20ml VARIABLE AUTOMATIC DRENCHER / INJECTOR



The Phillips 20ml Automatic Drencher/Injector (referred to as applicator) has been designed for the administration of most solution and suspension drenches and injectable solutions to livestock. It should never be used for vaccination of small livestock at dose settings of 2ml or less.

As components in this instrument may be affected by solvents in some 'pour-on' formulations no responsibility will be accepted by the manufacturer should the instrument be used with such products.

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BEFORE DRENCHING/INJECTING

Always read the label.

Check the label on the pharmaceutical manufacturer's container for dose rates, precautions, and safety information prior to use.

Use only the recommended dose rate.

Use only the pharmaceutical manufacturer's recommended rates. Refer to the pharmaceutical manufacturer's dose rate chart or specification. NJ Phillips Pty Limited will take no responsibility if the applicator is used for any other purpose than specified or used contrary to the pharmaceutical manufacturer's dose rate specifications.

Check the applicator.

Before each use, the nozzle should be inspected to ensure there are no sharp edges. Should this occur, remove with file or emery paper or replace nozzle.

INSTRUCTIONS FOR USE

Preparing the applicator.

Fit the appropriate nozzle or injection attachment assembly to the handpiece, taking care to ensure the delivery value and spring (item 7) remain facing in direction shown in the handpiece diagram.



Always exercise care when dosing animals. Do not apply undue pressure and ensure the nozzle is not forced against or through delicate mouth and throat tissues.

When drenching, use large barb inlet fitting (item 20) as supplied fitted to the instrument, taking care to ensure the inlet valve and spring (item 19) remain facing in direction shown in the handpiece diagram.

When injecting, fit dual barb inlet fitting (item 21) to handpiece, taking care to ensure the inlet valve and spring are positioned as above.

When 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. Fit injection attachment assembly (items 1, 2, 3, and 5) to handpiece.
- 2. Connect feed tube and spring to handpiece.
- Wrap cloth around handpiece and place end of feed tube into container of clean hot water and draw hot water into cylinder by depressing lever.
- Remove cloth and suspend instrument by fully immersing 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. 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.

Remove instrument and needles from container, wrap cloth around handle and pump dry, remove cloth and dry handpiece.

Attach connecting tube to both the hand piece and draw off system. Make sure the springs provided are screwed over the feed tube in an anti-clockwise direction. This will prevent the tube from kinking at these points. **Priming the applicator.**

To prime, set to maximum dose and actuate the instrument by depressing the lever quickly until material is drawn into the cylinder. Expel all air by holding the instrument in a **vertical position**, with the nozzle pointed upwards until both cylinder and nozzle are full.



Care must be taken to ensure the liquid does NOT come into contact with any part of the operator's body. Chemicals may cause injury to the operator.

To adjust the dose.

Loosen item 30 (dose adjustor lock nut). Depress the lever to take pressure off item 29, (dose adjustor screw). Adjust the dose adjustor screw in or out depending on the dose setting required. To set the correct dose, align item 13 (black piston) with the cylinder marking. Once the piston is in the correct position, release pressure on the lever and re-tighten item 30 (dose adjustor lock nut). (See calibration instructions)

Calibration of the applicator.

As the graduation markings on the cylinder are for reference only, check the accuracy of the instrument with a calibrated measuring glass. To ensure repeatability, squirt 5 x 5ml doses into a calibrated glass. The level of fluid should be at the 25ml mark. If it is not, readjust the applicator following the steps above then perform the dose test again. If you have problems with dose accuracy contact the manufacturer or place of purchase.

Cylinder fill rate and delivery pressure.

This can be varied by adjusting item 26 (return spring) tension. Turning item 23 (adjustor nut) on the trunnion assembly clockwise, will increase fill rate and delivery pressure, turning anticlockwise will reduce fill rate and delivery pressure. Minimum return spring tension should be used to achieve acceptable filling rate and delivery speed. If spitting occurs reduce tension on return spring.

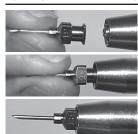
CARE AND MAINTENANCE

To ensure continued high performance from this instrument, attention to cleanliness is essential. After each use, flush the instrument and feed tube thoroughly by pumping through a warm water detergent mix, followed by clean water. Remove the feed tube from the instrument and suck a small quantity of NJ Phillips Lubricant into the cylinder by immersing the inlet fitting in the lubricant and gently pumping the lever. If at any time the instrument becomes sluggish in operation, maintenance by cleaning and lubrication should overcome the problem.



DO NOT store your applicator or feed tube full of product. Clean as per the "Care and Maintenance" instructions.

LUER LOCK NEEDLE FITTING



- 1. Position the needle in front of the needle nut.
- 2. Locate the needle onto the needle mount and turn clockwise to tighten.
- 3. The needle is now secured in place.

NJ PHILLIPS PTY LTD ABN 36 000 082 002

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TELEPHONE: +61 2 4340 2044 FAX: +61 2 4340 1991 EMAIL: njp1@njphillips.com.au MADE IN AUSTRALIA



njphillips@com

Our expertise is in your hands.

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.
PAD 1232C. PAD 1232. PASD 1232. EASI 1315. EASD 1265C. EAD 1127. EASD 1255C. EAD 1433. EAD 1434 I QLTOT-RY

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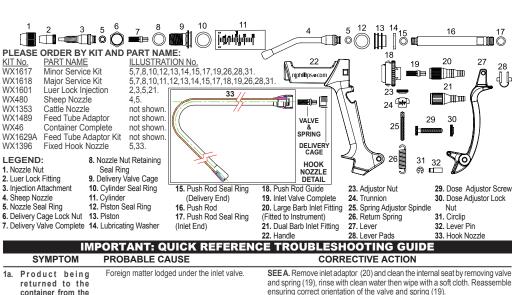
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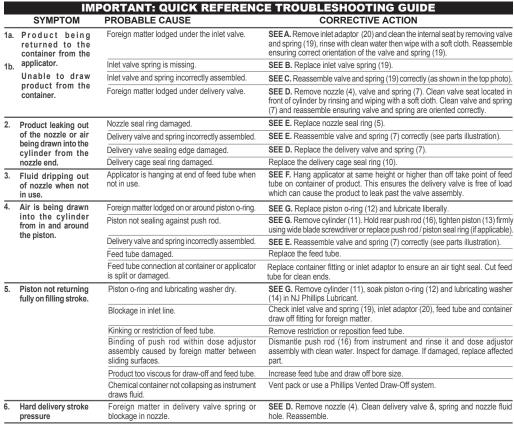
TELEPHONE: +61 2 4340 2044 FAX: +61 2 4340 1991 EMAIL: njp1@njphillips.com.au MADE IN AUSTRALIA

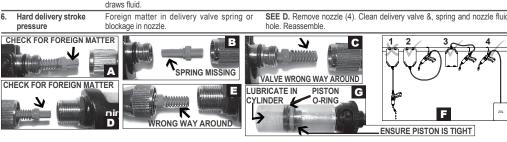


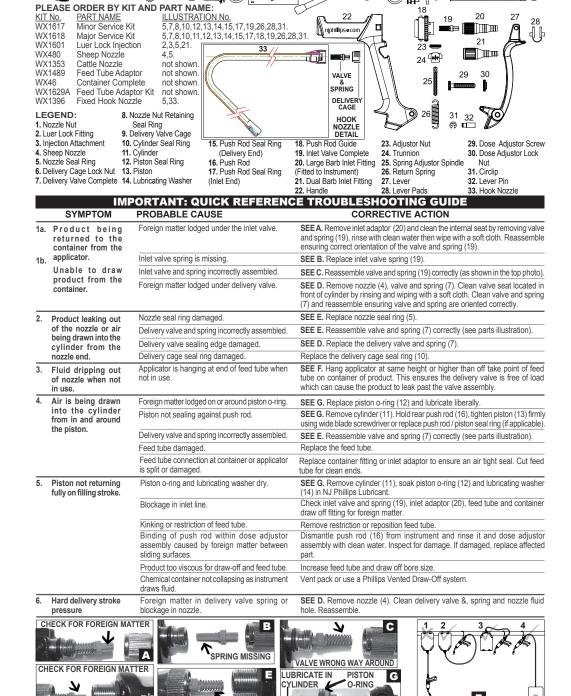
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WRONG WAY AROUND

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ENSURE PISTON IS TIGHT

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3 5