



AB McLAUCHLAN :: WELLIVER METAL

## **Service Bulletin #1-81**

### **February 5, 1981**

Attention: Service Manager  
RE: 550-100 Dump Valve

The 550-100 Dump Valve is used in the three places on Layton Manufacturing Co. Products:

1. Early style D-550 High pressure Dump Valve (up to S/N 8362). Controlled by High pressure cut-out switch.
2. 607WV vibratory system on/off control. Controlled by toggle switch.
3. F-525 auger on/off control. Controlled by toggle switch.

There have been only three types of failure involving this component:

1. No electric power to activate the electromagnet.
2. Coil burnt or shorted out
3. Valve spool does not shift

**See drawing "A"**

There should seldom be any reason to remove the valve body, Item #1. Due to the mounting and tube or hose connections, it is quicker and easier to remove the coil (Item #4) and valve cartridge (Item #3) while in place.

**See drawing "B"**

There is a pilot-operated spool inside the cartridge. The coil magnet only starts the valve to function. Pressure oil must pass through the tiny pilot passage drilled through the valve seat (Item #6), by way of the passage in Item #3, for the valve spool to shift. It takes only a very small particle of grit to plug the pilot passage and cause the valve not to function.

To disassemble: Place the cartridge body (Item #1) in a vise, using a spanner or vise grip pliers; unscrew the valve tip (Item #7). Use a fine wire (such as shipping tag wire) to clean the passageways, and blow out with compressed air. Apply a small amount of light oil to the parts and reassemble in order .