

## WATER TROUGH Available in galvanized and stainless steel sizes 48" - 96"



## HEATED LIVESTOCK WATERER

Available models: H50, HL50, H100, H200



## POLY WATERER

Model: HLW-P50



## AQUA BOWL Provides fresh water year around - including below freezing temperatures



**CANARM LTD. - Corporate Office**  
2157 Parkedale Ave., Brockville, ON  
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**FACT**

Recent studies have shown that there is less bacterial growth on stainless steel water tanks.

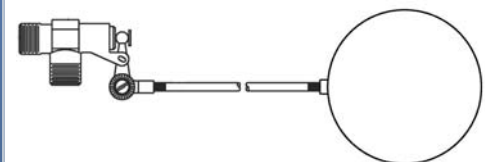
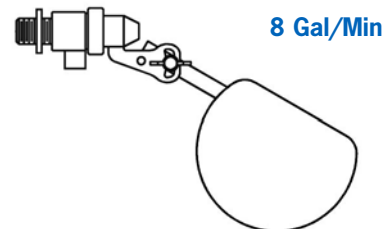
All your cows should have access to fresh water after being milked to maximize water intake. With Canarm AgSystem's tip trough your cows can have easy access to clean drinking water to keep them healthier and give more milk.

## FEATURES

- Tip the trough to keep your cows' water supply clean.
- Protect your equipment investment by choosing our high quality, durable heavy gauge troughs.
- You can choose galvanized steel (in 4, 6 and 8 sizes) or 6 stainless steel troughs. If you need a tip trough of another size, contact us and we will make a tip trough to fit your barn.
- Hi-flo float system which refills whenever the float drops. Our float system has a steel guard that stops cows from playing with the float mechanism.

## CAPACITIES

4 FT = 21 Gals at recommended 7" water depth  
 6 FT = 28 Gals at recommended 7" water depth  
 8 FT = 38 Gals at recommended 7" water depth



21 Gal/Min

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**Canarm's Energy Efficient Heated Livestock Waterers are designed for both durability and ease of use.**

**2" INSULATION (R15)**



**FLOAT & VALVE ASSEMBLY**



*Our strong, double wall design, combined with 2" of injected polyurethane foam insulation, gives an R15 insulation value, one of the highest in the industry. **The new Poly option for the 50 head waterer has a R18 insulation value!***

Based on PAMI testing our HL50 and H100 were rated #1 for energy savings. The energy cost for the winter season on our HL50 model proved to be almost 3 times more efficient than the competitive models tested at the same time. Our H50, HL50 and H100 are now designed with more than twice the amount of insulation than the models tested by PAMI.

The hinged bowl is designed to lift up for easy cleaning, as well as quick access to all internal components. Stainless steel bowl construction ensures long life, and eliminates the risk of chipping paint and rust contamination. Canarm heated livestock waterers come with either a 320 watt or 500 watt thermostatically controlled heating element. An external pilot light (there is no pilot light on the P50), which is visible from a distance, glows when the heater is operating. The thermostat is adjustable and can be accessed through the control cover. The nylon control valve is designed for trouble free, year around operation.

## FEATURES

### H50

- 2" foam insulation - R15
- Pilot light glows when unit in operation
- Waters up to 50 cattle
- 110V, 320 watt element
- 24" H x 26 1/2" L x 16 1/2" W
- 5.5 GPM @ 30 PSI

### H100

- 2" foam insulation - R15
- Pilot light glows when unit in operation
- Waters up to 100 cattle
- 110V, 500 watt element
- 24" H x 31" L x 22" W
- 5.5 GPM @ 30 PSI

### HL50

- 2" foam insulation - R15
- Pilot light glows when unit in operation
- Waters 50 cattle or 200 sheep
- 110V, 320 watt element
- 12" H x 26 1/2" L x 16 1/2" W
- 5.5 GPM @ 30 PSI

### H200

- 2" Injected structural foam insulation – R15
- Pilot light glows when unit in operation
- Waters up to 200 Head of Cattle
- Hi Flow valve design 12 GPM @ 30 PSI pressure for faster fill.
- 110V, 500 watt + 320 watt element
- 24"H x 41 5/8"L x 23 3/4"W

**RUGGED • ENERGY EFFICIENT • ANIMAL FRIENDLY • ECONOMICAL**



## HLW-P50 HEATED POLY WATERER

- Durable poly cabinet resists corrosion for years of service.
- Stainless steel top and poly cabinet will never rust.
- Comes with seamless stainless bowl.
- Stainless steel bowl construction ensures long life, and eliminates the risk of chipping paint and rust contamination.
- Thicker cabinet wall for a superior R value (R18).
- Mounting corners molded inside the cabinet make for easy installation and removal.
- Bowl has rounded corners that provide a durable yet smooth surface that is gentle on animals.
- Comes with a 320 watt thermostatically controlled heating element.
- Electrical box hinges open from the inside for easy access to components.
- Adjustable thermostat.
- Nylon control valve is designed for trouble free, year around operation.

## FEATURES

### P50

- 2" PLUS foam insulation - R18
- UV resistant Polypropylene
- Waters 50 cattle or 200 sheep
- 110V, 320 watt element
- 24" H x 29" L x 19" W
- 5.5 GPM @ 30 PSI



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**Provides continuous fresh water all winter and summer. Designed especially for below freezing conditions.**

The Aqua Bowl is a rugged, reliable waterer designed to keep your cows hydrated in harsh conditions, including below freezing temperatures. It keeps water circulating to prevent it from freezing while saving energy.

## FEATURES

- Fully equipped with a heater, thermostat, infeed line heating wire and reliable float valve.
- It is sized to adequately water cows in groups in the field or individually in stalls.
- The font replenishes quickly, thus eliminating icing.
- Constructed of heavy duty, double walled poly, this bowl is rugged and able to withstand the elements for years of trouble-free performance.
- The inside is very easy to clean with an efficient drain.
- Thermal switch turns heater on at 5°C and off at 15°C to keep drinking water from freezing, yet not overheating, which saves on electricity and energy costs.
- All electrical components are sealed in epoxy to prevent shocks.

## APPLICATIONS

The versatile shape of the unit allows it to be easily mounted both indoors and out. It is designed to fit snugly into an upended culvert for outdoor use, or it can be mounted with a wall bracket for use in stalls, building sides or posts. See installation details below.

## HOW IT WORKS

### Convection Circulation

The heating element creates a convection current in the water, which allows warm water to replace cold water on the exposed surface. As the cold water is displaced from the top, it sinks down and around to be continuously rewarmed. **Freezing of the exposed surface water is eliminated to at least -40°C.**

## EASY MAINTENANCE

To service, simply turn off the water and electric connections at source and remove four screws to remove the side access plate. The electric, water joints and the electric and water components are then easily accessible.

## SIMPLE INSTALLATION

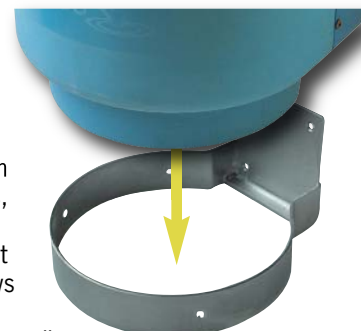
### In the field/outdoors

The Aqua Bowl is designed to fit securely into the end of a standard 10" galvanized culvert. After digging a trench to below the frost line (approx 1.25 metres or 4' depth), lay a half inch PVC water line and underground grade electric line through a four inch 'Big O' tubing, from source to font position. Install a standard 10" diameter, 7' length of galvanized culvert on its end with 4' below grade and 3' above.



### In the stall

The Aqua Bowl is designed to fit snugly into an optional bracket available from your dealer. Just mount the bracket within a stall, or between two stalls, at an appropriate height. Seat the font into the bracket and secure it with four screws provided. Then connect an electric line, and a heated water line for easy hook-up, per instructions.



## COMPONENTS



### BOWL

Made of double walled, heavy gauge, non-toxic poly. Won't crack in freezing conditions. No sharp edges. It replenishes often to keep the water fresh.

### PROTECTOR PLATE

Secure enough that cows can't budge it, but easily slides out by hand for bowl cleaning and inspection.

### SIDE ACCESS PLATE

Unscrews for ease of servicing.



### POSITIVE ACTION FLOAT VALVE ASSEMBLY

Firmly attaches water line to float valve. Valve is adjustable. It is easy to access and is made of durable plastic with positive stop valve.



### THERMOSTAT

Immersed in water to maintain water temperature between 3°C and 15°C in freezing conditions.

### HEATING ELEMENT

Rated at 70 watts, the heating element keeps water circulating for even temperature control. Good to, at least -50°C.

### ELECTRICAL COMPONENTS

#### THERMOSTAT, HEATING ELEMENT, WIRES

All electrical components are sealed in epoxy to prevent shocks. Replaced only as an all-inclusive unit.

### WIRES

A 4 foot, 3 prong, power cord and a 6' 4" water line heating wire are provided for installation. Rated at 40 watts, the cable is taped to the water line in the watering bowl, and then inserted in a foam sleeve over the water line to a depth of 4.5' below grade.

## WARRANTY

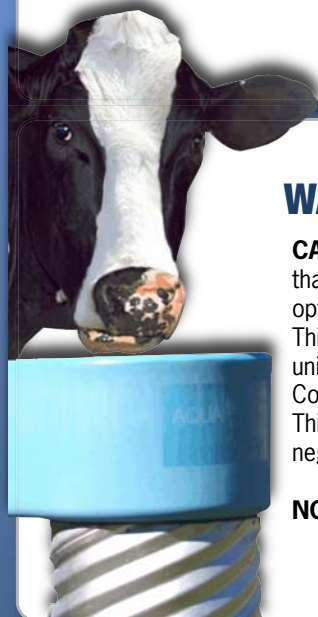
**CANARM Ltd.** warrants every new **AQUA BOWL** to be free of defects in material and workmanship, to the extent that, within a period of one year from the date of purchase CANARM Ltd. shall either repair or replace at CANARM's option, any unit or part thereof, returned freight prepaid, and found to be defective.

This warranty does not include any labour or transportation costs incidental to the removal and reinstallation of the unit at the user's premises.

Components repaired or replaced are warranted through the remainder of the original warranty period only.

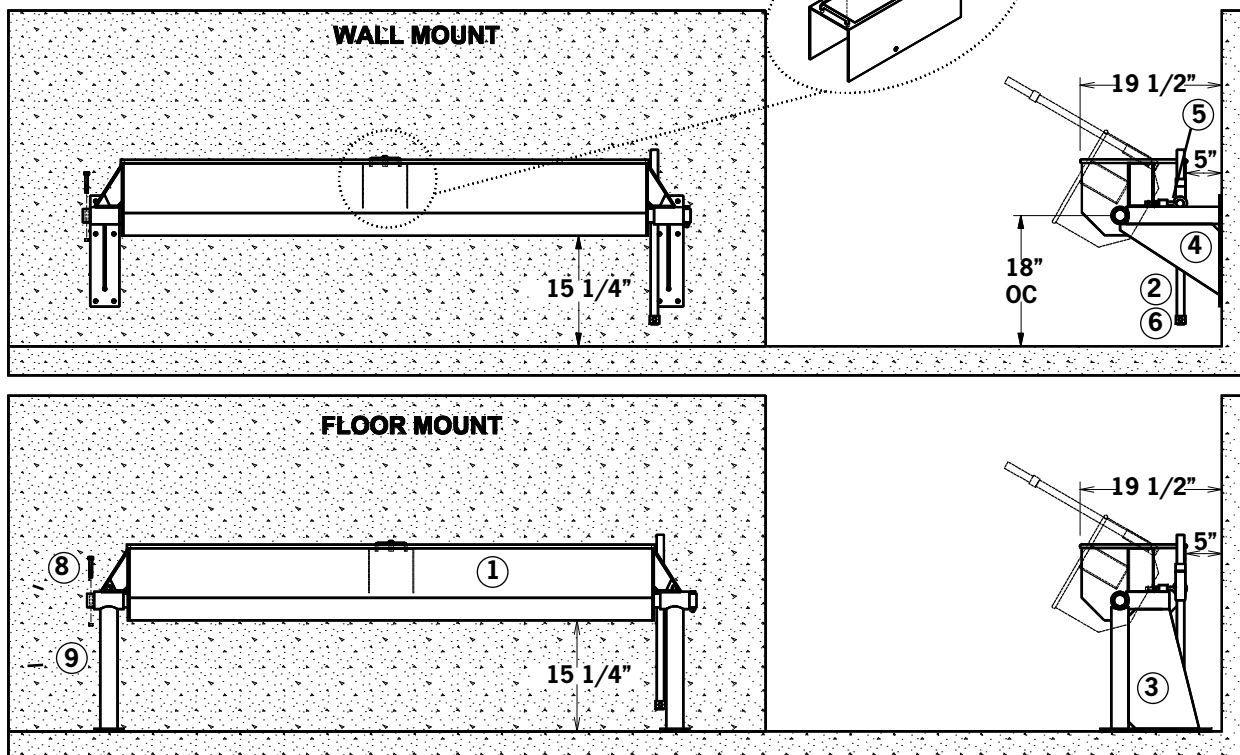
This warranty applies to the original purchaser-user only; it is null and void in case of alteration, accident, abuse, neglect, and operation not in accordance with instructions.

**NOTICE:** No warranty claims will be honored by **CANARM Ltd.** unless prior authorization is obtained.



## ASSEMBLY

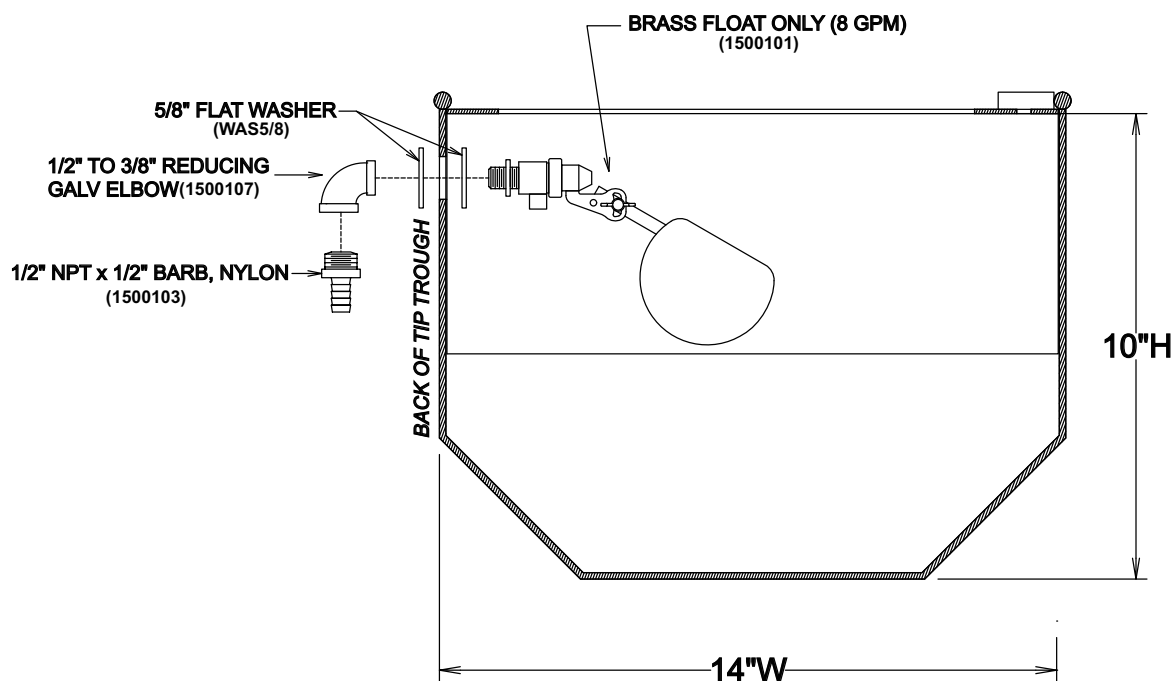
- \* CAPACITIES: 4 FT = 21 Gals at recommended 7" water depth  
6 FT = 28 Gals at recommended 7" water depth  
8 FT = 38 Gals at recommended 7" water depth



ILLUS.	DESCRIPTION	PART #	PACKAGE NAME
1 *	SS TIP TROUGH ONLY (10" H) 48" LG 72" LG 96" LG	1602048 1602072 1602096	SS TIP TROUGH
	GALV TIP TROUGH ONLY (10" H) 48" LG 72" LG 96" LG	1604048 1604072 1604096	GLV TIP TROUGH
2	1" ROD GALV HANDLE ONLY/TROUGH	1600130	HANDLE MOUNTS
3	GALVANIZED FLOOR MOUNT BRACKET/TROUGH	1600400	
4	GALVANIZED WALL MOUNT BRACKET/TROUGH	1600440	
5	ULTRASEAL EYEBOLT 3 3/4" LG	1240221	SS HDW + COVER PL  <b>1602410</b>
6	1" LG COLLAR/TROUGH HANDLE	1600134	
7	<b>STAINLESS STEEL COVER PLATE</b>		
8	3/8" X 2 1/2" HEXBOLT	BOL3/8-21/2H	
9	3/8" NYLON INSERT LOCK NUT	NUT3/8LN	
10	1/4" X 1 5/8" LG LYNCH PIN	2060633	GLV HDW + COVER PL  <b>1600410</b>
N/S	HAIR PIN (HP4)	HP4	
5	ULTRASEAL EYEBOLT 3 3/4" LG	1240221	
6	1" LG COLLAR/TROUGH HANDLE	1600134	
7	<b>GALVANIZED COVER PLATE</b>		
8	3/8" X 2 1/2" HEXBOLT	BOL3/8-21/2H	
9	3/8" NYLON INSERT LOCK NUT	NUT3/8LN	
10	1/4" X 1 5/8" LG LYNCH PIN	2060633	
N/S	HAIR PIN (HP4)	HP4	

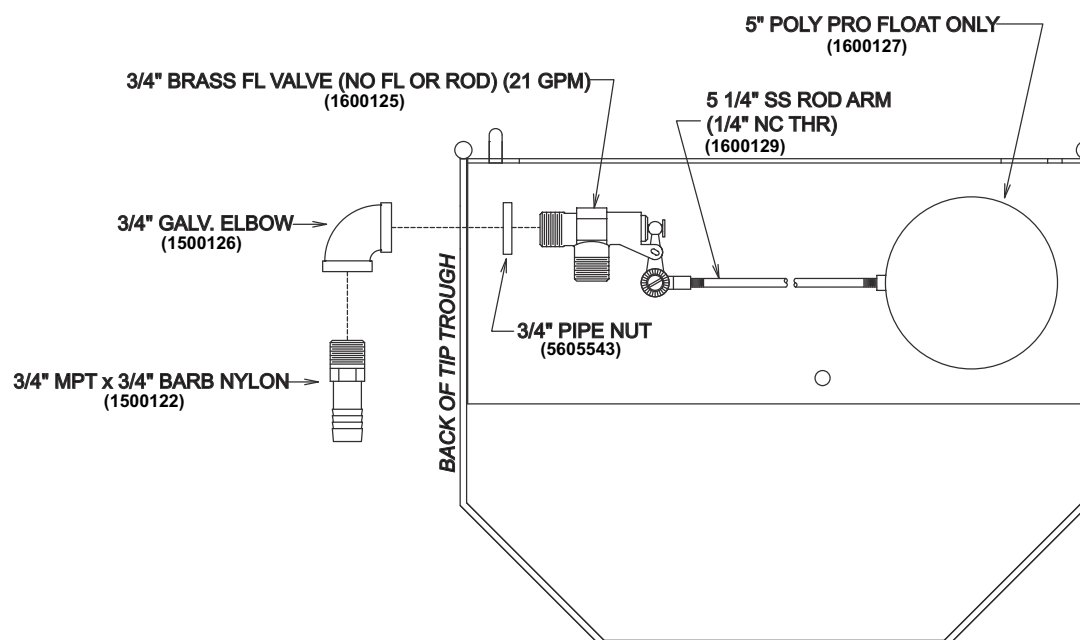
## 1500100

BRASS FLOAT VALVE (8 GALLONS / MIN) + HDW



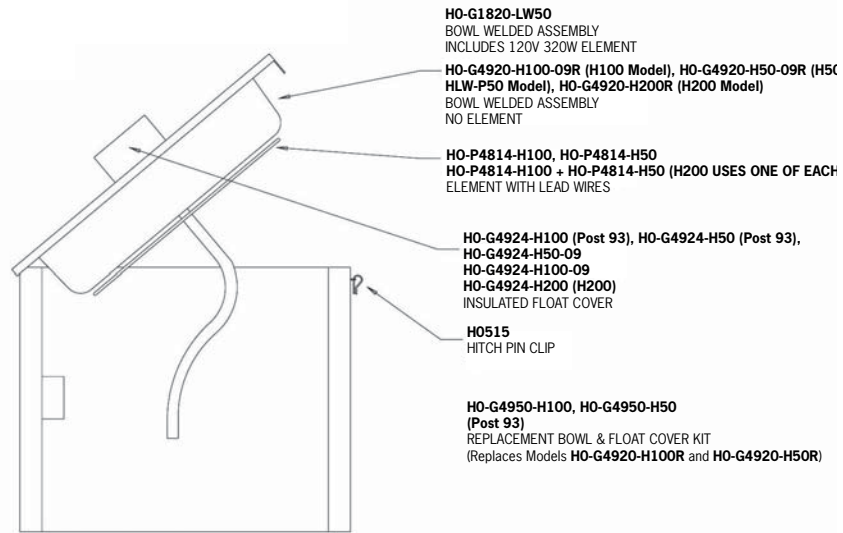
## 1500120

HD BRASS FLOAT VALVE (21 GALLONS/MIN) + HDW

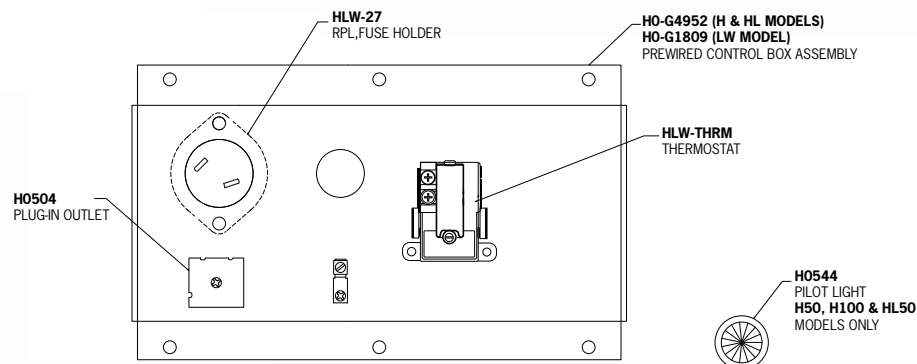




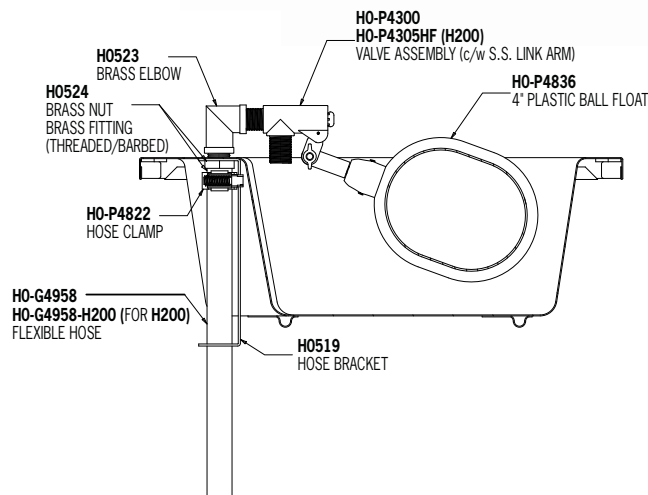
## GENERAL COMPONENTS



## ELECTRICAL COMPONENTS



## WATER SUPPLY COMPONENTS



## HO-G4920-H100-09R

REPLACEMENT BOWL - H100 (POST 2008)

## HO-G4920-H50-09R

REPLACEMENT BOWL - H50 (POST 2008)

## HO-G4920-H200

REPLACEMENT BOWL - H200

## HO-G1820-LW50

REPLACEMENT BOWL - LW50



## HO-G4950-H100

H100 (All model years)

## HO-G4950-H50

H50 (All model years)

**REPLACEMENT BOWL  
& FLOAT COVER KIT**



\*Post 2008 style shown above

## HO-G4924-H100

FLOAT COVER - H100 (POST '93) INSULATED

## HO-G4924-H50

FLOAT COVER - H50 (POST '93) INSULATED

## HO-G4924-H100-09

FLOAT COVER - H100 (POST 2008) INSULATED

## HO-G4924-H50-09

FLOAT COVER - H50 (POST 2008) INSULATED

## HO-G4924-H200

FLOAT COVER - H200 (POST 2008) INSULATED

## HO-G4958

FLEXIBLE SUPPLY HOSE  
(POST '93)

## HO-G4958-H200

FLEXIBLE SUPPLY HOSE  
(H200 MODELS)



## HO-P4822

(#10 GEAR CLAMP, HF10)  
HOSE CLAMP



## HO-G4952

CONTROL BOX PRE-WIRED  
(H, HL MODELS ONLY)



## H0502

THERMOSTAT



## HLW-27

FUSE HOLDER



## H0514

HOLD DOWN BRACKET +  
HDW. (POST '93)



## H0519

HOSE BRACKET HLW-93



## H0523

H0523 BRASS ELBOW  
(HLW-94)



## H0524

H0524 BRASS FITTING &  
NUT



## H0544

ROUND PILOT LIGHT (KIT)  
(POST '92)



## HO-P4300

VALVE ASSEMBLY (KERICK)  
C/W LINK ARM FOR FLOAT

## HO-P4836

4" PLASTIC BALL FLOAT

## HO-P4305HF (H200 MODEL)



## HO-P4301

VALVE CUP & TIP SEAL KIT

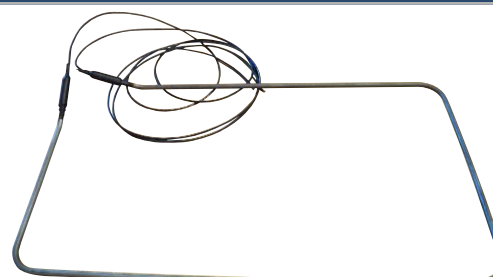


## HO-P4814-H100

ELEMENT (500 WATTS) - H100 (POST '93), 19" X 11"

## HO-P4814-H50

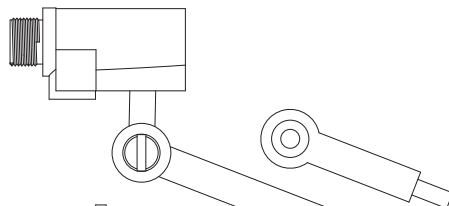
ELEMENT (320 WATTS) - H50 (POST '93), 16" X 7"



H200 Model uses one of each of the above.

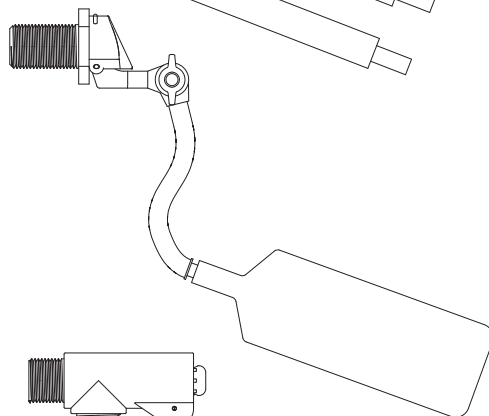
## HEATED LIVESTOCK WATERERS VALVE & FLOAT

**Illustration #1**



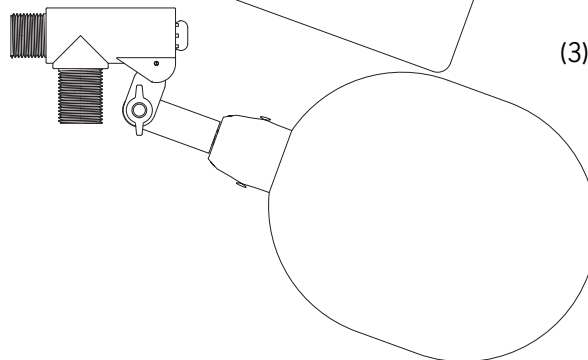
- (1) **Part#: H0511 / H0512**  
No longer available.  
Upgrade to newer valve (**Illustration #3**) is recommended.

**Illustration #2**



- (2) **Part#: H0-P4200 / H0-P4201**  
No longer available.  
New valve (**Illustration #3**) replaces valve shown in **Illustration #2**.

**Illustration #3**



- (3) **Part#: H0-P4300** Available and current default valve (5.5 GPM @ 30 PSI)  
**Part #: H0-P4305HF** for H200 model (12 GPM @ 30 PSI)

**Float: H0-P4836**

- 2001** Post-1994 valve assembly (see **Illustration #1**) required costly design upgrade for high water pressure (PSI) locations. Research thus began for alternate valves.
- 2003** An alternate valve (see **Illustration #2**) was found, tested and approved to cover high PSI locations with fair results for low PSI locations. Decision was made to completely switch to this valve.
- 2005** Feedback indicated that low PSI locations needed greater water flow. Valve supplier was immediately contacted for further development. In the interim however, low PSI users were told to purchase the post-1994 valve (**Illustration #1**) with an updated plastic float as a replacement assembly.
- 2006** A redesigned, more robust valve (**Illustration #3**) with improved sealing and a larger orifice size (with capacity for further enlargement) was soon developed, tested and approved. All 2006 waterers will have this new valve (**Illustration #3**).
- 2009** A high flow valve has been added for the H200 waterer. It is rated for 12 gal/min at 30 psi. See replacement part #H0-P4305HF. It is retro-fittable to older models.

**For a complete replacement parts list, please see Waterers-P2.**

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## TROUGHS

1. **Order trough** - Specify length
2. **Order fill system** - Standard brass float (8 GPM) or heavy duty brass float valve (21 GPM)