



Short section of installation pipe (made of chlorinated PVC and also available in optional stainless steel) has built in paddle wheel Flosensor (shown on right) and Flometer. Plug on left is used when paddle wheel Flosensor is removed. Flometer can be dash-mounted in the cab of a tractor or pickup. Special Optional Flometer with built-in accumulator (not shown) keeps tab on total gallons delivered. System can be installed on suction line, or pressure line up to 100 psi.



FAST WAY TO FIX CRACKS OR HOLES IN MUFFLERS, PIPES OR OTHER "HOT" STUFF

Wrap-on Tape Beats the Heat

Hottest new product for patching mufflers, stove pipes, water pipes or other "hot stuff" is wrap-on Easy Test tape.

To fix a leaky stove pipe or muffler, for example, you simply wrap the tape over the hole or crack, then apply heat from a torch, soldering iron or heat lamp to set the tape.

If the area of the pipe or muffler being repaired normally heats up to 220° or more in regular use, you don't have to apply supplemental heat. Just wrap the tape over the hole or crack and heat from the pipe itself will set and cure the tape.

Once applied, the cured tape will withstand up to 500°F. continuously,

**ACCURATE TO WITHIN 1%,
SAYS MANUFACTURER**

Fast, Simple Way to Calibrate Sprayers

Somebody has finally figured out a fast, simple and accurate way to calibrate crop sprayers and liquid fertilizer applicators.

"With this new system, calibration is almost as easy as looking at a clock to tell the time," says Craig Broyhill, vice president of the Broyhill Co., developer of the new calibration and monitoring system. In addition to aiding in sprayer calibration, it has other features which aid in more accurate spraying.

Heart of the system is a section of installation pipe which has a built in paddle wheel Flosensor device. A Flometer connects to the Flosensor via a long cord, allowing the meter to be remotely located on the dashboard of a tractor or pickup, or wherever most convenient. The Flometer gives the operator a direct reading of gallons per minute (GPM). To get gallons being applied per acre (GPA), you simply read the "GPM" reading on the dial and plug the figure into the following formula:

$$\text{GPA} = \frac{\text{GPM}}{6} \times \frac{495}{\text{M.P.H.} \times \text{Boom width in ft.}}$$

For example, suppose you're using 45 ft. of total boom width, plan to travel 6 miles per hour and the meter reads 18 GPM. Plugging this figure into the formula, you get:

$$\text{GPA} = \frac{18}{6} \times \frac{495}{45} = 3 \times 11 = 33 \text{ gals. per acre}$$

If this application rate is higher than you want, you reduce it by increasing sprayer speed, reducing pressure or using smaller nozzle tips. And, if the application rate is lower than you need, you simply reduce sprayer speed, increase pressure or use larger tips.

The regular Flometer is equipped with a dial which gives the operator a direct reading. It's available with an optional 5 digit resettable ac-

cumulator that allows the operator to get a GPM flow reading, plus total gallons of flow, from the same instrument. For example, suppose you're applying 15 GPA on a 300 acre field. The accumulator, which works much like the odometer on your car, should read 4,500 gals, put through the system when you've finished spraying the field. Any reduction in boom flow due to plugged tips, loss of pump prime, loss of pressure, or an empty tank, will instantly register on the Flometer. The accumulator can also be reset to register the amount of liquid used for a fill, or to make it easy to accurately transfer a desired number of gallons.

The flometer can also be used to tell, at a glance, if nozzle tips are delivering close to their rated capacity. For example, you look up the rate the nozzle tips you're using should be applying at a given pressure. If the total book rate is less than the meter rate, you know that tips are worn and that the pressure should be adjusted accordingly. Or, if bad enough, the tips should be replaced. If any tips plug, or there is a loss of pressure, the operator will detect the problem by noting the "dip" on the flometer dial.

"This new monitoring system obsoletes the usual time-consuming and complicated methods of calibration, such as the volume method, the area-volume method or the time-volume method," explains Broyhill. "Sprayer operators who find these conventional methods confusing and difficult to grasp will welcome this new system. It's fast, simple and accurate to within 1%," he points out.

Cost of the installation pipe with built-in Flosensor and the regular Flometer is \$249, plus \$211 for the optional meter with the resettable accumulator which keeps tabs on total gallons delivered.

For more details, contact: FARM SHOW Followup, The Broyhill Co., Dakota City, Neb., 68731 (ph 402 987-3412).

and intermittent temperatures up to 600°F. In addition to wrapping it around pipes or mufflers, the tape can be used to patch holes or cracks on flat surfaces, such as furnace ducts. It can also be placed between two parts to be bonded. Permanently bonds metals, ceramics, glass and other material.

A standard package of Easy Test epoxy tape measures 2 in. wide and 12 ft. long. It sells for \$2.50 per package, including handling and shipping charges.

For more details, contact: FARM SHOW Followup, Harvey-Westbury Corp., 81 Urban Ave., Westbury, N.Y. 11590 (ph. 516 334-7770).