

Product Change Notification

PCN # 8/13-022

Topic: Revision C (Rev C) Improvements to Pilot Valve Assembly (E40, E2, E3)**Effective Date:** 8/19/2013**Changes Made:** Design improvements to the pilot valve spool assemblies, part number **775.V002.000** used on all Rev C E40 (1½" pumps) and E2 (2" pumps) as well as part number **775.V006.000** used on all Revision Level C E3 (3" pumps)

The improvements include:

1. **Addition of extra O-ring and groove on the pilot spool.**
 - a. The timing of the pilot valve was changed slightly and one additional O-ring seal was added to the spool.
2. **Change to pilot spool O-ring material.**
 - a. The O-ring material is being upgraded from the standard Nitrile, **560.023.360**, to a longer lasting Urethane, **560.023.358**. This high grade of Urethane possesses extremely high mechanical properties and excellent abrasion, tear and extrusion resistance, all while maintaining a very low compression set for superior sealing.
3. **Why is the change being made?**
 - a. Field feedback identified some pumps being used on highly viscous materials could experience less than optimal performance when being utilized at, or very near, the limits of the pump operation. These changes ensure that pumps will function optimally through any range of operation, all while increasing the mean time between failures.
4. **How can I identify the new parts?**
 - a. The new spools will now use (8) O-rings vs. originally having (7).
 - b. The new urethane spool O-rings are a natural translucent color instead of black like the previous revision. Shown below are pictures of each.

Benefits of Change: These changes enhance the pump's ability to operate at peak performance, even in the most difficult of applications.**Original Pilot Spool****New Pilot Spool**

Additionally, Versa-Matic is pleased to announce a design improvement to the pilot valve sleeve assembly, part number **755.V002.000**, used on all current E40 (1½" pumps), E2 (2" pumps) and E3 (3" pumps). This enhancement further addresses Technical Bulletin 91.

Changes Made:

1. **Change to pilot sleeve O-ring material.**
 - a. The O-ring material is being upgraded from the standard Nitrile, **560.101.360**, to the same high grade Urethane material, **560.101.358** used on the pilot valve spool.
 - b. The sleeve O-rings are now urethane and a natural translucent color instead of black like the previous revision. Shown below are pictures of each.
 - c. Also, the overall length of the pilot has been increased. This is to accommodate a more generous lead-in chamfer on each end. The chamfers were added to ensure simple installation of the pilot valve spool during servicing.



Original Pilot Sleeve



New Pilot Sleeve

Pump Models Affected: Rev. C E40 (1½" pumps), E2 (2" pumps) and E3 (3" pumps)

Interchangeability: This is a running change, therefore the new pilot sleeves, pilot spools, pilot sleeve O-rings, and pilot spool O-rings are all 100% reverse compatible with all Rev. C Elima-Matic E40 (1 1/2" pumps), E2 (2" pumps) and E3 (3" pumps).

Air Side Kits Special Note - The complete Air Side Kits have been upgraded at no additional charge to now include the complete pilot sleeve assembly to support this product change. Air Side Kit part numbers affected include: **476.V017.000, 476.V019.000, 476.V029.000, 476.V030.000.**