

Keraflo
OUR WORLD IS WATER

Specification Catalogue



Tank
Management



Mechanical
Valves

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Keraflo was founded in Aylesbury, Buckinghamshire in 1983. The town gave Keraflo's unique design of float valve its name; with the 'Aylesbury' range launched in 1987, a design that pioneered the use of ceramic discs in valves for cold water storage tanks.

Keraflo is part of Davidson Holdings – Davidson Holdings Ltd owns and manages brand-leading companies in the lightside building products sector. Our products are widely used by building services engineers, plumbers, contractors and specifiers, and are readily available through trade outlets.

“The Keraflo valve has been and is a ground-breaking high quality product which never fails to deliver.”

Norman Ross, Sales Director, Balmoral Tanks Ltd

“Having dealt with Keraflo for over 16 years, we (Fraser & Ellis) are proud to be associated with and to offer a guaranteed quality product.”

Paul Fraser, Managing Director, Fraser & Ellis Ltd

“We have been dealing with Keraflo since 2006 and have found both their products and customer service second to none.”

Stuart Clark, Quality Manager, Nicholson Plastics Ltd

Our Products



Tank Management

The leading solution to monitoring and controlling cold water storage tanks, Tanktronic is an electronic tank management system that provides efficient monitoring of water levels and temperature. The technology can also manage and control tank filling. Our Keraflo Tanktronic tank management system stands out from the competition due to its advanced features.



Mechanical Valves

Keraflo have been manufacturing top quality, delayed action float valves in the UK for over 30 years. The Aylesbury™ range is synonymous with float valve excellence, with tens of thousands of products in continuous use in demanding domestic, commercial and industrial applications throughout the UK and around the world.

Specification Support

Keraflo's National Sales Team provide the very highest levels of technical advice and specification support at local level, including guidance regarding Water Regulations compliance.

Keraflo's 'UK Water Supply - A Guide to Regulations' publication highlights the design implications of this legislation with regard to float valves. This highly informative document explains air gap types, fluid categories of risk and explains in detail the system design implications of the most common air gap types. A copy of this guide is available on request or may be downloaded at www.keraflo.co.uk.

Water Regulations

On the 1st July 1999 the Water Supply (Water Fittings) Regulations 1999 were introduced. The following is designed to give an overview of the changes made from the “Water Supply Byelaws Guide” to the Water Supply Regulations 1999 (“Water Regulations”).

An important consideration of the Regulations is backflow prevention. Although not made retrospective it appears, according to some lawyers, that statutory instrument No. 1148 does have this effect and this being the case, they need to be implemented now rather than later.

As far as water storage tanks are concerned, the current Regulations do not impose any technical changes to the manufacture, construction or installation from the old Water Byelaws (now withdrawn). In essence, any water storage tank remains precisely the same and is still covered by the appropriate British Standards as detailed below:

British Standards:

One Piece Tanks	BS 7491:Part 2: 1992
Sectional Tanks	BS 7491:Part 3: 1994
Backflow Prevention	BS 6281 & BS 6282: 1992
Installation & Commissioning	BS 6700: 1997

There is, however, a change to the way “Specifications” are drawn-up as tanks to ‘Byelaw 30’ are no longer appropriate. From 1st July 1999, all tanks had to comply with Schedule 2, Schedule 7, Paragraph 16 of the Water Regulations or where necessary Section 30. In practice, conformity to the appropriate British Standard (as listed above) is a requirement.

Under the old Water Byelaws, air gap requirements were relatively simple. The Regulations that have replaced them have introduced an increase in the number and type of air gaps. In addition, various new mechanical devices have been introduced, although some of these will be expensive and also introduce a maintenance requirement. All overflows, warning pipes and other fittings and fixtures within a tank remain the same as the Byelaws although

a much greater emphasis is placed on the type of materials that may be used, with particular regard to the effect on water quality when using a mix of different types of metals when immersed i.e. connections, tie rods and other fixtures & fittings.

Inlets to all cisterns should be provided with a servicing valve to facilitate maintenance, and a float valve or some other no less effective device that is capable of controlling the flow of water into the cistern. A solenoid valve responding to a level switch will be acceptable as a no less effective device to a float operated valve. In the past, some systems discharged water via an open ended pipe when the supply and water level within the tank was controlled electrically. This was generally associated with boosted water systems.

Tanktronic Electronic Tank Management System

Tanktronic® is an advanced electronic tank management system that monitors water levels and temperature. It can also manage and control tank filling. This user-friendly system, which is quick to install, offers a complete cost-effective solution to water monitoring.

Features and Benefits

- Monitors and controls water level and temperature.
- Supports single and multiple tanks.
- Input and output device connectivity.
- Quick-start feature with intuitive interface.
- Alarms, fail-safe and holiday schedule functionality.
- Alarms can be sent to Building Management Systems (BMS).
- Holiday Schedule feature enables users to vary tank capacity to match changing levels of demand at different time periods.
- Each tank can be set with its own operating levels to follow up to 10 x schedules; close level, fill delay, alarm level high and low, temperature high and low.
- A two-stage alert feature for high / low water levels and temperature: a second stage 'override' can take evasive action if first stage 'alert' is not responded to.
- Switchable mode setting between 'Normal', 'Holiday' schedules and 'Auto' operation.
- Set-up wizard allows standard set-ups to be configured quickly and easily.
- Simple menu navigation with key status information (fault and alarm log data) displayed.
- Tanktronic systems come with a one year warranty which can be extended to three years at no cost.



Control Unit

Tanktronic Control Unit is available in 4 specification models (supplied with single or twin sensors, fitted with 3m or 5m cable lengths). A single Control Unit can manage up to 4 x individual tank sensors, 8 x Tanktronic Servo Ceramic Valves and 2 x Tanktronic Control Valves, plus additional third party devices.

Power:

The unit operates on a 230V/50Hz single phase supply from a switched fused 3A supply. Tanktronic only requires a single power connection to the Control Unit, while the additional modules do not require a separate supply. The optional Battery Module can provide back-up power if required.

Control:

Tanktronic can control up to 4 x separate tanks. This can be up to 4 x single tanks, 2 x pair of balanced tanks, or 1 x pair of balanced tanks + 1 x single tank. Adding the S-Module will allow additional Control Valves and third party devices to be added.

Outputs:

The Control Unit features 4 x volt-free contact output ports. Two are dedicated to Control Valve operation, while two outputs can be used for a variety of third party devices, including:

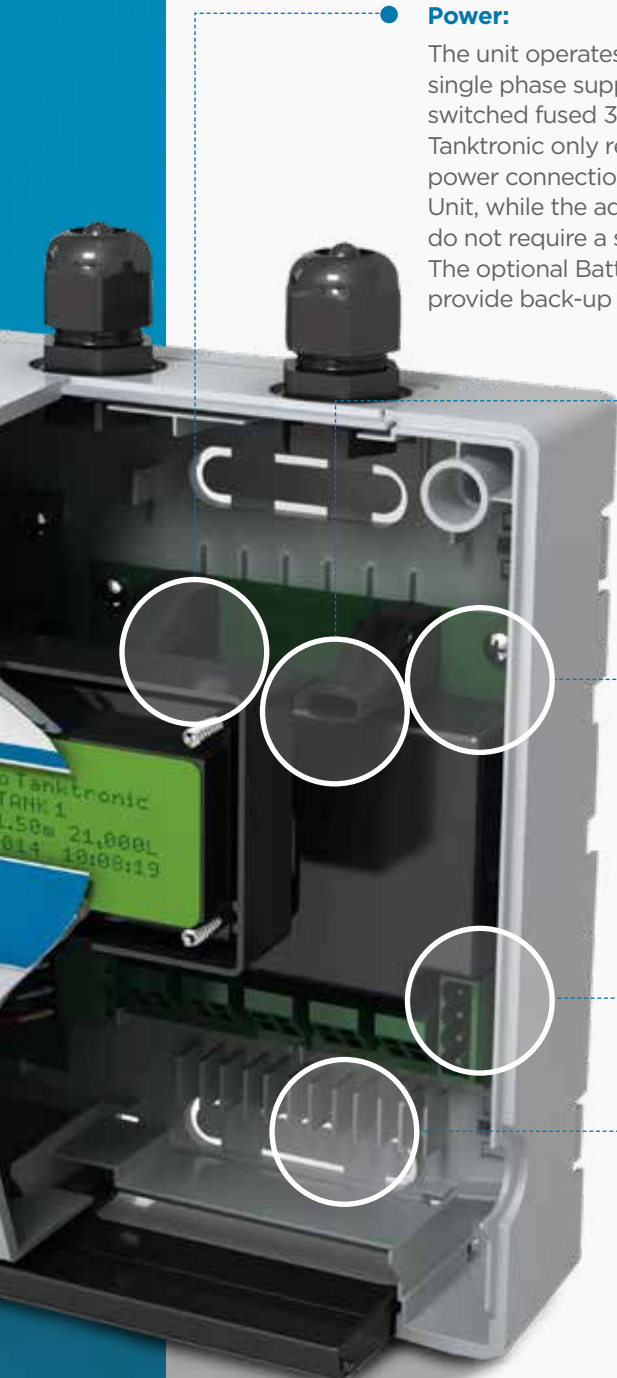
- Additional filling valves
- Low level alarm
- Secondary shut-off valve
- Immersion heater
- Low level pump cut-out

Modular Options:

A range of options allows Tanktronic to support any design of tank layout. The plug-in modules also give the system enhanced functionality and convenience as required by the user.

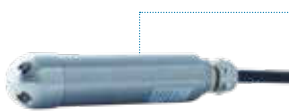
Inputs:

In addition to the standard Sensor input, the Control Unit features 2 x additional input connection ports. These volt-free contacts permit the fitting of third party devices such as leak detection or an emergency override button.



Tanktronic Options

The core components of the standard system are the Control Unit and pressure and temperature Sensor. The system can be expanded to meet specific requirements; Control Valves can be connected for tank filling, additional Sensors and an S-Module for multiple tanks and a Battery Module for back-up power. For added convenience, the Repeater Unit enables remote monitoring and can be located up to 100m from the Control Unit.



● Sensor:

The Sensor monitors both water pressure and temperature. The unit is provided pre-fitted to a connection box for rapid mounting and electrical wiring. Available for specification as a single or twin sensor with 3m or 5m cable length options, the sensor is supplied as standard with Tanktronic Control Units or can be purchased separately, if required.



● Repeater Unit

Works as an interface extension to the Control Unit, allowing the user to programme, monitor and control the Tanktronic system remotely from the water tank(s). The unit does not require a separate power supply.



● S-Module

An expansion module that can boost the Tanktronic control capacity. Adding the S-Module will allow an additional 2 x Control Valves to be controlled and extra third party devices to be connected to the Tanktronic system.



● Battery Module

Provides back-up power to the mains supply, providing up to two days of normal operation before power is expended. A recommended option if the building application is particularly dependent on the Holiday Schedule function.



● Tanktronic Servo Ceramic Valve (SCV)

Optimised for Tanktronic system applications to provide efficient motorised tank filling. Models are available for pipe sizes ranging from $\frac{3}{4}$ " to 2".

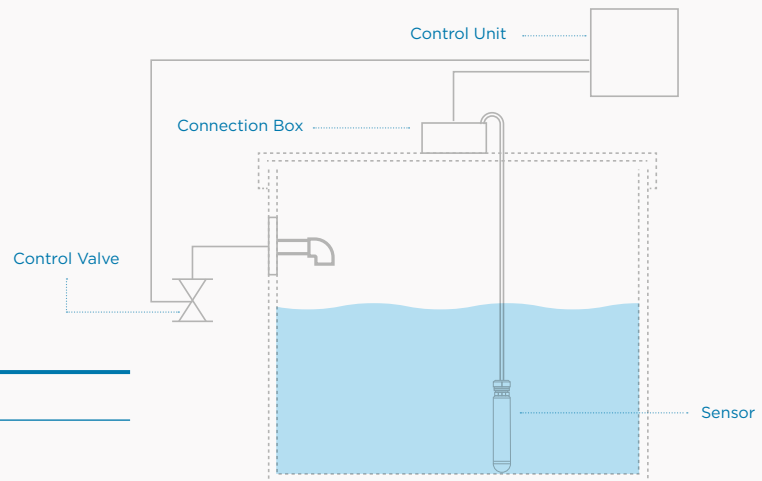


● Tanktronic Control Valve

The Control Valve works with Tanktronic to provide tank filling. The valve is supplied with a flanged fitting suitable for pipe sizes ranging from 2" to 6".

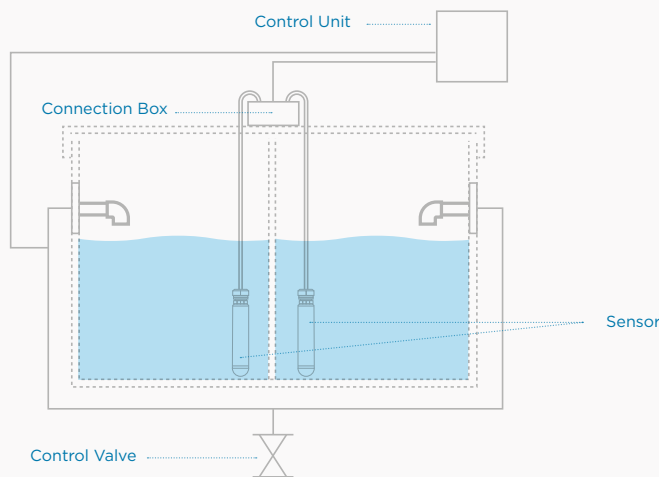
Tanktronic System Configurations

Note: Tanktronic systems can be installed with either new or existing Aylesbury delayed action mechanical float valves.

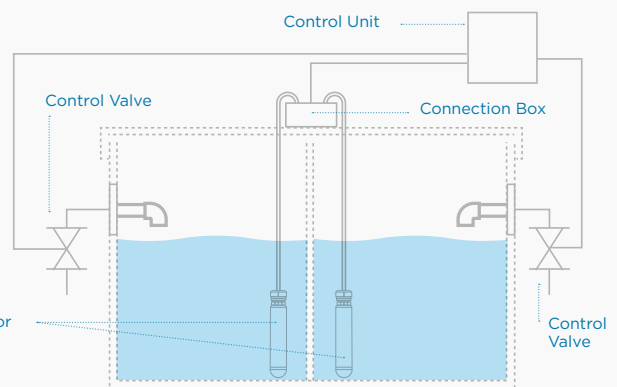


Single Tank

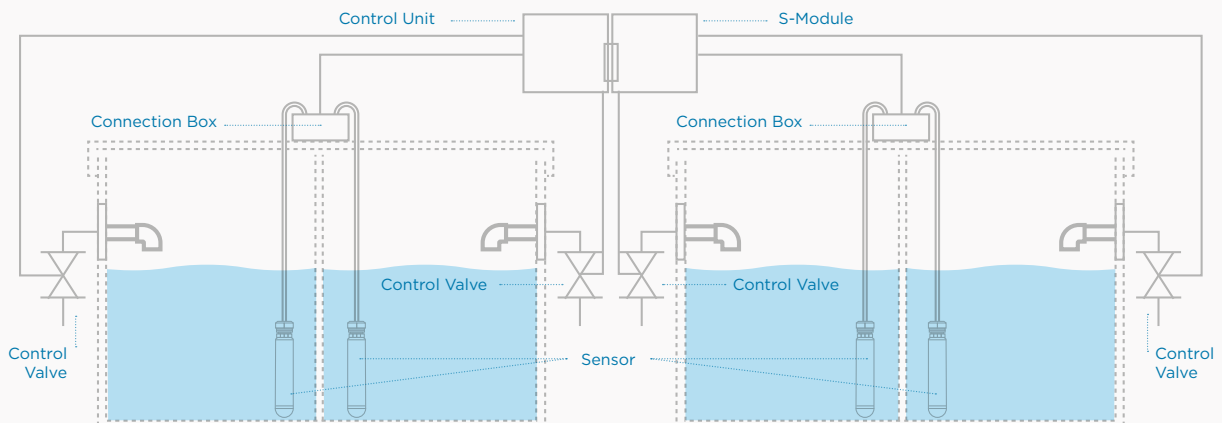
Balanced Tanks (common valve)



Balanced Tanks (separate valves)



Multiple Tanks



Aylesbury Valves

Precision-engineered and built to last, Keraflo's Aylesbury™ range of patented delayed action mechanical float valves are specified for commercial cold water tank systems.

Delayed Action Float-Activated Valves

Aylesbury valves are designed to provide an accurate and efficient method of controlling the level of stored cold water in tanks with and without raised float valve chambers. All Keraflo valves are manufactured under Quality Management Systems certified to ISO.9001:2015 and designed to operate for long periods of time without maintenance. All valves come with a one year warranty which can be extended to five years at no cost.

The valves are easy to install with an 'up and over' discharge arrangement which assists in facilitating Type AA, AB, AF, or AG air gap requirements under the Water Regulations.

The Aylesbury range is ideal for pumped systems because the open to closed 'on/off' valve operation avoids pump hunting and water hammer. The selected water level is unaffected by pressure fluctuation and the patented ceramic disc sealing mechanism means that there is no seat or washer to wear.

The Aylesbury Delayed Action Float Valve Range

Non adjustable opening / closing operating differential of approximately 75mm.

K Type	Pages 14-15
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KAX Type	Pages 16-17
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Fully variable opening and closing operating differential of up to 1,820mm and longer on request.

KB Type	Pages 18-19
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KP Type	Pages 20-22
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The delayed action of Aylesbury float valves delivers a positive fill to actively churn the water in the tank.

Flow Rates

Conversion factors

Litres per second to
cubic metres per hour:
x3.6

Litres per second
to cubic metres per
minute:
x0.06

Litres per second to
gallons per hour:
x719.9

Litres per second to
gallons per min:
x13.2

Pressure

Bar to pounds per
square inch:
x14.5

Bar to Pascal:
x100,000

Bar to metres:
x10.2

K, KAX, & KB Type

FLOW RATE FOR NOMINAL INCH (MM) VALVE SIZE AT STATED FLOW PRESSURE

FLOW PRESSURE	K, KAX & KB TYPE						KB TYPE		K, KAX & KB TYPE				K, KAX & KB TYPE					
	3/4" 20mm v22		1" 25mm v28		1 1/4" 32mm v35		1 1/2" SF 40mm v42		1 1/2" HF 40mm v42		2" SF 50mm v54		2" HF 50mm v54		2 1/2" SF 65mm v67		3" RB 80mm v761	
BAR	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s
0.05	0.09	0.28	0.18	0.33	0.27	0.33	0.27	0.22	0.64	0.52	0.67	0.32	1.21	0.58	1.27	0.39	1.34	0.31
0.10	0.13	0.39	0.25	0.47	0.38	0.46	0.38	0.31	0.90	0.73	0.95	0.45	1.71	0.62	1.80	0.55	1.90	0.45
0.25	0.20	0.62	0.40	0.74	0.61	0.73	0.61	0.49	1.43	1.16	1.50	0.72	2.70	1.29	2.85	0.87	3.00	0.70
0.50	0.28	0.65	0.56	1.04	0.86	1.03	0.86	0.70	2.02	1.64	2.12	1.02	3.82	1.63	4.03	1.23	4.25	1.00
1.00	0.40	1.24	0.79	1.47	1.22	1.46	1.22	0.99	2.85	2.32	3.00	1.44	5.40	2.58	5.70	1.74	6.00	1.41
1.50	0.49	1.52	0.97	1.60	1.49	1.79	1.49	1.21	3.49	2.64	3.68	1.76	6.62	3.17	6.98	2.13	7.35	1.72
2.00	0.56	1.75	1.12	2.08	1.72	2.06	1.72	1.40	4.03	3.28	4.25	2.03	7.64	5.65	8.06	2.46	8.49	1.99
3.00	0.69	2.15	1.38	2.55	2.11	2.52	2.11	1.71	4.94	4.01	5.20	2.49	9.36	4.46	9.88	3.01	10.40	2.44
4.00	0.79	2.48	1.59	2.95	2.43	2.92	2.43	1.98	5.70	4.63	6.00	2.87	10.81	5.17	11.40	3.48	12.01	2.82
5.00	0.89	2.77	1.78	3.29	2.72	3.26	2.72	2.21	6.38	5.16	6.71	3.21	12.08	5.76	12.75	3.69	13.43	3.15
6.00	0.97	3.04	1.95	3.61	2.98	3.57	2.98	2.42	6.99	5.67	7.35	3.52	13.24	6.33	13.97	4.26	14.71	3.45
8.00	1.12	3.51	2.25	4.17	3.44	4.12	3.44	2.79	8.07	6.55	8.49	4.06	15.29	7.31	16.13	4.92	16.98	3.96
10.00	1.26	3.92	2.51	4.66	3.85	4.61	3.85	3.12	9.02	7.32	9.49	4.54	17.09	8.17	18.03	5.50	18.99	4.45
Kv M3/HR	1.43		2.86		4.38		4.38		10.27		10.81		19.46		20.53		21.62	

KP Type

FLOW RATE FOR NOMINAL INCH (MM) VALVE SIZE AT STATED FLOW PRESSURE

FLOW PRESSURE	1 1/2" 40mm	2" 50mm	2 1/2" 65mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm
BAR	l/s	l/s	l/s	l/s	l/s	l/s	l/s
0.01	0.8	0.9	1.2	1.6	3.3	5.8	14.4
0.02	1.1	1.3	1.7	2.3	4.7	8.2	20.3
0.04	1.6	1.8	2.4	3.2	6.6	11.6	28.8
0.06	1.9	2.2	2.9	3.9	8.1	14.2	35.2
0.10	2.5	2.8	3.8	5.1	10.5	18.4	45.5
0.15	3.0	3.4	4.6	6.2	12.8	22.5	55.7
0.20	3.5	4.0	5.3	7.2	14.8	26.0	64.3
0.25	3.9	4.4	6.0	8.1	16.5	29.0	71.9
0.30	4.3	4.9	6.5	8.8	18.1	31.8	78.8
0.50	5.5	6.3	8.4	11.4	23.4	41.1	101.7
1.00	7.8	8.9	11.9	16.1	33.1	58.1	143.9
2.00	11.0	12.6	16.9	22.8	46.7	82.1	203.5
3.00	13.5	15.4	20.7	27.9	57.3	100.6	249.2
Kv M3/HR	28	32	43	58	119	209	518

Specification Details

K Type Aylesbury Valve

Equilibrium float valve with DZR brass body, having fixed delayed action and adjustable close level. The up and over discharge conforms in principle to BS.1212 Part 2. The valve features a non-wearing maintenance-free ceramic disc seal for water pressure up to 10 Bar. For standard water cisterns without raised chamber.

WRAS listing no. 1306039

Standard Flow: $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 2", 2 $\frac{1}{2}$ "

High Flow: 1 $\frac{1}{2}$ ", 2"

Reduced Bore: 3"

KAX Type Aylesbury Valve

Equilibrium float valve with DZR brass body, having fixed delayed action and adjustable close level. The up and over discharge conforms in principle to BS.1212 Part 2. The valve features a non-wearing maintenance-free ceramic disc seal for water pressure up to 10 Bar. Primarily for standard water cisterns with raised chamber.

WRAS listing no. 1306039

Standard Flow: $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 2", 2 $\frac{1}{2}$ "

High Flow: 1 $\frac{1}{2}$ ", 2"

Reduced Bore: 3"

KB Type Aylesbury Valve

Equilibrium float valve with DZR brass body, having fully variable delayed action. The up and over discharge conforms in principle to BS.1212 Part 2. The valve features a non-wearing maintenance-free ceramic disc seal for water pressure up to 10 Bar. For standard water cisterns with or without raised chamber.

WRAS listing no. 1306039

Standard Flow: $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 2", 2 $\frac{1}{2}$ "

High Flow: 1 $\frac{1}{2}$ ", 2"

Reduced Bore: 3"

KP Type Aylesbury Float Valve Kit

The KP float valve kit comprises an in-line Control Valve together with an Aylesbury KB type valve acting as a pilot. The KB type is an equilibrium float valve with DZR brass body, having fixed delayed action and adjustable close level. The up and over discharge conforms in principle to BS.1212 Part 2. The valve features a non-wearing

maintenance-free ceramic disc seal for water pressures up to 10 Bar. For standard water cisterns with or without raised chamber.

Valve sizes: 1 $\frac{1}{2}$ ", 2", 2 $\frac{1}{2}$ ", 3", 4", 6", 8"

(for other sizes contact Keraflo)

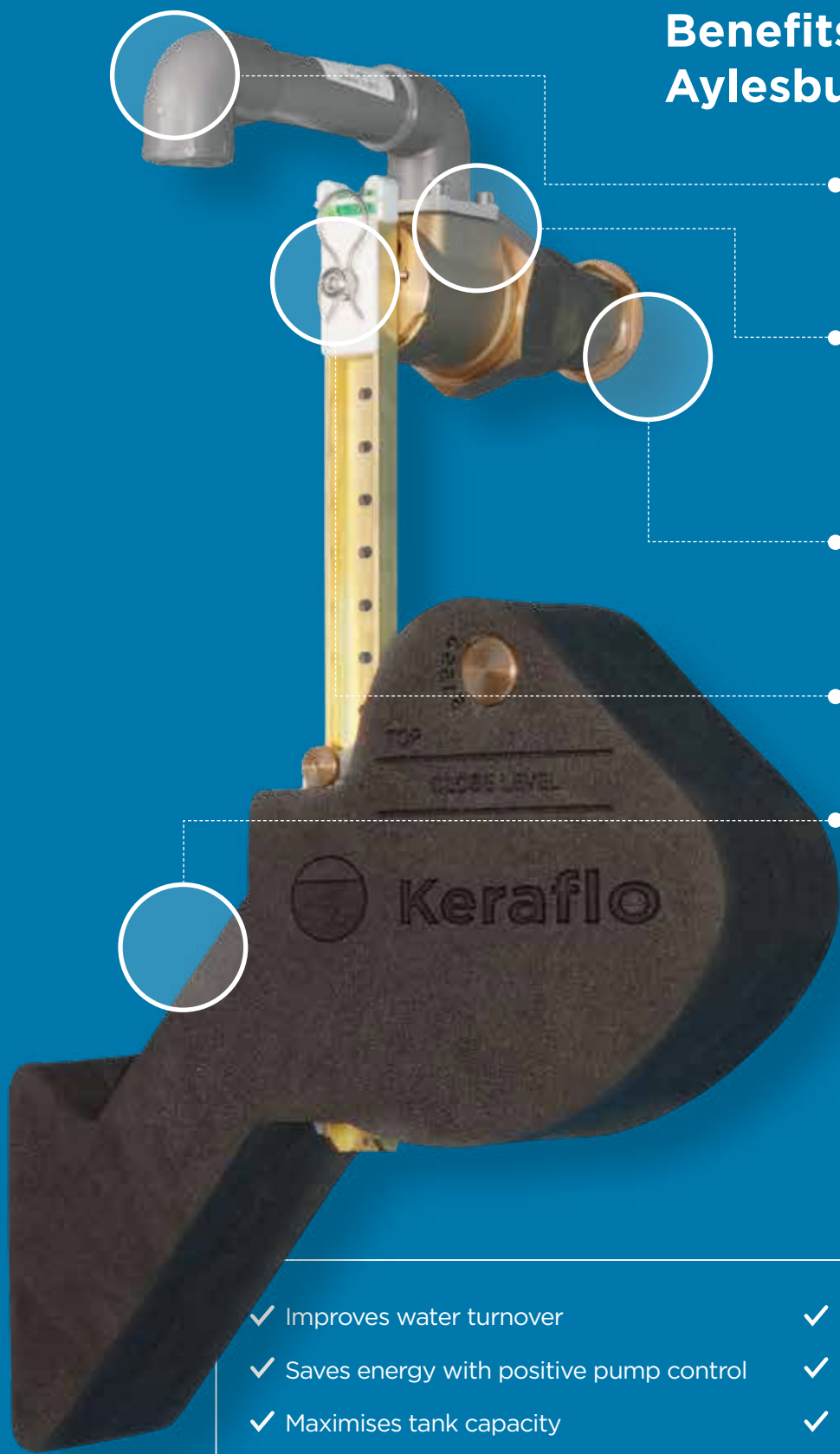
KS Type Aylesbury Stainless Steel Valve

Stainless Steel equilibrium float valve, having fixed delayed action and adjustable close level. The up and over discharge conforms in principle to BS.1212 Part 2. The valve features a non-wearing maintenance-free ceramic disc seal for

water pressures up to 10 Bar. For standard water cisterns without raised chamber.

Valve sizes: $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ", 2"

Benefits of Keraflo Aylesbury Valves



● Backsiphonage Protection:

'Up and Over discharge' to BS1212 Part 2 - helps to facilitate air gap compliance.

● Virtually Indestructible:

The heart of the valve incorporates pressure compensated rotating ceramic discs which are aligned in the open position.

● Reduces Tank Wall Stress:

The Aylesbury valve's radical design reduces stress on the tank wall fixing point.

● Extended Durability:

Non-wearing ceramic disc seal in a DZR brass housing.

● Revolutionary Shaped Puncture Proof Float:

Made from polyethylene closed cell foam which is CFC-free, air retardant and chemically and biologically inert.

Maintenance Free:

Designed to operate for long periods without maintenance.

Water Pressure:

Suitable for 0 - 10 Bar.

- ✓ Improves water turnover
- ✓ Saves energy with positive pump control
- ✓ Maximises tank capacity
- ✓ Fixed and variable level differential models
- ✓ Full flow during fill
- ✓ Ideal for pumped systems
- ✓ Reduces Legionella risk
- ✓ No valve bounce
- ✓ No dribble
- ✓ No water hammer

K Type

Delayed Action Float Valve, suitable for tanks without raised valve chambers



How it Works

When water is taken from the tank and the water level falls (when a tap is opened for example), the K Type valve does not immediately open (at a dribble) as would happen with a BS1212 equilibrium valve. There is, instead, a delay; the valve does not open until the water level has fallen by 75mm.

When the water level has fallen by 75mm the K Type valve moves from a ‘fully closed’ position into a ‘fully open’ position, allowing water to flow into the tank at a maximum flow rate. When the water level has returned to its original full level, the valve immediately closes from the ‘fully open’ position, preventing any of the

‘dribbling’ associated with equilibrium valves. The positive action and full-bore flow delivered by the K Type valve provides a range of benefits including good water turnover, fast refill, the eradication of water hammer and reduced noise.

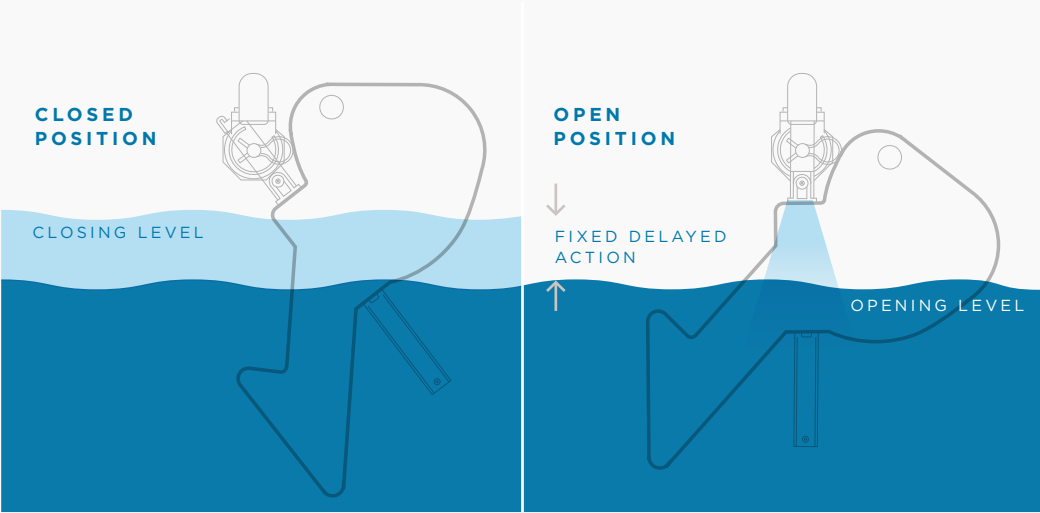
The Aylesbury valve’s weighted float can be adjusted to a number of positions on the brass float arm, allowing the tank’s stored water level to be easily modified.

Also available in stainless steel (sizes 3/4in to 2in only) for use in demanding environments such as desalination plants and sea water.

Sizes for K Type Delayed Action Float Valve

	3/4" (20mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (40mm)	2" (50mm)
Standard Flow (SF)	✓ Single Head	✓ Single Head	✓ Single Head		✓ Single Head
High Flow (HF)				✓ Single Head	✓ Twin Head

	2 1/2" (65mm)	3" (80mm)
Standard Flow (SF)	✓ Twin Head	
High Flow (HF)		
Reduced Bore (RB)		✓ Twin Head



KAX Type

Delayed Action Float Valve, primarily for tanks with raised valve chambers



How it Works

Identical in operation to the K Type, the Aylesbury KAX Type valves have extended drops and are suitable for raised valve chambers.

The KAX Type valves are primarily designed to fit into chambers or boxes in the covers of tanks calling for air gaps or where maximum tank capacity is required. To assist with compliance with air gap

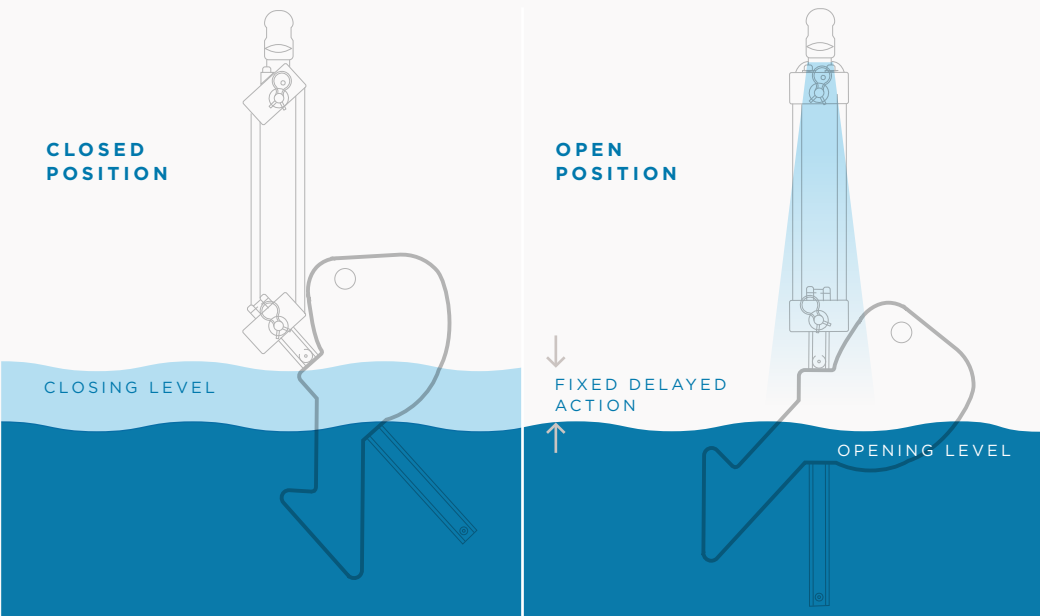
requirements, the valve discharge is further raised above the centre line of the inlet. The KAX Type is especially suitable for Type AA and AB air gaps.

Also available in stainless steel (sizes 3/4in to 2in only) for use in demanding environments such as desalination plants and sea water.

Sizes for KAX Type Delayed Action Float Valve

	3/4" (20mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (40mm)	2" (50mm)
Standard Flow (SF)	✓ Single Head	✓ Single Head	✓ Single Head		✓ Single Head
High Flow (HF)				✓ Single Head	✓ Twin Head

	2 1/2" (65mm)	3" (80mm)
Standard Flow (SF)	✓ Twin Head	
High Flow (HF)		
Reduced Bore (RB)		✓ Twin Head



KB Type

Fully Variable Delayed Action Float Valve, suitable for tanks with or without raised valve chambers

How it Works

When water is taken from the tank and the water level falls (when a tap is opened for example), the KB Type valve does not immediately open (at a dribble) as would happen with a BS1212 equilibrium valve. There is, instead, a delay; the valve does not open until the water level has fallen to the user-selected level.

When this opening water level is reached the KB Type valve moves from a 'fully closed' position into a 'fully open' position, allowing water to flow into the tank at a maximum flow rate. When the water level has returned to its original full level, the valve immediately closes from the 'fully open' position, preventing any of the 'dribbling' associated with equilibrium valves.

The positive action and full-bore flow delivered by the KB Type Valve provide a range of benefits including good water turnover, fast refill, the eradication of water hammer and reduced noise.

- Virtually unlimited range of opening and closing levels – ideal for larger tanks.
- Easy adjustment of variables; capacity can easily be matched to demand.
- Lightweight = reduced tank wall stress and supporting structure not required.
- Suitable for installation directly into a tank or raised valve chamber.

Applications

This unique valve is ideal for use with pumped systems, water treatment plants and many other applications including:

- Industrial tanks
- Pumped systems
- Underground tanks
- Rain (grey) water tanks and reservoirs
- Industrial feed and expansion tanks
- Process tanks

For more information on the applications, call our technical support team.

The flexibility of KB valves can assist with improving water quality where buildings are partially commissioned or occupancy varies at different times of the year.



Pumped Systems

The adjustable and potentially large difference between opening and closing levels can allow a large volume of water to be admitted to the tank each filling cycle. Pumps and pump sets are often controlled to run for a minimum of 3 minutes. If the water demand is satisfied before this time and an auxiliary hydraulic accumulator is not fitted, the pumps will run against a closed valve head at zero efficiency.

The fill volume can be set to equal or exceed this volume to ensure the pump(s) run for at least 3 minutes. Where a pump set is used solely for transferring water from a break tank to an elevated storage tank, the KB valve can dispense with the need for an auxiliary hydraulic accumulator.

Pump efficiency and initial sizing can be further enhanced using a float valve with little internal resistance. Consequently the High Flow version is often better suited to these applications than the Standard Flow version which is ideal for mains water pressure applications.

Air Gaps for Industrial Tanks

The KB Type is ideal for fitting into a tank without a lid or raised valve chamber and where the vertical drop from the valve to the water level may be considerable.

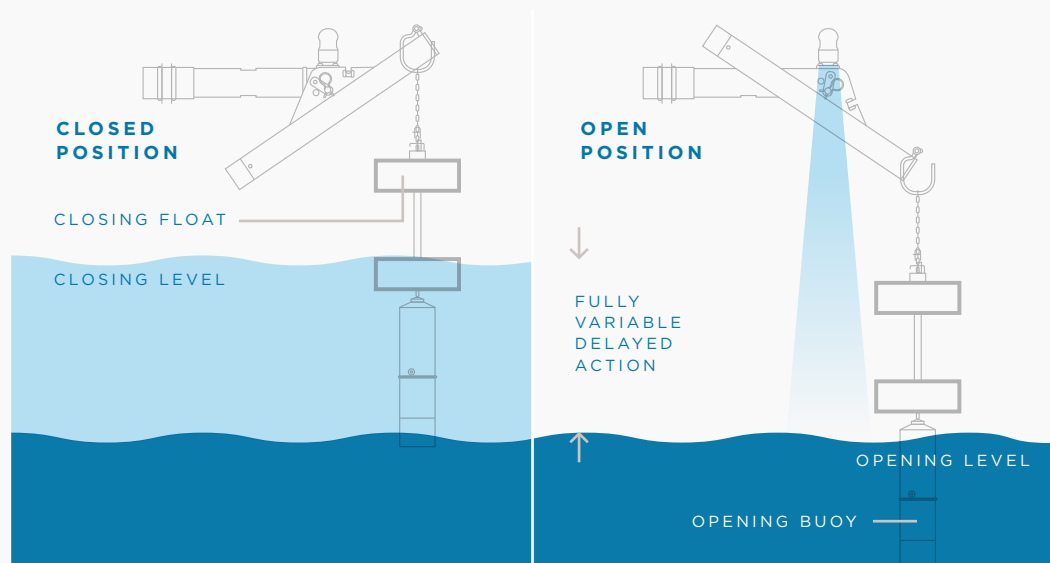


SINGLE HEAD

TWIN HEAD

Sizes for 'KB' Type Delayed Action Float Valve

	3/4" (20mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (40mm)	2" (50mm)	2 1/2" (65mm)	3" (80mm)
Standard Flow (SF)	✓ Single Head	✓ Single Head	✓ Single Head	✓ Single Head	✓ Single Head	✓ Twin Head	
High Flow (HF)				✓ Single Head	✓ Twin Head		
Reduced Bore (RB)							✓ Twin Head

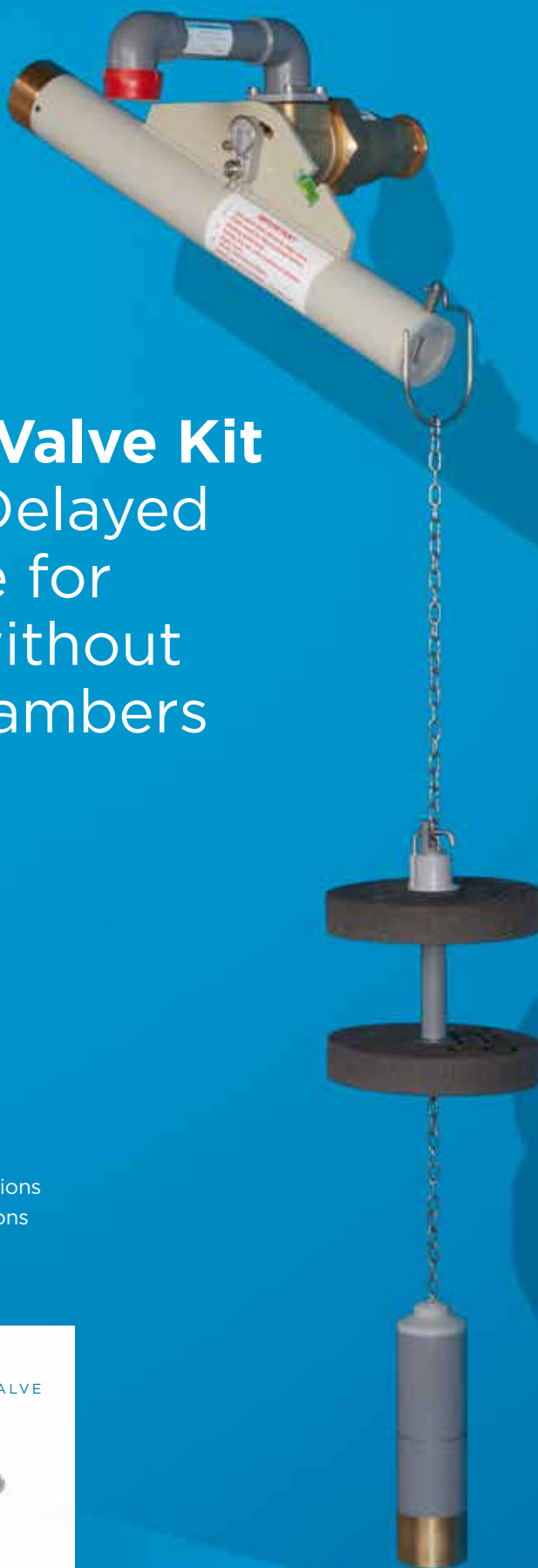
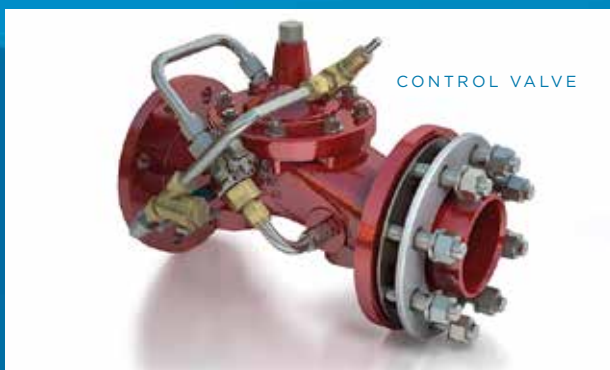


KP Type Float Valve Kit

Fully Variable Delayed Action, suitable for tanks with or without raised valve chambers

Benefits

- No water hammer
- No valve bounce
- Full flow during fill
- Maximises tank capacity
- No dribble
- Delayed action
- Maintenance free
- Tank wall stress negligible
- No backing plate required
- Ideal for fire sprinkler systems
- Standard Float Valve Kit or Twin Tank options
- Suitable for all types of Air Gap applications



The KP Type Float Valve Kit comprises an in-line Control Valve together with an Aylesbury KB Type valve acting as a pilot. The pilot valve offers fully variable delayed action opening and closing water level settings, making this ideal for mains or pumped systems.

High Kv Value

The standard KP Control Valve offers excellent flow rate performance.

Raised Valve Chamber

Can be small because it only has to accommodate a $\frac{3}{4}$ " KB valve and discharge assembly.

Facilitates Air Gaps

The Aylesbury KB valve is supplied with an adjustable chain as standard allowing the closing level to be set below any combination of weir slot, overflow and/or warning device.

Quiet Operation

Aylesbury valves are quieter than conventional valves due to the elimination of water hammer, valve bounce, 'hiss' and dribble.

Accessibility

An externally mounted Control Valve can be easily inspected, adjusted and, if required, serviced. Re-chlorination of the tank is not necessary provided the tank lid is not removed.

Shallow Tanks

KP Valves can operate in tanks as shallow as 1 metre in depth.

Deep Tanks

The standard Aylesbury KB pilot valve enables an opening level 2m below the inlet level.

Optional Extra

Upstream Pressure Sustaining Regulator - the Control Valve regulates itself to leave the desired minimum upstream pressure (Adjustable 1-6 Bar).

Multiple Discharges

To reduce the risk of stagnation, two or more discharges can be connected to the outlet of the Control Valve. Since the filling pipe is only subjected to low pressure, thin wall PVC pipe can be used. The KP Valve can also be configured to service balanced/partitioned tanks.

Flexibility and Ease of Installation

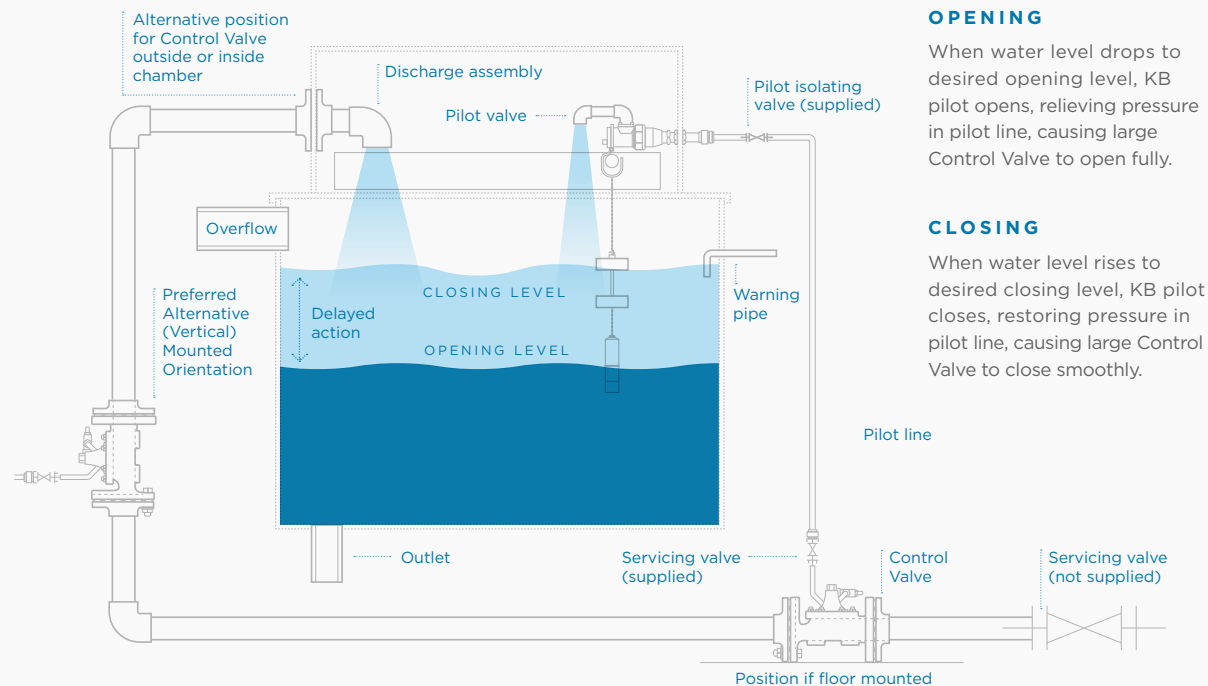
Conventional float valves above 3" are heavy and cumbersome, often necessitating a two person installation. When the KP Control Valve is mounted outside the tank at floor level, no heavy lifting is required. The Control Valve can be mounted in one of four positions:

- Vertically in the pipework (preferred option).
- Outside the tank at floor level.
- Outside the tank above the tank water level.
- Inside the tank above the tank water level.

Sizes for KP Type Fully Variable Delayed Action Float Valve Kit

1 1/2" (40mm)	2" (50mm)	2 1/2" (65mm)	3" (80mm)	4" (100mm)	6" (150mm)
✓	✓	✓	✓	✓	✓

KP Typical Standard Tank Installation



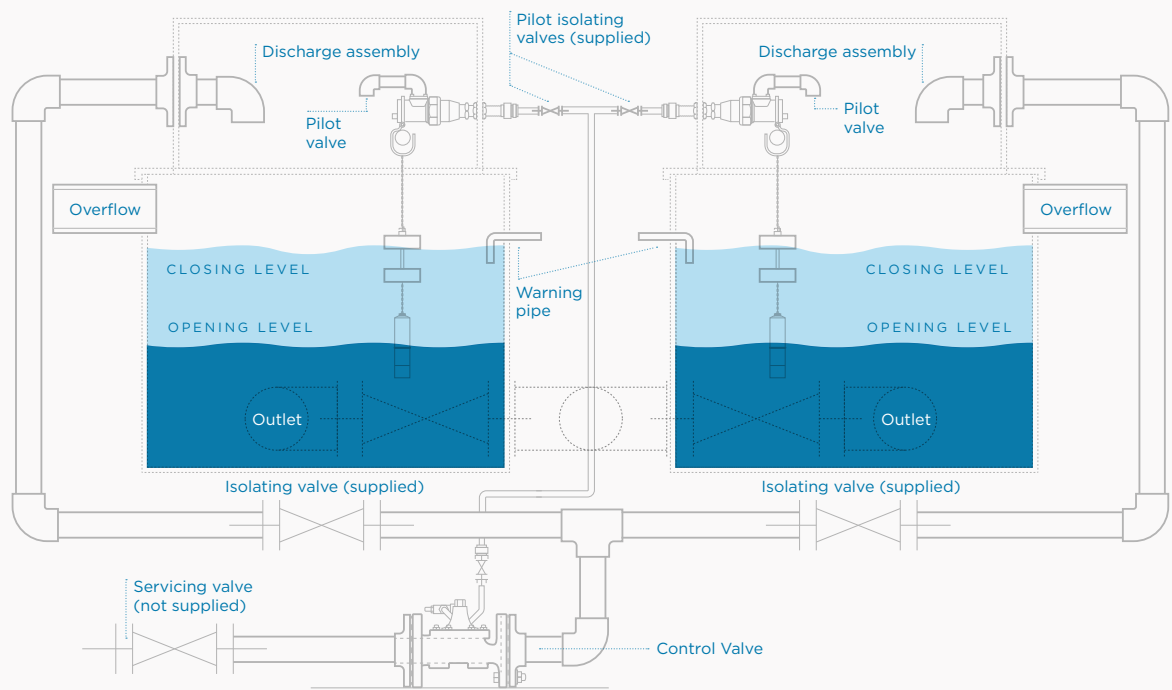
OPENING

When water level drops to desired opening level, KB pilot opens, relieving pressure in pilot line, causing large Control Valve to open fully.

CLOSING

When water level rises to desired closing level, KB pilot closes, restoring pressure in pilot line, causing large Control Valve to close smoothly.

KP Typical Balanced Tanks Installation



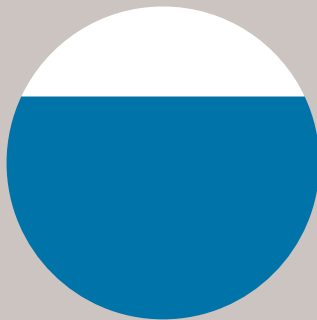
Product Codes



TANKTRONIC	CODE	SIZE	DETAIL
Tanktronic Control Unit	TT/41		Control Unit with Single Sensor and 3m cable
Tanktronic Control Unit	TT/42		Control Unit with Single Sensor and 5m cable
Tanktronic Control Unit	TT/43		Control Unit with Twin Sensor and 3m cable
Tanktronic Control Unit	TT/44		Control Unit with Twin Sensor and 5m cable
Tanktronic Servo Ceramic Valve (SCV)	SCV20	3/4" (20mm)	Motorised Filling Valve
Tanktronic Servo Ceramic Valve (SCV)	SCV25	1" (25mm)	Motorised Filling Valve
Tanktronic Servo Ceramic Valve (SCV)	SCV32	1 1/4" (32mm)	Motorised Filling Valve
Tanktronic Servo Ceramic Valve (SCV)	SCV40	1 1/2" (40mm)	Motorised Filling Valve
Tanktronic Servo Ceramic Valve (SCV)	SCV50	2" (50mm)	Motorised Filling Valve
Tanktronic Control Valve	TT/15	2" (50mm)	Single Control Valve
Tanktronic Control Valve	TT/16	2 1/2" (65mm)	Single Control Valve
Tanktronic Control Valve	TT/17	3" (80mm)	Single Control Valve
Tanktronic Control Valve	TT/18	4" (100mm)	Single Control Valve
Tanktronic Control Valve	TT/19	6" (150mm)	Single Control Valve
Tanktronic Control Valve	TT/55	2" (50mm)	Twin Control Valve
Tanktronic Control Valve	TT/56	2 1/2" (65mm)	Twin Control Valve
Tanktronic Control Valve	TT/57	3" (80mm)	Twin Control Valve
Tanktronic Control Valve	TT/58	4" (100mm)	Twin Control Valve
Tanktronic Control Valve	TT/59	6" (150mm)	Twin Control Valve
Tanktronic S-Module	TT/2		
Tanktronic Battery Module	TT/3		
Tanktronic Repeater Module	TT/100		
Sensor and Connection Box	TT/4		Single Sensor & Connection Box with 3m cable
Sensor and Connection Box	TT/29		Single Sensor & Connection Box with 5m cable
Sensor and Connection Box	TT/46		Twin Sensor & Connection Box with 3m cable
Sensor and Connection Box	TT/47		Twin Sensor & Connection Box with 5m cable



AYLESBURY	CODE	SIZE	DETAIL
Aylesbury K Type	A/K20	3/4" (20mm)	
Aylesbury K Type	A/K25	1" (25mm)	
Aylesbury K Type	A/K32	1 1/4" (32mm)	
Aylesbury K Type	A/K40HF	1 1/2" (40mm)	High Flow Float Valve
Aylesbury K Type	A/K50SF	2" (50mm)	Standard Flow Float Valve
Aylesbury K Type	A/K50HF	2" (50mm)	High Flow Float Valve
Aylesbury K Type	A/K65SF	2 1/2" (65mm)	Standard Flow Float Valve
Aylesbury K Type	A/K80RB	3" (80mm)	Reduced Bore Float Valve
Aylesbury KAX Type	A/KAX20	3/4" (20mm)	
Aylesbury KAX Type	A/KAX25	1" (25mm)	
Aylesbury KAX Type	A/KAX32	1 1/4" (32mm)	
Aylesbury KAX Type	A/KAX40HF	1 1/2" (40mm)	High Flow Float Valve
Aylesbury KAX Type	A/KAX50SF	2" (50mm)	Standard Flow Float Valve
Aylesbury KAX Type	A/KAX50HF	2" (50mm)	High Flow Float Valve
Aylesbury KAX Type	A/KAX65SF	2 1/2" (65mm)	Standard Flow Float Valve
Aylesbury KAX Type	A/KAX80RB	3" (80mm)	Reduced Bore Float Valve
Aylesbury KB Type	A/KB20	3/4" (20mm)	
Aylesbury KB Type	A/KB25	1" (25mm)	
Aylesbury KB Type	A/KB32	1 1/4" (32mm)	
Aylesbury KB Type	A/KB40SF	1 1/2" (40mm)	Standard Flow Float Valve
Aylesbury KB Type	A/KB40HF	1 1/2" (40mm)	High Flow Float Valve
Aylesbury KB Type	A/KB50SF	2" (50mm)	Standard Flow Float Valve
Aylesbury KB Type	A/KB50HF	2" (50mm)	High Flow Float Valve
Aylesbury KB Type	A/KB65SF	2 1/2" (65mm)	Standard Flow Float Valve
Aylesbury KB Type	A/KB80RB	3" (80mm)	Reduced Bore Float Valve
Aylesbury KP Type	A/KP40	1 1/2" (40mm)	Standard Float Valve Kit
Aylesbury KP Type	A/KP50	2" (50mm)	Standard Float Valve Kit
Aylesbury KP Type	A/KP65	2 1/2" (65mm)	Standard Float Valve Kit
Aylesbury KP Type	A/KP80	3" (80mm)	Standard Float Valve Kit
Aylesbury KP Type	A/KPI00	4" (100mm)	Standard Float Valve Kit
Aylesbury KP Type	A/KPI50	6" (150mm)	Standard Float Valve Kit
Aylesbury KP Type	A/KP40TT	1 1/2" (40mm)	Twin Tank Kit
Aylesbury KP Type	A/KP50TT	2" (50mm)	Twin Tank Kit
Aylesbury KP Type	A/KP65TT	2 1/2" (65mm)	Twin Tank Kit
Aylesbury KP Type	A/KP80TT	3" (80mm)	Twin Tank Kit
Aylesbury KP Type	A/KPI00TT	4" (100mm)	Twin Tank Kit
Aylesbury KP Type	A/KPI50TT	6" (150mm)	Twin Tank Kit



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