

# HSW OcuPen – Instruction Manual

Precise Intraocular Vaccine Applicator for Kemin Poultry Vaccines

## 1 Intended Use

The HSW OcuPen is a device used in the poultry industry, specifically designed for administering vaccines intraocularly to poultry. It is part of a range of poultry devices from Henke-Sass Wolf (HSW), which are known for the precision and effectiveness in delivering vaccines at the optimal spot in the animal. These devices help ensure that vaccines are administered accurately and efficiently, which is crucial for maintaining the health and productivity of poultry flocks.

## 2 Overview



Fig. 1: HSW OcuPen



Fig. 2: Position for bottle assembly

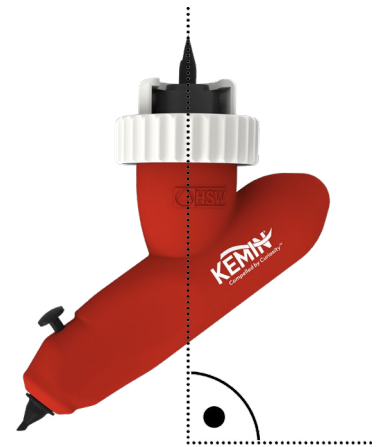


Fig. 3: Position for drop application

- A = Drop outlet / nozzle
- B = Trigger (to be operated with the index finger)
- C = Grip recess for thumb
- D = Bottle mount
- E = Bottle collar
- F = Sealing washer for 30ml eye drop bottles

## 3 Start-up / Priming

- 3.1 Remove the yellow rubber protection sleeve from the bottle mount spike.
- 3.2 Connect the bottle collar (E) to the eye drop bottle.
- 3.3 Mount the bottle incl. collar to the HSW OcuPen in the position shown above (fig. 2).
- 3.4 Please note the special sealing washer (F). It must be placed neatly in the neck of the bottle in order to seal properly.
- 3.5 To prime the HSW OcuPen, hold it in the position shown below:



The drop outlet / nozzle should be aligned horizontally (at 90° angle to the floor).



- 3.6 Push the trigger (B) approx. 30 times (the amount of liquid transported in this way corresponds to the dead space inside the applicator). As soon as the first drop appears at the drop outlet (A), you are ready for application.

## 4 Application

- 4.1 Hold the HSW OcuPen in the position shown above (see fig. 3) to make sure the attached bottle can be emptied completely.
- 4.2 To applicate one drop, press the trigger (A) once. When using the HSW OcuPen for the first time, press the trigger slowly to get a feeling for the amount of pressure needed to applicate one drop. The drop will fall off by itself.
- 4.3 As soon as the bottle is empty, immediately change to a full bottle to avoid the dead space to fill with air. If air was drawn into the HSW OcuPen / no drops are coming out the drop outlet, repeat step 4 of chapter 2 in order to re-prime the HSW OcuPen (less than 30 actuations may be required).
- 4.4 At the end of use, empty the HSW OcuPen completely and remove the attached eye drop bottle.

## 5 Cleaning

- 5.1 Fill a PET bottle with Isopropanol or a warm ( $< 45^{\circ}\text{C}$ ) water-detergent-mix and connect it via the black threaded collar (included in scope of supply).
- 5.2 Actuate the trigger (B) approx. 30 times until drops appear / fall off the drop outlet (A).
- 5.3 Actuate the trigger (B) another 10 times to rinse through the HSW OcuPen thoroughly.
- 5.4 Disconnect the PET bottle, empty and rinse it, then refill with clean fresh water and re-attach it to the HSW OcuPen via the black threaded collar.
- 5.5 Actuate the trigger (B) 50 times to rinse the HSW OcuPen thoroughly with clean fresh water and remove any residues of Isopropanol or detergent (which could harm the efficiency of the vaccine at next use).
- 5.6 Disconnect the PET bottle and actuate the trigger (B) until no drops fall of the drop outlet (A) and the HSW OcuPen is entirely empty.
- 5.7 If soiled, clean the exterior of the HSW OcuPen with a wet disinfection wipe.

## 6 Troubleshooting

- 6.1 In the event that air has entered the fluid path of the HSW OcuPen, you can remove it from the system as follows:
  - a. Hold the nozzle of the HSW OcuPen pointing slightly upwards (see below) – this will facilitate removal of air bubbles as air always rises upwards. The drop outlet / nozzle should be aligned horizontally (at  $90^{\circ}$  angle to the floor).

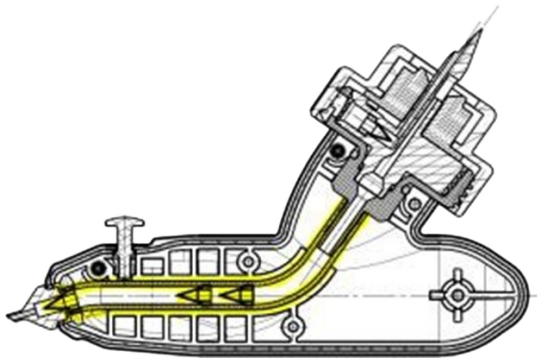


- b. At the same time, make sure that the suction spike is still below the liquid level in the
- c. attached bottle
- d. Push the trigger several times, until you notice a new liquid release on the nozzle
- e. If the above doesn't help, add suction pressure by gently squeezing an attached bottle with water until liquid is flowing out the nozzle. This will flush the fluid path.

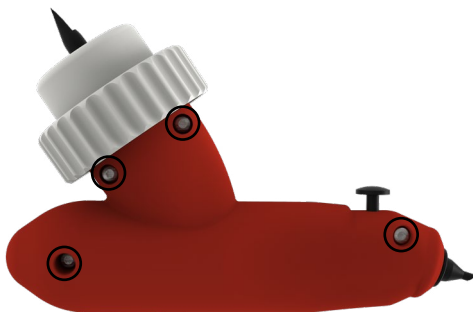
6.2 Clogging of the valves inside the inner tubing of the OcuPen can occur. Reasons may be insufficient cleaning, stuck particles, etc. In this event, suction of fluid is no longer possible and the inner tubing incl. valves needs to be replaced. An according spare part is available on request.

## 7 Servicing

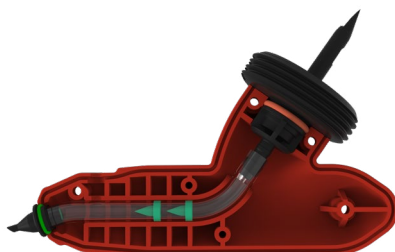
In the event that you wish to replace the nozzle or spare tubing incl. valves inside the OcuPen (marked yellow below), please proceed as follows.



- Remove the white bottle collar on top.
- Disassemble the four screws indicated below with a Torx T6 screwdriver (by turning them counter-clockwise):



- Remove the upper half-shell.
- Remove the tubing (incl. nozzle and bottle holder) from its holder inside the lower half-shell.
- Exchange nozzle (incl. one valve) and / or tubing (incl. two valves) as needed. The valves are included in the official spare parts already.



- When reassembling the tubing to the bottle holder, ensure that the ventilation valve on the bottle holder is aligned with the tip of the nozzle. The nozzle tip and the ventilation valve must each be aligned at 12 o'clock.
- Place the tubing (incl. nozzle and bottle holder) back into its holder inside the lower half-shell.
- Place the upper half-shell back on the lower half and press it lightly into position.
- Reassemble the four screws by turning them clockwise.

## 8 General safety advice for operating and cleaning

Note Follow the operation and cleaning / maintenance instructions carefully.

- ⚠ Direct contact between the vaccine and the eyes and/or respiratory tract of the operator can be harmful. In these cases, seek immediate medical advice and show the vaccine information sheet.
- ⚠ Do not point the OcuPen at any part of your own body or at other people! This can lead to injury or accidental application of the vaccine.
- ⚠ The use of unauthorized substances or the overdosing / underdosing of these authorized substances can lead to adverse health effects in animals or later in humans. Keep children out of the operating area.
- ⚠ Beware of the spike at the bottle holder. It may contain residues of the vaccine and/or rinsing fluid. In case of a spike wound, seek immediate medical advice and show the vaccine information sheet.
- ⚠ Wear safety goggles, rubber gloves and a mask when using the device. Ensure goggles are clean for optimal vision.
- ⚠ Wear rubber gloves when cleaning the device.
- ⚠ Use product only if fully functional and correctly assembled.
- ⚠ Use only new und fully functional parts, supplied by Henke-Sass, Wolf to replace defective parts.

Note Only healthy animals should be vaccinated.

Note For proper operation the device can be used in areas up to 2000 meter above sea level.

## 9 Explanation of packaging symbols

### eIFU:



This symbol indicates that a digital instruction manual is available for this this syringe. The digital instruction manual can be found under the following link: [www.henkesasswolf.de/manuals/ocupen](http://www.henkesasswolf.de/manuals/ocupen) or by scanning the QR code shown on the header card.

### Recycling codes:

The recycling codes provide information about the material used and can be helpful for waste separation.



The letter abbreviation PAP identifies cardboard and paper.  
PAP 21= Other cardboard



The letter abbreviation PE-LD identifies a particular plastic.  
PE-LD 04 = Low density polyethylene