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OPERATION AND TESTING OF A DIVERSION VALVE

A TWO POSITION, THREE PORT DIVERSION VALVE, ALSO KNOWN AS A SELECTOR VALVE CAN TAKE ONE PRESSURE SOURCE AND SEND IT TO EITHER OF TWO DESTINATIONS. THE STANDARD VALVE SHOWN BELOW HAS A COMMON PORT "A" AND TWO OUTLETS "B" AND "C". THE FOLLOWING STEPS WILL TEST MOST STANDARD DIVERSION VALVES.

1. VALVE SPOOL PULLED OUT (FIGURE 1). PRESSURE IN "A", "B" PLUGGED AND "C" OPEN. CHECK FOR BYPASS OUT "C" . THERE SHOULD BE VERY LITTLE TO NONE. ALSO CHECK FOR LEAKAGE AROUND FRONT SPOOL SEAL.
2. VALVE SPOOL PUSHED IN (FIGURE 2). PRESSURE IN "A", "C" PLUGGED AND "B" OPEN. CHECK FOR BYPASS OUT "B" . THERE SHOULD BE VERY LITTLE TO NONE. ALSO CHECK FOR LEAKAGE AROUND REAR SPOOL SEAL.

