

**NUMBER:** 06-04-17-FK

McAlester Engineering

**PRODUCT:** MISSION Valves for the Hex Pump**SUBJECT:** C/N 060152931HX Valves

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The standard valve system for the Hex Pump is a P-4 Mission Double Duty upper and lower stem guided valve. The illustration below shows the original design to the right exhibited by the sharp outside diameter yellow polyurethane edge. The new design is shown to the left and has this sharp outside diameter point machined down to a flat and smaller insert outside diameter.

The revision is two fold: 1) the reduced outside diameter allows increased exit flow area; and 2) the smaller diameter eliminates insert damage created by the insert to seat contact at the top edge of the seat.

The new insert in this subject assembly is C/N 80-710-073.

