IMPEX
WATERING SOLUTIONS

pe services

Welcome!

Broiler Conference 2024

Monday, 14 October
Monaghan

Wednesday, 16 October
Limerick

Topics discussed will include Heat Exchangers, Coccidiosis Control and Combating Campylobacter

Book today!

Welcome!

Mark Abrahams

Area Manager at Impex Barneveld

FACTS & figures

700+
CUSTOMERS

pe services

90+
export countries

2
branches

1 factory
4.000 m²

6
continents

2.500
products and (spare) parts in stock

Nipple factory (Neher GMBH)
Wickengartenstraße 8
D-35789 Weilmünster

Impex USA
2170 Hilton Drive
GA 30501 Gainesville
2.500 m²

Impex Europe
Harselaarseweg 129
3771 MA Barneveld

90
employees

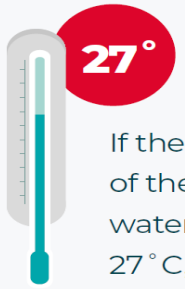
5.000 m²
Warehouse in the Netherlands

Drinking water solutions for:

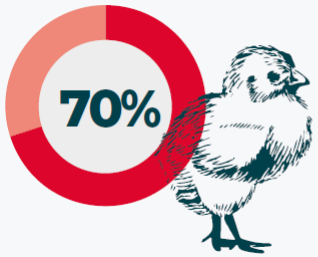
- Poultry
- Pigs
- Cattle
- Rabbits

Water facts

Why is water so important for poultry?

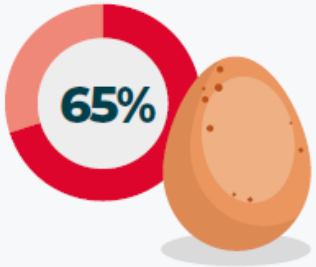


If the temperature of the drinking water is higher than 27 °C, the water intake will decrease



A broiler consists of 70% water and cannot go a day without it

When the temperature rises above 30 °C, the water intake of a full-grown laying hen is almost 20% of its body weight



An egg consists of 65% water

A broiler drinks +/- 1.8 grams of water for every gram of feed

On average, a laying hen drinks about 200 ml of water per day

A closed drinking system:

Improves hygiene

A closed drinking system is way more hygienic compared to an open water source.

Reduction of medicine usage!

Reduces spillage

Closed drinking systems reduce the risk of spillage and therefore the risk of certain deceases.

Drier manure/litter!

Ensures optimal dosing

Closed drinking systems make it easier to administer the right amount of additives.

Saves costs!

Why a quality system
is important

- Guaranteed optimal flow rate
- Quality materials, so no leaks (stainless steel and plastic)
- Nipples are tested individually

The Factory

- State of the art factory with the newest nipple production machinery
- Fully automatic nipple-parts cleaning machinery for high quality finishing
- Manual quality measuring during production process

The Factory

- Fully automatic nipple assembling and flow testing robotics
- 3D quality measuring machines in conditioned room
- Machinery for nipple durability tests

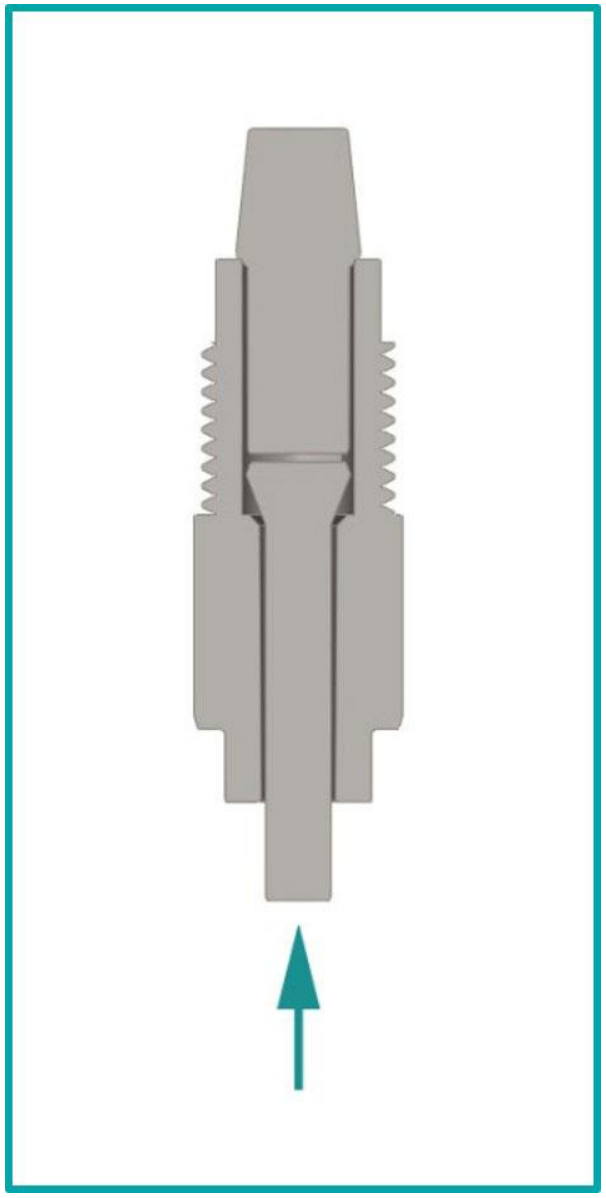
Check our Factory video

The right

Nipple drinker

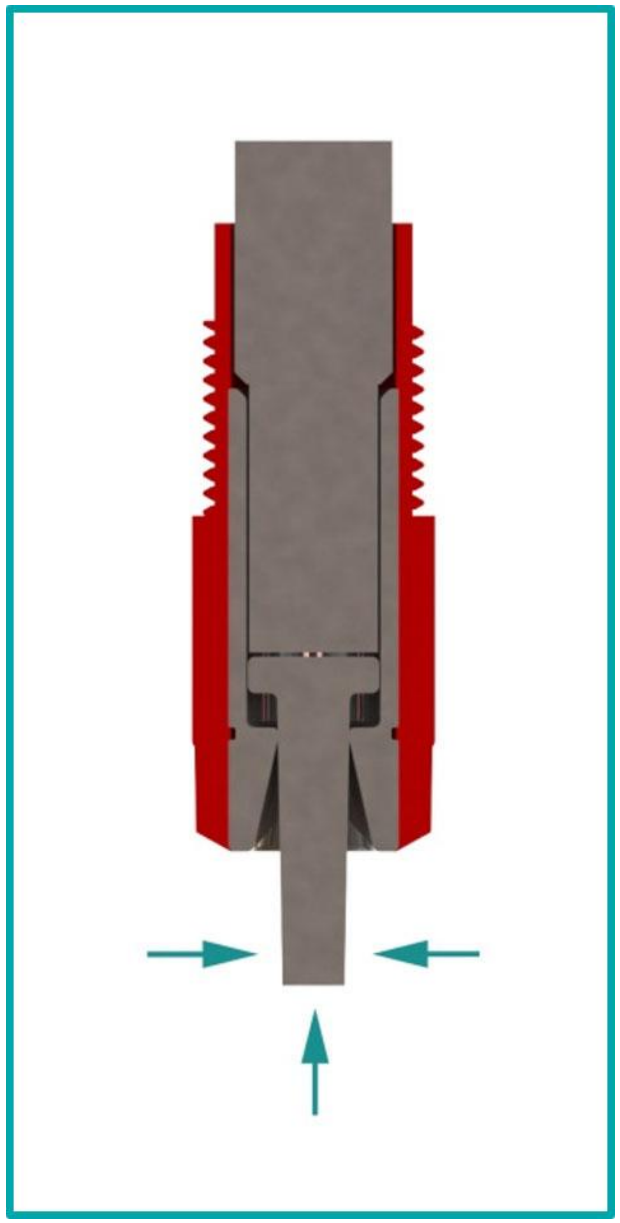
It is very important to choose the right type of nipple for your poultry. Impex has two lines:

- **I-Classic nipple drinkers**
- **I-Flex nipple drinkers**



The I-Classic nipple drinker

- These nipples have a 180° movable pin;
- Specially designed for poultry aged app. 16 weeks and older;
- Designed for poultry that are used to nipple drinkers;
- Precision-made so the water supply is enough, but not too much;
- All nipples are made entirely of high quality stainless steel and some with Delrin outer body;
- These nipples are especially suitable for layers and parentstock.



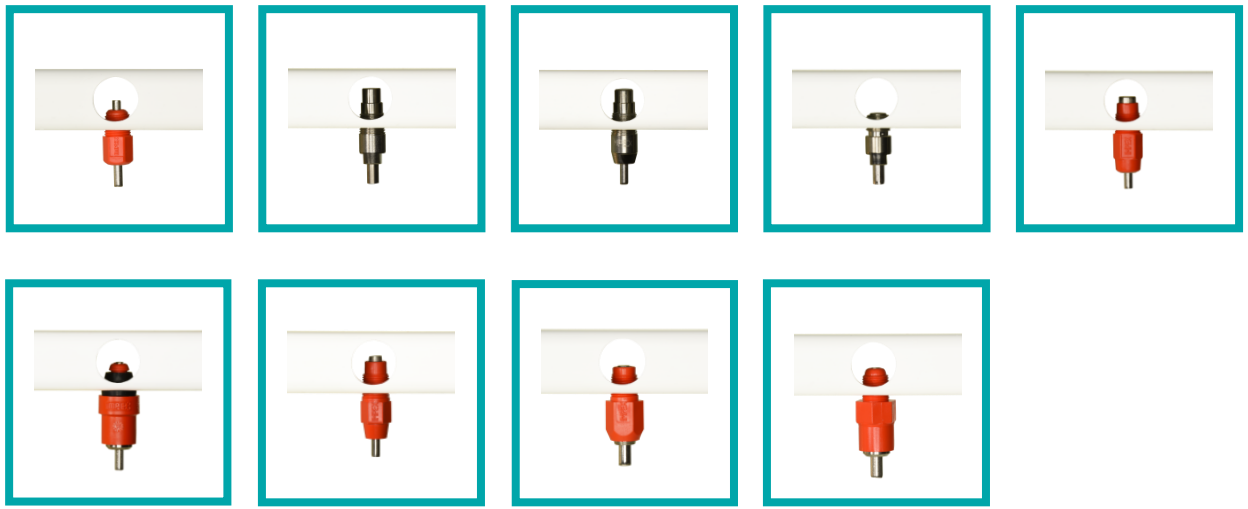
The I-Flex nipple drinker

- Easy water access because of its 360° side-action pin;
- A must for day-old birds;
- The water supply is just sufficient in every stage of the birds life;
- Precision-made so the water supply is enough, but not too much;
- All nipples are made entirely of high quality stainless steel and some with Delrin outer body;
- These nipples are especially suitable for broilers, rearing and layers.

I-Flex types

Depending on the flow rate, these nipples can be used with a drip cup. They are best suitable for:

- Layers (aviary)
- Rearing / Breeder all-in, all-out
- Broilers



I-Flex 17 LF for Broiler

IMPEX WATERING SOLUTIONS

WATER FLOW RATE

I-Flex 17-LF

No. 03.01.11710

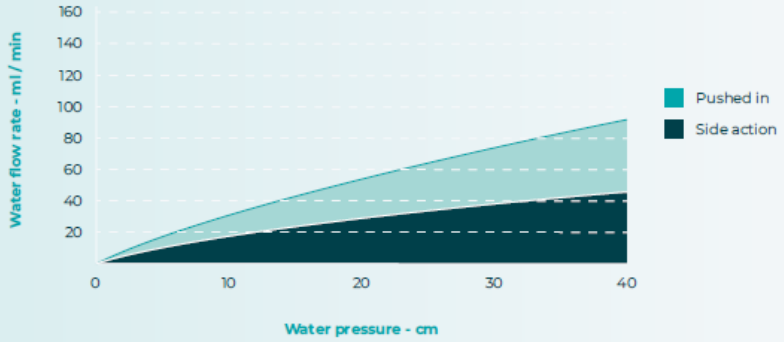
Impex.nl

Pushed in

Water level / cm	Ml / minute
0	0
10	32
20	53
30	72
40	88

Side action

Water level / cm	Ml / minute
0	0
10	16
20	27
30	37
40	45

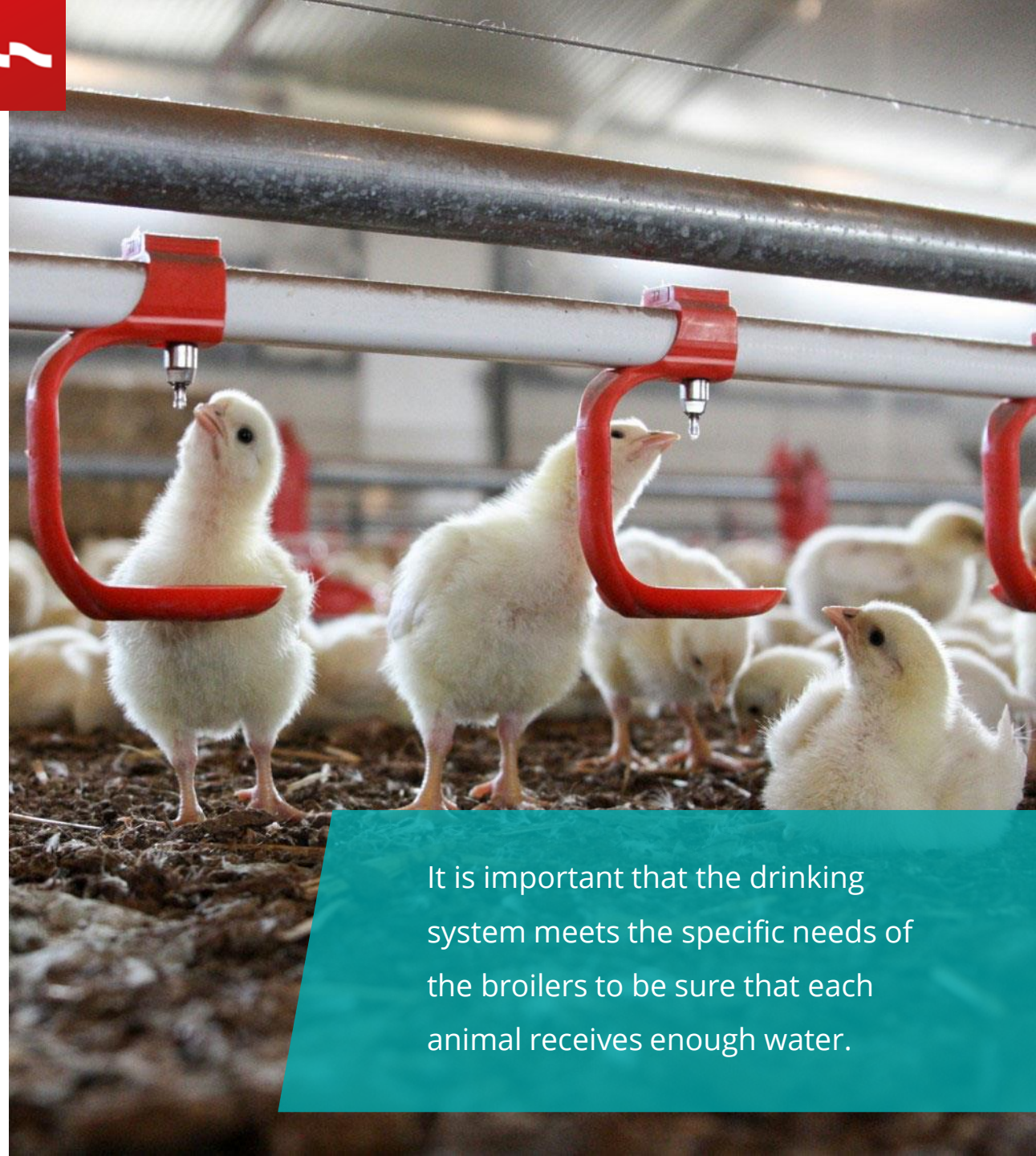


Measured at an ambient temperature of 20 °C

Proper management

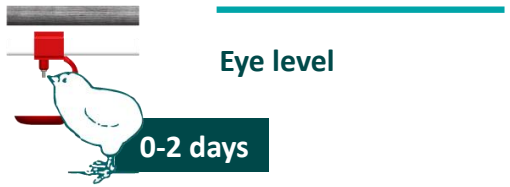
Even with a high quality closed drinking system there are several things to keep in mind:

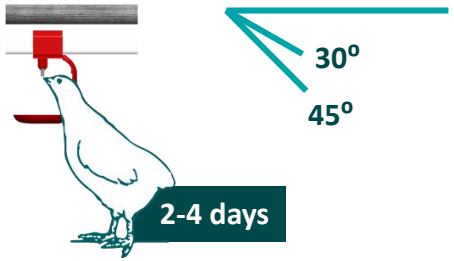
- Correct height of the lines
- Correct water pressure
- Correct water flow

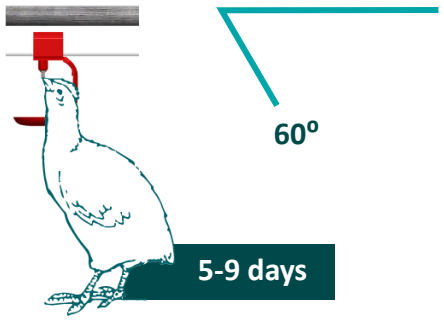


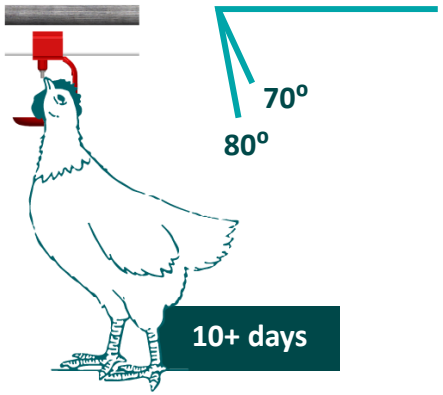
It is important that the drinking system meets the specific needs of the broilers to be sure that each animal receives enough water.

The correct height



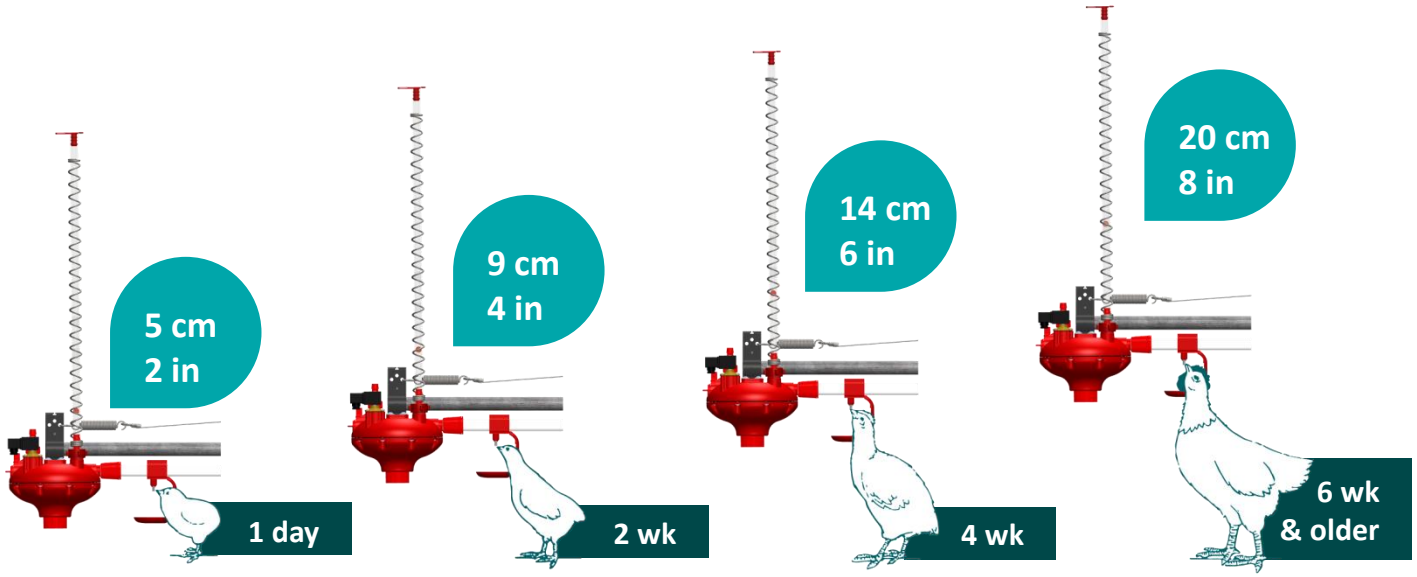






*All the numbers mentioned are indications

The correct pressure



*All the numbers mentioned are indications

Too high

The birds will spill more water when the pressure is too high. This results in wet litter under the drinking line.

Too low

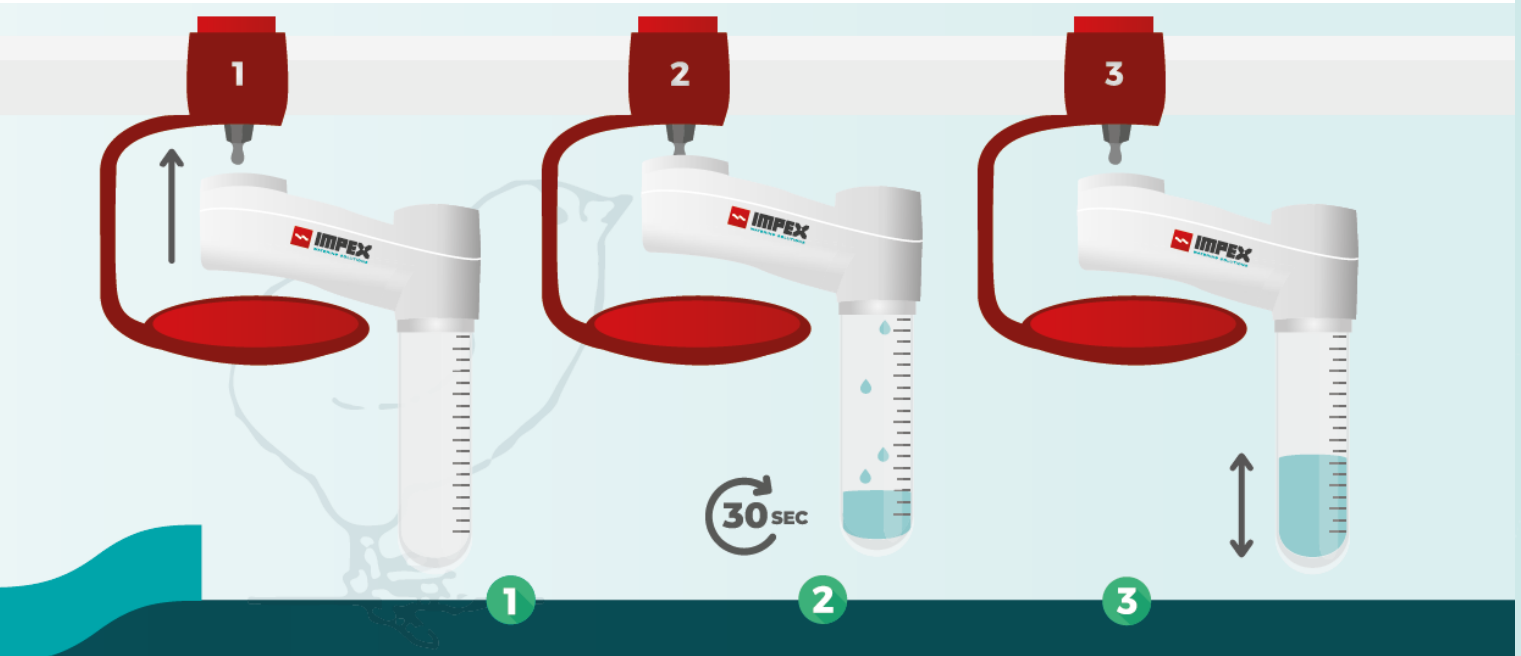
The birds will struggle to drink enough water if the pressure is too low. A bird that drinks less will also eat less, resulting in less weight gain.

Regular checks

- Monitor the water pressure in the drinking line and adjust when necessary.
- Check if the drip cups are (relatively) dry. If there is water in the cups, the pressure is probably too high.
- Check the individual nipples at regular intervals for possible blockages or leaks.
- Check if the litter under the drinking lines is dry. If not, the pressure is probably too high.

Checking the flow rate

Impex water flow meter



Impex
Water Flow Meter

INSTRUCTIONS HOW TO USE

1

Activate the nipple

Place the Impex Water Flow Meter underneath a drinking line and activate the nipple with the mesh.

2

Record 30 seconds

Activate the nipple for 30 seconds to collect the water, time it with a stopwatch.

3

Check the water flow

Check the water amount after 30 seconds and multiply by 2 for the water flow rate per minute.

Correct water flow rate

In general the water flow rate per minute of a nipple pushed in should be in the following range:

WATER LEVEL X 2 = WATER FLOW PER MINUTE

Broilers	35 ml - 80 ml 1.18 fl oz – 2.70 fl oz
Layers	45 ml - 90 ml 1.52 fl oz – 3.04 fl oz

The correct water flow rate for your flock depends on poultry type and regional conditions. Check the management handbook from your poultry supplier for their recommendation or contact them.

impex.nl

Maintaining quality

It is crucial you give the drinking system and the water itself adequate attention by:

1

Keeping the lines clean

It is very important to keep the lines free from microbial growth like biofilm.

2

Measuring the water quality

Routine checks of the water in the lines and the source is highly recommended.

3

Using additives

When using additives/medicines you should thoroughly clean the lines before and after.

What is a Biofilm

A biofilm is a slimy substance which serves as a breeding ground for micro-organisms.

It is actually a protective mode that allows micro-organisms survival in a hostile environment.

Biofilm in drinker lines reduce the effectiveness of medicine treatments and supplements.

What causes a biofilm

- Poor water source
- Poor quality of materials
- High temperature
- Slow movement of water
- No cleaning or ineffective cleaning

Regularly flush your drinking system

- **Between flocks**
- **Before and after medication / using additives**
- **Especially during the first weeks of a round**
- **Ideal is a combination of flushing and the use of cleaning products**

Why automatically?

With an automatic flushing system you can:

- Pre-set the duration of the flushing per line
- Automatically fill the drinking lines
- **Reduce labour time**
- Use a pre-set flushing schedule

I-Flow pressure regulator

The I-Flow pressure regulator has a manual flush option. To automatically flush the drinking lines, an optional actuator can be connected

The Impex I-Flush system

Besides the I-Control computer, the I-Flush system exists of (and needs) a few more components to flush the lines automatically;

I-Flow end set

The I-Flow end air outlet set is installed at the end of each drinking line. It closes automatically during flushing.

Drain pipe system

A connection can be made between the I-Flow end air outlet set and the main drainage pipe, by using a straight or spiral hose.

The Impex I-Flush system

The I-Control flush computer is the heart of the I-Flush total hygiene solution.

- Duration of the flushing program: to pre-set specific flushing preferences in the I-Control.
- No water wastage: the computer can calculate and pre-set the exact amount of water to fill or flush the drinking lines.
- The flushing program can be interrupted when medicating to prevent medication wastage.
- Option of single, total or automatic flush.

Is used for up to 10 groups and if there is a sufficient water supply, up to 3 drinking lines per group

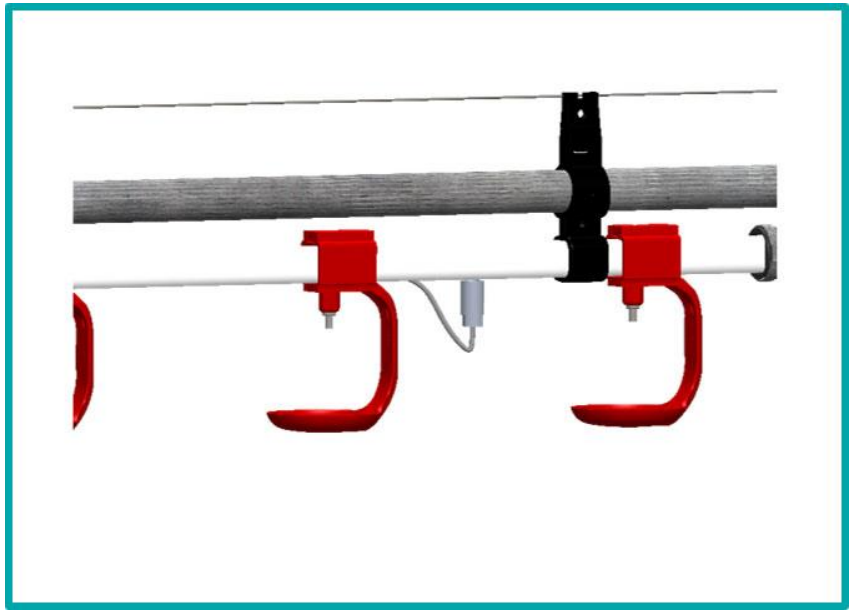
The Impex I-Flush system

Biofilm sensor

It detects dirty water and biofilm. The sensor detects the cloudiness of the water by means of light. When the preset maximum stage is exceeded, the lines are automatically flushed.

Temperature sensor

When the preset maximal temperature is reached or the temperature difference between the water supply line and the drinking line is too high, the drinking lines will be automatically flushed



Thank You for your attention