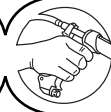


# 5ml Variable

# Automatic Injector



njphillips.com

*Our expertise is in your hands.*



The NJ Phillips 5ml Automatic Injector is a precision instrument, with a high quality finish, designed for mass treatment of livestock with a variety of vaccines and injectable solutions. Given normal care it will last indefinitely. As components in this instrument may be affected by solvents in some commonly used farm chemicals no responsibility will be accepted by the manufacturer should the instrument be used with such products.

**Here are the main features which make this instrument so practical:**

### ***SUPERIOR VALVE DESIGN***

NJ Phillips' design team continually seeks ways to make our valves as trouble-free as possible. The inlet valve is housed in the front of the push rod and the delivery valve at the rear of the needle mount. The delivery valve may be readily removed for cleaning. Any obstructions to the inlet valve may be cleaned out by removing the piston. Life of the rubber valve seal o-rings may be prolonged by reversing them when they become worn on one side.

### ***ADJUSTABLE RETURN SPRING TENSION***

It's a simple matter to adjust the filling rate. For instance, you can increase the filling rate by tightening the knurled return-spring adjuster nut situated near the top of the handle. Filling and delivery pressure may be reduced by loosening the nut.

### ***ADJUSTABLE DOSE RANGE***

From zero to 5ml. The dose is very easily set. You simply align the front of the piston with the desired calibration, then lock it by means of the screw and lock-nut at the base of the handle.

### ***VISIBLE DOSE***

Graduated cylinder provides instant check of dose.

### ***CARE AND MAINTENANCE BEFORE INJECTING:***

It is essential that this instrument, and a supply of needles, be thoroughly sterilized before each use. A common method of sterilization is as follows:

1. Attach connecting hose to handpiece.
2. Wrap cloth around handpiece and draw hot water into the cylinder through the connecting hose.
3. Suspend the complete instrument in a container of water and boil, together with the needles, for 10 to 20 minutes.



Suspending the instrument not only makes it easier to remove, but also prevents damage should the container boil dry. This is not harmful. Chemical sterilization with antiseptic solutions is sometimes practised and in such instances the recommendations of the chemical manufacturer should be followed. ***DO NOT attempt to sterilize by autoclaving.***

4. Remove instrument from container, wrap cloth around the handle and pump dry.
5. Lubricate the piston before use.

### **INSTRUCTIONS FOR USE**

1. Connect the handpiece to the container of material by means of the connecting tube and squeeze the lever several times to prime with instrument set at approximately half maximum capacity. **The applicator must be held vertically, with the nozzle pointed upwards, to ensure the applicator is fully primed.**



**Care must be taken to ensure the liquid does not come into contact with any part of the operators body. Chemicals may cause injury to the operator.**

2. Set the required dose by aligning the front of the piston with the desired cylinder calibration and lock by means of the screw and lock nut situated at the base of the handle.
3. After setting the required dose, make certain that the return spring is adjusted to the minimum tension necessary for the cylinder to fill otherwise valve bounce may occur.
4. Check dosage accuracy. It is a wise precaution to check the dose with each new container used.
5. The injection attachment is designed for use with Luer needles only. To attach the needle simply slacken off the locking nut until the needle hub can be fitted to the tapered mount then re-tighten nut.

