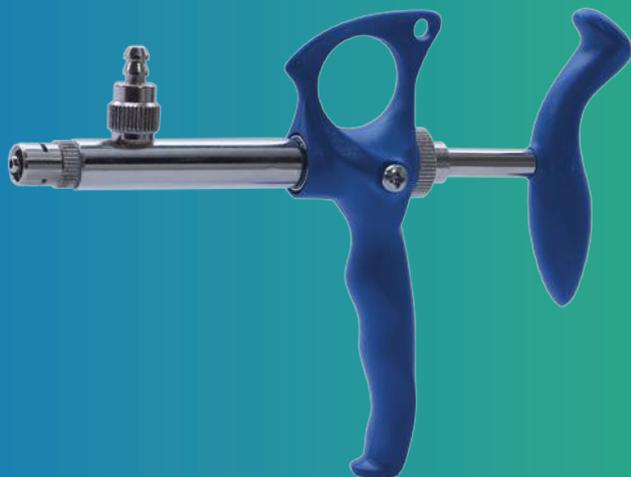




# Veterinary syringes guide for **Poultry**

Additional guides - swine, cattle & livestock, small animals



# How to choose the best syringe for poultry vaccination?



From farm manager responsible to millions of birds to backyard-farmers raising a few dozen chickens, vaccinating your flock on a regular basis is essential to maintaining a healthy farm.

While choosing the vaccine itself maybe complicated, and consulting with your veterinarians and experts is recommended, choosing the syringe you will use can be rather simple.

So how do you choose the right syringe for the job?

Our first recommendation is to always remember that the syringe is a tool that must meet your specific vaccination needs. To choose the best tool for the job, start by answering the following questions: How many birds do you need to vaccinate? How many injection days do you have in a month? How important is it for you to control the vaccination dosage? Who will vaccinate the birds (you or a vaccination crew)? How durable do you need the syringe to be? How accurate do you need the syringe to be?

We created this guide to help you choose the best syringe for your job. This guide will help you understand the different options currently available on the market. From adjustable or fixed dosages, glass barrel or all metal, vial holder or hose drawing, single or double, and more.

We are confident you will find this information useful and informative. If you still have questions or need additional information please contact us.



[www.thama-vet.com](http://www.thama-vet.com)

# Automatic syringe, what does it mean?

When hearing the syringe is automatic, one might think we are talking about a complicated syringe, with wires, buttons and batteries, a massive tool hard to operate. When in fact the automatic means that the syringe is a self-refill syringe.

When calling a syringe – **an Automatic Syringe**, the automatic means that by the end of each injection the syringe will be ready for the next injection – automatically. Not like the simple plastic syringes that require you to manually draw the vaccine for each injection, the automatic syringe does this job for you.

Automatic syringes are easy to use and operate. They are generally favored by farmers seeking to make their vaccination process more efficient.

## Fixed dosage syringe or Adjustable syringe

No matter what type of syringe is used, accuracy is one of the most important parameters you should consider when choosing a syringe for your next vaccination.

There are two ways to set the dosage in your syringes - fixed dosage or adjustable.

### Fixed dosage system:

Syringes with fixed dosages are often all metal syringes, where you don't see the vaccine. The dose is set via premeasured pistons. Each piston is manufactured and tested to give an exact dose of vaccine. When placing the chosen piston in



the syringe, the syringes will automatically provide the same dose amount in each shot.

Operating a fixed dosage syringe is easy, once the needed piston is placed in the syringe, the dose is fixed, no need to check it throughout the day.

**Adjustable system:**

An adjustable syringe usually comes with a glass barrel, yet it can be an all metal syringe as well. Setting the dose in an adjustable syringe is done manually by the user, using a special nob. The dosage can be set to any dose within the syringe capacity.



## All metal syringe or Glass barrel syringe

Syringes can be made of a variety of materials – metal, glass or plastic.

The material used, determines the durability and operational usage of the syringes.

**All metal syringes**

An all metal syringe is the most durable type of syringe. The syringe body and parts are made of metal, which does not break or damage easily. Made with noncorrosive metal they are easy to use and operate.

Setting the volume with an all metal syringe can be either by an adjustable or a fixed dosage system. In metal syringes you do not



see the vaccine, so checking and rechecking the dosage visually is not possible. It is time you trust the professionalism and expertise of your syringe manufacturer; the same way we do for other technologies & innovations we take for granted. It will save you time and ensure consistency during your vaccination.

Keep in mind that even though you cannot see the dosage, you can still feel it and know the injection was done properly.

### **Glass barrel syringes**

The traditional syringes are adjustable glass barrel syringes, that you can actually see the vaccine through the glass. You can set the syringe to give the exact needed dose by adjusting it manually, as the dose marking are easily seen on the glass.

The glass used in the syringes is tempered and reinforced to make it as durable as possible, the dose markings are engraved to the glass and last for years.

The syringe body and parts are made of metal, the syringe itself is durable, yet the glass is still glass and could break if not handled carefully.

### **Plastic syringes**

Plastic syringes are the least durable syringes. They break easily and often during the vaccination process.



# Single barrel syringe or Double barrel syringe

Poultry, in all stages of the growing process, are vaccinated often throughout their life cycle. Some vaccinations are administered through the water or feed, and some through vaccination shots. Each shot contains one vaccine.

When using a **single barrel syringe**, each shot contains one vaccine in the needed dosage. The worker takes each bird and injects the vaccine one by one. It may happen that in a matter of days, the bird will need to be vaccinated twice or even more.

When using the **double barrel syringe**, you can administer two different vaccines at two different dosages with each shot, so for each vaccine you have a different dose. With one action you get two injections. It saves the worker time and effort, and equally important – it saves stress from the bird as it gets vaccinated once instead of twice.

The double syringe is equipped with a special 2-to-1 bridge.

When using the bridge, not only do you administer two vaccines at two different dosages, you can also choose whether to do it with one needle or two.



ThaMa 220



ThaMa 222

# Hose drawing or Vial holder

An automatic syringe is a self-drawn syringe; the vaccine is drawn automatically after each vaccination. There are two ways to draw the vaccine into the syringe, using a hose or a vial holder.

## Hose drawing

When working with a hose, the vaccine is placed in a big plastic bottle. The hose is connected on one end to the syringe and on the other end to a long cannula needle, which is placed inside the vaccine bottle.



ThaMa 220

Working with a big vaccine bottle enables the user to inject constantly for as many shots as possible, the user can work with no interruptions for hundreds of shots.

With each shot, the vaccine is drawn from the vaccine bottle, through the cannula needle and the hose. Working with the hose is recommended for mass injections when one needs to continuously inject hundreds of shots.

## Vial holder

The vial holder is a special part used to connect the original vaccine bottle directly to the syringe. In this way, the injection is done directly from the vaccine bottle.

The syringe body is built specially to hold the vaccine bottle steadily. Even though the vaccine bottle adds weight and changes the overall shape of the syringe, the balance is kept with the vial holder, and the user can inject easily and sturdily.



ThaMa 223

Working with the vial holder is recommended when the quantity of injection needed is not large, and the original vaccine bottle is enough. When using the vial holder, special attention is given to each shot.

### Which option is better?

There is no definite answer. You need to choose the best option for your injection needs.

If you plan to mass vaccinate, it may be easier to work with a big vaccine bottle and inject hundreds of shots one after another - consider using the hose.

If the task requires you to pay close attention to every shot, and you plan to inject for relatively lower quantities - consider working with the vial holder.

## Fowl Pox inoculation Needle stabber vs. ThaMa Pox Vaccinator

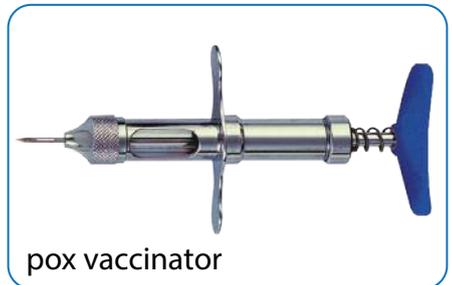
The needle stabber is the traditional way used to inoculate pox vaccinations.



To work with the needle stabber, you need two workers, one to hold the bird and one to vaccinate. The vaccination process itself, requires the worker to hold the vaccine bottle on one hand, dip the stabber in the bottle, using the other hand, and stab the bird. While doing that the workers can often get stabbed and hurt themselves. Also, in this process, a lot of vaccine is wasted with drops spilled on the way.

The **ThaMa-Vet automatic pox vaccinator** is a game-changer. It completely revolutionizes the pox vaccination process.

Only one person is required to vaccinate the birds. To vaccinate they will be holding the bird in one hand and the ThaMa



Pox vaccinator in the other hand. It is as simple as that. No finger stabbing and no leakage. It saves time, reduces the amount of work force required, makes the vaccination process easier, faster and most importantly – safer.

## Pox Vaccinator

### One needle or 2 needles

Pox vaccinators are used for wing web vaccinations, they are single handedly operated, easy to use effective and safe. The Pox Vaccinator can have either one needle or two.



When using the 2 Needles Pox vaccinator you poke the wing twice, therefore more blood comes out and the absorption of the vaccination is better.



## Why are Pox vaccinators are only up to 5cc?

Pox vaccinator volume is limited to 5cc for 2 reasons:

- The vaccine should be administered cold. (up to 45°F (7°C) according to the vaccine manufacturer recommendations). In order to maintain the vaccine cold, the ThaMa Pox vaccinator has limited capacity.
- Once the vial is open, the pox vaccine cannot be restored. Therefore the ThaMa Pox vaccinator is up to 5cc, to avoid vaccine waste.



# ThaMa 220 - Fixed dosage syringe vs. ThaMa 205 - Adjustable syringe

The **ThaMa 220** is an all metal fixed dosage syringe. ThaMa 220 is a single barrel syringe, with 5 different pistons to set the needed dosage. Each piston is preset to a specific dose, and each unit comes with the following piston set 0.1cc, 0.2cc, 0.25cc, 0.3cc and 0.5cc.

Once the piston is set in the syringe the dose is fixed. There is no need to check or regulate it again. The dose will remain the same for each injection all day long. Pistons are preset and tested often, so rest assure accuracy is at the highest level.

The **ThaMa 205** is a glass barrel adjustable syringe. The volume is set manually with a special knob. The ThaMa 205 capacity is between 0.1cc to 0.5cc. Hence the volume can be set to any dose within this range. As the volume is set manually by the user, it should be checked every now and then to ensure the dose is still set properly.



ThaMa 220



ThaMa 205

# Adjustable syringes - ThaMa 205, ThaMa 210, ThaMa 240 what is the difference between them?

ThaMa-Vet offers a variety of syringes, some may look similar, yet there are differences that are important to know.

All of the following syringes are adjustable syringes, with glass barrel. The dose is set using a special knob. All syringes are designed for mass vaccination using a plastic hose, the difference is in the dosage range.

**ThaMa 205** is the smallest glass barrel syringe available. Its volume ranges between 0.1cc to 0.5cc, in 0.1cc jumps.

The **ThaMa 210** is the most common glass barrel syringe for poultry. Its volume ranges between 0.1cc to 1.0cc, in 0.1cc jumps.

The **ThaMa 240** is used for larger vaccine dosages. Its volume ranges from 0.2cc to 2.0cc, in jumps of 0.2cc. in the poultry field it is more suitable for Turkeys.



ThaMa 205



ThaMa 210



ThaMa 240

# ThaMa 320 - All metal adjustable syringe ThaMa 220 and ThaMa 210 combined

**ThaMa 320** is a special syringe, with a unique combination between an all metal syringe with an adjustable system.

The ThaMa 320 has the advantages of an all metal syringe, it is a strong durable syringe, with easy maintenance. In addition, it has the adjustable system, as in the glass barrel syringe, so the user can get the needed dosage every shot.

Due to its special features – durability and adjustability - the ThaMa 320 is designed for mass vaccination.



ThaMa 320

## ThaMa 223 – A unique syringe for pigeons

**ThaMa 223** is a unique syringe, custom designed after we receive specific request from farmers to have a durable all metal syringe with a fixed dosage system that is equipped with a vial holder.

The fixed dosage system is the preferred method for mass vaccination of poultry. It gives an accurate dose in each shot, with easy dose setting, while keeping the maintenance as easy as possible.

When adding the vial holder to the ThaMa 223, all the benefits



ThaMa 223

of mass vaccination are provided for single shots as well. With the vaccine bottle attached to the syringe, the user can provide an accurate dose with the easiest system available.

The ThaMa 223 is especially designed for poultry and other small animal – rabbits, pigeons and many more.

## How to clean and sterilize the syringe?

All ThaMa syringes can be cleaned in various of ways.

- Soapy water – cleaning can be done by soapy water, hot or cold.
- Boiling water – the syringe can go in to boiling water.
- Alcohol – the syringe can be sterilized by alcohol.

### **Sterilize**

All parts of the syringe can be sterilized and autoclaved for a temperature up to 120 degrees Celsius / 250 Fahrenheit.

Any way you chose to clean the syringe, it is important to do so after every working day. When you finish the injections for the day – be sure to clean the syringe thoroughly to insure proper functioning on the next injection day.



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