

1ml Variable

Automatic Injector MODEL 09 WITH LUER MOUNT



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Our expertise is in your hands.



The NJ Phillips 1ml Automatic Injector is a precision instrument, with a high quality finish, designed for mass treatment of live stock and poultry with a variety of vaccines and injectable solutions. Given normal care it will last indefinitely. No responsibility will be accepted by the manufacturer should this instrument be used for any purpose than that intended.

SOME OF ITS MORE OUTSTANDING FEATURES ARE DETAILED BELOW.

POSITIVE NEEDLE LOCK

The novel easy-off fitting enables the Luer needles to be easily removed. To attach the needle, simply unscrew the locking nut until the needle hub can be fitted to the tapered mount, then retighten to secure the needle.

DOSE ADJUSTMENT

An extremely positive locking mechanism enables doses to be set and locked in position with ease. The cylinder is clearly graduated from 0.1ml to 1ml in increments of 0.1ml.

VALVE SYSTEM

Valve components are proven designs that are trouble free and are easily accessible for cleaning.

EASE OF STERILIZATION

There is no need to dismantle this instrument when sterilizing. Simply immerse the hand piece in boiling water (see instructions for use) or fill with a suitable chemical sterilant.

VISIBILITY OF DOSE

The unique stepped cylinder design provides full dose visibility while at the same time allowing a comfortable length of stroke without sacrificing accuracy.

ROBUST CONSTRUCTION

Our research and development team have skillfully combined a quality appearance with durability while keeping weight to a minimum.

INSTRUCTIONS FOR USE

1. 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:
 - a. Attach connecting hose to handpiece.
 - b. Wrap cloth around handpiece and draw hot water into the cylinder through the connecting hose.
 - c. Suspend the complete instrument in a container of water and boil, together with the needles, for 10 to 20 minutes.
 - d. Remove instrument from container, wrap cloth around the handle and pump dry.



Suspending the instrument not only makes it easier to remove, but also prevents damage should the container boil dry. Repeated boiling will eventually cause the transparent feed tube to turn cloudy. 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.**

2. Prime the instrument **holding it vertically, with the needle 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.

3. Align front edge of piston with the required dose graduation mark on the cylinder.
4. Test for accuracy by expressing into a properly calibrated measuring glass.

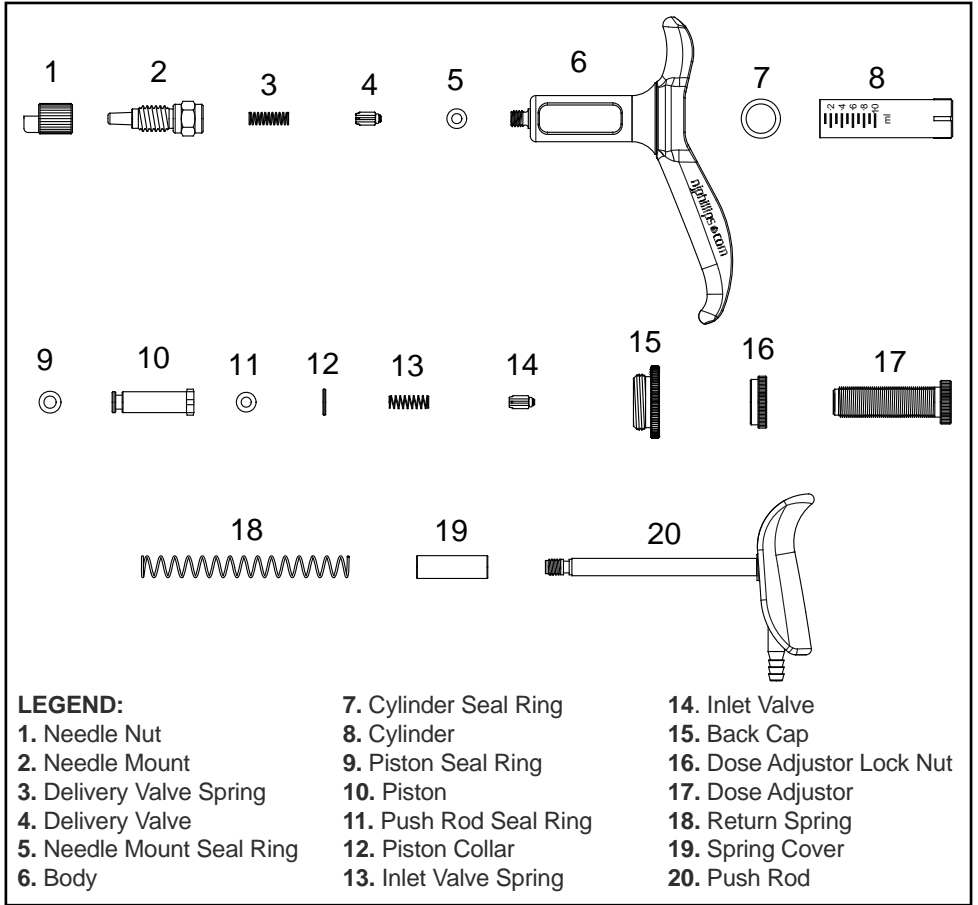
CARE AND MAINTENANCE

Before Use

As lubricants may evaporate during storage it is advisable to apply NJ Phillips Lubricant to the piston. Unscrew the dose adjustor fully to reveal access to the rear of the piston. This procedure should be followed after sterilization.

After Use / When Changing Products

1. Flush the instrument and connecting tube thoroughly with warm water and detergent mix.
2. Re-flush with clean water.
3. Lubricate the instrument by disconnecting the feed tube and drawing a small quantity of NJ Phillips Lubricant through the inlet fitting.
4. Occasionally check the piston seal ring for wear by removing the piston and push rod assembly. Take care not to damage the "O" ring groove when replacing the piston seal ring.



LEGEND:

- | | | |
|---------------------------|------------------------|----------------------------|
| 1. Needle Nut | 7. Cylinder Seal Ring | 14. Inlet Valve |
| 2. Needle Mount | 8. Cylinder | 15. Back Cap |
| 3. Delivery Valve Spring | 9. Piston Seal Ring | 16. Dose Adjuster Lock Nut |
| 4. Delivery Valve | 10. Piston | 17. Dose Adjuster |
| 5. Needle Mount Seal Ring | 11. Push Rod Seal Ring | 18. Return Spring |
| 6. Body | 12. Piston Collar | 19. Spring Cover |
| | 13. Inlet Valve Spring | 20. Push Rod |

PLEASE ORDER BY KIT AND PART NAME.

SPARE PARTS AVAILABLE:

<u>KIT No.</u>	<u>PART NAME</u>	<u>INCLUDES ILLUSTRATION No.</u>
WX749	Major Service Kit	3,4,5,7,8,9,11,13,14,18.
WX1118	Minor Service Kit	3,4,5,7,9,11,13,14,18.

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