



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 .