

# Equipment Technical Bulletin

## ILS/ILS Max/ILS MaxT: Dosing Error with High Viscosity Chemicals



### PROBLEM

If the ILS, ILS Max or ILS MaxT is programmed to deliver a thick and then a thin chemical, one after another to the same washer (through the same transport pump), the automatic calibration feature may misinterpret the chemical flow and record an incorrect calibration. The dispenser may then use this erroneous calibration to feed the next few calls for chemical. This incorrect dose amount could be delivered to the washer that called for the two chemicals, or to another washer that calls only a single chemical soon thereafter.

### SYMPTOMS

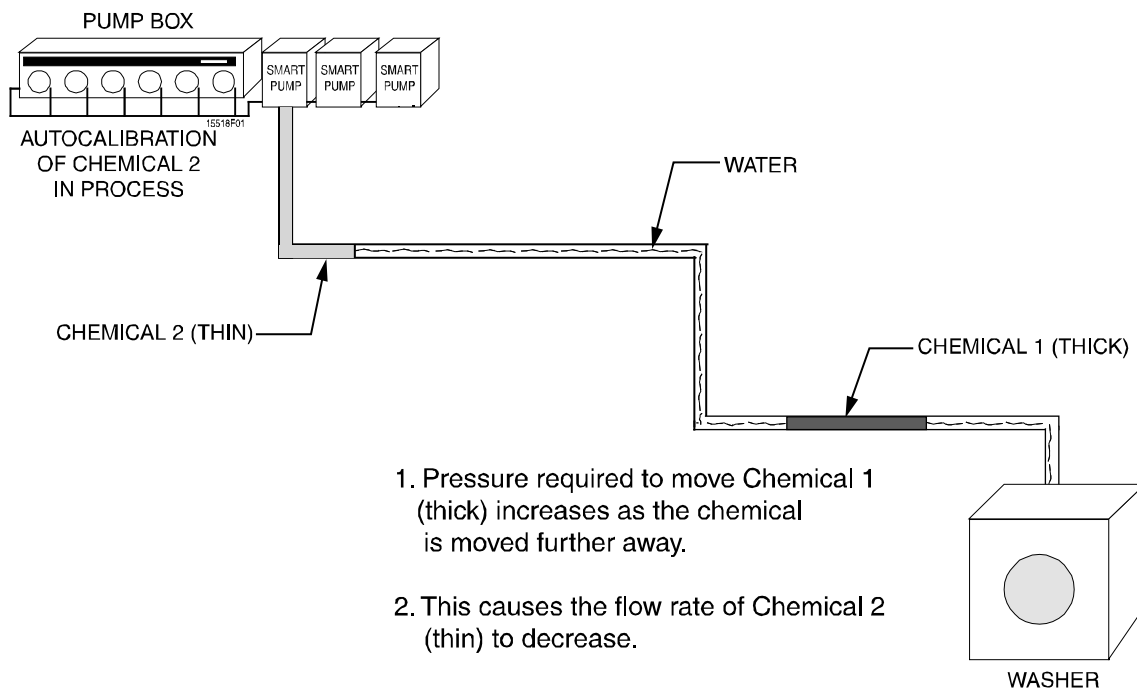
The following symptoms may occur under the conditions described above:

- Too much or too little chemical is fed to the washer while at other times the chemical delivered by the pump appears to be correct.
- Chemical Use Report does not agree with chemical inventory.

### SOLUTION

To avoid these errors it is necessary to decrease the load on the transport pump during autocalibration. This can be achieved in several ways:

- Rearrange the chemical order so that thin chemicals are followed by thick chemicals.
- Set pump to a lower speed when pumping thick chemical so that it is thinned with more water.
- Flush with warm or hot water to dissolve and thin viscous chemicals for transportation.
- Use larger-diameter transport tube. For ILS Max, we recommend 1/2"ID delivery tube for normal installations. Using 5/8"ID tube will reduce the load on the transport pump. For ILS and ILS MaxT, we recommend 3/8"ID delivery tube for normal installations. Using 1/2"ID tube will reduce the load on the transport pump.
- Bring the dispenser closer to the washer to decrease transport distance.
- If you have sufficient triggering flexibility, delay the beginning of the dose of the second (and all subsequent) chemical until the first chemical has been delivered to the washer.



1. Pressure required to move Chemical 1 (thick) increases as the chemical is moved further away.
2. This causes the flow rate of Chemical 2 (thin) to decrease.
3. Calibration errors in both Chemical 1 and Chemical 2 may result.



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