

A wise farmer once said...

"GO WITH THE FLO!"

... "And NH₃ application will be more **simple, reliable, uniform and cost less.**"

Kontrol-Flo II is a unique new system for anhydrous ammonia application that takes a completely new approach to addressing the vapor issue. Instead of doing all sorts of complicated and costly things to try and separate the vapor from the liquid just for the sake of measuring it, Kontrol-Flo simply compensates for it. That's right. Why fight it when the percentage of vapor going through the measuring meter will stay relatively constant for the tool bar being used anyway? **"Go with the Flo" and compensate for the vapor.** After the initial compensation, the in-cab controller continuously reads a temperature sensor in the flow meter and adjusts the flow reading to correct for density changes in the ammonia throughout the day. Forget about the heat exchanger. They are expensive and are just another pressure drop. Besides, what about the problems caused by the separated vapor? It just aggravates the problem of uneven distribution, but they forget to mention that little fact.



Kontrol-Flo also uses a highly reliable vane type meter that cannot be damaged by vapor caused by running the tank empty. That's the single biggest reason for turbine meter failures and they always fail at the worst time. Not that there is ever a good time.

The in-cab electronic controller can display total gallons, total acres, gallons per minute, tractor speed, NH₃ temperature, pounds N/acre, or gallons/acre on a large back-lit LCD display. With optional radar interface or internal GPS speed control, the system is completely automatic. It's very user friendly and flexible. Configure it to apply NH₃ **or** any liquid **or** just to count acres as you drive your field.

Kontrol-Flo II is packed with features, providing NH₃ or liquid application performance comparable to the most expensive systems at a significantly lower cost.

But getting the right amount applied in total is only half the battle. The hard part can be getting the NH₃ applied UNIFORMLY across all of the knives.

Ask yourself these questions:

Does your crop height vary from non-uniform application across the tool bar?

Do you apply more NH₃ than you actually need to eliminate striping?

YES? Then **"Go with the Flo"** again with **Equa-Flo**...a truly revolutionary NH₃ distribution manifold.

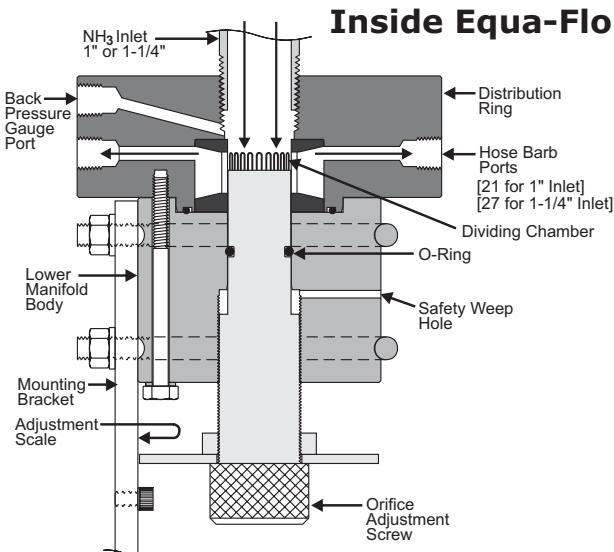
The two phase flow of NH₃ liquid and vapor arrives at the distribution manifold where ideally it's divided into equal streams going to each knife on the tool bar. That's not an easy task. Conventional manifolds do the job quite poorly, in fact, and result in crop striping or over application to compensate for the poor distribution. Studies have shown as much as 200% application difference from knife-to-knife using a conventional manifold. Even custom manifolds that use interchangeable orifice rings experience knife-to-knife variation over 72%.

The **Equa-Flo** system is designed to deal with the vapor present in two ways. First, the two phase flow is stabilized and allowed to homogenize in the sweeping full bore entry path into the dividing chamber. Second, the pressure in the dividing chamber is kept as high as possible while still allowing the desired application rate. This is accomplished with a precision variable orifice arrangement that

allows the user to change the orifice size. For any desired flow rate, the orifice is adjusted to raise the backpressure (pressure in the dividing chamber) as high as possible while still getting the desired application. The system is so solid that excellent distribution is attained even if all of the distributor ports are not used. Just plug them as symmetrically as possible for excellent results.

If you've been over applying NH₃ to compensate for uneven distribution, a lot of money can be saved by reducing your application rate and still get the same yield. NH₃ application reduction from 15 to 20% is very possible if you have been using a conventional manifold. That can add up to over \$1400 in savings for a single 500 acre application at 150lb. N/acre. Call Squibb Taylor at 1-800-345-8105 to get the 4-page brochure telling the full Equa-Flo story and explaining how it blew away the competition in independent testing by Iowa State University.

The simple fact is that the combination of the **Kontrol-Flo** NH₃ control system and the **Equa-Flo** distribution manifold offers an unparalleled cost effective and accurate system. Remember what the wise farmer said and **"GO WITH THE FLO!"**



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