

# AUTOMATIC WATERING SYSTEMS

## Edstrom Flex Tube System

The superior quality and versatility of the Edstrom Flex Tube System mean it can tackle almost any small-animal automatic watering needs. Edstrom valves and accessory components make do-it-yourself installation simple and practical. For **water supply**, use an A225 Automatic Pressure Control, an A205 Commercial Regulator, or an A203 Float Valve Tank. Run a **distribution line** to your cages and mount a pipe section so the valves are slightly above standing height for the animal (8 to 9" above floor level for rabbits). Debris in the water supply - rust flakes, scale, silt, etc., is the major cause of valve leakage. For safety, an **upstream In-line Water Filter** (A206) is recommended.



A102 valve & A108 valve clip



A102

A107



A108

A201

A203



A202

A225



A204

A206



A227

A220



A712

A224



A208

A209

A210



A211

A212



A215

A216

STANDARD DRINKING VALVES AND CLIPS					
(We recommend this series for rats & rabbits. The Vari-Flo series is for mice)					
ITEM	Stock No.	Price Each			Ship. wt
		1-5	6-99	100+	
Standard Valve, 3/16" barb, brass cap	A102	\$3.18	\$3.18	\$2.96	6 lbs/100
Valve clip for A102	A108	\$0.44	\$0.44	\$0.40	1 lb/100
Standard Valve, 1/8", threaded brass cap	A107	\$3.39	\$3.39	\$3.16	6 lbs/100
WATER SUPPLY COMPONENTS					
Float for homemade tank	A201	\$9.10	\$7.98		1 1/2 lbs
Tank Connector 3/16" with strainer & shut-off	A202	\$7.60	\$6.95		2 oz
3/16" barb x 3/4" FGT cap	A227	\$1.80	\$1.64		2 oz
1 gal Float Tank, auto-fill with tubing outlet	A203	\$45.90	\$42.20		2 lbs
Pressure Regulator Station, with filter	A225	\$147.90	\$140.50		9 lbs
Pressure Regulator for PVC pipe systems	A204	\$35.40	\$29.90		2 lbs
Pressure Regulator for 3/16" and 3/8" tubing lines	A640	\$38.90	\$32.90		2 lbs
Filter, flushable, 80 micron	A206	\$43.20	\$39.40		1 1/2 lbs
Replacement screen for tank connector 142 micron	A207	\$0.86	\$0.78		2 oz
1/2" PVC Pipe Saddle (with projecting tube on the underside, thus taking water from the top of the pipe and away from sediment). Do not use with Monoflo or A107 valves.	A220	\$0.67	\$0.67	\$0.61	2 lbs/100
Tee Adaptor Coupling - 1/8" FPT (glued between 1/2" PVC pipe sections; for 1/8" threaded valves)	A224	\$0.94	\$0.94	\$0.82	6 lbs/100P
Pressure Gauge, 1-15 PSI with 1/8" MPT stem	A712	\$11.30	\$10.30		1/4 lb
REPLACEMENT PARTS FOR STANDARD VALVES					
Diaphragm, for standard valves with old-style plastic caps	A208	\$0.35	\$0.35	\$0.32	
Diaphragm, for standard valves with brass caps	A209	\$0.35	\$0.35	\$0.32	
O-Ring, for all standard valves	A210	\$0.24	\$0.24	\$0.21	
Stem, for all standard valves	A211	\$0.50	\$0.50	\$0.43	
Brass cap, barbed	A212	\$1.07	\$1.07	\$0.98	3 lbs/100
Brass cap, threaded	A215	\$1.29	\$1.29	\$1.17	3 lbs/100
Brass Nipple, with "O" ring	A216	\$2.30	\$2.30	\$2.09	3 lbs/100

## EDSTROM Adjustable Flow Valves



VARI-FLO DRINKING VALVES AND CLIPS (We recommend this series for mice and the Standard series for rabbits)					
Item	Stock No.	Price Each			Ship. wt
		1-5	6-99	100+	
Vari-Flo, 3/16" barb cap, all brass	A301	\$3.18	\$3.18	\$2.96	4 lbs/100
Valve Clip for A301 valve only	A302	\$0.44	\$0.44	\$0.40	1 lb/100
Vari-Flo, 1/8" threaded cap, all brass	A303	\$3.39	\$3.39	\$3.16	5 lbs/100
REPLACEMENT PARTS FOR VARI-FLO VALVES					
Diaphragm, for Vari-Flo Valves	A304	\$0.31	\$0.31	\$0.27	¼ oz.
Internal Pink O-Ring	A305	\$0.25	\$0.25	\$0.22	¼ oz.
External Black O-Ring	A307	\$0.25	\$0.25	\$0.22	¼ oz.
Stem, for Vari-Flo Valves	A306	\$0.50	\$0.50	\$0.43	2 oz.

## ACCESSORIES FOR EDSTROM WATERING SYSTEMS



BLACK FLEX TUBING Opaque Tubing Prevents Light From Passing Through Tube Wall, Reducing Algal and Bacterial Growth							
Item	Partial Rolls			Complete Rolls			
	Stock No.	Price / ft	Ship. Wt	Roll Length	Stock No.	Price Each	Ship. Wt.
Flex Tubing, black 3/16" inside diameter	A401	\$0.22	4 lbs/100 ft	500 ft.	A402	\$78.90	16 lbs
Flex Tubing, black 3/8" inside diameter	A501	\$0.75	2 oz./ft	100 ft	A502	\$56.90	8 lbs
3/16" CONNECTORS							
Item	Stock No.	Price Each			Ship. wt		
		1-5	6-99	100+			
Loop Clamp with Screw, for 3/16" tubing	A890	\$0.28	\$0.28	\$0.25	½ lb/100		
Tubing Standoff, for 3/16" tubing	A403	\$0.55	\$0.55	\$0.50	2 lbs/100		
Barbed Elbow, 3/16" barbs	A404	\$0.48	\$0.48	\$0.38	1 lb/100		
Barbed Tee, 3/16" barbs	A405	\$0.46	\$0.46	\$0.36	1 lb/100		
Barbed Connector, straight, 3/16" barbs	A406	\$0.38	\$0.38	\$0.28	1 lb/100		
Shut-off Valve, 3/16" barbs	A407	\$5.10	\$4.65		2 oz.		
Drain Valve, 3/16" barbs	A408	\$2.70	\$2.50		1 oz.		
Tee Adaptor, 3/16" barbs x 1/8" MPT	A412	\$0.54	\$0.54	\$0.44	1 lb/100		
Barbed Adaptor, 3/16" barb x 1/8" MPT	A410	\$0.42	\$0.42	\$0.32	½ lb/100		
Barbed Adaptor, 3/16" barb x 1/4" MPT	A411	\$0.42	\$0.42	\$0.32	½ lb/100		
3/8" CONNECTORS (special for distribution lines, etc.)							
Barbed Connector, 3/8" barb x 1/4" FPT	A503	\$0.98	\$0.98	\$0.92	2 lbs/100		
Tubing Standoff, for 3/8" tubing	A504	\$0.92	\$0.92	\$0.84	1 lb/100		
Barbed Tee, 3/8" x 3/8" x 3/16" barbs	A505	\$0.50	\$0.50	\$0.40	1 lb/100		
Barbed Elbow, 3/8"	A511	\$0.50	\$0.50	\$0.41	1 lb/100		
Barbed Tee, 3/8" x 3/8" x 3/8" barbs	A506	\$0.53	\$0.53	\$0.43	1 lb/100		
Barbed Connector, 3/8" barbs, straight	A507	\$0.42	\$0.42	\$0.32	1 lb/100		
In-line Shut-off Valve, 3/8" barb	A508	\$6.40	\$5.90		2 oz.		
Tank Connector, 3/8" with strainer & shut off	A509	\$9.70	\$8.95		2 oz.		
Drain Valve, 3/8" barb x MGHT	A510	\$4.10	\$3.70		1 oz.		
3/8" Barb x 3/4" FGT Cap	A512	\$1.80	\$1.64		2 oz.		

## AUTOMATIC WATERING SYSTEMS

### LIXIT® Model L-130 Stainless Steel Valve

Superior, spring-loaded design is drip-free. Proven successful for rabbits, Guinea pigs, chinchilla, hamsters, rats, and mice. 1/8" MPT. Ship. Wt. 3 lbs/100.



Stock No. A001.....\$3.89 ea.  
.....100 or more @ \$3.62 ea.

### Pipe Saddle

For 3/4" CPVC Pipe or 1/2" PVC Pipe. Saddle provides 1/8" FPT for insertion of valve. Ship. Wt. 2 lbs / 100. Do not use with Lixit or Edstrom valves.



Stock No. A613.....\$0.20 ea.  
.....100 or more @ \$0.16 ea.

### PIPE SADDLE

White saddle fits over 3/4" CPVC Pipe or 1/2" PVC Pipe, with 1/8" FPT. Do **not** use with Monoflo or A107 valves. Shipping wt. 2 lbs / 100.



Stock No. A220 .....\$0.67 ea.  
.....100 or more @ \$0.61 ea.

### TEE ADAPTOR COUPLING 1/8" FPT

For 1/8" Threaded Valves. Glue between 1/2" PVC pipe sections. Ship. wt. 6 lbs / 100.



Stock No. A224.....\$0.94 ea.  
.....100 or more @ \$0.82 ea.

### CHEMILIZER MEDICATOR

**Pumps Are Not All The Same.** The Chemilizer pump motor has a diaphragm. This prevents wearing of the piston and the cylinder walls, which causes inaccuracies in metering, a major problem in low-flow systems. Minimum water flow required is 24 gal/day. 2-year factory warranty. Ship. Wt. 6 lbs.



Stock No. A888.....\$255.20 ea.

### Designing An Automatic Watering System?

Please feel free to call us regarding your watering needs and plans. We'd be glad to help you design a reliable system that fits your needs.

### DEW DROP VALVES

This drip-proof valve does not depend on water pressure for stem seating. It is spring-loaded and will not drip at zero water pressure. Now with a stainless steel stem for longer life. Each component is machined to strict tolerances for trouble-free operation. Neoprene O-ring seal assures positive drip control. Standard 1/8" MPT body thread for installation directly into galvanized pipe or use with our PVC pipe saddles or couplings with 1/2" PVC pipe. Ship. Wt. 3 lbs / 100



Stock No. AD20.....\$3.10 ea..... 100+ @ \$2.80 ea.

### Lixit® Model L-70 Automatic Dog Waterers

- The only center flow nipple
- Ideal for dogs & other animals
- Animals learn to use without training
- Finest stainless steel construction. Quality 1/2" threads screw into 1/2" tees
- Operates at 1 to 100 PSI water pressure
- Unaffected by solid freeze up
- Protected by domed filter screen



#### Complete Unit Ship. wt. 1/4 lb. ea.

Stock No AL01.....\$7.20 ea.  
.....40 or more @ \$6.73 ea.  
.....100 or more @ \$6.53 ea.

#### Repair Kit for AL01 Dog Waterer

Includes screw, seal, screen, boot and spring.  
Stock No. AL02...\$2.40 ea.  
.....50+ @ \$2.10 ea.

### Automatic Watering Systems Literature

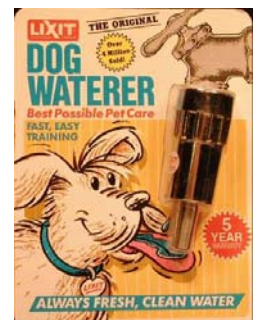
A discussion of various application of automatic watering systems, along with an analysis of the pros and cons of each type of water valve.

Stock No. A715.....\$0.80 ea.

### Lixit® Faucet Dog Waterer

Screws directly onto outside water faucets. Saves time and provides fresh, sanitary drinking water. Shipping wt. 1/4 lb.

Stock No. AL03.....\$5.20 ea.  
.....50 or more @ \$4.87 ea.



### Monoflo® Stainless Water Valves

- Chew-proof stainless construction
- Ideal for rabbits and poultry

The weight of the upper stainless valve seat is engineered to rest firmly on the top of the valve body, thus cutting off the water flow. This design eliminates the need for a spring or diaphragm to regulate water flow.



A600

Valve installation must be vertical! (Perpendicular to the cage floor). For mammals that chew, install 1 of 2 ways:

- 1) Place 1/2" PVC between back-to-back cages. Cut a 3"W X 6"H hole for valve access. Use a separate valve for the back side cage.
- 2) Place 1/2" PVC pipe on the top, 1" in from the front or back. Cage height must be 16" for commercial breeds of rabbits. This design is not recommended for small to mid-sized breeds. Install the 4-3/4" vertical extension drop (#A612).

Do not install PVC pipe inside the cage. You will have chewing damage to the pipe.

Individual Monoflo valves:

Stock No. A600 .....\$1.32 ea.....100+ @ \$1.09 ea.

Sealed case of 200 Monoflo valves (Ship. Wt. 9 lbs).

Stock No. A651 .....\$208.00 ea.

4 3/4" Vertical Extension Drops, with 1/8" MPT on the top, and 1/8" FPT on the bottom. Ship wt. 4 lbs / 100.

Stock No. A612 ..... \$0.59 ea .....100+ @ \$0.54 ea.

### Galvanized Pipe Clamps

Holds PVC pipe away from cage wire.

Clamp for 1/2" O.D. pipe (1/2" CPVC)

Stock No. A819.....\$0.27 ea.  
.....100+ @ \$0.25 ea.



A820

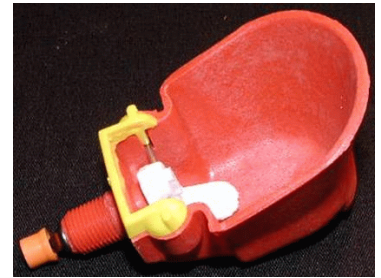
Clamp for 3/4" O.D. pipe (1/2" PVC)

Stock No. A820.....\$0.27 ea.  
.....100+ @ \$0.25 ea.

### Trigger Cup Waterer

Equivalent to the old Hart® Cup

Used in commercial chicken houses throughout the world. The Trigger Cup has 1/8" MPT connection, and is made of rugged plastic. 3 PSI recommended pressure. **Do not use** with the pipe saddles. Ship. wt. 5 lbs / 100.



Stock No. A113.....\$2.70 ea.....100+ @ \$2.51 ea.

Replacement Seals for above:

Stock No. A115 .....\$0.30 ea .....1000+ @ \$0.25 ea.

Replacement Black Stems for above:

Stock No. A116 .....\$0.23 ea .....1000+ @ \$0.19 ea.

### Maxiflo® Pressure Regulator

A high-quality regulator used in large commercial operations. The inlet has 1/2" MPT and the outlet has 3/4" MPT. Ship. Wt. 2 lbs.

Stock No. A709 .....\$73.90 ea.  
.....6 or more @ \$68.10 ea.



### Water Pressure Gauge

1/8" MPT

Stock No. A712.....\$11.30ea.  
.....6+ @ \$10.30 ea.



### Tank Connector

Fits 1/2" PVC pipe

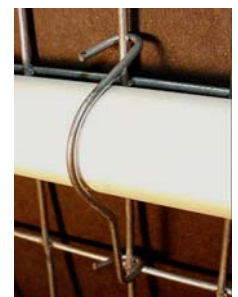
Stock No. A003 ..... \$11.80 ea.  
.....6+ @ \$10.90 ea.



### Wire Kwik Clip

For 3/4" O.D. pipe.

Stock No. A813.....\$6.90 / box of 100  
.....6+ boxes @ \$6.50 / box of 100



# HEAT CABLES AND CONTROLS

## High Wattage Cables



These cables are for use in preventing water line freeze-ups in areas with extended periods of low temperatures. Each combination of lengths and wattage below provides 5 watts / ft of cable, which is adequate to protect water lines down to 10 °F. For protection to zero Fahrenheit, install two cables into the line. All models listed are 120 V cables. **CAUTION:**

Heat cables must not be shortened or spliced. Heat cables cannot be used with 3/16" or 3/8" plastic flexible tubing.

Length	Watts	Amps	Stock No.	Price Each		Ship. wt. (lbs)
				1-5	6+	
34 ft	165	1.4	A034	\$41.20	\$37.60	2
54 ft	270	2.3	A054	\$49.20	\$44.80	2
80 ft	400	3.4	A080	\$63.60	\$57.90	3
105 ft	530	4.5	A105	\$74.10	\$69.70	3
136 ft	680	5.7	A136	\$80.70	\$75.90	3
160 ft	800	6.7	A160	\$97.60	\$91.80	3
200 ft	1000	8.3	A200	\$105.70	\$102.80	3
240 ft	1200	10.0	A240	\$117.80	\$114.50	4
270 ft	1350	11.3	A270	\$126.70	\$123.10	5

## Heat Cable Thermostat

Air controlled. Turns on at 35 °F. Has an 1800 Watt capacity. Two plug receptacles.

Stock No. AT02.....\$19.30 ea.



## Compression Fittings

Used to bypass shutoff valves and to enter and exit your pipe, with your heat cables. Threads are 1/8" MPT.

Stock No. A141.....\$1.35 ea.



## Bucket Heater

- Cast Aluminum Construction
- 250 Watts
- Thermostatically Controlled
- 6-ft. Supply Cord
- Ideal for Bird Baths Too!

Stock No. A002.....\$40.50 ea.



## Freeze-X® Recirculating System

Unique design allows float-controlled reservoir to serve as standard breaker tank regulator for your automatic water system. In cold weather, the recirculating pump keeps heated water moving through the lines to prevent freeze-ups down to 13 °F. One pump/tank unit is capable of servicing approximately 200 ft of 1/2" line. The 1/2" MPT inlet and 1/2" FPT outlet are adaptable to most any connection needed. Includes submersible heater with built-in automatic shut-off if water runs out. Shipping wt. 15 lbs.

**NOT FOR USE WITH ANY FLEXIBLE TUBE SYSTEM OR MONOFLO WATER VALVES!**

**For pump only, see Pg. 36**

Stock No. A004.....\$206.90 ea.



## Skinning Hooks

Plated steel hooks properly shaped to hold rabbit in the correct position for dressing. Made of heavy steel rod with eye for attaching to wall. Shipping wt 4 oz / pr.



Stock No. L202.....\$4.45 / pr.

.....6 + pair @ \$4.15 / pr.

## Pressure Circulating Water Pump

The recirculating pump keeps heated water moving through 1/2" PVC pipe, preventing water freeze-ups down to 15 °F. One pump is capable of servicing up to 200 feet of piping. (Tank heater not included). Shipping wt. 5 lbs.



Stock No. A234.....\$94.80 ea.