spinder
DAIRY HOUSING CONCEPTS

# Drinking

E-BOOK

march 2020

# Product catalogue

## The benefits of comfort

# Spinder since 1973

Tjip Spinder started manufacturing and selling dividers and feed fronts in 1973, using the name Spinder Stalinrichting. What started as a metal workshop, quickly became a small factory and eventually grew into Spinder as we know it today: a leading, advanced manufacturing company with a modern range for contemporary dairy farms.

Tjip Spinder was a real all-rounder and expected the same from his employees. "You were given an overall and a task and that was it", says Dick van der Meer, employee since the start and now co-foreman in the assembly department. With the ink barely dry on his technical school diploma, he went to see Tjip Spinder in 1973 to ask if there was work for him and was told he could start immediately. "Tjip set high standards. Not just for commitment and quality, but also for behaviour. But he didn't go easy on himself either. He was the first to arrive at work at six in the morning and he would only go home late at night when his wife decided that enough was enough and came to fetch him. They lived next door to the workshop."

Spinder has always responded to developments in dairy farming. As livestock increased, so did manufacturing and the range changed along with the requirements and insights of farmers. Especially in the 70s and 80s of the last century, the period that farmers opted for cubicle systems en masse, Spinder experienced considerable growth.

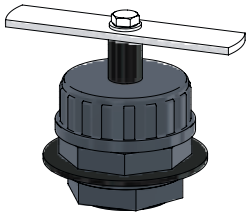
Spinder's growth during the early years was mostly thanks to two good friends of Tjip, who both owned a construction company. They were barn builders and introduced Spinder when the barns they built also needed equipment. When son Pieter took the reins, he made some changes and implemented innovations. This caused a large improvement in efficiency. It was no longer expected that everyone could do 'everything': the work was divided over various departments. After Pieter, who went to Canada to run a farm, Spinder ceased to be a family-run company in 1995 and was taken over by management. The company is still owned by the board.

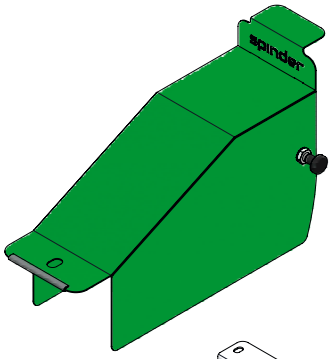
Production manager Sjouke van der Meer joined Spinder in 1981. Like Dick van der Meer, he has seen many changes within the company: "Highlights, growth, less successful periods, changes to management, product innovation, you name it. But one thing has remained unchanged and that's the commitment of all colleagues to Spinder. Although Spinder hasn't been a family-run business since 1995, it still feels like family here. And just like in 1973, the bar is still set high. Everything that leaves these premises is of absolute top quality. We are proud of that and that's what we work for, together."

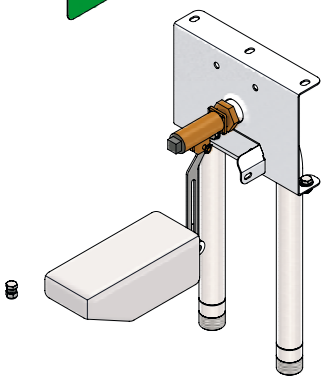
In 2017 Spinder acquired the BUC brand, specialist in dual waterbeds.

As market dynamics are demanding Spinder has had a new premises build, fully in operation from 2020.

# Drinking





**Pingo drinking troughs**

**Important features:**

Comfort for the cow:
- Natural supply of water in a wide trough, large drinking surface;
- No sharp edges, integrated stainless steel protective bracket on three sides.

Convenience for the farmer:
- The drinking trough is easy to clean thanks to the sloping bottom, large outlet and handy removable plug;
- The float is also easy to clean because of the easy-to-remove (green) float cover;
- Universal mounting. The Pingo can be mounted on the wall or on the floor;
- Long service life. The drinking trough is made completely of stainless steel and is fully coated.

Convenient to install (time is money):
- Float can be mounted in several positions in the drinking trough;
- Universal, suitable for water supply from above or below;
- Comes with everything supplied, including 180 degree elbow for circulation pipe system (see picture), all in stainless steel;
- Both connection points are equipped with 1" external thread.

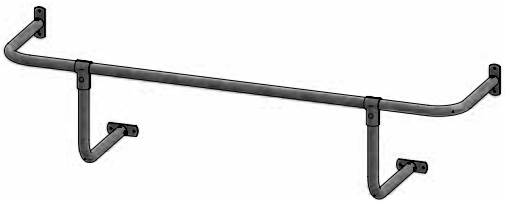
**Technical specifications:**

| | Drinking surface (L x B in cm) | capacity (litres) |
|---|---|---|
| Pingo 100 | 82 x 38 | 50 |
| Pingo 200 | 182 x 38 | 100 |
| Pingo 300 | 282 x 38 | 150 |

| | **Pingo, wall-mounted** |
|---|---|
| **06.13.600** | Pingo 100, wall-mounted |
| **06.13.700** | Pingo 200, wall-mounted |
| **06.13.800** | Pingo 300, wall-mounted |
| | **Accessories** |
| **11.11.230** | Anchor bolt M12 x 86 (6 for each drinking trough) |

| | **Pingo, floor-mounted** |
|---|---|
| **06.13.100** | Pingo 100, floor-mounted (incl. leg set) |
| **06.13.200** | Pingo 200, floor-mounted (incl. leg set) |
| **06.13.300** | Pingo 300, floor-mounted (incl. leg set) |
| | **Accessories** |
| **11.11.230** | Anchor bolt M16 x 120 (8 for each drinking trough) |
| or | |
| **11.12.016** | Chemical anchors M16 (10 per pack) |
| or | |
| **11.10.300** | T-bolt M16/28x25 cm for mounting on slatted floor (8 for each drinking trough) |

- Model 200, wall mounted



- Protection brace for model 200

- Protection brace for model 150

- Model 200, wall mounted whit protection brace

**Drinking trough models 150, 200 and 300**

Cows are herd animals. They like standing together at a long drinking trough. A drinking trough is most suitable for providing many cows with clean drinking water in a short period of time. Cleaning these long drinking troughs is also a very easy task. After removal of the stopper, the dirt is automatically discharged into the pit. Model 150 (150 cm long) has a capacity of about 100 litres and offers sufficient drinking facilities for approx. 15 cows. Model 200 (200 cm long) has the same characteristics as model 150, but has a reservoir of 130 litres and offers therefore sufficient drinking facilities for approx. 20 cows Model 300 (300 cm long) has a capacity of about 200 litres and offers sufficient drinking facilities for approx. 30 cows.

| | Model 150 | Model 200 | Model 300 |
|---|---|---|---|
| Dimensions: | 28 x 150 cm | 28 x 200 cm | 28 x 300 cm |
| Capacity: | ca. 100 liter | ca. 133 liter | ca. 200 liter |
| Attachment: | floor or wall attachment | | |
| Drinking height: | 80 cm (top of the drinking trough) | | |

**Important features:**
- Made from stainless steel and fully stained;
- Outward-turned edges, no caking of dirt;
- Easy to clean, thanks to a smooth and funnel-shaped finish;
- Easily removable stop.

**Accessories:**
- Suevia float, capacity max. 40 litres/min.;
- Fastening items for wall or floor mounting.

**Optional:**
- A protection bracket if the drinking trough is placed against a (concrete) wall.

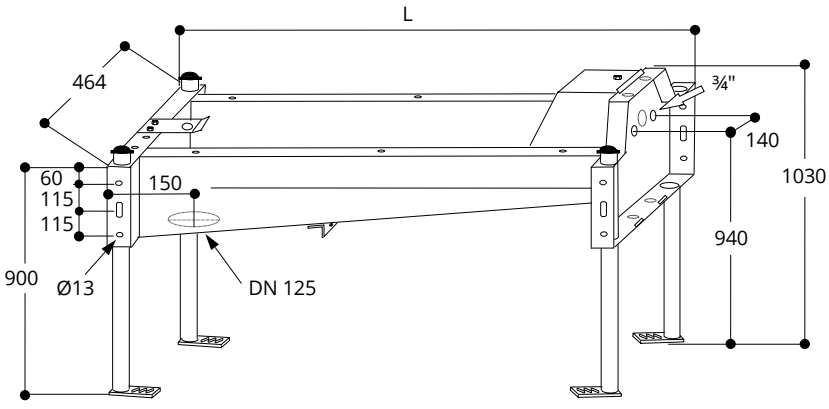
| | **Stainless steel water trough, floor mounted** |
|---|---|
| **06.12.150** | Model 150, floor mounted |
| **06.12.200** | Model 200, floor mounted |
| **06.12.300** | Model 300, floor mounted |
| | **Accessories** |
| **06.12.170** | Float valve 100l/min complete with cover |
| **11.11.250** | Floor anchor M16 x 120 |
| **11.12.016** | Chemical anchor M16, incl. capsule (10 anchors) |
| **11.10.300** | T-bolt 28 x 25 cm |

| | **Stainless steel water trough, wall mounted** |
|---|---|
| **06.12.650** | Model 150, wall mounted |
| **06.12.700** | Model 200, wall mounted |
| **06.12.750** | Model 300, wall mounted |
| | **Accessories** |
| **06.12.170** | Float valve 100l/min complete with cover |
| **11.11.230** | Floor anchor M12 x 86 (8 per trough) |

| | **Protection brace for stainless steel water troughs** |
|---|---|
| **06.12.915** | Protection brace for model 150 |
| **06.12.920** | Protection brace for model 200 |
| **06.12.930** | Protection brace for model 300 |
| | **Accessories** |
| **11.11.220** | Floor anchor M10 x 86<br>- 6 per brace for model 150<br>- 8 per brace for model 200<br>- 10 per brace for model 300 |

- Bulk drinking troughs model F

- Heating element for mounting below the drinking trough




- Dimensions of drinking troughs, model F

**Bulk drinking troughs, frost-protected, model F**

Frost in open freestall systems may occur in colder regions. In that event, the animals must still be able to drink. The bulk drinking troughs model F can be fitted with frost protection.

This frost protection consists of a heating element mounted under the drinking trough. It gives frost protection up to approximately -20°C.

The supply line can also be heated by coiling a thermocable around it.

Heating element and thermocable must be connected in parallel to a suitable transformer.

Suitable for wall mounting; floor mounting is also possible with a leg set (49 cm width incl. leg set).

The bulk drinking troughs model F:
- Made from stainless steel;
- With rounded corners and sloping bottom;
- With built-in float, float cover opens easily with no tools;
- Possibility of adding a low-pressure float;
- Side connection water supply;
- The cover plate can be used to conceal the connecting pipes.

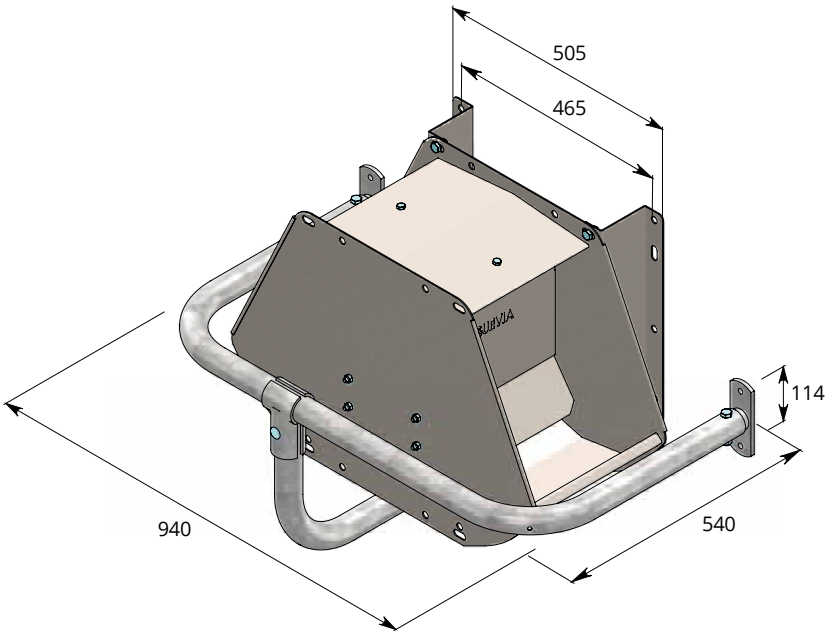
| Model | length (cm) | width (cm) | capacity approx. (l.) |
|---|---|---|---|
| F 140 | 140 | 47 | 100 |
| F 190 | 190 | 47 | 130 |
| F 230 | 230 | 47 | 160 |
| F 285 | 285 | 47 | 200 |

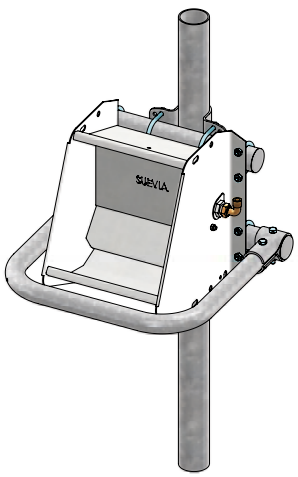
| | **Bulk drinking troughs frost-protected** |
|---|---|
| **06.66.014** | Bulk drinking trough model F 140, holds approx. 100 litres |
| **06.66.019** | Bulk drinking trough model F 190, holds approx. 130 litres |
| **06.66.024** | Bulk drinking trough model F 230, holds approx. 160 litres |
| **06.66.029** | Bulk drinking trough model F 285, holds approx. 200 litres |
| | **Accessories** |
| **06.66.030** | Set of 4 legs, drinking trough model F |
| **06.60.738** | Low-pressure float |
| **06.66.774** | Cover plate for connecting pipes |

| | **Heating elements, 1 per bulk drinking trough** |
|---|---|
| **06.66.060** | Heating element 24V, 180W, for F 140, mounted below the drinking trough |
| **06.66.061** | Heating element 24V, 180W, for F 190, mounted below the drinking trough |
| **06.66.062** | Heating element 24V, 360W, for F 230 and F 285, mounted below the drinking trough |

| | **Transformers; 1 per bulk drinking trough** |
|---|---|
| **06.60.390** | Transformer 230/24V, 200W, for F 140 and F 190 |
| **06.60.392** | Transformer 230/24V, 400W, for F 230 and F 285 |
| | **Option** |
| | Thermocable for heating the supply line |
| **06.60.861** | Thermocable 24V, 20W, 2 metres |
| **06.60.863** | Thermocable 24V, 20W, 3 metres |

- Stainless steel dual-trough, model 520



- Stainless steel drinking trough, model 500 plus protection brace

**Drinking water is essential**

Milk consists for 90% of water. Therefore it is essential to provide cows with good and plenty drinking water. In addition water is vital for the animals to function well. In a day a cow drinks on average 9 times. A high producing cow needs to drink at least 160 litres of water in these times. For each litre of milk a cow produces, she needs to take in at least 4 litres of water.

Please do not underestimate the importance of a good drinking water system. To allow all cows to drink adequately, we recommend installing one water trough for 20 animals.

Additionally to the quantity of water, the quality of the water is important as well. Therefore staying clean and easy cleaning of the troughs is fundamental. With this in mind Spinder offers a large assortment of drinking water troughs; a selection of small enamel cast bowls and both small and large stainless steel water troughs. All of these are very easy to keep clean.

**Stainless steel dual-trough**

One of the advantages of our stainless steel dual water trough is its compact size. The trough is accessible from two opposite sides. This way two animals can drink undisturbed simultaneously. Also the animals that are drinking are not blocking other animals passing by. This for the benefit of comfort and undisturbed cow-traffic in the barn. The substantial flow of approx. 30 litres per minute makes that the animals can drink all through quickly. Installation and plumbing is easy to do. One dual-trough can supply 35-40 cows. To prevent the trough from freezing we can offer a heating element. It goes without saying that the stainless steel construction guarantees durability.

| | |
|---|---|
| **06.60.525** | Stainless steel dual-trough |
| **11.11.230** | Floor anchor M12 x 86 (4 per dual-trough) |
| **06.16.260** | Protection brace for dual-trough |
| **11.11.210** | Floor anchor M10 x 71 (6 per protection brace) |
| **06.60.524** | Heating element for model 520, 24 Volt / 80 Watt |

**Stainless steel drinking trough, model 500**

Many features of this model are the same as those of the dual-trough. Only this model can supply just one animal with fresh and clean water at the time. This model can also be mounted to a feed front, walls, support posts, or barn supports. One stainless steel drinking trough, model 500, can supply approximately 20 cows. To prevent the trough from freezing we can offer a heating element. With this model as well the stainless steel construction guarantees durability.

| | |
|---|---|
| **06.60.500** | Stainless steel drinking trough, model 500 |
| **06.90.085** | Protection brace for model 500, mounted to a wall |
| **06.90.080** | Support + protection brace for model 500, mounted to a 76mm post |
| **06.60.523** | Heating element for model 500, 24 Volt / 80 Watt |
| | **Accessories** |
| **06.60.380** | Suevia transformer 24 Volt / 100 Watt |
| **06.60.390** | Suevia transformer 24 Volt / 200 Watt |
| **06.60.861** | Heating cable 24 Volt / 20 Watt 2,0 m |


Suevia model 375

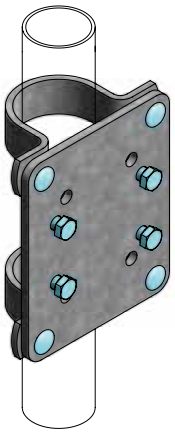

Suevia model 25R


Suevia model 1200


Suevia model 115


Suevia model 19R


Suevia model 46

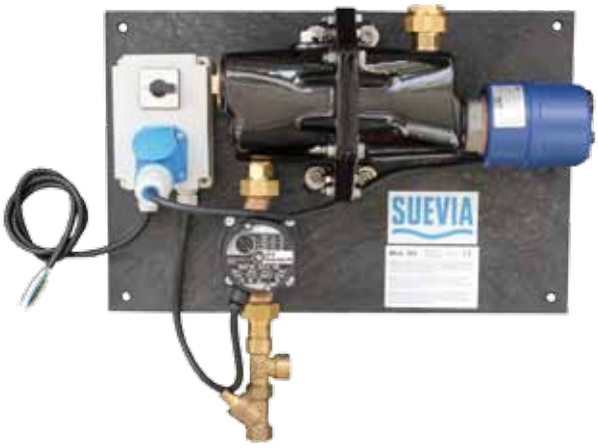

Mounting plate for posts


Fastening clamp 169


Set of fastening clamps 179

| Suevia model | Post mount | | | | |
|---|---|---|---|---|---|
| | Wall mounted | 48 mm | 60 mm | 76 mm | 89 mm |
| 375 | 11.11.240 | 06.60.169 (2x) | 06.60.169 (2x) | 06.90.050 | 06.90.055 |
| 25 R | 11.11.240 | 06.60.179 | 06.60.179 | 06.90.050 | 06.90.055 |
| 1200 | 11.11.240 | 06.60.169 (2x) | 06.60.169 (2x) | 06.90.050 | 06.90.055 |
| 115 | 11.11.240 | 06.60.179 | 06.60.179 | 06.90.050 | 06.90.055 |
| 19R | 11.11.240 | 06.60.179 | 06.60.179 | 06.90.050 | 06.90.055 |
| 46 | 11.11.240 | | 06.50.020 | 06.50.025 | 06.50.030 |

| | |
|---|---|
| **06.60.375** | **Suevia model 375**<br>• Particularly for calves up to 3 months;<br>• Enamel cast iron bowl;<br>• Adjusting screw easy accessible;<br>• Connection top or bottom ¾" B.S.P.;<br>• Water always evident;<br>• Capacity: 10-15 calves; |
| **06.60.026** | **Suevia model 25R**<br>• Appropriate for older heifers;<br>• Enamel cast iron bowl;<br>• Adjusting screw easy accessible;<br>• Connection top or bottom ¾" B.S.P.;<br>• Capacity: 10-15 heifers; |
| **06.61.129** | **Suevia model 1200**<br>• Appropriate for maternity pens;<br>• Stainless steel, with rim to prevent spilling;<br>• Large capacity, up to 15 litres/min (at 5 bar);<br>• Connection top or bottom ¾" B.S.P.;<br>• Easy to clean;<br>• Capacity: 5-10 cows; |
| **06.60.115** | **Suevia model 115**<br>• Appropriate for tie stalls;<br>• Enamel cast iron bowl;<br>• Adjusting screw behind the valve;<br>• Connection top or bottom ½" B.S.P.; |
| **06.60.120** | **Suevia model 19R**<br>• Ideal for barriers in between pens, accessible from 2 sides;<br>• Enamel cast iron bowl;<br>• Adjusting screw easy accessible;<br>• Connection top or bottom ¾" B.S.P.; |
| **06.60.047** | **Suevia model 46**<br>• Appropriate for colder climates;<br>• A 24 Volt / 80 Watt heating element is located between top- and bottom bowl;<br>• Connection top or bottom ¾" B.S.P.; |
| **06.60.380** | **Transformer for heating element (100VA)** |
| **06.90.050**<br>**06.90.055** | **Mounting plate for posts**<br>• Sturdy mounting plate for connecting to posts;<br>• Fitting for models 25R, 19R, 115 and 1200;<br>• Less strain on the bowl as when mounted straight to post;<br>• Bolts and nuts are included;<br><br>Mounting plate for 76 mm<br>Mounting plate for 89 mm |
| **06.60.169** | **Fastening clamp 169**<br>Fastening clamp M12 for 48-60 mm, galvanised;<br>• Fitting for models 375, 1200; |
| **06.60.179** | **Set of fastening clamps 179**<br>• Fastening clamp for 42-60mm;<br>• Set of 2 clamps with cast iron infilling;<br>• Fitting for models 25R, 19R, 115; |
| **06.50.020**<br>**06.50.025**<br>**06.50.030** | **Mounting clip fastening model 46**<br>For mounting on 60 mm tube<br>For mounting on 76 mm tube<br>For mounting on 89 mm tube |




Circulation unit 3000 Watt, model 303


Circulation unit 6000 Watt, model 312,
with return water temperature control

Eyelet

**Suevia circulation unit with heating**

Circulation system for all cold barns with drinking bowls. The water is heated and pumped around. Maximum pipe length, incl. return line, approx. 200 metres for the 3000 W version and approx. 350 metres for the 6000 W version. The circulation unit has one or two heating elements, a variable thermostat and a circulation pump. The system works as a boiler installation, which may cause pressure to rise in the pipelines. The water pressure in the supply pipe must be at least 1 bar and may not exceed 4 bar. To protect the circulation system, a non-return valve, a breather valve and an overpressure valve are provided. These must be fitted correctly (see installation instructions).

The 3000 W circulation unit is available in 230 V and 400 V models. The 400 V model is recommended if a 400 V power supply is available.

If fitted with return water temperature controls, set the required return water temperature on the thermostat in the return line. The heating element is automatically switched on if the temperature drops below the set value.
For the 300 and 303 models, a turning knob on the heating element is used to set the required flow water temperature. The heating element is thermostatically controlled and switches itself on and off.

| | **Circulation unit 3000 Watt** |
|---|---|
| **06.60.303** | Model 303, 230 V |
| **06.60.317** | Model 317, 230 V with return water temperature control |
| **06.60.300** | Model 300, 400 V |
| **06.60.311** | Model 311, 400 V with return water temperature control |

| | **Circulation unit 6000 Watt** |
|---|---|
| **06.60.312** | Model 312, 400 V with return water temperature control |

**Eyelet model 309**

- To monitor flow in the waterlines
- Eyelet includes propeller which rotates in waterflow
- To be installed in the return line, just before the non-return valve.
- When used with own water supply the visibility might be very limited.

Connected with ¾" or 1" inner-thread and 2 conical couplings

| | |
|---|---|
| **06.60.309** | Eyelet flow control ¾" B.S.P. |
| **06.60.319** | Eyelet flow control 1" B.S.P. |

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