



Kansas Department of Agriculture
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PLAN FOR USING REQUIRED ANTI-POLLUTION DEVICES

The Kansas Chemigation Safety Law (*K.S.A. 2-3301 et seq.*) requires that irrigation systems which are used to apply pesticides, fertilizers, or other chemicals, or animal wastes, must be equipped with certain functional anti-pollution devices. These devices are listed below.

- I. **ALL irrigation systems used for chemigation, including animal wastes, must be equipped with the following:**
 - 1) INTERLOCK SYSTEM between the power system of the injection unit, the irrigation pumping plant and the pivot, if involved (*K.S.A. 2-3305*);
 - 2) MAINLINE CHECK VALVE that is automatic with positive closure between the water source and the point of injection (*K.S.A. 2-3305*) (*K.A.R. 4-20-5*);
 - 3) VACUUM RELIEF DEVICE between the Mainline Check Valve and the irrigation pump (*K.S.A. 2-3305*);
 - 4) AUTOMATIC LOW PRESSURE DRAIN between the Mainline Check Valve and the irrigation pump, which is flush/recessed or has a dam (*K.S.A. 2-3305*); and
 - 5) Easily-accessible INSPECTION PORT shall be located between the pump discharge and the check valve, and situated so the automatic low pressure drain can be observed through the port and the check valve flapper can be physically manipulated (*K.A.R. 5-3-5c: Specifications for Check Valves, Oct. 7, 1991*).

- II. **In addition to the devices listed above (items 1 through 5), injection equipment used for fertilizer and chemicals other than pesticides, must also be equipped with the following:**
 - 6) CHEMICAL INJECTION LINE CHECK VALVE installed on the output side of the injection pump (*K.S.A. 2-3305*);
 - 7) MANUALLY OPERATED VALVE on the supply tank (*K.A.R. 4-20-6*);
 - 8) STRAINER located on the suction (intake) side of the injection pump (*K.A.R. 4-20-6*); and
 - 9) CALIBRATION DEVICE of sufficient volume to accurately calibrate the injection pumps (*K.A.R. 4-20-6*).

- III. **In addition to the devices listed above (items 1 through 9), injection equipment used for PESTICIDES (insecticides, herbicides, fungicides, etc.) must also be equipped with the following:**
 - 10) an AIR BLEEDER VALVE on the injection line adjacent to the Chemical Injection Line Check Valve, for removing air trapped in the injection pump and high pressure injection line (*K.A.R. 4-20-6*);
 - 11) a POSITIVE DISPLACEMENT INJECTION PUMP (Ex.: a diaphragm or piston pump) (*K.A.R. 4-20-6*); and
 - 12) any other equipment required by the pesticide's label or labeling (*K.A.R. 4-20-6*).

VERIFICATION OF COMPLIANCE		
I hereby certify that each irrigation system listed on my application for a Chemigation User's Permit has been equipped with all of the required anti-pollution devices.		
Chemigation User's Permit Holder Name <i>(If individual, Last/First/Middle Initial)</i>	Title, if officer of Org.	
Signature <i>(Required)</i>	Date <i>(Required)</i>	<u>OFFICE USE ONLY</u> CUP No

SUBMISSION OF THIS PLAN IS REQUIRED BY THE KANSAS CHEMIGATION SAFETY LAW