



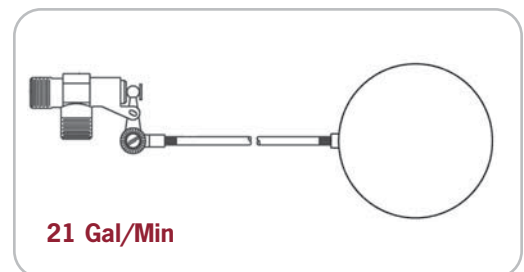
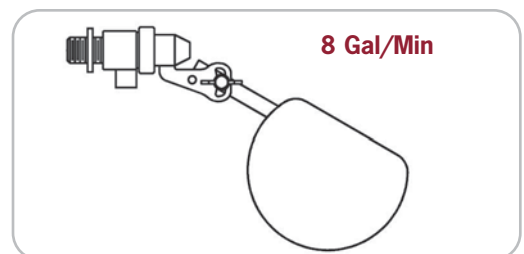
**FACT** Recent studies have shown that there is less bacterial growth on stainless steel water tanks.

## Features

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

- 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



**CANARM LTD. - Corporate Office**  
 2157 Parkedale Ave., Brockville, ON  
 Canada K6V 5V6  
 Tel: (613) 342-5424 Fax: 1-800-263-4598

**CANARM LTD. - USA Warehouse**  
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**Arthur Manufacturing Facility**  
 #7686 Concession 16, RR 4 Arthur, ON  
 Canada NOG 1A0  
 Tel: (519) 848-3910 Fax: (519) 848-3948



# HEATED LIVESTOCK WATERERS



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



2" Insulation (R15)



Float & Valve Assembly



## General Information

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.

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 LW50), 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 non-siphoning design & nylon control valve are designed for trouble free, year around operation.

### 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

### 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

### 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

### 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

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Web Site: [www.canarm.com](http://www.canarm.com)  
E-Mail: [agsales@canarm.ca](mailto:agsales@canarm.ca)

*Durable, compact electric livestock waterer designed to provide years of trouble free operation and is ideal for cows, horses, goats or sheep.*



## Features

- Polyethylene plastic housing is food grade and recyclable
- Rounded corners ensure animal safety and comfort.
- Stainless steel valve cover protects valve/float and heater.
- 250 Watt submersible heater
- Non-siphoning valve design
- Can be wall or floor mounted

Easily removable hatch allows quick access to valve assembly



Hatch molded position points—  
Grounding Mechanism

## Technical Specifications

**Dimensions:** 17"W x 17"L x 13 1/2" H

**Weight:** 26 lbs.

**Capacity:** 2.9 gallons



Wall Mount



Floor Mount



Large Drain for easy emptying



Quick access clips on hatch cover

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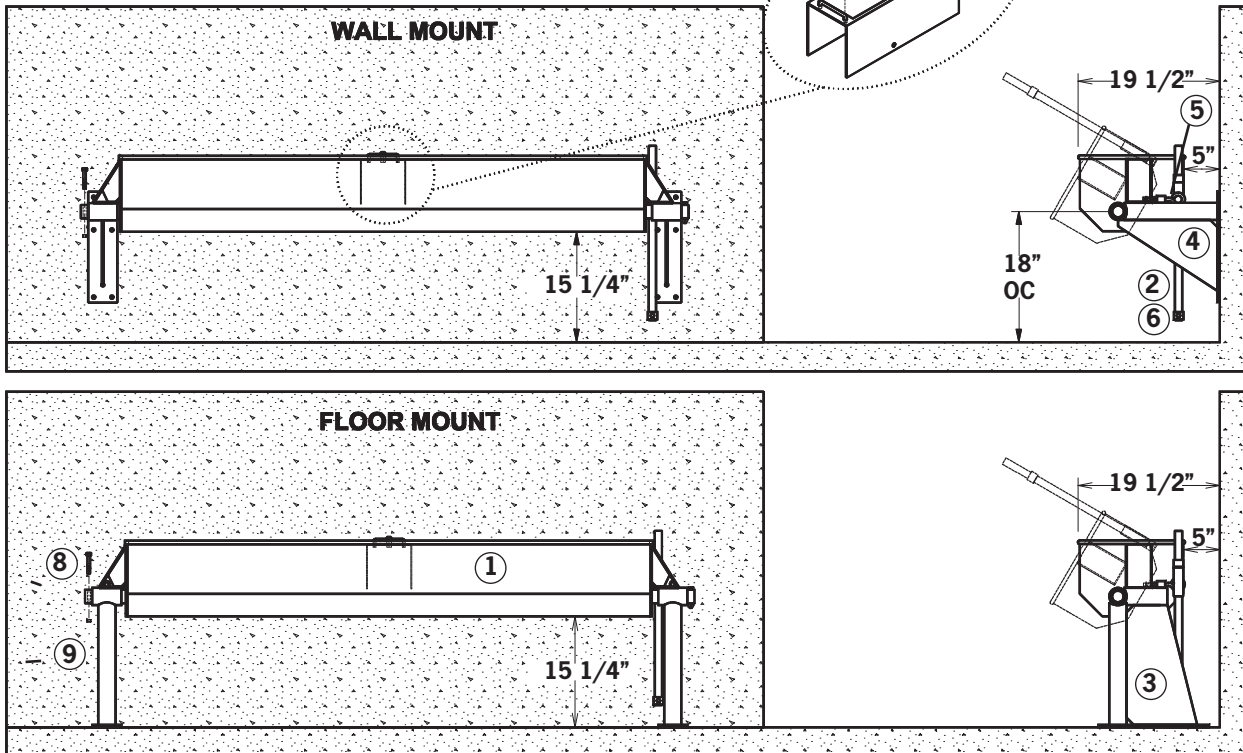
**CANARM LTD. - USA Warehouse**  
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E-Mail: [agsales@canarm.ca](mailto:agsales@canarm.ca)

## ASSEMBLY

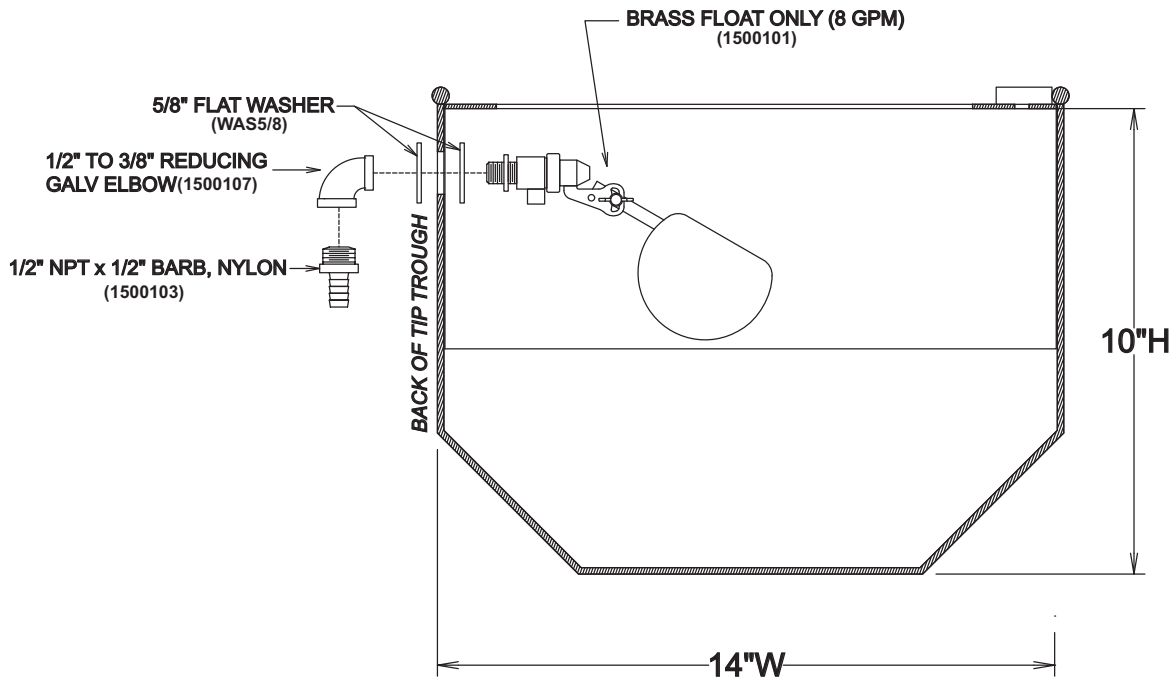
- \* CAPACITIES: 4 FT = 21 Gals at recommended 7" water depth  
 6 FT = 28 Gals at recommended 7" water depth  
 8 FT = 38 Gals at recommended 7" water depth



ILLUS.	DESCRIPTION	PART #	PACKAGE NAME
1 *	SS TIP TROUGH ONLY (10" H) 48" LG	1602048	SS TIP TROUGH
	72" LG	1602072	
	96" LG	1602096	
	GALV TIP TROUGH ONLY (10" H) 48" LG	1604048	GLV TIP TROUGH
	72" LG	1604072	
	96" LG	1604096	
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
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	<b>1602410</b>
N/S	HAIR PIN (HP4)	HP4	
5	ULTRASEAL EYEBOLT 3 3/4" LG	1240221	GLV HDW + COVER PL
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	<b>1600410</b>
N/S	HAIR PIN (HP4)	HP4	

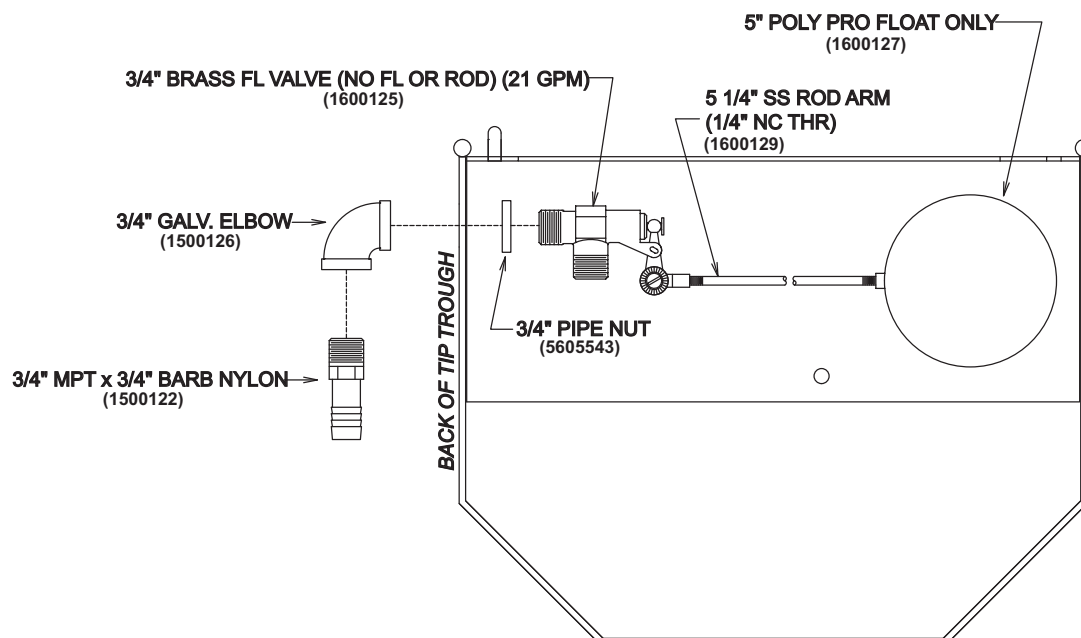
## 1500100

BRASS FLOAT VALVE (8 GALLONS / MIN) + HDW

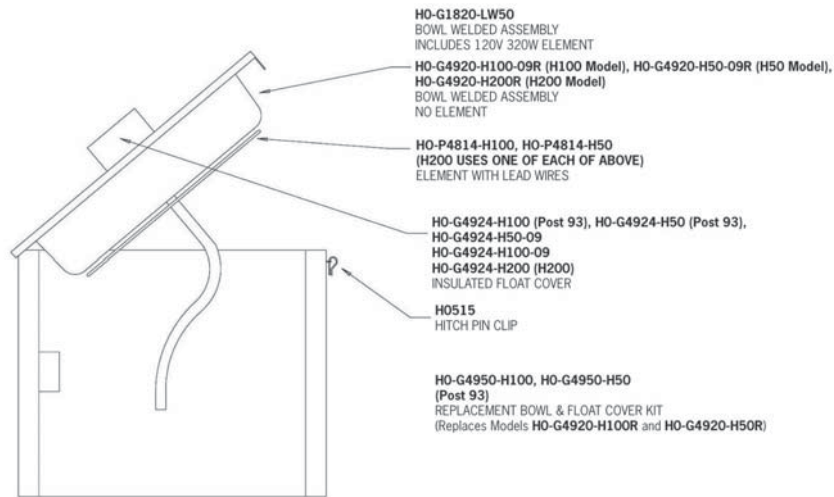


## 1500120

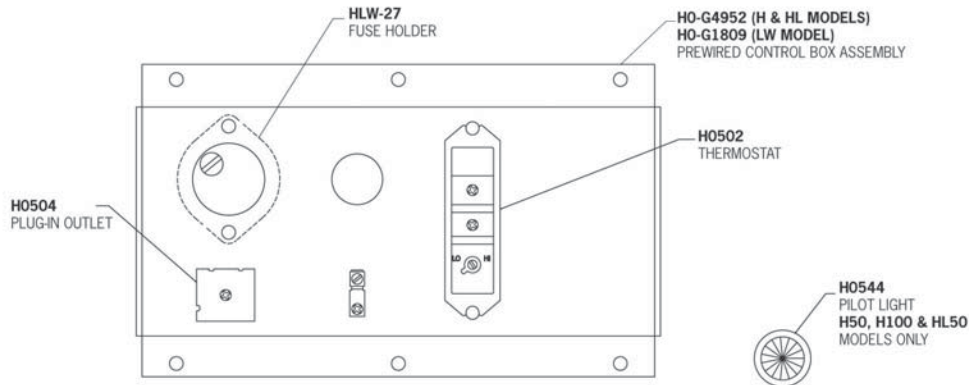
HD BRASS FLOAT VALVE (21 GALLONS/MIN) + HDW



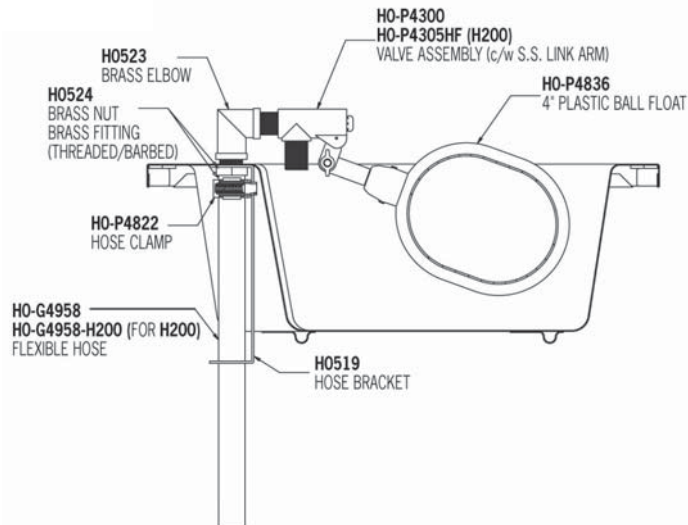
## GENERAL COMPONENTS



## 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-G4924-H100**  
FLOAT COVER - H100 (POST '93) INSULATED

**HO-G4924-H50**  
FLOAT COVER - H50 (POST '93) INSULATED

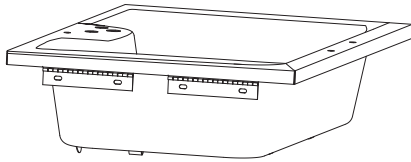
**HO-G4924-H100-09**  
FLOAT COVER - H100 (POST 2008) INSULATED

**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)

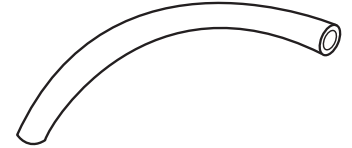
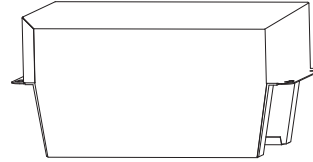
**HO-G4958-H200**  
FLEXIBLE SUPPLY HOSE  
(H200 MODELS)



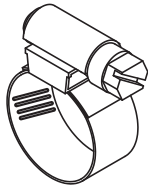
**HO-G4950-H100**  
(H100 Post 1993)

**HO-G4950-H50**  
H50 (Post 1993)

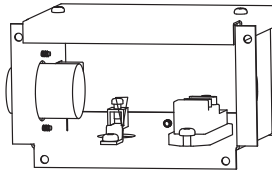
**REPLACEMENT BOWL  
& FLOAT COVER KIT**



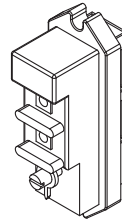
**HO-P4822**  
(#10 GEAR CLAMP, HF10)  
HOSE CLAMP



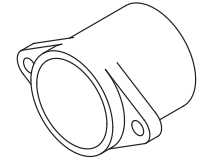
**HO-G4952**  
CONTROL BOX PRE-WIRED  
(H, HL MODELS ONLY)



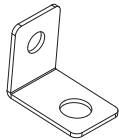
**H0502**  
THERMOSTAT



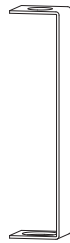
**HLW-27**  
FUSE HOLDER



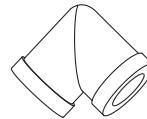
**H0514**  
HOLD DOWN BRACKET +  
HDW. (POST '93)



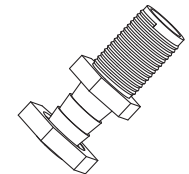
**H0519**  
HOSE BRACKET HLW-93



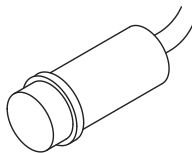
**H0523**  
H0523 BRASS ELBOW  
(HLW-94)



**H0524**  
H0524 BRASS FITTING &  
NUT



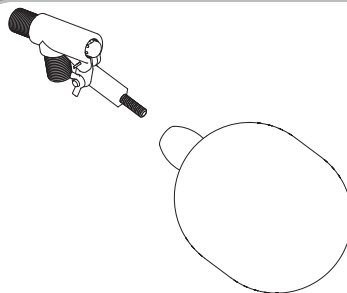
**H0544**  
ROUND PILOT LIGHT (KIT)  
(POST '92)



**HO-P4300**  
VALVE ASSEMBLY (KERICK)  
C/W LINK ARM FOR FLOAT

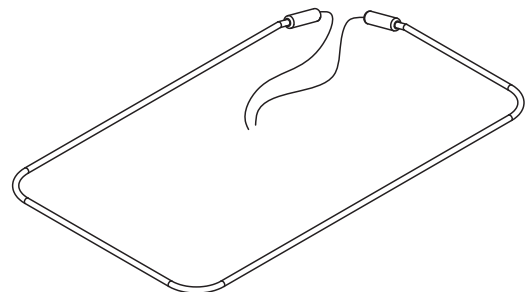
**HO-P4836**  
4" PLASTIC BALL FLOAT

**HO-P4305HF** (H200 MODEL)



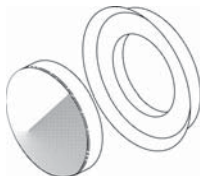
**HO-P4814-H100**  
ELEMENT (500 WATTS) - H100 (POST '93), 19" X 11"

**HO-P4814-H50**  
ELEMENT (320 WATTS) - H50 (POST '93), 16" X 7"



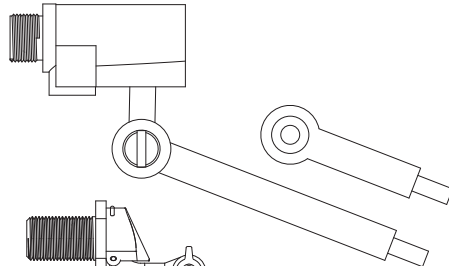
**H200 Model uses one of each of the above.**

**HO-P4301**  
VALVE CUP & TIP SEAL KIT



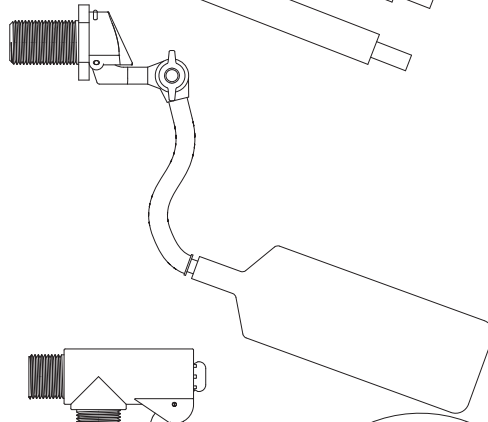
## HEATED LIVESTOCK WATERERS VALVE & FLOAT

**Illustration #1**



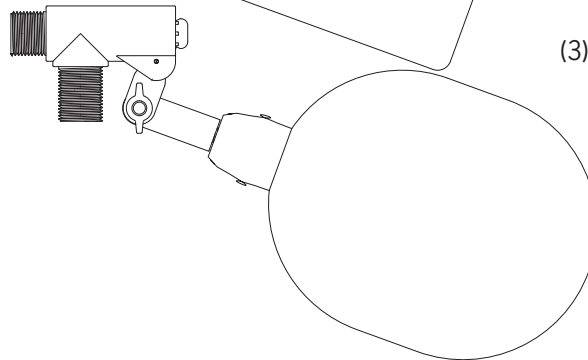
- (1) **Part#: H0511 / H0512**  
No longer available.  
Upgrade to newer valve (**Illustration #3**) is recommended.

**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.***



# ORDERING GUIDELINES



## TROUGHS

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