



Instruction Manual

HSW SAFE – MATIC®

by HSW

for veterinary use only

FIXED DOSAGE at 2 ml





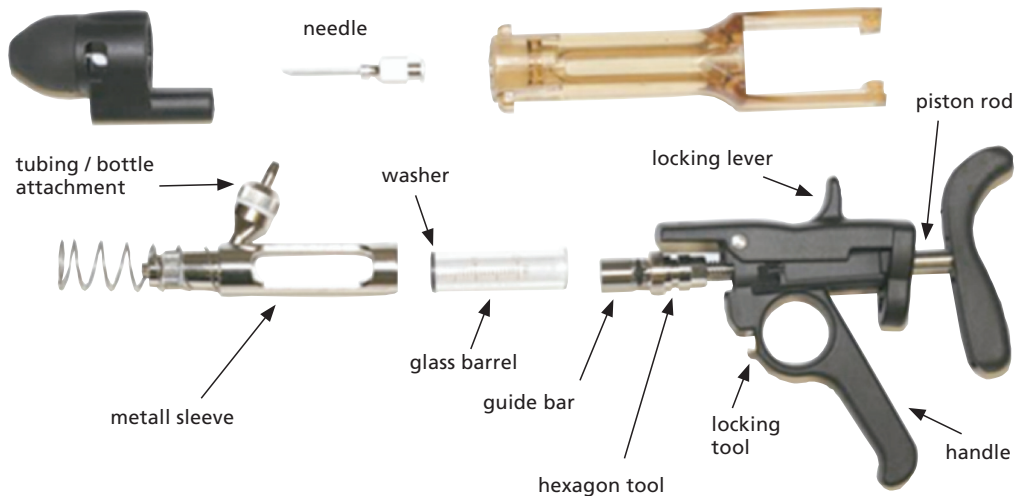
SAFE – MATIC®
by HSW



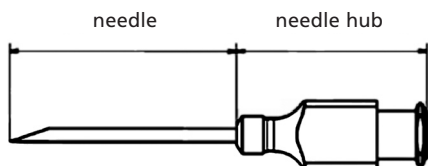
- automatic self filling syringe for injections
- with bottle or tubing attachment
- for use with standard 50/100 ml bottles
- 3-step safety feature to ensure proper and safe injection
- dosage fixed at 2 ml
- ergonomic design and handling
- silicone cap with tool
- durable amber safety sleeve to reduce UV sunlight exposure

silicone cap
with needle tool

safety sleeve



Insertion of the needle overview



There are differences in the needle hub of the different manufacturers. That is why the following is recommended:

- It is to make sure that the needle in the initial position (see safety step 1) isn't protrude of the silicone cap.
- After the insertion of the needle the injection depth (= length between needlepoint and silicon cap, see safety step 3) has to be checked.

	Needle length [mm] - [inch]	max. injection depth [mm] - [inch]
HSW- PREMIUM®	25 1"	12 3/8"
	30 1 1/2"	17 5/8"
	35 1 3/8"	22 3/4"
HSW-ECO®	25 1"	10 3/8"
	30 1 1/2"	15 5/8"
	35 1 3/8"	20 3/4"
Genia Plasti- Detect	25 1"	10 3/8"
	30 1 1/2"	15 5/8"
	35 1 3/8"	20 3/4"
Ideal D3	39 1 1/2"	20 3/4"

General Instructions for use

How to insert / change the needle



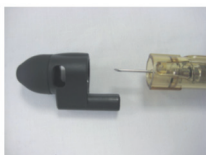
Remove the silicone cap by pushing in the two side tabs and remove the cap



Place needle in tool opening as shown
(will only fit square hub needles)



Insert needle onto syringe hub and turn clockwise until tight



Reinstall the silicone cap by placing the cap onto the side tabs
(needle tool must be installed to the bottom of the syringe)



Slide cap onto the syringe until the cap snaps into the locked position

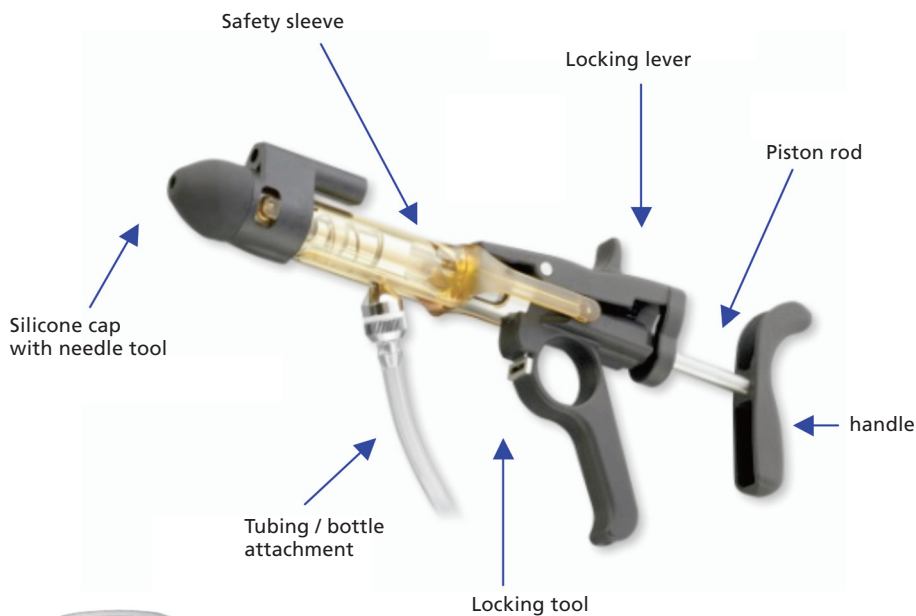
CAUTION:

Do not release the locking mechanism on the syringe to release the needle while sliding the silicone cap back onto the syringe to avoid accidental contact with the needle.



HSW SAFE-MATIC® – How to use the SYRINGE

- Step 1** Press locking lever and hold – to release safety sleeve
- Step 2** Push the silicone cap with safety sleeve into the injection site of the animal, the needle will be released through the silicone cap
- Step 3** The safety sleeve must be fully pushed to completely compress it into the syringe
- Step 4** Press locking lever down to the second step
- Step 5** Continue by pushing handle allowing the piston rod / plunger to make the injection
- Step 6** After the injection is done, release piston rod, syringe will reach its lock position automatically (safety position)
- Step 7** Repeat the procedure for the next injection



Bottle attachment

Filling / priming of HSW SAFE-MATIC®

For use with tubing

1. remove protection cover of the needle in case a disposable needles will be used
2. remove safety sleeve by opening the guide bar to the side – **Fig 1** – and remove safety sleeve – **Fig 2**
3. install needle as described in general use directions
4. attach hose to hose assembly and bottle to either draw off cap or ascending tube
5. squeeze handle and then release to draw fluid into the barrel (inject vaccine into an empty bottle)
6. to remove air bubble inside the barrel repeat this step. Hold the syringe upright and squeeze the plunger so that air bubbles can be released
7. please note that the syringe is fixed to allow a 2 ml dosage only

For use with a bottle

1. remove protection cover of the needle in case a disposable needles will be used
2. remove safety sleeve by opening the guide bar to the side – **Fig 1** – and remove safety sleeve – **Fig 2**
3. install needle as described in general use directions
4. insert bottle into the bottle attachment and lock firmly in place (50/100 ml bottles only)
5. hold the HSW SAFE-MATIC® at a slight incline and take care that the spike is below the liquid to avoid suck in of air into the barrel
6. squeeze handle and then release to draw fluid into the barrel (inject vaccine into an empty bottle)
7. to remove air bubble inside the barrel, repeat this step. Hold the syringe upright and squeeze the plunger so that air bubbles can be released
8. please note that the syringe is fixed to allow a 2 ml dosage only



– Fig 1 –



– Fig 2 –



How to disassemble the HSW SAFE-MATIC®



Push apart the locking bars carefully to the side



Remove the safety sleeve completely



Syringe barrel will be exposed



Pull out the locking tool



Press the locking lever down to release the handle from syringe



Insert the locking tool completely



Insert the metal hex sleeve and turn counter clockwise to remove



Remove plunger from glass barrel



Replace glass barrel and washer (Washer must be positioned on the luer lock end)

How to assemble the HSW SAFE-MATIC® Syringe



Install plunger into glass barrel (Lubrication should be done prior to this step. See lubrication guide)



Insert the metal hex sleeve into tool and turn clockwise to tighten



Insert handle onto the barrel and snap into place



Reposition locking bolt



Reinstall safety sleeve



Syringe is now ready to use

INSTRUCTION AFTER USE OF THE HSW SAFE-MATIC®

Remove all traces of material from syringe by flushing thoroughly with a hot water detergent mix. Rinse thoroughly with clean, warm water.

DISINFECTION / Autoclave

It is recommended that the HSW SAFE-MATIC® and a supply of needles be disinfected before and after each use.

1. Suck "hot" water into the barrel by using an attached bottle or tube with warm water
2. Suspend the complete HSW SAFE-MATIC® including needles in a container of water and boil it for at least 20 minutes
3. Remove the HSW SAFE-MATIC® from container, wrap cloth around the handle and pump it dry
4. The HSW SAFE-MATIC® is fully autoclavable (134° C / 273° F) and must be disassembled for this procedure (only separate the piston from the glass barrel only).

TO LUBRICATE:

If piston becomes sluggish:

Lubricate piston with 100% pure olive oil, cold squeezed or equivalent vegetable oil.

Please follow the manufacturer's durability and storage life instruction.

Do not use mineral oil, silicone, WD-40, glycerine or alcohol.

Petroleum based products, reduce the life of components.

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