

Updates to Internal O-Ring Kits for Ford Power Stroke and Navistar T444E Injectors

Due to the changes in material that have occurred over time we are consolidating and updated several DIPACO Product Information Bulletins that covered internal o-ring for Power Stroke and T444E injectors. This bulletin supercedes FI-62 and FI103.

Internal O-Ring Kits

To help the injector rebuilder DIPACO has available an internal o-ring kit which comes in single and 100 injector quantities. DPS0007 contains the three internal o-rings needed in the injector used in Ford Power Stroke and Navistar T444E engines. DPS0007-100 contains 100 pieces of each o-ring.

There have been several material changes since these kits were first introduced. Ford changed the composition of the o-ring used on the outside of the piston and valve body in the injectors. The o-ring, DPE7736, is made of 90 durometer Viton. Because of the additional hardness of the 90 durometer material and the set the o-ring takes when installed, we strongly recommend that any time the injector is disassembled this o-ring be replaced. Failure to replace the o-ring can lead to a sealing failure. Because of this requirement, the DPE7736 o-ring is also available for sale separately from the o-ring kits.

Also, when installing this o-ring it must pass over the very sharp threads of the piston and valve body. This can lead to cutting the surface of the o-ring. Because of the high sealing pressures, cuts in the o-ring can lead to premature failure. For proper insertion of this o-ring we recommend using the DIPACO DPE30301 insertion tool or an equivalent tool. For more information on this tool see DIPACO Product Information Bulletin FI-91, July 2000.

We have also added a Teflon coating to the outside of the DPE7736 and DPE7738 o-rings to improve ease of installation of the intensifier piston and the nozzle retaining nut and reduce the risk of o-ring damage.

Following is a description of the DPS0007 kit components with the current o-ring color. The DPS0007-100 contains 100 pieces of each component.

DPE7407 O-Ring (Black)	1 each
DPE7736 O-Ring (Dark Blue)	1 each
DPE7738 O-Ring (Blue)	1 each

The DPE7407 o-ring is installed into a groove in the internal adapter plate. The DPE7736 and DPE7738 o-rings are installed onto the piston and valve body.

Finally, remember that after you have installed all of the o-rings on the injector you must wait at least 10 minutes before assembling or installing the injector. This allows the o-rings to recover back to their correct diameter. Failure to do so will result in sealing failures.