

PMV upgrade kit

The upgrades eliminate the risk of leaks and loose pump tube connections some customers experienced. The following document explains the design changes and contains all relevant information with regards to technical adjustments of the PMV pumps.

The PMV upgrades

- I. A flat copper gasket in the casting / pump tube seat replaces the O-ring seal on the pump tube. The copper gasket insures high pressure stays in the strongest part of the casting.
- II. The casting process has been also improved to eliminate variables that created weak spots in some outlet bodies.

PMV upgrade applications

All PMV grease pumps and 5:1 and 10:1 oil pumps feature both the copper gasket and casting process upgrades. The 6:1 pumps have the same casting process upgrade but the change to the copper gasket does not apply due to its different outlet body design.

Upgrading PMV pumps shipped before 2014 during routine service for normal wear

The new copper gasket also fits older PMV pumps. Discard the O-ring and replace it with the correct copper gasket when servicing older pumps. Important: Do not reinstall the O-ring. Leaving the groove in the pump tube empty will not hurt performance but reinstalling an O-ring could weaken the connection.

Upgrading pumps with loose or separated pump tubes

There are now thousands of PMV pumps in use. Most will continue working correctly depending on the working conditions but repair centers may still receive some PMV pumps with leaking and / or loose pump tubes. The casting and seal must be replaced when repairing these pumps. **Important: do not reuse outlet body castings from any PMV pump with a loose pump tube.** The correct repair kit includes a new outlet body casting and copper gasket:

25:1 and 50:1 PMV grease pumps-

use outlet casting kit **278902** includes **275065** outlet casting and **278701** copper gasket.

5:1 and 10:1 PMV oil pumps-

use outlet casting kit **278903**, includes **275075** outlet casting and **278659** copper gasket

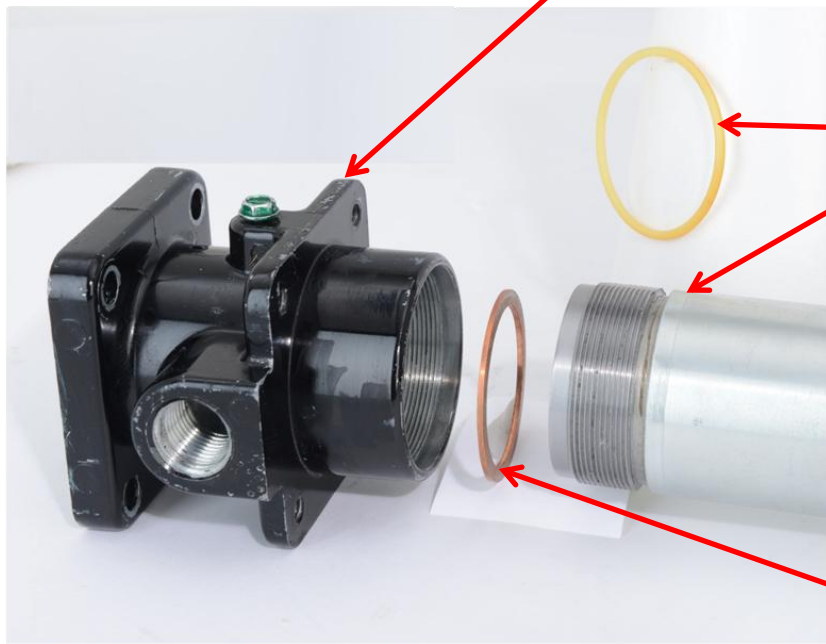
The copper gaskets are available separately for routine PMV pump service. Replace the copper gasket every time pump service requires disassembly of the pump tube from the outlet casting to insure a tight fit and seal.

Finally, please remember to follow all recommended disassembly/ assembly instructions published in the owners' manuals for each pump.

Contact Lincoln Technical Service if you have any questions.

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Barry Frankum
PMV field service upgrade

Replace outlet casting if the pump tube shows signs of loosening or separation



Remove and discard the O-ring. Leave groove in pump tube empty

Install copper gasket in the outlet body seat, apply Loctite 242 (blue) to pump tube threads and tighten to 150 – 160 ft. lbs. / 203 – 217 Nm