

# 10ML VARIABLE AUTOMATIC INJECTOR



The NJ Phillips 10ml 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.

**Main features which make this instrument so practical:**

## SUPERIOR VALVE DESIGN

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 10ml. 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

Transparent 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 complete instrument in container of water and boil, with the needles, for 10 to 20 minutes.
4. 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.

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.**

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. **TO FIT A NEEDLE**  
To attach the needle to the injector, ensure the needle nut is screwed on tight; DO NOT remove the nut. Place the needle hub into the needle nut and turn clockwise to tighten.
6. **TO REMOVE A NEEDLE**  
Remove the needle by unscrewing the needle in an anticlockwise direction. If the needle is stuck, carefully use pliers to remove.

## AFTER INJECTING:

1. Thoroughly flush equipment with a mild warm water detergent mix.
2. Flush again with clean water until all detergent is removed.
3. Draw a small quantity of NJ Phillips Lubricant into the cylinder through the inlet fitting.

## INJECTING CATTLE

It is most important that the chosen site be clean, ideally swab the skin with surgical or methylated spirit.

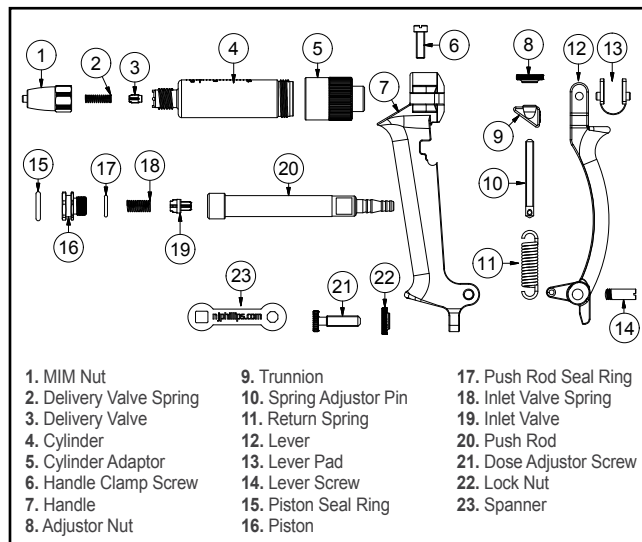
## INJECTING

The following points are worth remembering.

1. Sterilize the instrument by boiling in water for twenty minutes.
2. Always inject into loose skin.
3. Avoid injecting into a muscle or near a joint.
4. After injecting massage the site to disperse the injected solution.



**DO NOT store your applicator or feed tube full of product. Clean as per the "After Injecting" instructions.**



**PLEASE ORDER BY KIT AND PART NAME.**

## SPARE PARTS AVAILABLE:

KIT No.	PART NAME
WX1811	Major Service Kit
WX1810	Minor Service Kit

INCLUDES ILLUSTRATION No.
1,2,3,4,13,15,17,18,19,23.
2,3,13,15,17,18,19,23.



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*Our expertise is in your hands.*

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AS OUR POLICY IS ONE OF CONTINUOUS IMPROVEMENT THE MANUFACTURER RESERVES THE RIGHT TO ALTER THESE SPECIFICATIONS AT ANY TIME. ALL PRODUCTS PRODUCED BY NJ PHILLIPS PTY LIMITED, ARE IDENTIFIED BY A UNIQUE BATCH NUMBER. THIS IDENTIFICATION NUMBER IS AFFIXED TO THE PRODUCT TO ALLOW TRACEABILITY BY THE MANUFACTURER AND MUST NOT BE REMOVED IF PRODUCT INTEGRITY IS TO BE MAINTAINED.

PAS954 | QL850-R3

# 5ML VARIABLE AUTOMATIC INJECTOR



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 0ml 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.
4. 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.

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.**

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.

## AFTER INJECTING:

1. Thoroughly flush equipment with a mild warm water detergent mix.
2. Flush again with clean water until all detergent is removed.
3. Draw a small quantity of NJ Phillips Lubricant into the cylinder through the inlet fitting.

## INJECTING CATTLE

It is most important that the chosen site be clean, ideally swab the skin with surgical or methylated spirit.

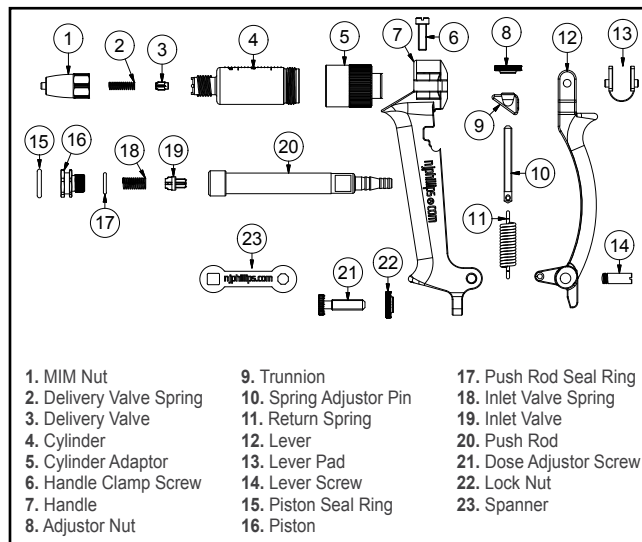
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**DO NOT store your applicator or feed tube full of product. Clean as per the "After Injecting" instructions.**



- |                          |                         |                         |
|--------------------------|-------------------------|-------------------------|
| 1. MIM Nut               | 9. Trunnion             | 17. Push Rod Seal Ring  |
| 2. Delivery Valve Spring | 10. Spring Adjustor Pin | 18. Inlet Valve Spring  |
| 3. Delivery Valve        | 11. Return Spring       | 19. Inlet Valve         |
| 4. Cylinder              | 12. Lever               | 20. Push Rod            |
| 5. Cylinder Adaptor      | 13. Lever Pad           | 21. Dose Adjustor Screw |
| 6. Handle Clamp Screw    | 14. Lever Screw         | 22. Lock Nut            |
| 7. Handle                | 15. Piston Seal Ring    | 23. Spanner             |
| 8. Adjustor Nut          | 16. Piston              |                         |

**PLEASE ORDER BY KIT AND PART NAME.**

## SPARE PARTS AVAILABLE:

KIT No.	PART NAME
WX1817	Major Service Kit
WX1810	Minor Service Kit

## INCLUDES ILLUSTRATION No.

1,2,3,4,13,15,17,18,19,23.
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PAS1099 | QL852-R2