

# 50ml VARIABLE SEMI-AUTOMATIC INJECTOR WITH LUER LOCK



The 50ml Semi-Automatic Injector is designed for the administration of most vaccines and injectable solutions to livestock. **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.**

## INSTRUCTIONS FOR USE

### A. Sterilization

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. Draw hot water into the cylinder.
2. Suspend complete instrument in a container of water and boil together with the needles, for 10 to 20 minutes.
3. Remove instrument from container, wrap cloth around 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.**

### B. Filling

Before filling from a rubber-sealed glass bottle or vaccine pack, ensure that the release locking ring (item 12) is positioned fully back to disengage the ratchet, allowing the push rod to move freely in either direction.



Withdraw push rod fully, expel all air and set injector to the required maximum capacity.

Fit needle to syringe and pierce rubber bung on inverted bottle. Introduce air into bottle by pushing the push rod end knob (item 22) on to the push rod. Then, keeping bottle inverted, draw liquid into the cylinder. Repeat this procedure until the syringe is fully charged. Presence of excessive air bubbles indicates an air leak in the instrument or incorrect filling technique.



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.

## CARE AND MAINTENANCE AFTER USE

1. Remove all traces of material from syringe by flushing thoroughly with a hot water detergent mix. Follow with clean, warm water.
2. Lubricate piston by unscrewing the cylinder and placing a small quantity of NJ Phillips Lubricant onto the 'O' ring.
3. Place a few drops of NJ Phillips Lubricant on all moving parts.
4. When replacing the cylinder, make sure that the push rod is fully back for ease of location, otherwise damage to the cylinder could occur.



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

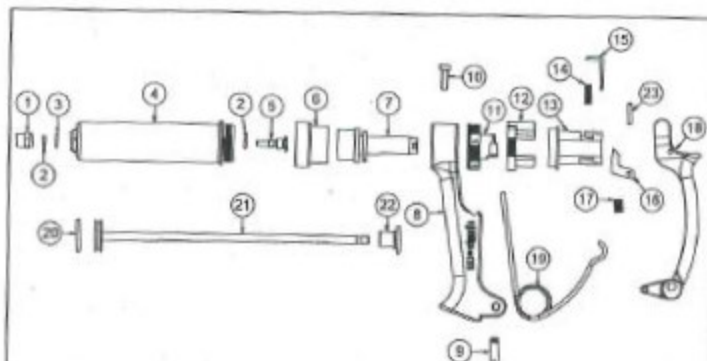
## REPLACING PISTON RING

Should it become necessary to replace the piston seal ring, the subsequent procedure must be followed.

1. Pull push rod fully back.
2. Unscrew cylinder from cylinder support.
3. Remove worn 'O' ring from piston, taking care not to damage the groove.
4. Lubricate new ring with NJ Phillips Lubricant and fit to piston.
5. Replace cylinder as directed in Care and Maintenance.



Do not attempt to dismantle the dose adjuster assembly as this should never be necessary.



- |   |                                  |
|---|----------------------------------|
| 1. Luer Lock Needle Nut                 | 12. Release Locking Ring         |
| 2. Needle Nut & Delivery Cage Seal Ring | 13. Dose Adjustor Locking Sleeve |
| 3. Fibre Seal Washer                    | 14. Ratchet Plate Spring         |
| 4. Cylinder                             | 15. Ratchet Plate                |
| 5. Luer Lock Mount Delivery Cage        | 16. Operating Pawl               |
| 6. Cylinder Support                     | 17. Pawl Return Spring           |
| 7. Push Rod Guide                       | 18. Lever                        |
| 8. Handle                               | 19. Return Spring                |
| 9. Lever Pivot Screw                    | 20. Piston Seal Ring             |
| 10. Handle Clamp Screw                  | 21. Push Rod Assembly            |
| 11. Dose Adjustor                       | 22. Push Rod End Knob            |
|   | 23. Pawl Pivot Pin               |

## PLEASE ORDER BY KIT AND PART NAME.

KIT No.	PART NAME	INCLUDES ITEM No.
WX1111	Cylinder & Delivery Cage Assembly	1,2,3,4,5,20.
WX1112	Push Rod & Piston Assembly.	20,21,22.
WX1115	Dose Adjustor Assembly	7, 11,12,13,14,15.
WX998	Trunnion & Spring Assembly	9,19.
WX1116	Service Kit	2,3,14,17,19,20.

Spare parts available from your local stockist.



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