



Important Safety Instructions

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



308672 rev.H

EM5™ and PM5™ Installation Sheet

1000 psi (7 MPa, 69 bar) Maximum Working Pressure, 5 gpm (18.9 lpm) Maximum Flow Rate

⚠ WARNING

Pressure must be relieved. This equipment stays pressurized until pressure is manually relieved. To reduce the risk of serious injury from pressurized fluid, accidental spray from the dispense valve, or splashing fluid, you must relieve the pressure as described below in steps 1 through 3.

⚠ CAUTION

If this is a new installation, follow the **Installation Procedure** and the **Flushing Procedure** in the EM5 instruction manual (309142) or the PM5 instruction manual (309377). Failure to do so could result in particles becoming embedded in the sealing o-ring, which can cause leaks.

Do not use an old nozzle or any shut-off type nozzle on the extension. Use the new EM5 or PM5 nozzle to prevent damage to the meter housing cover.

Required for Installation

- Open-end adjustable wrenches
- Thread sealant
- Oil drain bucket
- Shop rags

Replacement Procedure

Here are the instructions for replacing existing dispense valves with new EM5 or PM5 electronic metered dispense valves:

1. **Relieve pressure:** Shut off the air supply to the pump motor, or shut off the fluid flow to the dispense valves, by one of the following methods:
 - Close the ball valve to shut off the air to the motor.
 - Remove the air supply quick disconnect.
 - Close the appropriate fluid-supply ball valves.
2. Set the air pressure regulator to zero pressure.
3. Trigger the existing dispense valve into the oil drain bucket. Hold the trigger open until pressure is relieved.
4. **Remove old dispense valve:** Position the oil drain bucket to catch leaking oil, and use the wrenches to remove the old dispense valve from the fluid supply hose.
5. **Install new EM5 or PM5:** Slide the swivel cover onto the fluid supply hose, small end first. See Fig. 1.
6. Apply thread sealant to the male threads on the hose fitting. Thread the hose fitting into the swivel of the EM5 or PM5, and tighten it firmly. See Fig. 1. Tighten the swivel to the housing, if necessary.
7. Thread the sealing nut onto the extension by hand, PTFE insert out. By hand, thread the extension at least three full turns into the outlet of the EM5 or PM5 so it is tight, position the extension for proper alignment, and tighten the sealing nut with a wrench. See Fig. 2.

8. Thread the new EM5 or PM5 nozzle onto the extension, and tighten it firmly. On the EM5, use a wrench on the flats of the nozzle. On the PM5, use a wrench on the flats of the hex bushing. See Fig. 2. **Do not use thread tape or sealant.**

The following steps require two people.

9. **Purge the air from the system:** One person triggers the EM5 or PM5 into an oil drain bucket while the other person slowly opens the valve that was closed in step 1.
10. With the trigger on the EM5 or PM5 still pressed, slowly increase the air pressure to the pump motor until a constant stream of fluid flows from the nozzle, then release the trigger.
11. **Adjust the flow rate:** Set the air pressure to achieve the desired flow rate, which should not exceed 5 gpm.

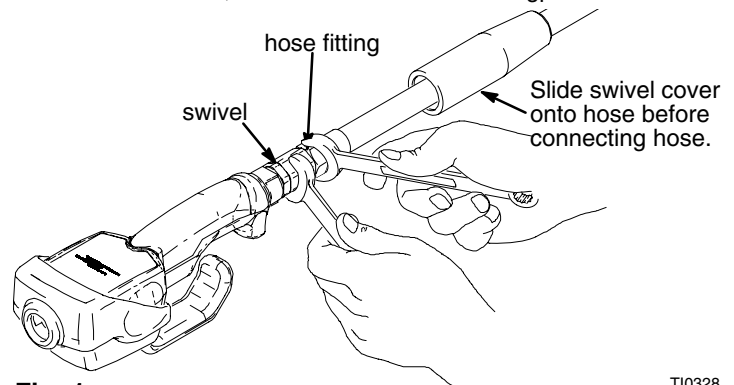


Fig. 1

T10328

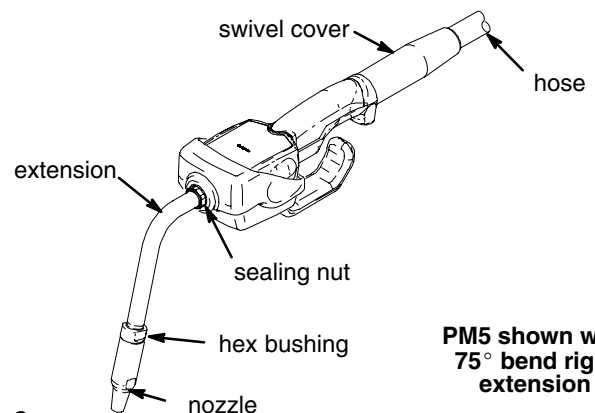


Fig. 2

T10327

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.

Graco Headquarters: Minneapolis

International Offices: Belgium, Korea, China, Japan

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

www.graco.com

©1996 Graco Inc. 308672 Revised 06/2006