Livestock Watering Systems

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Information for planning and execution:

Water is the most important and cheapest food for your animals. For this reason good quality water should always be provided in sufficient quantity. During the planning period various aspects and legal requirements have to be observed. The right choice of the drinker and an appropriate location are important basic requirements for a good supply and therefore healthy animals. Equally important is to ensure a proper and safe installation.

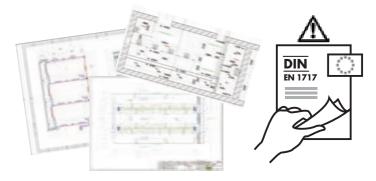
We advise you in the selection of drinkers, to inform yourself about its operation and the right location to install. Your installer advises you regarding the correct installation materials and correctly connects your drinker to the water and main supply according to the norm.

The following standards and specifications should be observed:

- Electrotechnical standards (low voltage directive, earthing regulations, electrical installation regulations in agriculture VDE 0105-115, requirements of energy saving law)
- Drinking water ordinance and regulations of the local water suppliers (DIN1988, EN1717)
- National and local safety regulations
- Ordinance on Industrial Safety and Health (VSG 1.1)
- Regulations for fire prevention and insurance guidelines



- Is the water trough suitable for the animal type and for the age of the animal? (1)
- Is the water amount per minute, the water volume and the number of drinking positions consistent with the needs of the animal or animal group? (2)
- Is the water trough suitable for the type of penning (single or group)?
- Is the water trough heatable which means suitable for installation in cold or open housing?

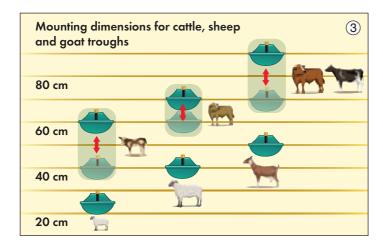


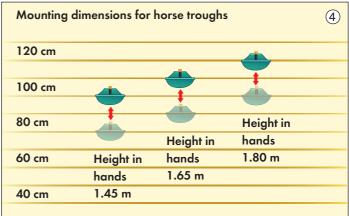
Criteria for correct installation

- The height of the water trough has to be adjusted to the size of the animal (3)+(4)
- Keep away from the feeding site in order to avoid that the feed will get wet and the troughs will get soiled with the feed (7+(8)
- Choose installation site in free-stall barns so that drinking animals do not obstruct other animals (7)+(8)
- Installation of the troughs needs to be secure from damages (by kicks, or crowding) (5)+(6)
- Install water and electrical lines secure against browsing damages
- Locate so that soiling with excrements is not possible (9) + (10)



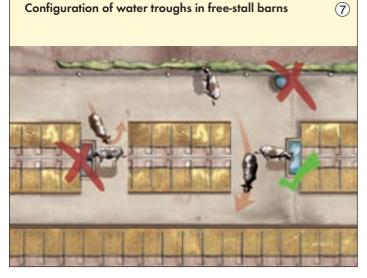
Daily water requiremen and horses	nt for cattle, she	eep, goats (2)
Cattle		60 – 180
Cattle, 1 year and older		25 - 70
Cattle, under 1 year	1	151 - 301
Calves up to 6 months	79	51 - 251
Sheep/Goats		21 - 121
Large horse in pasture Mare, lactating		15 - 60
Foal, 200 kg	200	151 - 201



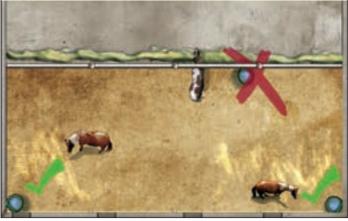








Configuration of water troughs for group penning of horses





A water trough or ball waterer should be mounted on a raised concrete platform, each side of which is 30 cm wider than the drinker itself.



Livestock waterers

8

The advantages:



Plastic float valve for trouble-free operation with all water types



After opening the inspection lid the float can be easily adjusted



Drain plug - for easy draining and cleaning



The valve is low-maintenance and very reliable

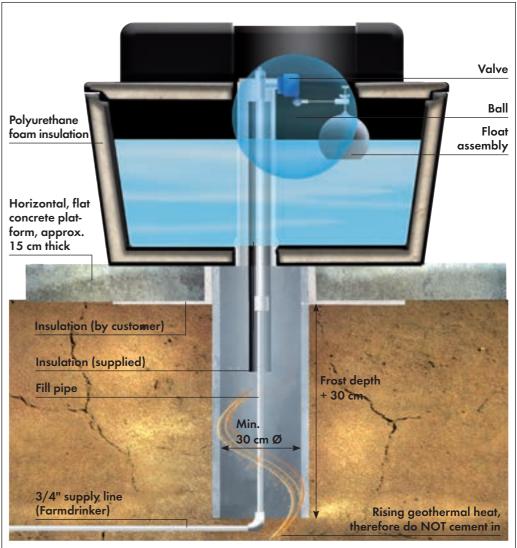
Energy Free Frost-Protected Ball Waterers



How does a ball waterer operate?

Water comes from the ground at a temperature of about 10 °C and fills the drinking containers until the balls seal off the drinking holes. Whenever animals drink, the float valve allows the consumed water to be replaced. The energy of the replacement water flowing in keeps the water warm when it is cold, and cool when it is hot. By means of the special ball-valve system, and without any additional power requirements, fresh, clean water which is free from algae, is provided at both -30 °C as well as +30 °C.

- While the animal is drinking, the ball rolls away
- Water supply must come from below frost level
- Water pressure: 1 to 5 bars
- A minimum of 5 animals guarantees frost-free operation down to -15 $^\circ\text{C},$ or with 15 animals down to -40 $^\circ\text{C}$
- Prepared for connection to 3/4" water line (external thread)
- The ball waterer should be positioned, slightly raised, on a 15 cm thick concrete platform, each side of which is 30 cm wider than the drinker itself
- Large drain openings allow regular, quick and complete cleaning of the trough



Cross-section of concrete platform, fill pipe and supply line for Farmdrinker Note: The shaft for the fill pipe should not be insulated from the earth at the lower level



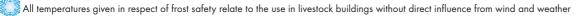
Туре	Ref.	Size D x W x H (cm)	
Farmdrinker 1 ball Capacity: 57 l, 15 – 25 animals, water flow: 40 l/min (at 5 bars)	433300	71x66x55	
Farmdrinker 2 balls Capacity: 76 l, 25 – 40 animals, water flow: 40 l/min (at 5 bars)	434650	91x61x65	
Float Valve for Farmdrinker (w/o support arm and float)	330521		
Rubber Seal	330512		
Rubber Plug	330322		

Very rugged, especially suitable for bulls and suckler cows



Livestock waterers





-40° C

The advantages:



Compact Thermal Bowl: simple and easy draining to the side



Compact Thermal Bowl: easy float adjustment, fixing possible



Thermolac: 6 wing nuts for easy opening - the float can be easily adjusted or turned off



Thermolac: simple connection $(\frac{1}{2}'')$ to the water supply using armoured tubing



Thermolac: large drain opening (Ø 100 mm) for easy cleaning



Energy Free Frost-Protected Ball Waterers

How does a ball waterer operate?

Water comes from the ground at a temperature of about 10 °C and fills the drinking containers until the balls seal off the drinking holes. Whenever animals drink, the float valve allows the consumed water to be replaced. The energy of the replacement water flowing in keeps the water warm when it is cold, and cool when it is hot. By means of the special ball-valve system, and without any additional power requirements, fresh, clean water which is free from algae, is provided at both -30 °C as well as +30 °C.

- By means of the patented ball-valve system, fresh, clean water is provided at both -30 °C as well as +30 °C
- While the animal is drinking, the ball rolls away
- The supply must come from below frost level
- Water pressure: 1 to 5 bars
- A minimum of 5 animals guarantees frost-free operation down to -15 °C, or with 15 animals down to -25 °C (Thermo-Quell) or -30 °C (Compact/Thermolac)
- Ready for hookup to 1/2" (Thermolac/Compact) or 3/4" (Thermo-Quell) water line
- The ball waterer should be positioned, slightly raised, on a 15 cm thick concrete platform, each side of which is 30 cm wider than the drinker itself
- Large drain holes allow regular, quick and complete cleaning of the trough

Metal Bowl

- With aluminium bowl in place of ball
- Open access to the water
- Due to the high conductivity of aluminium, the water does not freeze in the bowl



Thermo-Quell: large front drain hole for fast discharae



Thermolac 40B/75B: standing water, therefore easy access to the water, e.g. for sheep



Simple connection (3/4") to the water supply using armoured tubing



The lid can be tilted upward and removed for easy access to the valve



Thermolac 40B/75B: easy cleaning of the metal bowl

Thermolac 40B/75B: fast removal of the metal bowl without tools

	Туре	Ref.	Size D x W x H (cm)	Description
	Compact Thermal Bowl, 2 ball Capacity 71 l, 25 - 40 animals, water flow: 28 l / min at 5 bars, 1/2" hookup with flexible tube, l = 30 cm, IG/IC	380118	90x60x45 cm	-30° C
		38011801 38011802		
	Thermo-Quell Mod. 630, 1 ball Capacity: 40 l, 10 - 25 animals, Maxiflow float valve, water flow: 40 l/min (at 5 bars), 3/4" hookup	1300630	70x60x56	-25° C
-	Thermo-Quell Mod. 640, 2 ball Capacity: 80 l, 25 - 40 animals, Maxiflow float valve, water flow: 40 l/min (at 5 bars), 3/4" hookup	1300640	100x60x56	
-	High-Pressure Float Valve Low Pressure Float Valve ¾″ hookup, water flow: up to 19 l/min (at 1 ba Seal Ring (qty 10) Cap	1310754 1310738 r) 102049310 1321284		
(1	Auxiliary Heating Element for Thermoquell 24 V / 180 W, with thermostat control (ON at 5 °C; OFF at 15 °C) Ball waterer down to -35 °C / metal bowl watere		20	
	Thermolac 40, 1 ball Capacity: 40 l, 15 - 25 animals, water flow: 38 l/min (at 5 bars), 1/2" hookup	433800	66x64x56	-30° C
	Thermolac 75, 2 ball Capacity: 75 l, 25 - 40 animals, water flow: 38 l/min (at 5 bars), 1/2" hookup	433801	99x66x53	
	Thermolac 40B, 1 bowl Capacity: 40 l, 15 - 25 animals, water flow: 38 l/min (at 5 bars), 1/2" hookup	433804	66x64x56	
-	Thermolac 75B, 2 bowl Capacity: 75 l, 25 - 40 animals, water flow: 38 l/min (at 5 bars), 1/2" hookup	433805	99x66x53	
-	High Pressure Float Valve Hook Up 1/2", colour black Low Pressure Float Valve 1/2" hookup, colour blue, water flow: up to 19 l/min (at 1 bar)	1090955L 351613		-15° C
	Seal Ring (qty 20) Drain Plug with seal ring Seal for drain plug Ref. 1090985 (qty 2)	1090729 1090985 1091036		
2	Auxiliary Heating Element for Thermolac 24 Volt/30 Watt Ball waterers down to -35 °C, metal bowl waterers down to -25 °C	350335		

Perfection in detail



Special blow-back proof valve of 0.5 to 8 bar



Base of Mod. 41 with the automatic self-sealing ball flange



Mod. 43 A with float valve



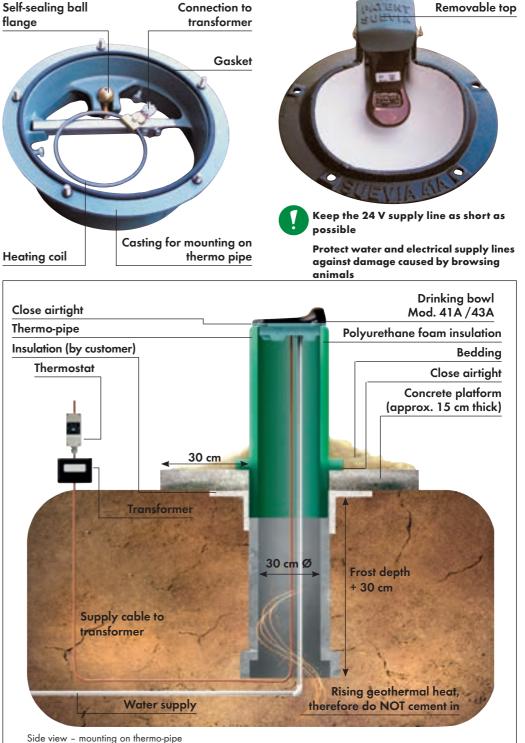
Model 41A with Thermo Pipe



Model 43A with Thermo Pipe

Heated Drinking Bowls

- Installation on concrete pipes, internal diameter: 30 cm or plastic thermo pipes:
- Hookup 1/2"
- Resistance heating with 80 W or 180 W for Mod. 41A/43A, Stalcho 2/Lakcho 2 with 50 W or 80 W power
- Transformers and thermostats have to be ordered separately



Note: the mounting tube should not be insulated from earth at the lower level



	Туре	Ref.	Size D x W x H (cm)	Description
-	Nose-Paddle Bowl Mod. 41A Incl. heating coil 24 V/80 W, water pressure 1 to 5 bars, regulation through exchangeable nozzle, V2" hookup, water flow: up to 14 l/min (at 5 bar	1000041 rs)	35x35x26	-25° C
	Nose-Paddle Bowl Mod. 41A - Sibiria Same as above, but with 180 W heating coil, frost-free down to -35 °C	1001041	35x35x26	
-	5117 7	102049310 10204945		
_	Float Valve Bowl Mod. 43A Incl. heating coil 24 V/80 W, water pressure 1 to 5 bars, for sensitive animals, V2" hookup, capacity: 2 l, water flow: up to 6 l/n	1000043 nin (at 5 bars)	35x35x25	
	Float valve bowl mod. 43A - Siberia with overheating protection thermostat Same as above, but with a 180 W heating coil, fr	1001044	35x35x25 -35°C	
1	Anti-Splash Guard for Mod. 43A	1011068		
2	plastic coated cast iron Overheating protection thermostat for mod. 41A/43A (OFF at 40°C, ON at 23°C)	1010438		
		10210701		
_	Membrane for float valve Mod. 671 and 674	1020649		
	Thermo-Pipe for Mod. 41A, 43A			
	Installation height 40 cm Installation height 60 cm Installation height 80 cm Installation height 80 cm (+30 cm)	1010344 1010346 1010348 1010345	42x42x40 42x42x60 42x42x80 42x42x110	
-	Nose-Paddle Bowl Stalcho 2 Incl. heating coil 24 V/50 W, Very sturdy design made of one piece HDPE, with drain plug and control light, regulation through exchangeable nozzle, V2" hookup, water flow up to 131 / min at 3 bars	381641	38x38x24	-20° C
	Nose-Paddle Bowl Stalcho 2 same as above, but 80 W heating coil, frost-free of	381841 down to -25°	38x38x24	
-	Float Valve Bowl Mod. Lakcho 2 Incl. heating coil 24 V/50 W, Very sturdy design made of one piece HDPE, with drain plug and control light, regulation through exchangeable nozzle, V2" hookup, water flow up to 101 / min at 3 bars	381640	38x38x24	
	Float Valve Bowl Mod. Lakcho 2 same as above, but 80 W heating coil, frost-free of	381840	38x38x24	
-	Membrane for float valve Mod. 671 and 674	1020649		
-	PE Stand			
	Installation height 40 cm	381570	40x40x40	
	Installation height 60 cm Installation height 74 cm	381572 381573	60x40x40 74x40x40	-20°C
	Installation height 60 cm (+40 cm)	381574	100x40x40	



Description

Туре

Ref.

Size D x W x H (cm)

			D x W x H (cm)
	Steel Post for Mod. 25R height 60 cm, galv.	1010455	60x27x27
-20° C	Steel Post for Mod. 25R height 80 cm, galv.	1010456	80x27x27
	Pipe Valve Bowl Mod. 25R MS 3/4" With ¾" brass valve, large, enamelled cast iron continuous water regulation, hookup from abov suitable for circulation heaters, water flow: up to	e and below,	28x25x21 5 bars)
	Pipe Valve Bowl Mod. 25R VA 3/4" With 3/4" stainless steel valve, otherwise same as Mod. 25R MS 3/4"	1000259	28x25x21
NEW	Steel Stand for Mod. 19R height 60 cm, galv.	1010459	60x30x30
	Steel Stand for Mod. 19R height 80 cm, galv.	1010460	80x30x30
Note: other designs available	Double Pipe Valve Bowl Mod. 19R 3/4" Big, enamelled cast iron bowl, continuous water regulation, hook-up from abov suitable for circulation heaters, water flow: up to		31x27x22 5 bars)
Other Pipe Valve Bowl available	 Frost protection heater version Pipe Connection Set 3/4" Mod. 25R To connect the ring main to a circulation heater 	1031983	on"
	(2) Pipe Connection Set 3/4" Mod. 19R for hook up to a circulating heating system	1033003	
	2. Frost protection heater version ③ Heating Set for steel post	n "heating 1010458	cable"
12	with Mod. 25R 3/4" 24 V / 80 W		
	4 Heating Set for steel stand with Mod. 19R 3/4" 24 V / 80 W	1010461	
	(5) Frost Protection Heating Cord with Thermostat Control (ON at 5 °C; OFF at 15 °C), 24 V / 20 W	381110	L = 200
	© Frost Protection Heater Cable 24 V/20 W	381100	L = 200
	Trost Protection Heater Cable 24 V/30 W	381101	L = 300

B184

All temperatures given in respect of frost safety relate to the use in livestock buildings without direct influence from wind and weather Please order transformer separately (page B187)



cable 20 W - frost-free down to -15 °C





Description

Туре	Ref.	Size D x W x H (cm)
Pipe Valve Bowl Mod. 46 MS 3/4" With ¾" brass valve, incl. heating coil 24 V / 80 W, 1 to 6 bar water pressure, stepless water regulation, suitable for circulatio connection at the top and bottom, inlet 11 I / n		29x26x21 s,
Pipe Valve Bowl Mod. 46 VA 3/4" With ³ /4" stainless steel valve, otherwise same as Mod. 46 MS 3/4"	1001469	29x26x21
Lower Part for valve with spring, brass Lower Part for valve with spring, V2A Seal Ring (qty 10) Valve Spring (qty 10) Adjusting Screw with O-Ring (qty 5)	10214251 10214291 102072710 102067310 10206345	
D Frost Protection Heating Cord with Thermostat Control (ON at 5 °C; OFF at 15 °C), 24 V / 20 W	381110	L = 200
© Frost Protection Heater Cable 24 V/20 W	381100	L = 200
3) Frost Protection Heater Cable 24 V/30 W	381101	L = 300
Valve Heater 24 V/5 W With thermostat (ON at 5 °C, OFF at 12 °C), cable 3 m	1011405	
5) Pipe Connection Set 3/4" for hook up from above to a circulating heating	1033005 j system	
Pipe Connection Set 3/4" for hook up from below to a circulating heating	1033006 system	
$\overline{\mathcal{D}}$ Guard Bracket for wall mounting Mod. 5	381358	
B Valve Guard For Mod. 25R, 12P, 18P, 46, 375, 1200, 1200P	1020249	
9 Pipe Bracket For 2″ – 3″ pipes, (order qty 2)	1010180	
Mod. 46 with heating coil 80 W and	(d. 46 with additional valve heater

5~W - frost-free down to -35 $^{\circ}\text{C}$



Livestock waterers

Basic information for the electrotechnical connection of heated drinking bowls and heater cables

1. Transformers

Transformers are used with heated drinking bowls for safety reasons, in order to reduce the mains voltage from 230 V to an animal-safe 24 V. Thus there is no danger for the animals and, likewise, for humans if a cable is damaged, for example, through biting by animals. The transformer must be installed as close as possible to the drinking bowl, but out of reach of the animals.

2. Thermostat

The thermostat is installed between the power outlet and the heating unit. If the temperature sinks below a certain degree, the equipment is automatically switched on. Once the frost risk no longer exists, the equipment is automatically switched off.

The trigger criterion for the frost protection thermostat (ref. 381510) is the prevailing air temperature. The trigger criterion for the contact thermostat (ref. 381520) is the temperature of the water line (= water temperature).

The thermostat pays for itself quickly since the equipment is only switched on when absolutely necessary. Depending on the equipment performance, the energy savings are considerable. In addition, contrary to manual switching it is always guaranteed that the heating unit is working whenever there is danger of frost.

Ideally, the thermostats should be placed at the coldest location. Please note: Installation must be carried out by qualified personnel

In order to obtain the full heating potential please note the following cross-sections for the 2-core 24 V cable:

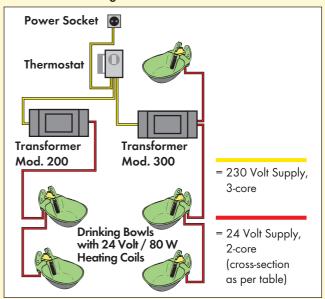
Performance transfer over distance

Cable cross-section	100 Watt	200 Watt	300 Watt	400 Watt
Cross-section 1.5 mm ²	max. 45 m	max. 20 m	max. 15 m	max. 12 m
Cross-section 2.5 mm ²	max. 80 m	max. 40 m	max. 25 m	max. 20 m
Cross-section 4.0 mm ²	max. 100 m	max. 85 m	max. 40 m	max. 30 m
Cross-section 6.0 mm ²	max. 120 m	max. 100 m	max. 65 m	max. 50 m

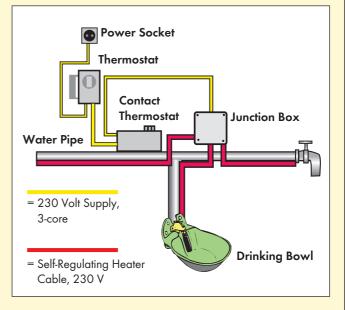


Connection examples for a frost-free water supply ...

with heated drinking bowls



with self-regulating heater cable



Sample calculation for transformers

How to find the ideal transformer for your heated drinking bowls:

Quantity of needed drinking bowls/auxilliary heating elements x indicated power (W) + quantity of needed frost protection heater cables x indicated power (W)

- 5 Mod. 46 drinking bowls with 80 W heating capacity = 5 x 80 W = 400 W
- 5 heating cords of 2 m length with 20 W capacity = $5 \times 20 \text{ W} = 100 \text{ W}$
- Total 400 W + 100 W = 500 W
- Requirement is met by 1 transformer of 300 W and 1 transformer of 200 W

Livestock Watering Systems - Heated Drinking Bowls

Туре	Ref.	Size D x W x H (cm)	Description
Transformer Mod. 100 24 V/100 W	381504	12x12x8	
Transformer Mod. 200 24 V/200 W	381503	13x13x9	
Transformer Mod. 300 24 V/300 W	381501	17x17x11	
Transformer Mod. 400 24 V/400 W	381502	19x19x13	



- Transformer protection grade IP65
- Terminals protection grade IP54 (spray protected)
- 1. Mounting directly in stable area
- 2. No corrosion of hookupsSturdy terminal strips with strain relief
- Plug-in ready with standardised Euro plug

381510

12x6x6

12x6x6

Frost Protection Thermostat

for wall-mounting,

for automatic switch-on of transformers,

- up to 16 A/230 V max. (max. switch capacity: 1.5 kW)
- adjustable from -10° C 40° C
- mount at the coldest location in the stable
- protection grade IP54, spray protected



Installation

has to be done

by qualified

personnel

Contact Thermostat	381520
for mounting on water pipe,	
for automatic switch-off of	
the self-regulating heater cable,	
up to 16 A/230 V max. (max. switch capacity: 1	.5 kW)
• adjustable from 0 - 120 °C	

• protection grade IP54, spray protected





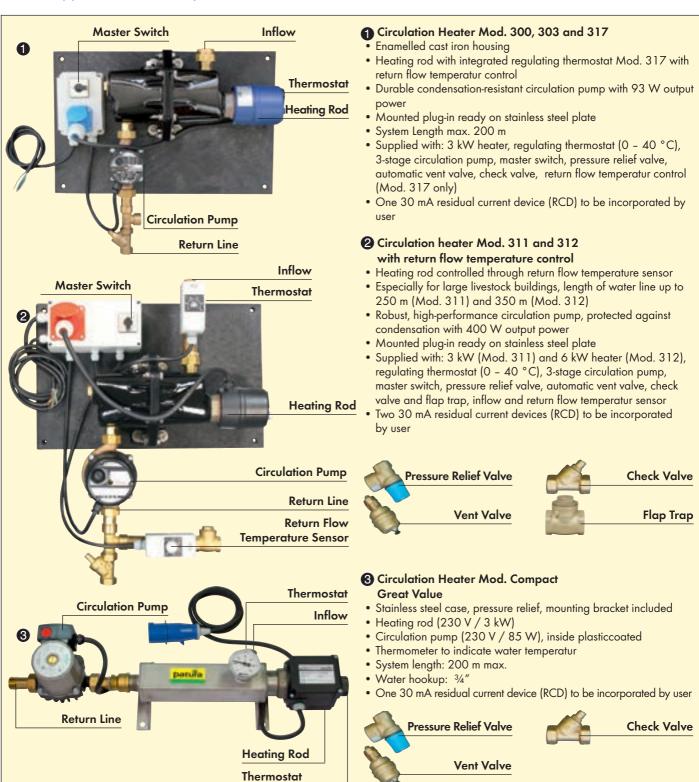


Water Circulation Systems

Provide frost-free water in your shed and stable via an electric auxiliary heating element. Areas of use from small stables up to large cold sheds can be covered by choosing the appropriate system.

- Prerequisite: a water installation in which all drinking bowls are connected with one another via a ring main system
- On system switch-on the pump sets the water in constant circulation. The heating element is controlled by the regulating thermostat
- Length of supply line: 200 m 350 m, including return line, is possible
- Pipe cross section from 1/2" to 1"
- The water pipes should be additionally insulated

- A 30 mA residual current device (RCD) should be incorporated upstream
- Note: Ensure that the supply line in which the water is not circulating is frost-protected by suitable measures (e.g. heater cable)



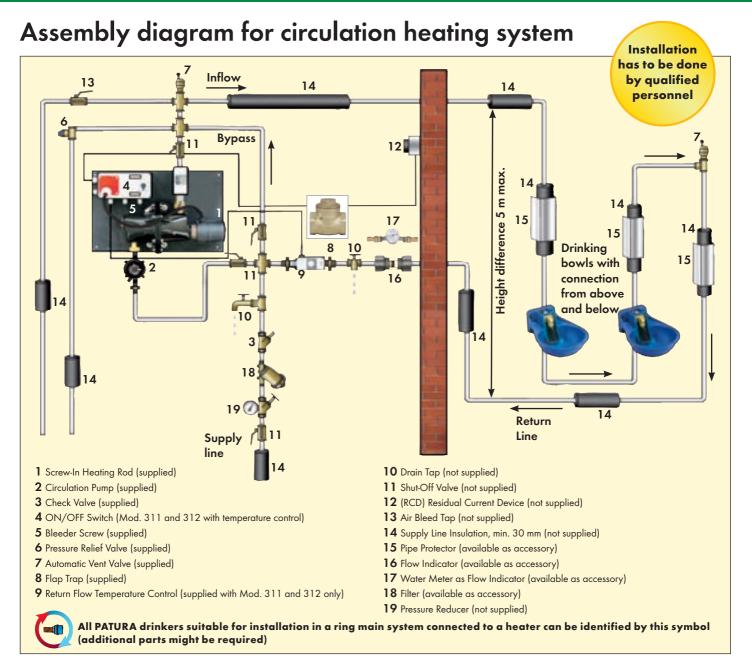


Installation

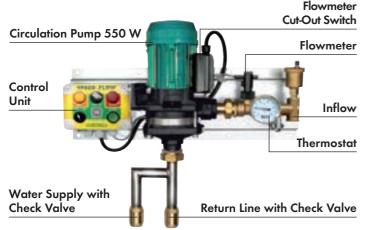
has to be done

by qualified personnel

Туре	Ref.	Size D x W x H (cm)	Description
Circulation Heater Mod. 303 With thermostat in the inflow line, 1 x 230 V/3 kW heating coil, circulation pump (93 W), check valve, flap trap, pressure relief valve, automatic vent valve and master switch, mounted plug-in ready on stainless steel plate, 30 mA residual current device (RCD) to be incorporated by user, water pressure: 4 bars max., water hookup: ½" system length: 200 m max., hight difference (in		60x39x22 ne) max. 5 m	
Circulation Heater Mod. 300 Same as circulation heater Mod. 303, but with 400 V power supply	1010300	60x39x22	O.
Circulation Heater Mod. 317 same as Mod. 303, additional return flow temperatur control	1010317	60x39x22	
Circulation Heater Mod. 311 With thermostat in the return line, 1 x 400 V/3 kW heating rod, high-performance circulation pump (400 W), check valve, flap trap, pressure relief valve, automatic vent valve and master switch, mounted plug-in ready on stainless steel plate, 2 x 30 mA RCDs to be incorporated by user, water hookup: ¾" or 1", system length: 250 m max., hight difference (in • Return flow temperature • For drinking tubs as well		60x39x22 1e) max. 7 m	Installation has to be done by qualified personnel
Circulation Heater Mod. 312 With thermostat in the return line, 2 x 400 V/3 kW heating rods, high-performance circulation pump (400 W), check valve, flap trap, pressure relief valve, automatic vent valve and master switch, mounted plug-in ready on stainless steel plate, 2 x 30 mA RCDs to be incorporated by user, water hookup: 1", system length: 350 m max.,	1010312	60x39x22 • (inflow/return line) m	ιαχ. 4 m
Return flow temperature For drinking tubs as well Circulation Heater Mod. Compact		70x16x15	
With thermostat in the inflow line, 1 x 230 V/3 kW heating coil, circulation pump (85 W), inside plasticcoated, pressure relief valve, stainless steel, thermometer, check valve, automatic vent valve 30 mA residual current device (RCD) to be incorporated by user, water pressure: 4 bars max., water hookup: ¾", system length: 200 m max.	,		max. 4 m



Circulation Pump Speed-Flow



Automatic Vent Valve Speed-Flow Unsulating Jacket Floor Water Supply

Speed-Flow - efficient frost protection without heating

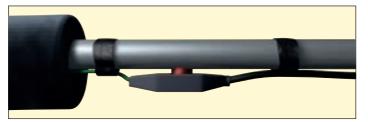
- For water lines up to 250 m with 3/4"
- Powerful circulation pump (550 W) provides fast and constant water circulation
- Consumes 10 times less power compared to circulation heaters
- Mounted plug-in ready to base plate

- Installation into the ground to use the geothermal energy
- Easy control with warning light
- The pump stops automatically in case of lack of water (e.g. blockage or defective water supply)

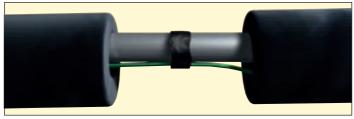
Туре	Ref.	Size D x W x H (cm)	Description
Water Meter To monitor circulation or water consumption, hookups: 1" male thread, nominal flow: 2.5 m³/h with 3/4" circulation p 3/4" pipe diam., cold water range up to 30 °C max.	380109 iipe,	23x70x70	
Flow Indicator To monitor water circulation, water hookup: 34"	1010309	12x5	Recom- mended
Flow Indicator To check operation of circulation, hookup 1"	1010310	12x5	for all water circulation systems
Inspection glass with water Installed at the end of the r			rap
Pipe Protector Bite and impact protection for water line and insulation, hot-dip galvanised, with 6 mm drill holes	380108	75x6x6	
Pipe Protector tainless steel, for supply and return line	380119	100x21x6	
Automatic Vent Valve For automatic de-airing of the circulation system, water hookup: 3/8"	350552	8x5	
in the circulation system Water Filter 1" water hookup with 0.1 mm filter element, flow rate: 6 m³/h	350446		
F ilter Element for water filter, D.1 mm mesh size	350445		
Recommended for all dirt-s and troughs	ensitive dri	inkers like all float v	valve bowls
Alarm Systems for circulation heater Consisting of thermostat and signal-horn for 230 V connection, installation to water ring main, when the temperature falls e.g. under +5 °C, the signal horn sounds informing about a drop in temperature in the system	1010308		
Circulation Pump Speed-Flow With control unit (operation indicator, warning light, ON-OFF-switch), powerful circulation pump 550 W with 230 Volt power supply, water hookup 3/4", flowmeter cut-out switch,	381669	58x20x30	
automatic vent valve, mounted plug-in ready to base plate, 30 mA RCD (residual current device) to be incorporated by user, with thermometer, s		-	

Frost Protection Heater Cable

- Prevents the water pipes from freezing in frosty conditions
- Typical heat output 16 W per metre
- Thermostat (plug-in ready): switch-on temperature 3 °C, switch-off temperature 12 °C
- Spiral excess lengths around the end of the pipe (minimum clearance between loops 15 mm)
- Protection grade IP X7 (waterproof protection)



Place the thermostat with its sensor firmly against the pipe and wrap with insulating tape, be sure to place the thermostat at the coldest section of the pipe to be protected.



Run the heater cable underneath the water pipe and affix at regular intervals with insulating tape, further protect the water pipe with pipe insulation of at least 13 mm.

Frost protection with the use of heater cable:					
Water pipe diameter	22 mm 1/2″	28 mm 3/4″	35 mm 1"	42 mm 1 1/4"	
Without pipe insulation	-13 °C	-10 °C	-7 °C	-5 °C	
With 13 mm pipe insulation	-45 °C	-40 °C	-40 °C	-35 °C	

General installation requirements for all heater cables

- The installation should be carried out to VDE standard 0100 by a professional electrician
- The water pipes must be earthed. A residual current device (30 mA RCD) must be in circuit
- Ensure that the heater cable is laid taut along the underside of the pipe. Attach every 30 cm with insulating tape
- The heater cable should never be laid so as to touch other heater cables
- The water pipe, with its heater cable, should be covered with pipe insulation (min. 10 mm)
- The heater cable should be protected against damage generally – but particularly against animal biting/chewing damage
- Kinks in the heating cable should be avoided (min. bend radius 50 mm)
- In the case of plastic water pipes, first wrap these with aluminium tape before affixing the heater cable, so as improve the thermal conductivity

Self-Regulating Heater Cable

- Prevents the water pipes from freezing in frosty conditions
- Heat output 15 W per metre at 0 °C (9 W per metre at 10 °C)
- The heat output is automatically and continuously adjusted in relation to the pipe temperature
- The cable can be shortened or lengthened
- Multiple divisions are possible
- Maximum section length 100 m
- Damages can be repaired
- The heat output is automatically adjusted to cope with different temperatures in different parts of the system
- Maximum length 150 m with 16 A fuse
- Note: to regulate the max. water temperature, the contact thermostat (ref. 381520) must be installed

TECHNICAL DESCRIPTION

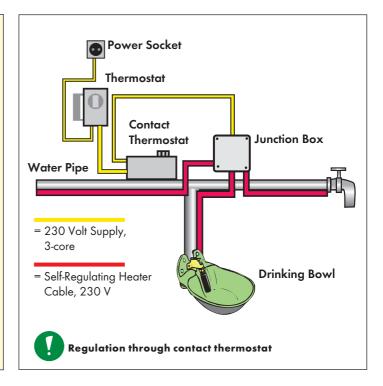


- Electric Power Lines
- (2) Heating Element
- (3) Protective Shell
- (4) Protective Earth
- (5) Outer Protective Shell

Mode of operation:

The two electrical conductors are set in an insulating polymer that contains graphite particles.

- 1. When it is cold: the polymer contracts, the graphite particles come into contact with each other, the cable becomes warm
- 2. When it is warm: the polymer expands. There is no contact between the graphite particles, the cable does not heat





Livestock Watering Systems - Water Troughs

Description	Type Ref. Size D x W x H (cm) D x W x H (cm)	
00	Valve Water Trough Mod. 480 1300480 40x39x45 Stainless steel, with circulating hook up 3/4", from below, water flow up to 30 l / min 1300480 40x39x45	
	Valve Water Trough Mod. 480 1300481 40x39x45 Stainless steel, to connect the ring main 3/4" from above, water flow up to 301/min	
Real Provide American Ameri American American Am	Valve Water Trough Mod. 490 Stainless steel, with circulating hook up 3/4", from below, water flow up to 30 l / min	
	Spraying nipple for Mod. 480/490 1800539	
	(1) Auxiliary Heating Element for Mod. 480 1310528 24 V / 80 W	
NEW D	② Auxiliary Heating Element for Mod. 490 1310463 24 V / 160 W	
New	③ Return Loop Pipe Connection Set 3/4" 1033009 for Mod. 490 for hook up to a circulating heating system	
•	Image: Constant Control Image: Constant Control (ON at 5 °C; OFF at 15 °C), 24 V / 20 W	
	(5) Frost Protection Heater Cable 381100 L = 200 24 V/20 W	
	Image: Second system Image: Se	
	⑦ Double Bracket for pipes 1010179 1 ¼" to 2" (pair) 1010179	
(C) C) C)	8 Guard Bracket for Mod. 480/500/600 1311391	
4 6	(9) Guard Bracket for Mod. 490/520/620 1311393	
	Wall Mounting Bracket 90° for trough drinker 1311050 Mod. 480/500/600	
	(1) Guard Bracket for Mod. 480/500/600 1311394 For 90° wall fixation	
	Stainless Steel Troughs: ideal for free-stall barns	
	 High water inflow up to 30 l/min - ideal for high-performance animals Low water level for optimal hygiene and self-cleaning Low water consumption: no tipping out required 	
ALT TO A	-	

Description

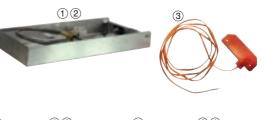
D x W x H (cm)	
Valve Water Trough Mod. 500 1300500 40x39x45 Stainless steel, ¾" right-hand hookup, wall or pipe mounting, water flow: up to 30 l/min at 5 bars 40x39x45	
Double Valve Water Trough Mod. 520 1300520 74x43x51 Stainless steel, ³ / ₄ " side hookup, as above, but 2 drinking positions, water flow: up to 30 l/min (at 5 bars)	
Seal Ring (qty 10) 102049310	
1 Auxiliary Heating Element for Mod. 500 1310523 24 V/80 W	
2 Auxiliary Heating Element for Mod. 520, 600, 620 1310524 24 V/80 Watt, for Mod. 520, 600, 620 (Two elements necessary for Mod. 520 and 620)	
③ Valve Heater 24 V/7 W 1310527	
Image: Approximation of the state of the	
(5) Frost Protection Heater Cable 381100 L = 200 24 V/20 W 24 V/20 W 24 V/20 W 24 V/20 W	
Image: Second system S	
⑦ Pipe Connection Set 3/4" 1031984 Mod 500/600/6140 1031984	
(8) Return Loop Pipe Connection Set 3/4" 1033004 for Mod. 520/620 For hook up to a circulating heating system	
Intersection Set 1" 1033007 for mod. 520/620 for hook up to a circulating heating system	
Double Bracket for pipes 1010179 1 ½" to 2" (pair) 1000000000000000000000000000000000000	
(1) Guard Bracket for Mod. 480/500/600 1311391	
@ Guard Bracket for Mod. 490/520/620 1311393	
⁽³⁾ Wall Mounting Bracket 90° for trough drinker 1311050 Mod. 480/500/600	

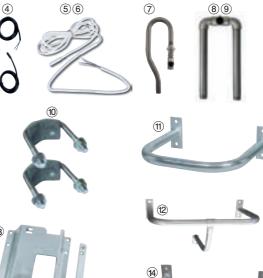
(a) Guard Bracket for Mod. 480/500/600 1311394 For 90° wall fixation











(13)

Livestock waterers



Description	Туре	Ref.	Size D x W x H (cm)
	Float Valve Water Trough Mod. 600 Stainless steel, ¾" side hookup, wall or pipe mounting, water flow: up to 50 l/min (at 5 bars), capacity: 10 l, large drain	1300600	40x40x49
	Double Float Valve Water Trough Mod. 620 Stainless steel, ¾" side hookup, as above but 2 drinking positions, water flow: up to 50 l/min (at 5 bars), capacity: 18 l, large drain	1300620	74x43x49
0	High Pressure Float Valve Maxiflow	1310700	
	3/4" hookup, water flow: up to 40 l/min at 5 bar		
	Seal Ring (qty 10) Drain Plug 1 1/4" Stainless steel troughs	102049310 1021490	
	Auxiliary Heating Element for Mod. 520, 600, 620 24 V/80 Watt, for Mod. 520, 600, 620 (Two ele	1310524	y for Mod. 520 and 620)
No. 1	② Valve Heater 24 V/7 W	1310527	
*U	③ Frost Protection Heating Cord with Thermostat Control (ON at 5 °C; OFF at 15 °C), 24 V / 20 W	381110	L = 200
Models for hookup according EN1717 on	Frost Protection Heater Cable 24 V/20 W	381100	L = 200
request available!	(5) Frost Protection Heater Cable 24 V/30 W	381101	L = 300
	© Pipe Connection Set 3/4" Mod 500/600/6140	1031984	
	Return Loop Pipe Connection Set 3/4" for Mod. 520/620 For hook up to a circulating heating system	1033004	
	(8) Ring line connection set 1" for mod. 520/620 for hook up to a circulating heating system	1033007	NEW
	Double Bracket for pipes 1 ¼" to 2" (pair)	1010179	
11 12	1 Guard Bracket for Mod. 480/500/600	1311391	
	(11) Guard Bracket for Mod. 490/520/620 (22) Wall Mounting Bracket 90° for trough drinker	1311393 1311050	
	Mod. 480/500/600		
	③ Guard Bracket for Mod. 480/500/600 For 90° wall fixation	1311394	
₩ -20° C	Float Valve Trough Mod. Cleanobac Water flow: up to 36 l/min (at 5 bars), ½" hookup	381690	96x45x32
	Heatable Float Valve Trough Mod. Isobac 100 W Heater 24 V/2 x 50 W, water flow: up to 36 l/m	381649 iin (at 5 bars),	96x45x32
	¹ /2" hookup, frost-free down to -20 °C	,,	
Rettern drain outlet	Heatable Float Valve Trough Mod. Isobac 160 W Heater 24 V/2 x 80 W, frost-free down to -25 °C	381603	96x45x32
Bottom drain outlet	High Pressure Float Valve Hook Up 1/2", colour black	1090955L	
Discharge in front	Seal Ring (qty 20) Drain Plug for Thermolac ball waterer	1090729 1090873	

All temperatures given in respect of frost safety relate to the use in livestock buildings without direct influence from wind and weather Please order transformer separately (page B187)

Livestock Watering Systems - Water Troughs

Туре	Ref.	Size D x W x H (cm)	Description
Compact Water Trough Mod. 6140 Stainless steel, Maxiflow float valve, ¾" side hoo wall or pipe mounting, drain 1", water flow: up t			
Compact Water Trough Mod. 6150 Stainless steel, Maxiflow float valve, 3/4" side h to 40 l/min (at 5 bars), capacity 60 l	1306150 ookup left or ri	100x40x35 ight, wall or pipe mounting, drain1", water flow:	
Seal Ring (qty 10) Float Valve Drain Plug 1 1/4" Stainless steel troughs	102049310 1321065 1021490		
(1) Auxiliary Heating Element for Mod. 6140 24V/180 W	1316058		
② Auxiliary Heating Element for Mod. 6150 24V/180 W	1316059		
³ Valve Heater 24 V/ 7 W	1310527		
 Frost Protection Heating Cord with Thermostat Control (ON at 5 °C; OFF at 15 °C), 24 V / 20 W 	381110	L = 200	
(5) Frost Protection Heater Cable 24 V/20 W	381100	L = 200	2
6 Frost Protection Heater Cable 24 V/30 W	381101	L = 300	5 6 (7)
⑦ Pipe Connection Set 3/4" Mod 500/600/6140	1031984		- • • • • • • • • • • • • • • • • • • •
8 Circuit pipe 3/ 4'' Mod. 6140	1316049		
③ Circuit Pipe Mod. 6150 Stainless steel, 3/4" hookup to circulation heate	1316052 r		
Double Bracket for pipes 1 ¼" to 2" (pair)	1010179		
(1) Guard Bracket for compact trough drinker Mod. 6140	1311390		
© Guard Bracket for compact trough drinker Mod. 6150	1311396		
Compact drinking trough mod. 6137 Stainless steel with Maxiflow float valve and integrated 3/4" circuit pipe, water flow 30 l/min at 4 bar, capacity 20 l	1306137	45x44x35	
Holder for compact drinking trough mod. 6137 for tube with 102 mm diameter	1311341		NEW Maximum 4 bar initial pressure





Туре	Ref.	Size D x W x H (cm)	Description
	1308531 1308532 1308533 1308534 1308535	100x58x96 150x58x96 200x58x96 250x58x96 300x58x96	
Shallow Tipping Water Trough 150 cm (55 l) Shallow Tipping Water Trough 200 cm (75 l) Shallow Tipping Water Trough 250 cm (90 l)	1308521 1308522 1308523 1308524 1308525	106x58x60 156x58x60 206x58x60 256x58x60 306x58x60	
	1310723 102049310		
① Auxiliary Heating Element Mod. 6060 24 V/180 W, for trough length 1.0 m	1316060		
② Auxiliary Heating Element Mod. 6061 24 V/180 W, for trough length 1.5 m	1316061		3 2 1
③ Auxiliary Heating Element Mod. 6062 24 V/360 W, for trough length 2.00 m	1316062		(4)
Bracket for heater for shallow tipping trough I = 2.5 m and 3.0 m	1316089		
(4) Auxiliary Heating Element For direct installation in the trough 24 V/180 W	1316063		
(5) Frost Protection Heating Cord with Thermostat Control (ON at 5 °C; OFF at 15 °C), 24 V / 20 W	381110	L = 200	
© Frost Protection Heater Cable 24 V/20 W	381100	L = 200	67 S
Frost Protection Heater Cable 24 V/30 W	381101	L = 300	
 8 Circuit Pipe Stainless steel, ³/₄" hookup to circulation heater 	1310591		
(9) Valve Heater 24 V/ 7 W	1310527		9
Frost Protection Guard Thermostatic Valve Including drain outlet set, eliminates freezing of the float by constantly supplying a small amount of water during freezing conditions, water supply: approx. 1 - 3 l/min, 3/4" hookup	1310592		

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Livestock Watering Systems - Water Troughs

Туре	Ref.	Size D x W x H (cm)	Description
Quick-Drain Trough 1.4 m (100 l) Quick-Drain Trough 1.9 m (130 l) Quick-Drain Trough 2.3 m (160 l) Quick-Drain Trough 2.85 m (200 l) Quick-Drain Trough 4.20 m (325 l) For wall mounting, conical stainless steel trough tub, float valve Mass water flow: 40 l/min (at 5 bars), ¾" external side hook-up, drainpipe DN125	1306714 1306719 1306723 1306728 1306742	140x52x48 190x52x48 230x52x48 285x52x48 420x52x48	
Float Valve Masterflow Mod. 723 Low Pressure Float Valve ¾" hookup, water flow: up to 19 l/min (at 1 ba Seal Ring (qty 10) Large Drain Plug with O-Ring	1310723 1310738 r) 102049310 1326054		
 Auxiliary Heating Element Mod. 6060 24 V/180 W, For trough length 140 cm 	1316060		
② Auxiliary Heating Element Mod. 6061 24 V/180 W, For trough length 190 cm	1316061		and the first
3 Auxiliary Heating Element Mod. 6062 24 V/360 W, for trough length 2.00 m	1316062		
④ Auxiliary Heating Element For direct installation in the trough 24 V/180 W	1316063		
(5) Frost Protection Heating Cord with Thermostat Control (ON at 5 °C; OFF at 15 °C), 24 V / 20 W	381110	L = 200	
6 Frost Protection Heater Cable 24 V/20 W	381100	L = 200	
Frost Protection Heater Cable 24 V/30 W	381101	L = 300	
(8) Circuit Pipe Stainless steel, ¾" hookup to circulation heaters	1316064		
9 Valve Heater 24 V/7 W	1310527		
1 Pipe Connection Set 1" For connection to a ring main	1316067		
(1) Guard Plate for pipe connections To protect the water pipe and the heater cable against animal abuse	1316090		
12 Frost Protection Guard Thermostatic Valve Including drain kit, eliminates freezing of the float with a steady low supply of water during freezing conditions, water flow: approx. 1 to 3 l per minute, 3/4" hookup	1310521		
13 Legs for quick-drain trough (1 set = 4 pcs), galvanised, for ground mounting	1316031	L = 89	
Plug Holder Plug Holder Quick-Drain Trough with cross tube and screws	1316086	NEW	

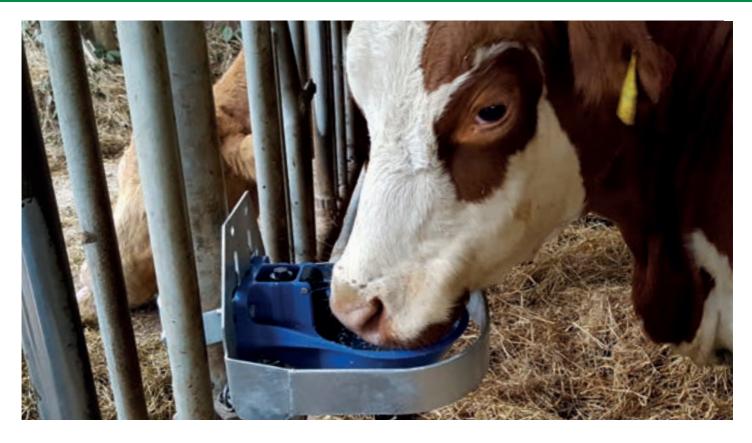
Description	Туре	Ref.	Size D x W x H (cm)
	Water Trough Mod. 5900 Plastic tube made of UV-resistant polyethylene, with sloping bottom, trough capacity: approx. 130 l, stainless steel frame for wall mounting, Maxiflow float valve, 3/4" male thread, water flow: up to 40 l /min (at 5 bars)	1305900	206x45x44
	Water Trough Mod. 5900 for floor mounting Same as Mod. 5900, but with full stainless steel base	1305910	206x45x86
52	Seal Ring (qty 10) Drain Plug 1 1/4" Stainless steel troughs	102049310 1021490	
	 High Pressure Float Valve Maxiflow 4" hookup, water flow: up to 40 I/min at 5 bars 	1310700	
	(2) Low Pressure Float Valve 3/4" hookup, water flow: up to 19 l/min (at 1 b	1310738 ar)	
	③ Auxiliary Heating Element For direct installation in the trough 24 V/180 W	1316063	
	(4) Frost Protection Heating Cord with Thermostat Control (ON at 5 °C; OFF at 15 °C), 24 V / 20 W	381110	L = 200
	(5) Frost Protection Heater Cable 24 V/20 W	381100	L = 200
	6 Frost Protection Heater Cable 24 V/30 W	381101	L = 300
	Pipe Connection Set 1" For connection to a ring main	1315904	
	8 Metal Cover To protect the water pipe and the heater cable against livestock abuse	1315905	
	Guard Bracket To protect the trough against blows and kicks from animals	1315907	



Туре	Ref.	Size D x W x H (cm)	Description
Thermo Water Trough Mod. 6523 Double-walled plastic tub made of UV-resistant polyethylene, 10 built-in hold downs, slanting, tapered bottom and large drainage hole, with float valve 700 Maxiflow, hookup: 3/4", drainpipe DN 125, water flow: up to 40 l/min (at 5 bars), capacity: 150 l	1306523	230x70x78	30°C
High Pressure Float Valve Maxiflow ¾" hookup, water flow: up to 40 l/min at 5 bars Low Pressure Float Valve ¾" hookup, water flow: up to 19 l/min (at 1 b Seal Ring (qty 10) Rubber Plug for Thermoquell	1310700 1310738 ar) 102049310 1326098		
(1) Auxiliary Heating Element for thermo water trough for Mod. 6523, 24 V / 180 W, frost-proof up to -30 °C near the valve	1316069		
(2) Frost Protection Guard Thermostatic Valve Including drain kit, eliminates freezing of the float with a steady low supply of water during freezing conditions, water flow: approx. 1 to 3 l per minute, 3/4" hookup			
③ Pipe Connection Set 1" To connect the ring main to a circulation heater	1031985		
④ Edge Protector (Bite Damage)	1316065		
Thermo Water Trough Mod. 6543 Double-walled, foamed plastic tub (2-part), 12 fixing holes, conical tub with lateral drain, float valve Maxiflow, water flow: 40 l / min at 5 bars, safe water supply up to -10 °C, with heating up to -30 °C, capacity 320 l	1306543	430x60x60	30°C
High Pressure Float Valve Maxiflow 34" hookup, water flow: up to 40 l/min at 5 bars Low Pressure Float Valve 34" hookup, water flow: up to 19 l/min (at 1 b Seal Ring (qty 10) Rubber Plug for Thermoquell	1310700 1310738 ar) 102049310 1326098		
(5) Auxiliary Heating Element for thermo water trough for Mod. 6523, 24 V / 180 W, frost-proof up to -30 °C near the valve	1316069		
6 Accessories for Mod. 6543	1031988		
		partile	



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Description	Туре	Ref.	Size D x W x H (cm)	
	Nose-Paddle Bowl Compact Mod. 1 Coated cast bowl, ½" hookup from above and below, suitable for circulation heaters, hole distance ca. 80 mm, bore diameter 10 mm	380113	27x20x16	
	Nose-Paddle Bowl Compact Mod. 2 Enamelled cast bowl, ½" hookup from above and below, suitable for circulation heater	380107	26x20x17	
	Valve for nose-paddle bowl Inner Valve Sealing for nose-paddle bowl	389001 389003		
	(1) Guard Bracket for wall and pipe mounting Mod. 2	381355		
	 Mounting Plate for Mod. 380107/380113 for 1 1/2" to 2" pipes, (without screws) The screws of the screw	38010701		2



	Туре	Ref.	Size D x W x H (cm)	Description
	Nose-Paddle Bowl Compact PATURA brand Plastic bowl, vertical paddle, 3/4" hookup from above or below, water flow: 15 l/min (at 5 bars), suitable for circulation heaters	380112	33x23x17	
	Nose-Paddle Bowl Compact PATURA brand Plastic bowl, horizontal paddle, 3/4" hookup from above or below, water flow: 15 l/min (at 5 bars), suitable for circulation heaters	380111	33x23x17	
	Repair Set (5 pcs)	38011101		
	T-fitting 3/4" for drinking bowl Mod. Compare noose paddle version, brass made	t 38011102		
(1) Guard Bracket for wall and pipe mounting Mod. 3	381356		
(2	Guard Bracket for wall mounting Mod. 5	381358		
(3) Post Bracket For posts up to 75 mm (qty 2)	381316		
4	P ost Bracket For posts up to 50 mm (qty 2)	350315		
		2	6	3

Livestock Watering Systems - Compact Drinking Bowls

Description	Туре	Ref.	Size D x W x H (cm)
	Pipe Valve Bowl Mod. Ideal Enamelled cast iron bowl, 1/2" hookup from above and below, suitable for circulation heaters, water flow: up to 9 l/m (at 5 bars) Pipe Valve Bowl Mod. Ideal-K Same as Mod. Ideal, but with plastic-coated iron cast bowl	1000061 1000066	26x21x18 26x21x18
COLUMN CHIN	Spare Valve Seal Ring (qty 10) Valve Spring (qty 10)	10201841 102072710 102067310	
	(1) Guard Bracket for wall and pipe mounting Mod. 2	381355	
	② Guard Bracket for wall mounting Mod. 5	381358	
	(3) Pipe Bracket For 1 ½" to 2" pipes, (order qty 2)	1310169	
	Pipe Valve Bowl Compact, stainless steel Stainless steel bowl, pipe valve, water flow: 14 l/min (at 5 bars), 1/2" hookup from above	380116	30x30x24
	Valve Lower Part with spring Repair Set	38011601 38011602	
	④ Guard Bracket for wall and pipe mounting Mod. 3	381356	
	(5) Guard Bracket for wall mounting Mod. 5	381358	
a (5) (6) (7)	(6) Post Bracket for posts up to 80 mm diam. (qty 2)	38011604	
	Pipe Valve Bowl Compact PATURA brand Plastic bowl, pipe valve, 3/4" hookup from above or below, water flow: 15 l/min (at 5 bars), suitable for circulation heaters	380110	33x23x17
	Repair Set for nose-paddle bowl Compact	38011001	
	Valve	38011002	
	⑦ Guard Bracket for wall and pipe mounting Mod. 3	381356	
	(8) Guard Bracket for wall mounting Mod. 5	381358	
	(9) Post Bracket For posts up to 75 mm (qty 2)	381316	
	1 Post Bracket For posts up to 50 mm (qty 2)	350315	

Туре	Ref.	Size D x W x H (cm)	Description
Nose-Paddle Bowl Mod. 115 Large, enamelled cast iron bowl, water regulation, stop tap, ½" hookup from above and below, suitable for circulation heaters, water flow: approx. 16 l/min (at 5 bars)	1000115	31x24x19	
Valve Seal Ring Valve Spring (10 pcs)	1020280 10202775 102023410		
) Guard Bracket for wall and pipe mounting Mod. 2	381355		
© Guard Bracket for wall mounting Mod. 5	381358		
3 Double Bracket for pipes 1 ¼" to 2" (pair)	1010179		
Nose-Paddle Bowl Mod. Forstal Plastic bowl, horizontal paddle, water regulation through exchangeable nozzles 0 - 7 bars, water flow: 15 l/min (at 5 bars), 3/4" hookup from above or below	383281	32x24x17	
Nose-Paddle Bowl Mod. Forstal Plastic bowl, vertical paddle, lockable, water regulation through exchangeable nozzles 2 - 6 bars, water flow: 15 l/min at 5 bars, ¾" hookup from above or below	383282	32x24x17	
Nose-Paddle Bowl Mod. Forstal T Plastic bowl, hookup from above and below, suitable for circulation heaters	383284	32x24x17	
Nylon Seal for nose-paddle bowl Forstal Valve Spring (qty 5) Exchangeable Nozzle (S) 2 – 4 bar (qty 10) Exchangeable Nozzle (H) 4 – 7 bars (qty 5) Exchangeable Nozzle (O) up to 1.0 bars, brass	1090859		
4) Guard Bracket for wall and pipe mounting Mod. 3	381356		
5 Guard Bracket for wall mounting Mod. 5	381358		
6) Mounting Rail for drinking bowl Height adjustable by 50 cm, 4 fixing points, hot-dip glavanised	350308	74x19x7	
7 Post Bracket For posts up to 75 mm (qty 2)	381316		
8 Post Bracket For posts up to 50 mm (qty 2)	350315		
9 Corner Bracket for drinking bowls Mod. Forstal und Lac 5	381361		



Description

Туре

Size $D \times W \times H$ (cm)

Pipe Valve Bowl Mod. 25R MS 3/4" With ¾" brass valve, large, enamelled cast iron bowl, continuous water regulation, hookup from above and below, suitable for circulation heaters, water flow: up t	1000253 o 12 l/min (at 5	28x25x21 bars)
Pipe Valve Bowl Mod. 25R VA 3/4" With ¾" stainless steel valve, otherwise same as Mod. 25R MS 3/4"	1000259	28x25x21
Lower Part for valve with spring, brass Lower Part for valve with spring, V2A Seal Ring (qty 10) Valve Spring (qty 10) Adjusting Screw with O-Ring (qty 5)	10214251 10214291 102072710 102067310 10206345	
① Valve Heater 24 V/5 W With thermostat (ON at 5 °C, OFF at 12 °C), cable 3 m	1011405	
(2) Pipe Connection Set 3/4" Mod. 25R To connect the ring main to a circulation heater	1031983	
③ Guard Bracket for wall and pipe mounting Mod. 2	381355	
④ Guard Bracket for wall mounting Mod. 5	381358	
(5) Valve Guard For Mod. 25R, 12P, 18P, 46, 375, 1200, 1200P	1020249	
Double Bracket for pipes 1 ¼" to 2" (pair)	1010179	
⑦ Corner Bracket for drinking bowls Mod. 12P, 25R, 370, 375	380150	

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All temperatures given in respect of frost safety relate to the use in livestock buildings without direct influence from wind and weather Please order transformer separately (page B187)

Livestock Watering Systems - Pipe Valve Bowls

Description	Туре	Ref.	Size D x W x H (cm)
	Pipe Valve Bowl Mod. 1200 3/4" With ¾" brass valve, large stainless steel bowl, hookup from above and below, suitable for circulation heaters, water flow: up to 20 l/min (at 5 bars)	1001203	31x26x24
	Pipe Valve Bowl Mod. 1200 VA 3/4" With ¾" stainless steel valve, otherwise same as Mod. 1200 MS 3/4"	1001209	31x26x24
	Pipe Valve Bowl Mod. 1220 3/4" completely out of stainless steel, continuous water regulation, with 3/4" hook from above and below, suitable for circulating heaters, water flow up t	1001229 o 20 / min at 5 b	29x31x24 pars
	Pipe Valve Bowl Mod. 1200 P MS 3/4" With ¾" brass valve, large plastic bowl, UV-resistant polyethylene, with drain in the bottom of the bowl, hookup from above and below, suitable for circulation heaters, water flow: up to 20 l/min (at 5 bars)	1001213	29x31x26
	Lower Part for valve with spring, brass Lower Part for valve with spring, V2A	10214251 10214291	
	Seal Ring (qty 10) Valve Spring (qty 10)	102072710 102067310	
	Pipe Connection Set 3/4" Mod. 25R To connect the ring main to a circulation heater	1031983	
	2 Return Loop Pipe Connection Set 3/4" for Mod. 1220 for hook up to a circulating heating system	1033002	
	3 Guard Bracket for wall and pipe mounting Mod. 3	381356	
	④ Guard Bracket for wall mounting Mod. 5	381358	
	S Valve Guard For Mod. 25R, 12P, 18P, 46, 375, 1200, 1200	1020249 P	
	6) Pipe Bracket For 1 ½" to 2" pipes, (order qty 2)	1310169	
Drainage hole with plug in the bottom of the bowl			
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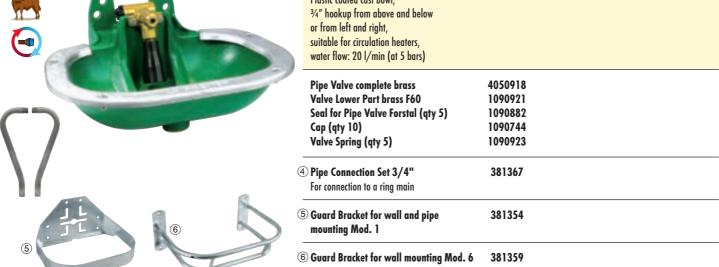
Livestock Watering Systems - Pipe Valve Bowls

Туре	Ref.	Size D x W x H (cm)	Description
Pipe Valve Bowl Mod. 20 Enamelled cast iron bowl, water regulation, ½" hookup from above, water flow: 3.5 l/min	1000020 1 (at 5 bars)	23x22x27	
Pipe Valve Bowl Mod. 10P Rugged plastic bowl, water regulation, ½" hor water flow: up to 10 l/min (at 5 bars), 2.6 l/m		24x23x25	
Lower Part for valve with spring, brass Seal Ring (qty 10) Valve Spring (qty 10)	10214251 102072710 102067310		
1 Guard Bracket for wall and pipe mounting Mod. 4	381357		
② Pipe Bracket For 1 ¹ / ₂ " to 2" pipes, (order qty 2)	1310169		
Pipe Valve Bowl Mod. 375 MS 3/4" Enamelled cast iron bowl, pipe valve infinitely adjustable, with enticeme ¾" hook-up from above and below, corner ins suitable for circulation heaters, water flow: up	tallation possible,	19x24x21 bars)	
Pipe Valve Bowl Mod. 375-VA ¾" With ¾" stainless steel valve, otherwise same as Mod. 375 MS 3/4"	1003759	19x24x21	
Lower Part for valve with spring, V2A Seal Ring (qty 10) Valve Spring (qty 10) Adjusting Screw with O-Ring (qty 5)	10214291 102072710 102067310 10206345		
③ Pipe Connection Set 3/4" Mod. 25R To connect the ring main to a circulation heate	1031983 r		
④ Valve Guard For Mod. 25R, 12P, 18P, 46, 375, 1200, 120	1020249 DP		
(5) Pipe Bracket For 1 ¹ / ₂ " to 2" pipes, (order qty 2)	1310169		
⑥ Mounting Rail for drinking bowls Height adjustable by 50 cm, 8 fixing points, st	1010433 ainless steel finish	75x17x4	
Corner Bracket for drinking bowls Mod. 12P, 25R, 370, 375	380150		
Pipe Valve Bowl Mod. 370 Enamelled, ½" hookup from above, water reg with enticement basin for attracting lambs, sheep and other sensitive animals, water flow:		19x19x27 1t 5 bars)	
Lower Part for valve with spring, V2A Seal Ring (qty 10) Valve Spring Adjusting Screw with O-Ring (qty 5)	10214291 102072710 10206805 10206345		
[®] Pipe Bracket M10 1" • 1 ½"	1310152		
Mounting Rail for drinking bowls Height adjustable by 50 cm, 8 fixing points, st	1010433 ainless steel finish	75x17x4	
⁽¹⁰⁾ Corner Bracket for drinking bowls Mod. 12P, 25R, 370, 375	380150		B211

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Description	Туре	Ref.	Size D x W x H (cm)
	Double Pipe Valve Bowl Mod. 19R 3/4" Big, enamelled cast iron bowl, continuous water regulation, hook-up from above and below, suitable for circulation heaters, water flow: up to 20 l/min (at 5 bars)	1000198	31x27x22
	Lower Part for valve with spring, brass Seal Ring (qty 10) Valve Spring (qty 10) Adjusting Screw with O-Ring (qty 5)	10214251 102072710 102067310 10206345	
	Pipe Connection Set 3/4" To connect the ring main to a circulation heater	1031987	
	© Guard Bracket for wall mounting Mod. 5	381358	
	Double Bracket for pipes 1 1/4" to 2" (pair)	1010179	
	Double Pipe Valve Bowl Mod. F60 with Anti-Splash Guard Plastic coated cast bowl, 3/4" hookup from above and below or from left and right, suitable for circulation heaters, water flow: 20 l/min (at 5 bars)	383060	43x33x20



(4)

Туре	Ref.	Size D x W x H (cm)	Description
Pipe Valve Bowl Mod. F30 Plastic coated cast bowl, ¾" hookup from above and below or from left and right, suitable for circulation heaters, water flow: 20 l/min (at 5 bars)	383051	25x32x18	
Pipe Valve Bowl Mod. F30A with Anti-Splash Guard Plastic coated cast bowl, ¾" hookup from above and below or from left and right, suitable for circulation heaters, water flow: 20 l/min (at 5 bars)	383071	25x32x18	
Pipe Valve, complete brass Valve Lower Part brass F30 Seal for Pipe Valve Forstal (qty 5) Cap (qty 10) Valve Spring (qty 5)	1090924 1090875 1090882 1090744 1090923		
(1) Pipe Connection Set 3/4'' For connection to a ring main	381367		
② Guard Bracket for wall and pipe mounting Mod. 3	381356		
③ Guard Bracket for wall mounting Mod. 5	381358		

_	Pipe Valve Bowl Mod. Forstal Plastic bowl, with pipe valve, 0.5 - 6 bars, continuous water regulation, water flow: 15 l/min (at 5 bars), ¾" hookup from above or below	383283	24x32x17
	Pipe Valve Bowl Mod. Forstal T Plastic bowl, ¾" hookup from above and below, suitable for circulation heaters	383285	24x32x17
_	Pipe Valve for Forstal pipe valve bowl Seal for Pipe Valve Forstal (qty 5) Valve Spring (qty 5)	1090920 1090882 1090923	
4	Guard Bracket for wall and pipe mounting Mod. 3	381356	
(5	Guard Bracket for wall mounting Mod. 5	381358	
6	D Mounting Rail for drinking bowl Height adjustable by 50 cm, 4 fixing points, hot-dip glavanised	350308	74x19x7
7	P ost Bracket For posts up to 75 mm (qty 2)	381316	
8	P ost Bracket For posts up to 50 mm (qty 2)	350315	
9	Corner Bracket for drinking bowls Mod. Forstal und Lac 5	381361	

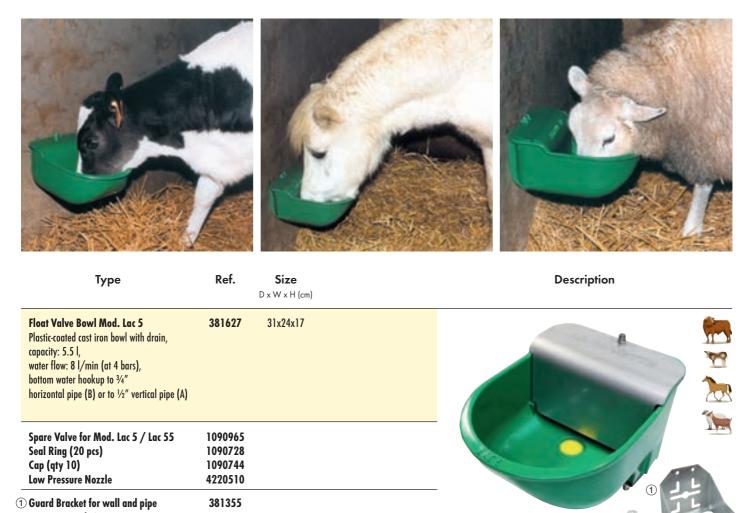


Livestock Watering Systems - Float Valve Bowls

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Description	Туре	Ref.	Size D x W x H (cm)
	Float Valve Bowl Mod. 340 Large, enamelled cast bowl, 1/2" hookup from right, 5 bars max., capacity 4 l, water flow: approx. 9 l/min (at 5 bars)	1000340	31x26x15
	Float Valve Seal Ring (qty 10)	1020504 102049310	
	1 Guard Bracket for wall and pipe mounting Mod. 3	381356	
	② Guard Bracket for wall mounting Mod. 5	381358	
	(3) Elbow Coupling 1/2" x 1/2" female thread, for hookup from above or below	1020352	
	④ Mounting Rail for drinking bowls Height adjustable by 50 cm, 8 fixing points, stainless steel finish	1010433	75x17x4
	Float Valve Bowl Mod. 130P Large, sturdy plastic bowl, 1/2" hookup from right or left, 5 bars max., capacity 3.9 l, water flow: up to 9 l/min (at 5 bars)	1000130	29x29x18
	Float Valve Bowl Mod. 130PH Integrated heating element 24 V / 20 W with thermostat (ON at 5 °C; OFF at 12 °C), frost-free up to -10 °C around the valve, otherwise same as Mod. 130P	1001305	29x29x18
-10°C	Float Valve Seal Ring (qty 10) Drain Plug Float Valve complete, low pressure Float Valve Bowl Mod. 130PN Low pressure float valve Large, sturdy plastic bowl, ½" hookup from right or left, water flow up to 3.5 l/min (at 1 bar) or 1.7 l/min (at 0 bar)	1020504 102049310 1020258 1020488	
		1000131	29x29x18
	(5) Heating Plate 20 W 24 V - to keep the valve frost-free, with thermostat (ON at 5 °C; OFF at 12 °C)	1011410	
5 6 <u>1</u>	6 Guard Bracket for wall and pipe mounting Mod. 3	381356	
	⑦ Guard Bracket for wall mounting Mod. 5	381358	
8	(8) Elbow Coupling 1/2" x 1/2" female thread, for hookup from above or below	1020352	
	 Mounting Rail for drinking bowls Height adjustable by 50 cm, 8 fixing points, stainless steel finish 	1010433	75x17x4

All temperatures given in respect of frost safety relate to the use in livestock buildings without direct influence from wind and weather Please order transformer separately (page B187)



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mounting Mod. 2		
② Guard Bracket for wall mounting Mod. 5	381358	
3 Pipe Bracket For 2" - 3" pipes, (order qty 1)	1010180	
④ Corner Bracket for drinking bowls Mod. Forstal und Lac 5	381361	

Double Bowl Mod. Lac 55 with Float Valve Plastic-coated cast iron bowl, water flow 8 l/min (at 4 bars), capacity: 6.2 l, bottom water hookup to 3/4" horizontal pipe (B) or to 1/2" vertical pipe (A) Spare Valve for Mod. Lac 5 / Lac 55

Seal Ring (20 pcs) Cap (qty 10)	1090728 1090744
Low Pressure Nozzle	4220510
(5) Guard Bracket for wall and pipe mounting Mod. 1	381354

6 Guard Bracket for wall mounting Mod. 6 381359

7 Pipe Bracket

1010180

381620

1090965

45x24x17

For 2" - 3" pipes, (order qty 1)



(4)

Livestock Watering Systems - Float Valve Bowls

patura

Description	Туре	Ref.	Size D x W x H (cm)
	Float Valve Bowl Mod. Lac 10 Plastic bowl with drain plug, water flow: 7 l/min (at 4 bars), capacity: 5.5 l, 1/2" bottom hookup	383260	26x32x22
	① Guard Bracket	381352	
	Float Valve Bowl Mod. 125 Large bowl made of aluminium with plastic lining, with drain plug, 1/2" hookup from right or left, capacity: 2.5 l, water flow: up to 3 l/min (at 5 bars)	1001250	22x22x13
	Float Valve Mod. 125 Seal Ring (qty 10) Drain Plug ② Elbow Coupling	1021086 102049310 1020258 1020352	
	1/2" x 1/2" female thread, for hookup from above or below		
	Frost-Proof Yard Hydrant High-quality enclosure parts of chrome-plated zinc die-casting, brass, stainless steel and red brass, inlet and outlet 3/4" each, 2 hose connections possible (down 3/4 "AG; forward 3/8" IG); valve mechanism with long-lasting, maintenance-free ceramic discs, standpipe drains completely, maintenance-free shutoff below frost line	383600	82x61x78/148
Frost line Cut-off valve	Provides running water ou No shut-off of external wa	tdoors in w ter line neo	vinter with no problems! cessary
Water supply with 3/4" pressure pipe Drain into gravel			

Туре	Ref. Size D x W x H (cm)	Description
 Clamp 90, fastener for drinking bowls (Mod. 19R, 46, 115, 25R, 12P, 1200, Forstal, Lac 5, Lac 55, F30, F30A, F6 	303329 0, 10P, 20, 340, 370, 375, 130, 350)	
2 Clamp 102, fastener for drinking bowls (For Mod. 19R, 46, 115, 25R, 12P, 1200, Forstal, Lac 5, Lac 55, F30, F30A, F6	341203 10, 10P, 20, 340, 370, 375, 130, 350)	in the factor
3) Clamp 76, fastener for drinking bowls (Mod. 19R, 46, 115, 25R, 12P, 1200, Forstal, Lac 5, Lac 55, F30, F30A, F60, 10P, 20, 340, 370, 375, 130, 350)	303469	4 6 148 mm 6 148 mm
Post Bracket For posts up to 75 mm (qty 2)	381316	112 mm
5) Pipe Bracket For 2" – 3" pipes,	1010180	
6) Post Bracket For posts up to 50 mm (qty 2)	350315	
Double Bracket for pipes 1 ¼" to 2" (pair)	1010179	64 mm
8 Pipe Bracket With support plate for pipes 1 ½" to 2", (order qty 2)	1010167	10
9 Post Bracket for posts up to 80 mm diam. (qty 2)	38011604	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
© Mounting Plate for Mod. 380107/380113 for 1 ½" to 2" pipes, (without screws)	38010701	50 mm
D Pipe Bracket M10 1" - 1 ½"	1310152	Note: inner
Pipe Bracket For 1 ½" to 2" pipes, (order qty 2)	1310169	dimensions!
	_	71

Flexible connection with stainless steel amoured hoses

Туре	Ker.	D x W x H (cm)	Desc	ription
(3) Flexible Connecting Hose f/f connection 1/2"	380130	60	8	1
Flexible Connecting Hose f/m connection 1/2"	380131	30		
(15) Flexible Connecting Hose f/m connection 1/2"	380132	50	® @ 6 6	7 18
Flexible Connecting Hose f/m connection 3/4"	380133	30		
The state of th	380134	50		
B Flexible Connecting Hose f/m connection 3/4"	380135	70	1	
Ilexible Connecting Hose f/f connection 1"	380137	100		.

(19)

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Description	Туре	Ref.	Size D x W x H (cm)
	Membrane Pasture Pump Aquamat II Including 1" hose connector	380102	75x32x38
	Membrane Pasture Pump Aquamat II MK Suckler cow Mod., including 1" hose connector "The mother pumps the water for the calf"	380101	75x40x38
	Membrane for pasture pump Valve for pasture pump (qty 2)	1090878 1090957	
	D Spiral Suction Hose, inner diameter 30 mn (Per metre)	1 380103	
Especially smooth- running	Suction Strainer with Check Valve And 1" hose attachment support	380104	
	Pasture Pump - clean water on t By multiple operation of the supply from depths of up to 7 m into the dr pasture pump very quickly. One pu suckler cow Mod., the cow pumps t at the side is specially designed to s out of the main bowl, whose size fit	lever, the c inking bov mp supplie he water f suit the mo	animals pump themselves water vl. The animals learn to operate the es approx. 15 - 20 cattle. In the or the calf. The small drinking bowl uths of calves. Water constantly flows
	 The animals pump the water then (1 m vertically = 10 m horizontal Pump performance: 0.5 litre/lift (Suction basket diam. 58 mm, 1" 	ly; Suevia La Buvette	max. lenght: 20 m)

Туре	Ref.	Size D x W x H (cm)	Description
Pasture Pump Mod. 547 Smooth-running membrane pasture pump, operating lever made of cast iron, bowl made of solid UV-resistant polyethylene, incl. hose connector Pasture Pump Mod. 548 >suckler cow<	1000547	68x31x47 68x42x47	
Same as Mod. 547 but with additional lateral drinking bowl for young stock	1000340	00772777	
Membrane for pasture pump Valve Plug for pasture pump Short Bearing Bush (10 pcs)	1020812 1020811 102095510		
 Spiral Suction Hose, inner diameter 30 mm (Per metre) 	380103		
(2) Suction Strainer with Check Valve And 1" hose attachment support	380104		
Pasture Pump Mod. Winterproof 552 Membrane pasture pump mounted on a double-walled and very well insulated mounting base, large service aperture which can be opened without use of tools, ensures easy accessto the paraffin heating elemen mounting base made of stainless steel, 6 fixing holes for floor mounting, for heating a parafin heating element inside the please order separately Ref. 1010550		76x49x102 d,	-15°C
Pasture Pump Mod. Winterproof 553 Same as Mod. 552 but with additional lateral drinking bowl for young stock	1000553	76x49x102	
Membrane for pasture pump Valve Plug for pasture pump Short Bearing Bush (10 pcs)	1020812 1020811 102095510		
3 Spiral Suction Hose, inner diameter 30 mm (Per metre)	380103		
(4) Suction Strainer with Check Valve And 1" hose attachment support	380104		3 Caution: use only
(5) Paraffin Heating Element Capacity: approx. 1,70 l, continuous burning up to 5-8 days	1010550		petroleum jelly
(6) Spare Wick for paraffin heater Suitable for pasture pumps Winterproof (qty 2)	1021163		€ 5 6 6 6 6 6 6 6 6
			6

Livestock Watering Systems - Pasture Water Troughs

patura

Ref.

351601

1090728

351608

1090729

350672

351628

1090729

1310475

1020649

380106

1021804

102049310

10204945

1000180

1021804

1021802

1021806

380114

1021804

381355

381358

Size

 $D \times W \times H$ (cm)

17x32x26

17x32x26

27x19x19

25x10x18

29x25x26

27x25x27

29x24x20

Description Type Built-In Float Valve, high pressure Stainless steel housing, plastic valve, can be switched off, connection 1/2", Inlet up to 26 l/min at 5 bar Spare Valve for both low and high pressure 1090867 Seal Ring (20 pcs) **Built-In Float Valve, low pressure** (< 1 bar), water flow: 15 l/min (at 0.5 bars) 1/2" hookup Spare Valve for both low and high pressure 1090867 Seal Ring (qty 20) Built-In Float Valve Mod. Lacabac 72 Stainless steel housing, plastic valve, lockable, 3/4" water hookup, water flow: up to 72 l/min (at 3 bars) Spare valve Seal Ring (qty 20) Built-in float valve mod. 475 for troughs and tubs, 3/4" connection, for low pressure, 19 l/min at 0.5 bar NEW Membrane for float valve Mod. 671 and 674 Add-On Drinking Bowl Mod. 98 For water containers, special cast aluminium, water flow: up to 5 l/min, with flange sealing Spare Gasket for mounting flange To fit Mod. 98/180 and Compact Seal Ring (qty 10) Valve Spring (5 pcs) Add-On Drinking Bowl Mod. 180 For water containers, plastic, with flange sealing Spare Gasket for mounting flange To fit Mod. 98/180 and Compact Valve for Mod. 180 P O-Ring 12x4 Add-On Drinking Bowl Compact For pasture water containers, with flange sealing Spare Gasket for mounting flange To fit Mod. 98/180 and Compact ① Spare Valve for aluminum pasture water trough 1029803 With seal ring and 2 screws 2 Guard Bracket for wall and pipe mounting Mod. 2 **3** Guard Bracket for wall mounting Mod. 5



Isothermal Trough Drinker Isobar 250

Functioning of the thermal drinker Isobar 250

The container is locked by a floating cover, which rises and falls with the water level in the tank. This cover has a hole for drinking, which is also closed with a disk. To get to the water, the animal presses against this cover disk, which gives in very slightly and then moves back into its original position. This prevents heat from dissipating at the top or water getting into the water. Frost-proof in the winter up to -15°C and keeps clean and cool in the summer.

Туре	Ref.	Size D x W x H (cm)	Description	
Isothermal Trough Drinker Isobar 250 Maximum capacity 2501 available water 1801 (with cover)	381751	Ø 100, H=65		*
 Made of UV-resistant, food-grade Water reserve for 1 week for one Hygiene: the water is protected fr Ø100 mm drain with insulating p Interior design without corners and 	horse (in w om sun, wil lug	d animals and leaves		2 15°





Livestock waterers

NEW



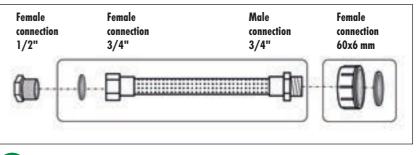
Connector Set for IBC-Container Hookup to drinking bowl 1/2",

1032020

- consisting of reducing adaptor S60 x 6 mm
- to 3/4" male thread, 70 cm armoured hose,

3/4" female thread, straight reducing adaptor 3/4" male to 1/2" female

When connected to drinking bowl with 1/2 " female thread an additional straight pipe nipple with 1/2 " male thread is needed





Matching: Float valve bowl mod. 130PN (page B214)



Description	Туре	Ref.	Size D x W x H (cm)
NEW	Water Trough Mod. 6173, stainless steel for goats and sheep, length: 1.20 m, contents 16 l, water flow: 40 l/min	1306173	120x18x26
	Water Trough Mod. 6175, stainless steel for goats and sheep, length: 2.10 m, contents 29.5 l, water flow: 40 l/min	1306175	210x18x26
	① Auxiliary Heating Element for Mod. 6173/6175	1316056	24V/180 W
	Pipe Connection Set 3/4" for Mod. 6173/6175	1033008	
-10°C	Water Trough Mod. 6155, stainless steel for goats and sheep, length: 2.10 m, water flow: up to 5 l/min (at 5 bars)	1306155	200x16x18
	Float Valve	1020504	
3	③ Auxiliary Heating Element for Mod. 6155	1316057	24V/180 W
	Pasture Water Including high pressure float valve, 1/2" hookup, water flow: 8 l/min (at 3 bars)	382253	160x48x46
	Float Valve (qty 1) Cap (qty 10)	1090987 1090744	

All temperatures given in respect of frost safety relate to the use in livestock buildings without direct influence from wind and weather Please order transformer separately (page B187)

Туре	Ref.	Size D x W x H (cm)	Description
Add-On Double Drinking Bowl Mod. FT80 for water containers, Capacity: 80 I, rectangular low pressure float valve (up to 1 bar), 3/4" lockable valve, water hookup, with flange sealing	1600280	98x40x39	
Low pressure Seal Ring (qty 10) 10	1321137 02049310 1620001		
Add-On Double Drinking Bowl Mod. Biglac 55T Capacity: 551, low pressure float valve	380105	86x30x30	
Spare Valve (Set with high pressure and low pressure n Seal Ring (qty 20) Cap (qty 10) • With attachment flange fo • Made of polyethylene	1090729 1090744	iss and steel water to	Inks
Water Trough for free stalls and pasture Mod. WT30, capacity 30 I, rectangular With high pressure valve, 3/4" hookup to the side, water flow: up to 40 I/min (at 5 bars)	1600030	53x49x30	
Water Trough for free stalls and pasture Mod. WT30-N, capacity 30 I, rectangular With low pressure valve, 3/4" hookup to the side	1600031	53x49x30	
High-Pressure Float Valve Float Valve for low pressure suitable for Mod. WT30-N 3/4" connection Drain Plug 1 1/4" Stainless steel troughs	1310754 1310755 1021490		¹
Guard Bracket for water trough Mod. WT30	1311301		



Livestock Watering Systems - Pasture Water Troughs

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	Pasture Water Trough Mod. Prebac, 70 l, rectangular Including high pressure float valve, ½" hookup, water flow: 40 l/min (at 5 bars)	350700	106x39x32
	Pasture Water Trough Mod. Prebac, 70 l, rectangular Including low pressure float valve (up to 1.0 bar)	350710	106x39x32
	High Pressure Valve (Black) with float, water flow: 40 l/min (at 5 bars), (water pressure 1 - 6 bars)	351603	
	Low Pressure Valve (Blue) with float, (water pressure 0 - 1 bar)	351617	
	Seal Ring (qty 20) Rectangular Cover Plate for Mod. Prebac	1090729 1090874	
	Pasture Water Trough Mod. Prebac, 200 I, rectangular ½" hookup, order float valve separately	352001	160x46x44
	Pasture Water Trough Mod. Prebac, 400 I, oval Order float valve separately	382269	147x105x40
	Pasture Water Trough Mod. Prebac, 550 I, oval Order float valve separately	382275	147x105x60
	Pasture Water Trough Mod. Prebac, 950 I, oval Order float valve separately	382278	203x115x60
	Pasture Water Trough Mod. Prebac, 1500 I, circular Order float valve separately	351501	Ø 200, h=60
	Seal Ring (qty 20) Rectangular Cover Plate for Mod. Prebac	1090729 1090874	
	High Pressure Valve (Black) with float, water flow: 40 l/min (at 5 bars), (water pressure 1 - 6 bars)	351603	
B224	Low Pressure Valve (Blue) with float, (water pressure 0 - 1 bar)	351617	

Туре	Ref.	Size D x W x H (cm)	Description
Water Trough for freestalls and pasture Mod. WT 80 With high pressure valve 1/2" hookup, water flow: up to 25 l/min (at 5 bars), capacit	1600102 y: 80 l	98x40x39	
High Pressure Float Valve Mod. 674 3/4" connection, water flow up to 30 / min of High Pressure Float Valve 1/2" Membrane for float valve Mod. 671 and 674 Drain Plug for pasture water troughs and trough drinkers	1310674 at 4 bar 1320533 1020649 1620001		
Water Trough for freestalls and pasture Mod. WT 80-N With low pressure valve for 1 bar max., 3/4" hook-up	1600106	98x40x39	
Low Pressure Float Valve Mod. 675 3/4" hookup, water pressure: up to 1 bar max., water flow: up to 19 l/min (at 1 bar) Seal Ring (qty 10) Drain Plug for pasture water troughs and trough drinkers	1310675 102049310 1620001		
Pasture Water Trough Mod. WT200, 200 Lateral fixing loops for ground mounting, order float valves separately	1600103	153x54x46	
Pasture Water Trough Mod. WT400, 400 Lateral fixing loops for ground mounting, order float valves separately	l 1600104	125x82x63	
Pasture Water Trough Mod. WT600, 600 Order float valve separately	l 1600100	140x100x63	
Pasture Water Trough Mod. WT1000, 10 Order float valve separately	00 1600101	180x120x63	
Seal Ring (qty 10) Membrane for float valve Mod. 671 and 674 Drain Plug for pasture water troughs and trough drinkers	102049310 1020649 1620001		
Membrane float valve mod. Easy Flow 1/2" hookup, water flow: up to 25 l/min at 5 b	1310800 ars	NEW	
High Pressure Float Valve Mod. 674 3/4" connection, water flow up to 30 / min c	1310674 at 4 bar		
Low Pressure Float Valve Mod. 675 ¾" hookup, water pressure: up to 1 bar max., water flow: u	1310675 up to 19 l/min (d	at 1 bar)	
Pasture Water Trough Mod. WT1500, 15 Order float valve separately	00 1600105	220x160x65	
Seal Ring (qty 10) Drain Plug for pasture water troughs and trough drinkers	102049310 1620001		The pasture water troughs are made of premium UV- resistant polyethylene. No water spillage thanks to internally rolled rim. A large drainage hole ensures fast and easy discharge and cleaning. The pasture water
High Pressure Float Valve Maxiflow 3/4" hookup, water flow: up to 40 l/min at 5 bo	1310700 ars		troughs are available from 70 l to 1500 l with the appropriate float valves (high and low pressure). It will be neccessary to create a larger assembly opening for
Low Pressure Float Valve ¾" hookup, water flow: up to 19 l/min (at 1 b	1310738 par)		the use of valves Ref. 1310674 or Ref. 1310675.

