaded connections.

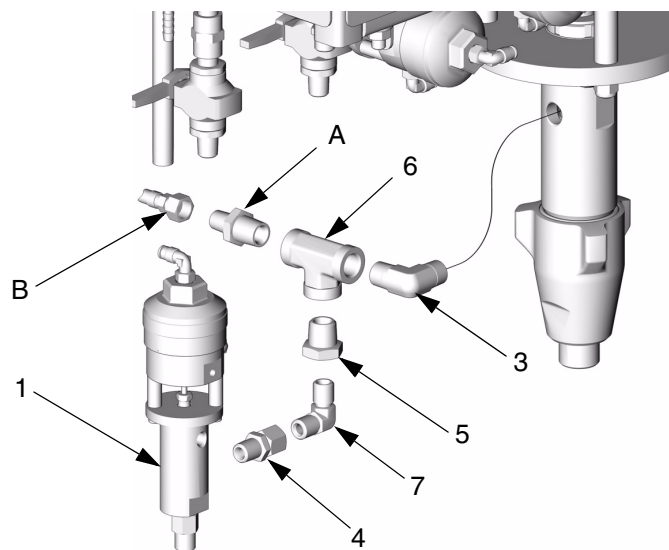
1. Disconnect fluid line from pump fluid outlet. Remove outlet fitting (A). Keep fitting for use later.
2. Install 3/8 npt elbow (3) in pump outlet. See FIG. 2.
3. Screw tee (6) onto elbow (3). Branch of tee should point down.
4. Screw bushing (5) into branch of tee (6).
5. Screw 1/4 npt elbow (7) into bushing (5). Elbow should face forward.
6. Install swivel (4) in side port of dispense valve (1).
7. Screw swivel (4) onto elbow (7). Adjust position of dispense valve as necessary.
8. Screw pump outlet fitting (A) removed in step 1 into open port of tee (6).
9. Connect fluid line (B) to fitting (A).

Proportioners with HydraMix Pumps



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Proportioners with UltraMix Pumps



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FIG. 2. ProMix Easy

Install Solenoid Valve

1. Close main air shutoff valve on air supply line and on proportioner.
2. Remove side panels (C). See FIG. 3.
3. Remove fasteners. Gently pull user interface (D) away from pneumatic control (E).
4. To completely remove user interface (D), disconnect ground wire (G), and wires from J1 and J2 on main board (K).

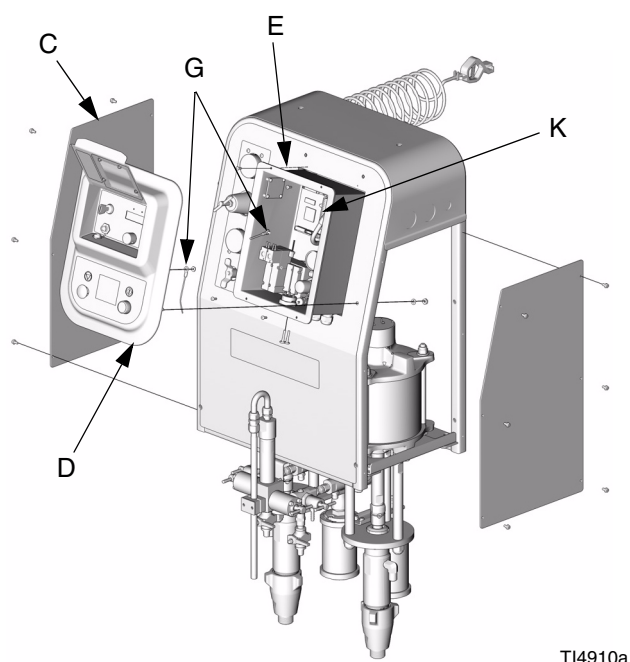


FIG. 3. Access Solenoid Module



Two solenoids are standard with the proportioner. If a third solenoid is already installed, skip steps 5-7 and go to **Connect Solenoid Lines**. Do not install a fourth solenoid; save an extra solenoid as a spare.

5. Remove two screws and take off cover plate (P) next to existing solenoids (L). See FIG. 4.
6. Install third solenoid (2) where plate had been. Secure with two screws.
7. Connect electrical plug to solenoid connector (N).

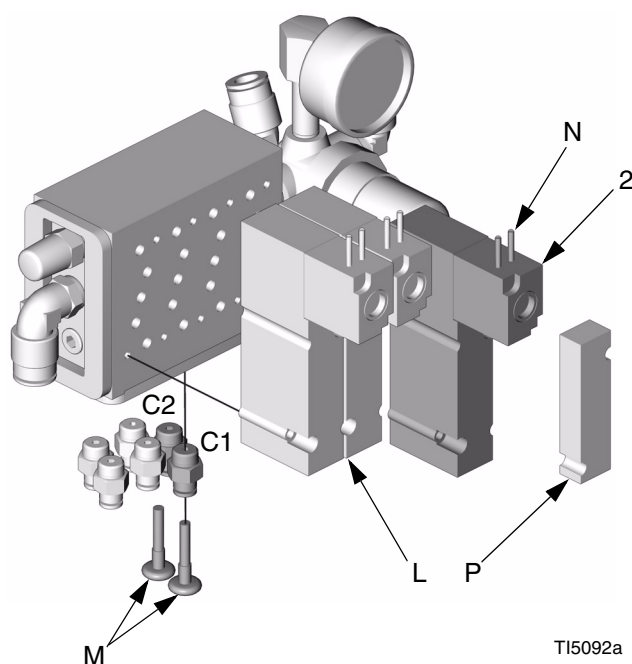


FIG. 4. Install Solenoid Valve

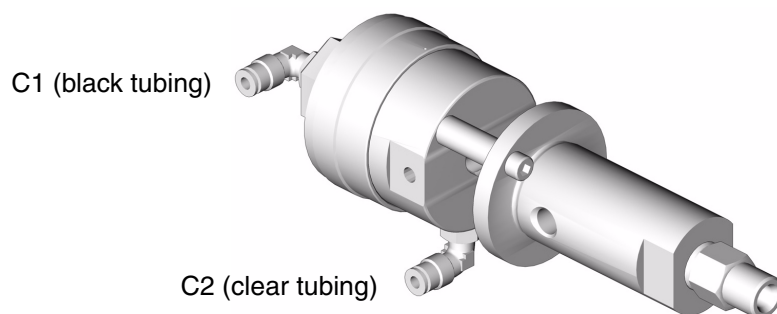
Connect Solenoid Lines

1. Remove plugs (M) from solenoid ports C1 and C2. See FIG. 4.
2. Connect clear tubing (8) between solenoid “open” port (C2) and tube fitting (C2) on dispense valve (1). See FIG. 5.
3. Connect black tubing (9) between solenoid “close” port (C1) and tube fitting (C1) on dispense valve (1).



If two kits are being installed, use the Y-connectors (10) to supply air to the second dispense valve. The Y-connectors may be installed at the solenoid ports or at the tube fittings of the first dispense valve.


4. Reassemble user interface in reverse order, see page 4.





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FIG. 5. Tubing Connections

Connect Return Line

**WARNING**

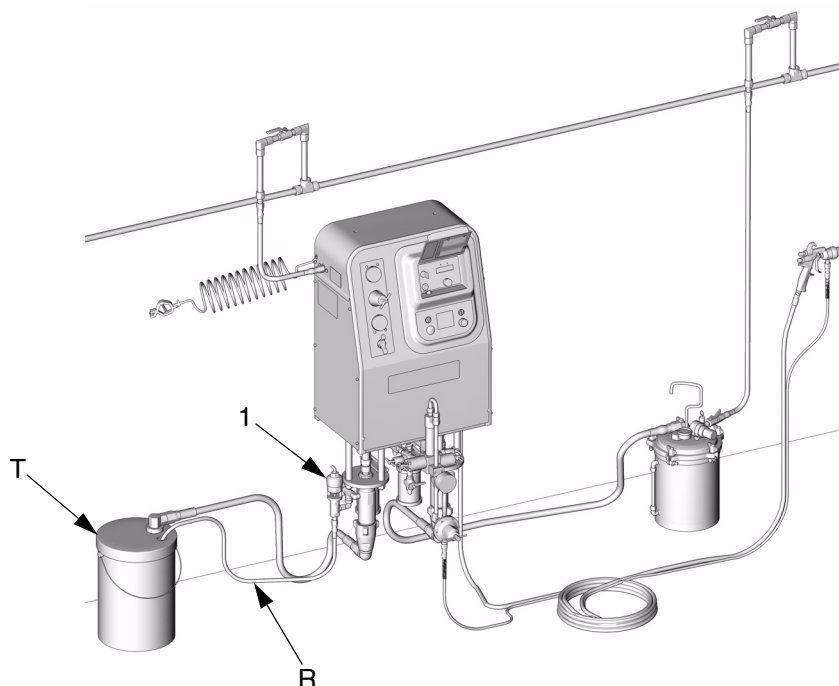


Use only high pressure return hoses rated to withstand the maximum working pressure of the proportioner. See proportioner operation manual.

Operation

To operate the proportioner in recirculation mode, see the proportioner operation manual.

1. Connect the return hose (R, not supplied) to the dispense valve (1) outlet. See FIG. 6.
2. Place the other end of the return hose in the fluid supply container (T).



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FIG. 6. Completed Installation (ProMix Easy Shown)

Parts

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	287222	VALVE, dispense; see 310655	1	6	15E274	TEE; 3/8 npt(f); sst	1
2	552180	VALVE, solenoid; 12 Vdc	1	7	114342	ELBOW; 1/4 npt(m); sst	1
3	15E279	ELBOW; 3/8 npt(m); sst	1	8	598095	TUBE, clear; nylon; 5/32 in. (4 mm) OD	2.5 ft
4	114339	UNION, swivel; 1/4 npsm(f) x 1/4 npt(m); sst	1	9	054753	TUBE, black; nylon; 5/32 in. (4 mm) OD	2.7 ft
5	168160	BUSHING, pipe; 1/4 npt(f) x 3/8 npt(m); sst	1	10	198175	Y-CONNECTOR, push-in tube; 5/32 (4 mm) OD tube	2

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Sales Office: Minneapolis
International Offices: Belgium, Korea, Hong Kong, Japan
GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441
www.graco.com
Printed in USA 310673A

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