

**APEX® Series**

# **Rural Water Supply Solutions**

Agricultural, Irrigation, & Rainwater Harvesting Applications



**APEX® Series** water reservoir, and trough valves are designed for use in the agricultural, irrigation, and rainwater harvesting industries. .

These farm-tough valves are designed to maximize flow and fill rates and control water levels within a tank or trough. APEX valves are fully serviceable, easy to operate and install, and are composed of durable high-grade and UV stabilized materials made to outlast and outperform.

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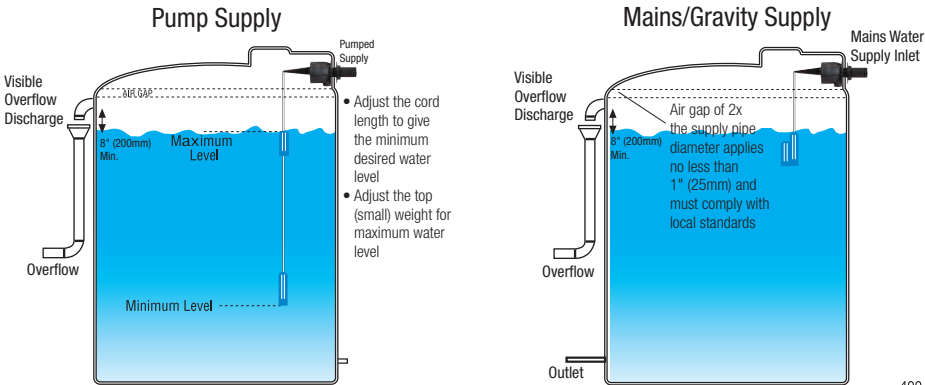
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## BA Series BigAI® Differential Tank/Reservoir Valve

Designed as a variable level, diaphragm activated, and full flow valve, the BigAI® is used in large pump-fed water tanks or reservoirs, main or storage tanks, or as a control valve backup in rainwater harvesting.



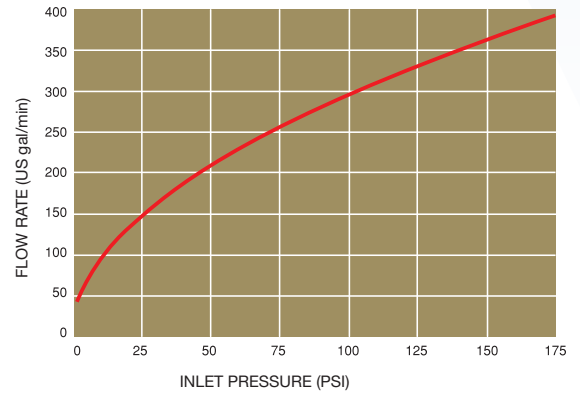
### BigAI Series

Ordering Code	Description	Size (in)
88000112	BA114	1 1/4"
88000111	BA112	1 1/2"
88003198	BA2	2"

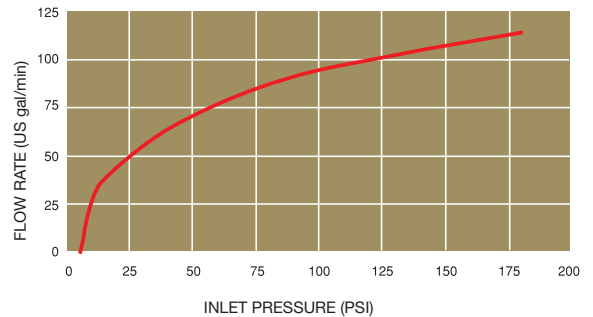
### Features for BigAI and PumpBuddy®

- Full flow, high performance - average output 225gpm @ 60psi. Max 400gpm @ 175psi
- Durable – fiberglass reinforced nylon and acetal
- Diaphragm activated – full on/off and soft closing, no water hammer
- Single or variable adjustable level weighted floats maintain water level in tank
- Long tail
- Saves electricity & increases pump life
- UV stabilized
- Patented self cleaning mechanism
- Serviceable – kit available

APEX BigAI Valve Flow Rate

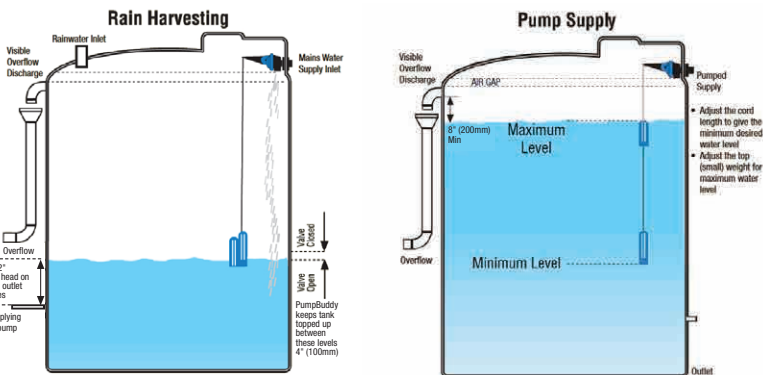


APEX PumpBuddy Valve



### PumpBuddy Series

Ordering Code	Description	Size (in)
88000472	PB34	3/4"
88000473	PB34LT	3/4" Long Tail
88000469	PB1	1"
88000471	PB1LT	1" Long Tail
88000470	PB114	1 1/4"



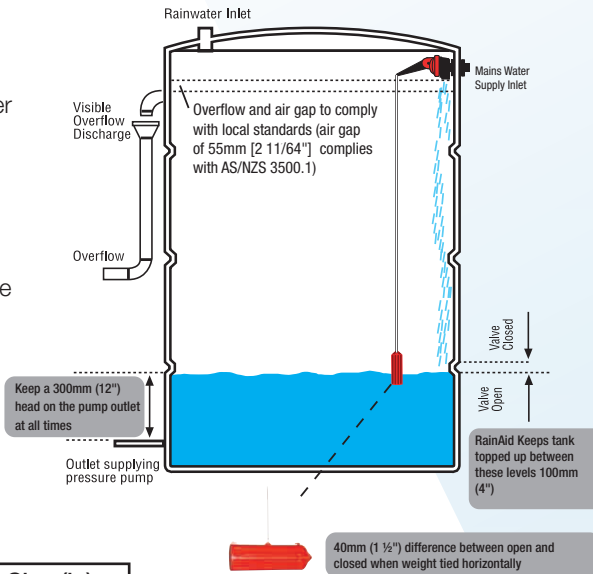
## PB Series PumpBuddy® Differential Tank Valve

Designed as a diaphragm activated, variable level, full flow valve, the PumpBuddy is used in pump-fed water tanks or reservoirs, main or storage tanks, or as a control valve backup in rainwater harvesting.

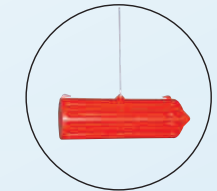
## RA Series RainAid® Rainwater Retention Tank Valve

RainAid Valve is designed to connect to the main water supply on a rainwater collection tank to provide a backup supply of water in the event that demand exceeds rain supply.

- Adjustable water levels save electricity and increase pump life
- Full flow diaphragm activated valve
- Long tail (no tank fitting required)
- Fully serviceable (kit available)



**WaterMark**  
AS 1910  
Lic. 20368



40mm (1 1/2") difference between open and closed when weight tied horizontally

### RA Series

Ordering Code	Description	Size (in)
88000570	RA34	3/4"

## Reservoir Valve Water Tank & Reservoir Valve

This large acetyl sleeve, high-volume flow valve is used for controlling water flow into reservoirs and large header tanks.

- Full flow operation
- Large UV-stabilized acetyl construction sleeve body
- Dezincification resistant brass lever
- No metal valve seat corrosion
- Float arm is fully adjustable
- Fully serviceable



### Reservoir Valve

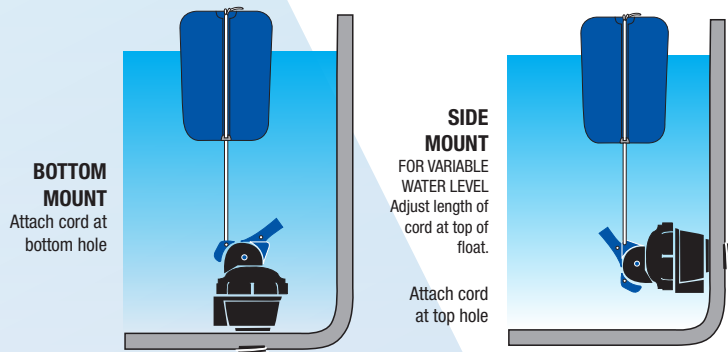
Ordering Code	Description	Size (in)
88000576	RES114	1 1/4"
88005649	RES112	1 1/2"
88000582	RES2	2"



## XF Series XtraFlo® Armless Diaphragm Trough Valve

The XtraFlo compact armless diaphragm valve with full-flow and fast fill performance is designed for use with medium and large troughs with high demand. This armless valve reduces damage from livestock, is easily serviced, and includes three options for mounting. Made from UV stabilized fiberglass reinforced nylon, the XtraFlo is durable and built to last.

- Compact diaphragm valve – full on/off
- Full-fill, fast fill – average output of 80gpm @ 60psi
- Armless valve – less susceptible to damage
- Bottom, side or top mount
- Long and short tail options
- UV stabilized and corrosion resistant
- 1" water level differential open/close – reduces pump overload
- Patented self cleaning mechanism
- Serviceable – kit available

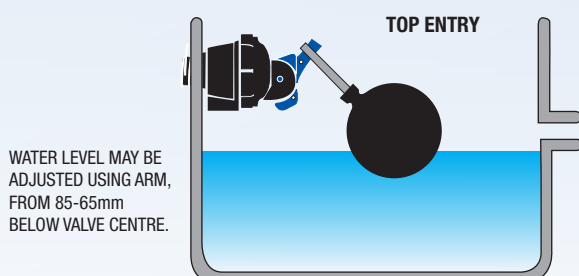


## XtraFlo® Top Entry

The XtraFlo Top Entry is designed for compact top entry installation. It includes the same features, operation, and flow as the armless XtraFlo valve.

### XF Series Top Entry

Ordering Code	Description	Size (in)
88000777	XF34LTTE	3/4"
88005626	XF1LTTE	1"
88005627	XFTE34	3/4"
88005628	XFTE1	1"
88005629	XFTE114	1 1/4"

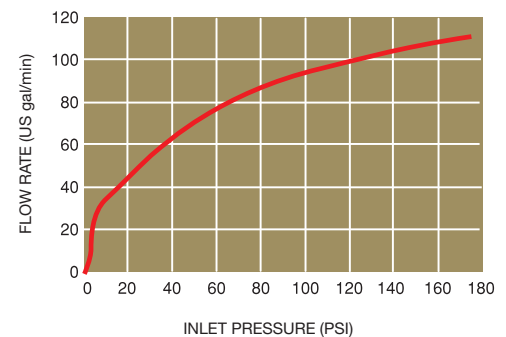


### XF Series

Ordering Code	Description	Size (in)
88003090	XF134	3/4" & 1"
88000772	XF114	1 1/4"
88000776	XF34LT	3/4" Long Tail
88003207	XF1LT	1" Long Tail



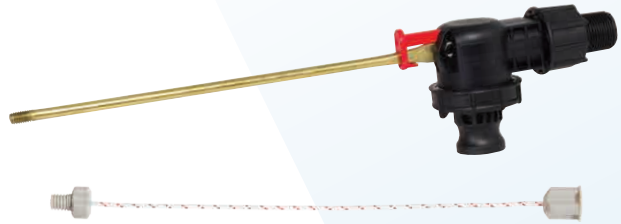
APEX XtraFlo Flow Rate



## XS Series Xcess™ Fast-fill Trough Valve

Xcess valve is designed for the fast filling of large troughs. Xcess functions without tools and can be easily serviced while in place, making it an easy-to-maintain and reliable solution. Its unique camlock compatible adapter allows for convenient water supply connection for other jobs on the farm.

- Plunger style valve
- High flow fast fill valve – average 80gpm @ 70psi
- Camlock compatible adapter
- Easily serviced – while in line and no tools
- Long and short tail versions
- Shut off pin
- UV Stabilized and corrosion resistant
- Working pressure 0-175psi



### XS Series

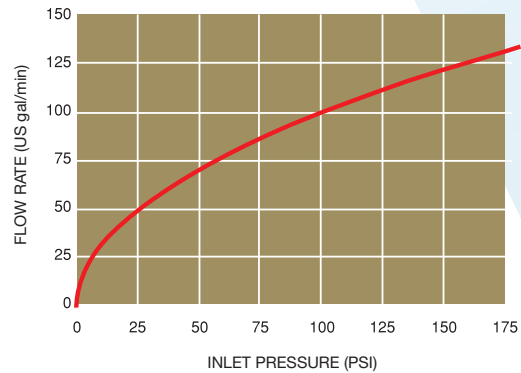
Ordering Code	Description	Size (in)
88000810	XS134	1" x 3/4"
88003089	XS134LT	1" x 3/4" Long Tail



No tools required to service

Service without removing arm

### Xcess Trough Valve Flow Rate



## UF Series UltraFlo™ Sleeve Trough Valve

It can be serviced in place and does not require the use of tools.

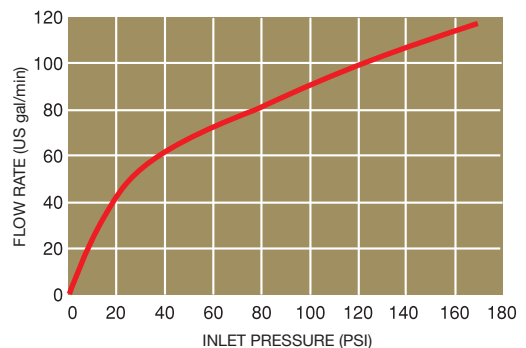
- Ultra high flow rate 97gpm @ 175psi
- Made from UV stabilized and non-corrosive materials
- Easily serviced – plunger removable without disconnecting valve or arm

### UF Series

Ordering Code	Description	Size (in)
88005634	AP341	3/4" x 1"



### UltraFlow Valve Flow Rate



## AP Series Acetyl Full Flow Sleeve Valve

The full flow acetyl sleeve valve is designed for filling medium-sized troughs. It provides medium to high demand flow rates of 82 gal/min. This acetyl full flow valve is a cost-effective alternative to a full flow brass valve.

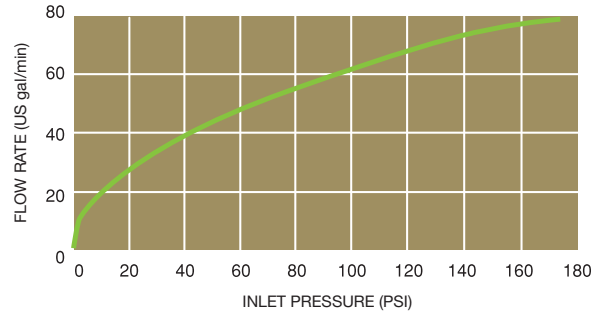
- Full flow design
- Fully serviceable
- Working pressure 0-175psi – ideal for gravity fed systems
- Average flow rate 50gpm @ 60psi
- Long tail options
- UV stabilized and non-corrosive

### AP Series

Ordering Code	Description	Size (in)
88000068	AP3/4-1	3/4" x 1"
88005636	AP1/2	1/2"
88003087	APCLT 3/4	3/4"
88003145	APCLT1	1"



AP Acetyl Valve Flow Rate



## SS Series SpaceSaver

The SpaceSaver compact acetyl valve is designed for small, individual troughs and drinkers. It is composed of non-corrosive materials, making it an ideal solution for hydroponic applications.

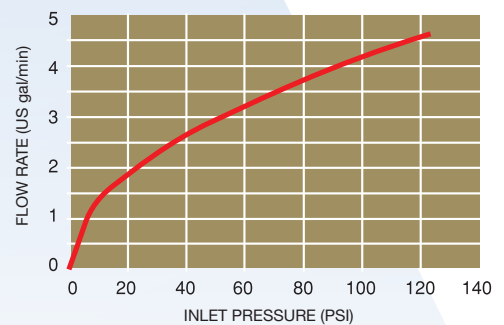
- Non-corrosive materials – ideal for hydroponic applications
- Float can be rotated to fit in small spaces
- Plunger activated
- Provided with long tail and back nut – no tank fitting required.
- Working pressure 0-120psi

### SS Series

Ordering Code	Description	Size (in)
88005643	SS12 US	1/2"
88003091	SS34 US	3/4"



SpaceSaver Valve Flow Rate



## 220P Series Medium Trough Valve

The 220P acetyl plunger activated valve is designed for use with medium-sized troughs. It is an ideal solution for troughs with confined inlet compartments for connection to a hose or silencer tube.

- Working pressure 0 - 200psi
- Removable seat for lower pressures (tool included)
- Barbed outlet for cistern application
- Long tail – no tank fitting required



### 220P Series

Ordering Code	Description	Size (in)
88005640	220P12	1/2"
88005641	220P34	3/4"
88005642	220P1	1"

## 72 Series Brass Full Flow Trough Valve

Brass sleeve valve for fast filling medium troughs.

- Full flow design
- Robust brass body
- Fully serviceable



### 72 Series

Ordering Code	Description	Size (in)
88005639	72 3/4-1	3/4"&1"

## VSB Series Visi-Ball® Water Level Indicator

The Visi-Ball is a highly visible water level indicator suitable for all tanks and reservoirs. Utilizing an innovative uni-ball joint, the Visi-Ball indicator suits any tank installation regardless of roof pitch.

- Manufactured with high quality UV stabilized material and stainless steel
- Designed to withstand hard weather conditions
- Easily adjusted using patented Uni-Ball joint
- Suitable for all tanks and reservoirs
- Innovative Uni-Ball design suits all roof angles on all tank types
- Visible from long distance



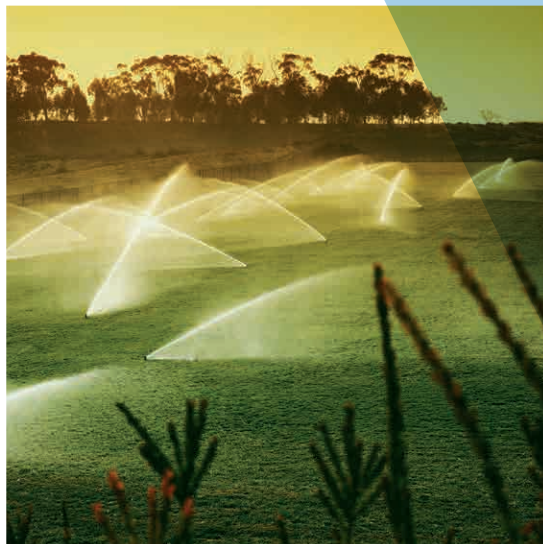
### VSB Series

Ordering Code	Description	Size (in)
88000754	VSB	Visi-Ball
88000556	VSB-EXT	Visi-ball extension Tube





**Flippen Float Valves** Our float valves and related components are manufactured to deliver the highest levels of integrity, reliability, and price performance. Our heavy-duty service valves will provide you with float valve solutions that you can rely on for your particular needs.



# Heavy Duty Float Valves

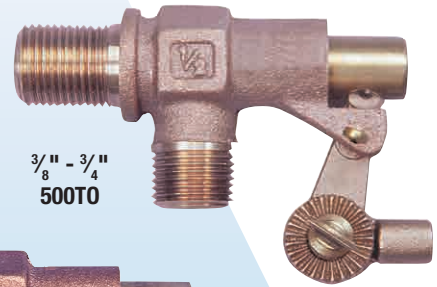
## Series 375, 500, 750, 1000, 1250, 1500 and 2000

### (Heavy Duty Mechanical Float Valves with Threaded or Non-Threaded Outlets)

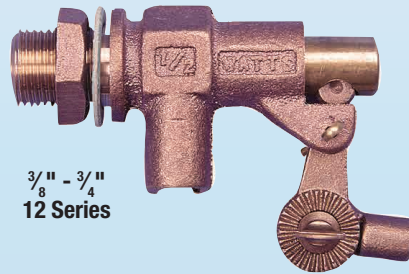
Heavy Duty Mechanical Float Valves are used in commercial, industrial, and agricultural applications for controlling high capacity water flow, and can be mounted on tank walls. The valves are constructed of a bronze body with a 1" to 2" (25 to 50mm) female NPT pipe threaded inlet connection and male straight-pipe threaded for locknut on the outlet side. It has serrated arms for easy adjustment of water level, bronze long and short arms, replaceable seals, and no-jam single lever action. This series is ideal for use in air conditioning, refrigeration, and irrigation systems.

Maximum Pressure: 165psi (11.4 bar).

For technical specifications refer to ES-HDV on watts.com.



$\frac{3}{8}$ " -  $\frac{3}{4}$ "  
500T0



$\frac{3}{8}$ " -  $\frac{3}{4}$ "  
12 Series

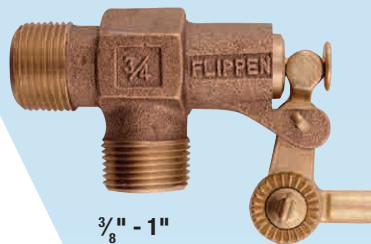


1" - 2"  
1000

# Standard Duty Float Valve

## Standard Duty

Brass valves with threads on both ends.  
(For other sizes consult factory.)



$\frac{3}{8}$ " - 1"  
Threaded Outlet  
ST500



$1\frac{1}{4}$ " - 2"  
Non-Threaded Outlet  
ST1000

# Heavy Duty Floats

## CX Series Copper Heavy Duty Floats

Composed of high grade copper construction and feature firmly bonded overlapping joints.

## PX Series Plastic Heavy Duty Floats

These non-electrolytic and highly corrosion resistant floats are ideal for use with salts and caustic fluids. Composed of injection-molded polyethylene, they are resistant to sunlight and deterioration.



CX



PX

# Heavy Duty Stems and Adaptors

## Stems

### Brass with Threads on Both Ends

Heavy Duty Stems are available in 10" to 12" (250 to 300mm) lengths with threads on both ends. These stems are composed of heavy duty brass.



## Nuzzle Assembly

### For Exposed Cattle Watering Systems

Nuzzle Assemblies are designed for use on exposed cattle water systems. Cattle can nuzzle the ball without harming or activating the valve. Assembly consists of thumb screws, hooks, swivel joint, and threaded stem at one end. Assembly is manufactured out of brass.



## Thread Adaptors For Floats



# Automatic Livestock Watering Kits

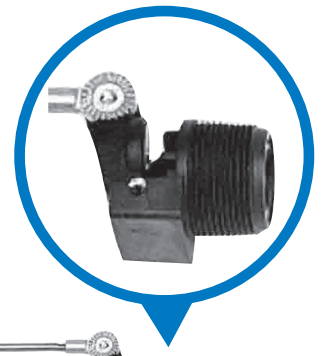
## Model RL600 1 1/4" MNPT

Threaded with 1/2" FNPT threaded inlet. Consists of RL600V, RL600SC and P6 float. For use on RUBBERMAID® brand livestock tanks. Model RL600 plus universal tank adaptor (Model UA600) for use in all livestock tanks.

- High capacity
- Easy installation
- Animal proof
- Resists freezing
- Durable



Model RL600 Automatic Livestock Watering Kit



AP-112 Garden Hose Adaptor



UA600 Universal Tank Adaptor



RL600V Nozzle and Arm Assembly



RL600A Arm and Seat



RL600-SC Stem and Chain Assembly

## Watts Family of Brands

Watts designs, manufactures, and sells an extensive line of flow control, water safety, water filtration & treatment, drainage, and PEX plumbing products.

The Watts family of companies provides a single source for solutions used to safely convey, conserve, and manage water.

Making Watts your single source for plumbing-related solutions will streamline your operations, save you money, and reduce the variety of repair parts needed for maintenance.



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