

Big Dutchman®



Drinking Systems

for sows, piglets and finishing pigs

Drinking systems – for a reliable supply of fresh and clean water

To achieve optimum performance from the pigs, it is extremely important to provide fresh and clean drinking water. Thus, a sufficient amount of clean water within easy reach

of the pigs is essential. Big Dutchman satisfies all of these requirements in an ideal way by offering a wide range of different drinking systems, including accessories, for

sows, piglet rearing and finishing pigs.

Our product range includes:

- ✓ nipple drinkers
- ✓ drinking bowls
- ✓ water connection units

- ✓ medicators
- ✓ fixed soaking/cleaning systems

Nipple drinkers – for a sufficient supply of clean drinking water

Nipple drinkers are a cost-effective solution for clean drinking water and reduce contamination. To minimize water losses, the right height is important. When drinking, the pig's head should be inclined upwards so that the water flows directly into the pig's mouth. This is why the nipples are placed at different heights in piglet rearing and finishing. To meet the different market

demands, Big Dutchman has included a variety of nipple drinkers and the corresponding tubes in its product range.

Among these are:

- ✓ high-pressure nipples for sows;
- ✓ high- and low-pressure nipples for piglets;
- ✓ high and low pressure nipples for growing and final finishing;

- ✓ vacuum trough floating tubes.

Optionally available are drinking tubes with guard, which may also be retrofitted. The guard keeps the pigs from getting hurt at the nipple drinker, for example when moving out ready-for-slaughter finishing pigs.



Trough sprayer for sows
– high pressure



Nipple drinker for piglets

- high and low pressure
- easy to use from the first day onwards



Nipple drinker for finishing pigs with bite ball

- high pressure
- minimised water wastage as pigs have to take the entire nipple into their mouth in order to drink



Nipple drinker for finishing pigs

- high and low pressure
- with two nipples at different heights
- for pre-finishing and final finishing



Retrofit guard

- for piglets and finishing pigs

In addition, Big Dutchman offers a drinker tube for the supply of two pens with a total of four nipple drinkers (two in each pen).



Drinker tube for simultaneous supply of two pens

To prevent deposits of vitamins or minerals in the drinker tube, a circulation tube for water circulation is included in our product range. This permits the



Drinker tube with water circulation

operator to simply flush all pipelines after the use of medication. The circulation tube can also be used for drinking bowls.



Vacuum trough flooding tube with T-shaped agitator for longitudinal troughs – high pressure

All nipple drinkers as well as the drinker tubes are made of stainless steel and therefore have a long service life.

The vacuum trough flooding tube is used for sows in stalls or piglet rearing houses. Water is automatically replenished when the pigs drink from the trough. The longer the row of troughs (max. 25 m per trough flooding tube), the more economic is this type of drinking system.



Vacuum trough flooding tube with J-shaped agitator for longitudinal troughs

Drinking bowls – minimal water loss, easy to use

Drinking bowls are accepted very well by the animals. When they are drinking, the head disappears in the bowl due to the lateral collar. This also significantly reduces water losses. Drinking bowls are

especially appropriate for suckling pigs, as the pigs can see the water and therefore readily accept this drinker. When placed low enough in the farrowing pen, special drinking bowls can be used by

both sow and piglets.

- ✓ drinking bowls made of stainless steel for suckling pigs;
- ✓ drinking bowls made of stainless steel for piglet rearing;

- ✓ drinking bowls made of stainless steel for finishing pigs;
- ✓ drinking bowls made of enamelled cast iron for use by both sows and piglets in farrowing pens.



Drinking bowl for suckling pigs



Drinking bowl with water circulation for weaners of up to 35 kg



Drinking bowl for finishing pigs



Drinking bowl with valve guard for farrowing pens

Water connection unit – very flexible, custom-made delivery

Today, a complete drinking system comes not only with the actual drinker, but increasingly with a water connection unit. This unit is installed between the main water supply and the house water line and is characterised by the

- following advantages:
- ✓ compact design for a problem-free installation even in small service rooms or the feed kitchen;
 - ✓ easy to assemble and to extend;
 - ✓ all connecting elements are made of

PVC for optimum corrosion protection. The water connection unit can consist of different modules to be combined according to your needs.



- 1 Water meter – for measuring water consumption
- 2 Filter with manometer – to avoid blockage at the nipples
- 3 Pressure reducer – for protection against excessive supply pressure
- 4 Reversible flow filter – in case of high water contamination
- 5 Bypass with three ball valves – to connect to a medicator
- 6 Medicator – to carry out prophylaxis easily and reliably

The water connection unit can be delivered with nominal widths of 1", 1 1/4" and 2"

Medicator – for precise metering of medicines via the drinking water

The medicator dispenses the correct amount of vitamins and medicines into the drinking water. The amount to be dispensed can be adjusted precisely as the compounds are admitted to the

drinking system proportionally to the actual water consumption. The respective compound and the water are mixed at the homogeniser outlet. Thus, the motor does not come into

contact with the medications used, i.e. no blockages occur, longer service life.

Advantages

- ✓ precise dispensing for all flow rates;
- ✓ high dosing range;
- ✓ high flow rates;
- ✓ long service life and high operational safety due to the use of high-quality materials (low sensitivity to a broad range chemicals) when cleaned regularly;
- ✓ selective spare part kits for rapid replacement of worn parts.



Medicator type 1



Medicator type 3 (acid-resistant)

Technical data of the medicator

Type		1	2	3
Dosing range	%	0.2 - 2.0	1.0 - 5.0	0.1 - 0.9
Flow rate	l/h	10 - 2500	10 - 2500	10 - 2500
Working pressure	bar	0.3 - 6.0	0.3 - 6.0	0.3 - 6.0
Code no.		30-61-3540	30-61-3545	83-11-4857

Mixing tank for medicines



Liquid medicines are sucked in directly



Service room with small (60 l) and large (1000 l) stainless steel medicine mixing tank

Liquid medicines are extracted directly from their original packaging. In case of pulverized or viscous materials, a medicine mixing tank with a rotary vane pump (60, 180 or 210 l) should be used.

If the water supply inside the house is designed as a circular system, it is possible to install a mixing tank with a circulation pump. Additive and water are then immediately mixed with the correct mixing ratio in the water tank

(750, 1000 or 2000 l) and then pumped directly into the house.

Fixed soaking/cleaning system for professional house cleaning



Stationäre Einweicheanlage in einem Mastabteil für die professionelle Stallreinigung

The soaking aid with control unit offered by Big Dutchman simplifies the cleaning process and significantly reduces the cleaning time after each grow-out, thus saving time. Furthermore, the amount of water later required for high-pressure cleaning is less. Spraying and pause intervals of the soaking nozzles can be adjusted individually (depending on the degree of contamination) by means of control via an electric solenoid valve installed inside the main water supply. Thanks to the flexible suspension system, damage caused by the water jet of the high-pressure cleaner can be prevented. The system can easily be adjusted to the house dimensions.

Standard values, installation and planning aid

	Live weight (kg)	Water demand* (l/animal and day)	Height drinking bowl** (mm)	Height nipple drinker 45°*** (mm)	Flow rate**** (l/min)
Suckling pigs	< 9	0.7 - 1	80 - 105	150	0.4 - 0.5
Weaners	< 29	1 - 3	80 - 105	250 - 550	0.5 - 0.7
Finishing pigs	< 50	3 - 6	250 - 300	450 - 600	0.6 - 1.0
	50 - 80	5 - 8.5	250 - 300	650 - 700	0.8 - 1.2
	80 - 120	8.5 - 11	250 - 300	650 - 700	1.5 - 1.8
Sows					
- barren/during early pregnancy		8 - 12	350 - 400	900	1.5 - 1.8
- point-of-farrow		10 - 15	350 - 400	900	1.5 - 1.8
- lactating		15+1.5/piglets		900	2.5 - 3.0
Boars		12 - 15	350 - 400	900	1.0 - 1.5

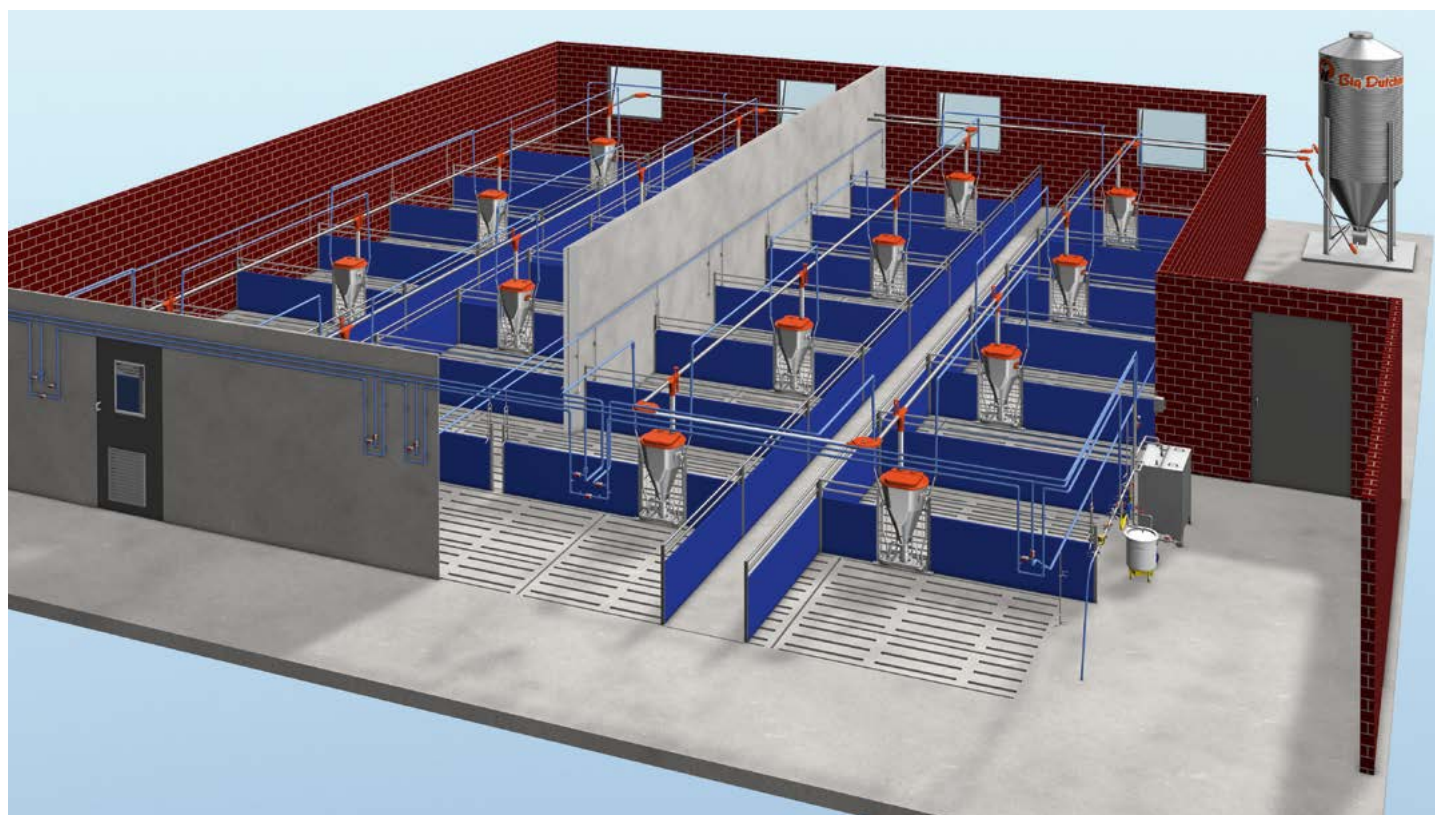
* These figures are standard values and may vary depending on the climate zone or the type of management.

** Upper rim of bowl

*** Lower edge of nipple

**** The flow rate of a drinker depends on the water pressure, the pipe cross section and the valve opening.

For some drinkers, the flow rate can be adjusted – especially with high-pressure nipples. Please observe the operating instructions.



View of the water and medicine supply systems in a compartmentalised house for finishing pigs



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