



# AYLESBURY™ 'K' TYPE FLOAT VALVES

SIZES (DN): ½”(15), ¾”(20), 1”(25), 1¼”(32), 1½”(40)SF, 1½”(40)HF, 2”(50)SF

## PRE-INSTALLATION CHECKS

AYLESBURY Valves are unlike any other float operated valve, ballcock or ball valve. Please read these instructions and refer to attached drawings before installation.

Installation of valves should be in accordance with The Water Supply (Water Fittings) Regulations 1999 and BS6700:1997 Para. 2.2.4

Keraflo Valves contain a pair of maintenance free ceramic discs. Do **NOT** attempt to dismantle the Valve - even if you are curious! Should the valve ever become blocked with debris, ask Keraflo for a Service Bulletin.

### EVIDENCE OF DISASSEMBLY OR SIGNS OF MISUSE MAY INVALIDATE WARRANTY.

Aylesbury Valves are suitable for most cold water storage tanks. Please note the following:

- RAISED VALVE CHAMBERS:** K Type Valves are not generally suitable for raised valve chambers - use either KAX or KB Types.
- OPERATING SPACE:** Check for sufficient clearance. The working dimensions are shown on the attached drawings.
- OVERFLOW/WARNING PIPES:** Check the position of the Overflow and Warning Pipe (where fitted). See dimension 'R max', sheet KI002.
- TURBULENT WATER:** Exceptionally turbulent waters, eg: cooling towers, should be avoided directly beneath the float. Calming measures such as baffle plates, still ponds etc. should be implemented.
- FLANGED TANKS** The design of the Aylesbury 'K' Type valve, allows sufficient clearance between the float and most internal tank flanges and ribs (Dimension G shown on drawing KI004\*). The valve Backnuts may be adjusted to enable fitting to tanks with large flanges; provided a minimum of 20mm exists between the Float and tank wall throughout the arc of the Float.
- ROUND TANKS:** Minimum tank diameters required:

Valve	½”	¾”	1”	1¼”	1½”SF	1½”HF	2”SF
Min tank diameter (m)	0.95m	0.95m	0.95m	1.30m	1.30m	2.30m	2.30m

- SLOPING TANK WALL:** The wall to which the Aylesbury K Valve is to be attached must be vertical. If the wall around the fixing hole is sloped, tapered washers must be used. These are generally available from the tank supplier.
- PIPEWORK SUPPORT:** Aylesbury Valves create virtually no tank wall stress. Additional pipework support is therefore unnecessary provided the Code of Practice for the support of pipework in general is met.
- SERVICE VALVE:** A service valve must be fitted as near as is reasonably practicable to the float operated valve. A service valve incorporating a particle strainer is highly recommended

**PLEASE PLACE LABEL ON TANK LID ABOVE VALVE FOR FUTURE REFERENCE.**





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## INSTALLATION INSTRUCTIONS

Installation of valves should be in accordance with The Water Supply (Water Fittings) Regulations 1999 and BS6700:1997 Para. 2.2.4

**WARNING! THE BUILT-IN SPIRIT LEVEL MUST BE USED TO ALIGN THIS VALVE. FAILURE TO FOLLOW THE PROCEDURE LISTED BELOW WILL PREVENT THE VALVE OPERATING CORRECTLY**

To avoid damage, fit the Float Arm Assembly **after** installing the Valve in the tank.

- 1 Before fitting the Valve, flush the supply pipes to clear all debris. Tanks and pipes should be disinfected using the procedures in BS 6700:1997 Para 3.1.10
- 2 Remove and retain the double R clips from the Valve body.
- 3 Remove and discard the protective Cap from the Tail. Remove and retain one Backnut. Insert the Valve Tail through the hole in the tank wall, replace the Backnut with the flanged side against the tank wall.
- 4 Connect the supply pipe, via a service valve, then hand tighten the Backnut to suit. To prevent the Valve from turning when tightening the pipe fitting, use either a wrench or a spanner on the Valve Tail where indicated in drawing Ki004\* **DO NOT USE A WRENCH ON ANY OTHER PART OF THE VALVE.**
- 5 Assemble the Float and Float Arm
- 6 Fit the Float Arm Assembly to the Valve Body Spigot, ensuring the Stainless Steel Pin locates in the hole of the Actuator Wheel as shown in drawing Ki004\*. Place a finger or thumb through the loop on the Double R Clip, then push the Clip into the Spigot groove until it clicks into place.
- 7 Rotate the Valve as necessary so the Float Arm is **ABSOLUTELY VERTICAL** in the Valve open position, as indicated by the bubble being between the black lines of the Spirit Level on the Float Arm. Tighten the Backnuts, and then **CHECK ALIGNMENT AGAIN.**
- 8 Remove and discard the protective Cap from the Discharge Assembly.

### ALIGNMENT WARNING!!

**It is imperative that the Float Arm is fitted in the vertical position when the Valve is fully open. This is critical to the operation of the Valve.**

## ADJUSTING CLOSING WATER LEVEL (TWL)

1. Pull out the Float Adjusting Catch. Refer to drawing Ki004\*.
2. Move the Float to the desired position.
3. Release Catch and ensure Pin locates in desired hole.

## TESTING

Before leaving the installation, test the Valve operation a number of times ensuring the Valve moves freely from the open to the closed position and from the closed to the open position. Where a Valve has not been in operation for a period of time it is also recommended that the above procedure is carried out.

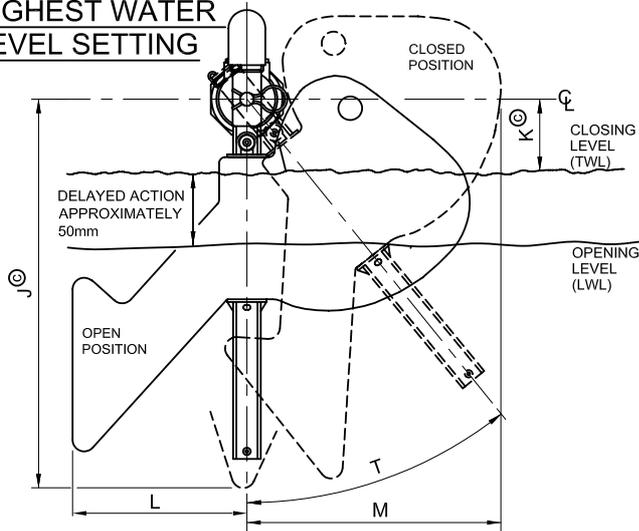
ATTACHED DRAWINGS	
Ki002*	Aylesbury K Type Dimensions – Front View
Ki004*	Aylesbury K Type Dimensions – Side View

KERAFLO RESERVE THE RIGHT TO CHANGE SPECIFICATIONS, DESIGN AND MATERIALS WITHOUT PRIOR NOTICE

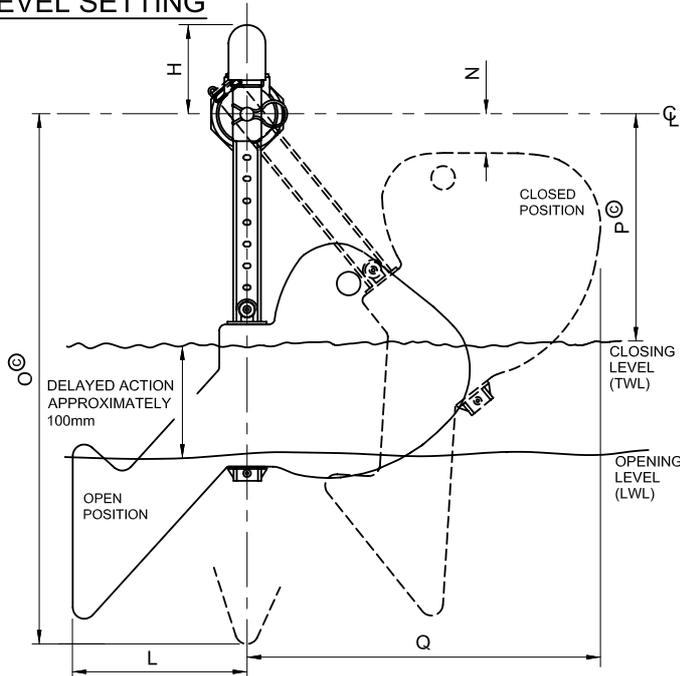
## AYLESBURY K TYPE DIMENSIONS - FRONT VIEW

SIZES (DN): 1/2"(15), 3/4"(20), 1"(25), 1 1/4"(32), 1 1/2"(40)SF, 1 1/2"(40)HF, 2"(50)SF

### HIGHEST WATER LEVEL SETTING



### LOWEST WATER LEVEL SETTING



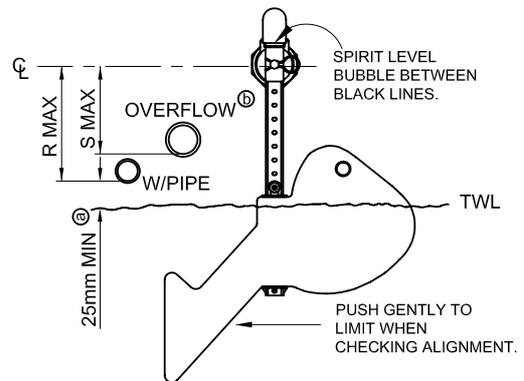
#### WARNING

The float arm must be fitted absolutely vertical (in the open position) as indicated by the spirit level.

Misalignment will prevent the valve from closing.

Ensure overflowing level is not lower than that shown below ( $R_{max}$ ); and higher for higher water levels

Level differential 50 - 100mm non adjustable delayed action.



DN	15	20	25	32	40SF	40HF	50SF
SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"SF	1 1/2"HF	2"SF
J	340	340	340	370	370	390	390
K	70	70	70	70	70	80	80
L	155	155	155	155	155	155	155
M	225	225	225	255	255	270	270
N	30	30	30	60	60	25	25
O	470	470	470	510	510	510	510
P	210	210	210	250	250	250	250
Q	315	315	315	340	340	340	340
$R_{MAX}$	185	185	185	225	225	225	225
$S_{MAX}$	160	160	160	200	200	200	200
T	41°	41°	41°	41°	41°	40°	40°

#### NOTES

- Ⓐ SCHED 2, SECT 7, G16.5 Water Regs. Gap should be more if water is turbulent - especially if near valve discharge. 40mm minimum for valves 1 1/2" (DN 40mm) or larger - recommended by Keraflo.
- Ⓑ Typically twice inlet bore. SECT 7, SCHED 2 G16.10 Water Regs. - warning/overflow pipe(s) should be capable of taking any possible flow in the pipe arising from inlet valve failure.
- Ⓒ If longer drop required please call Keraflo.

See Ki004\* for side view

All dimensions in mm unless stated.

Measurements are subject to specific gravity of solution.

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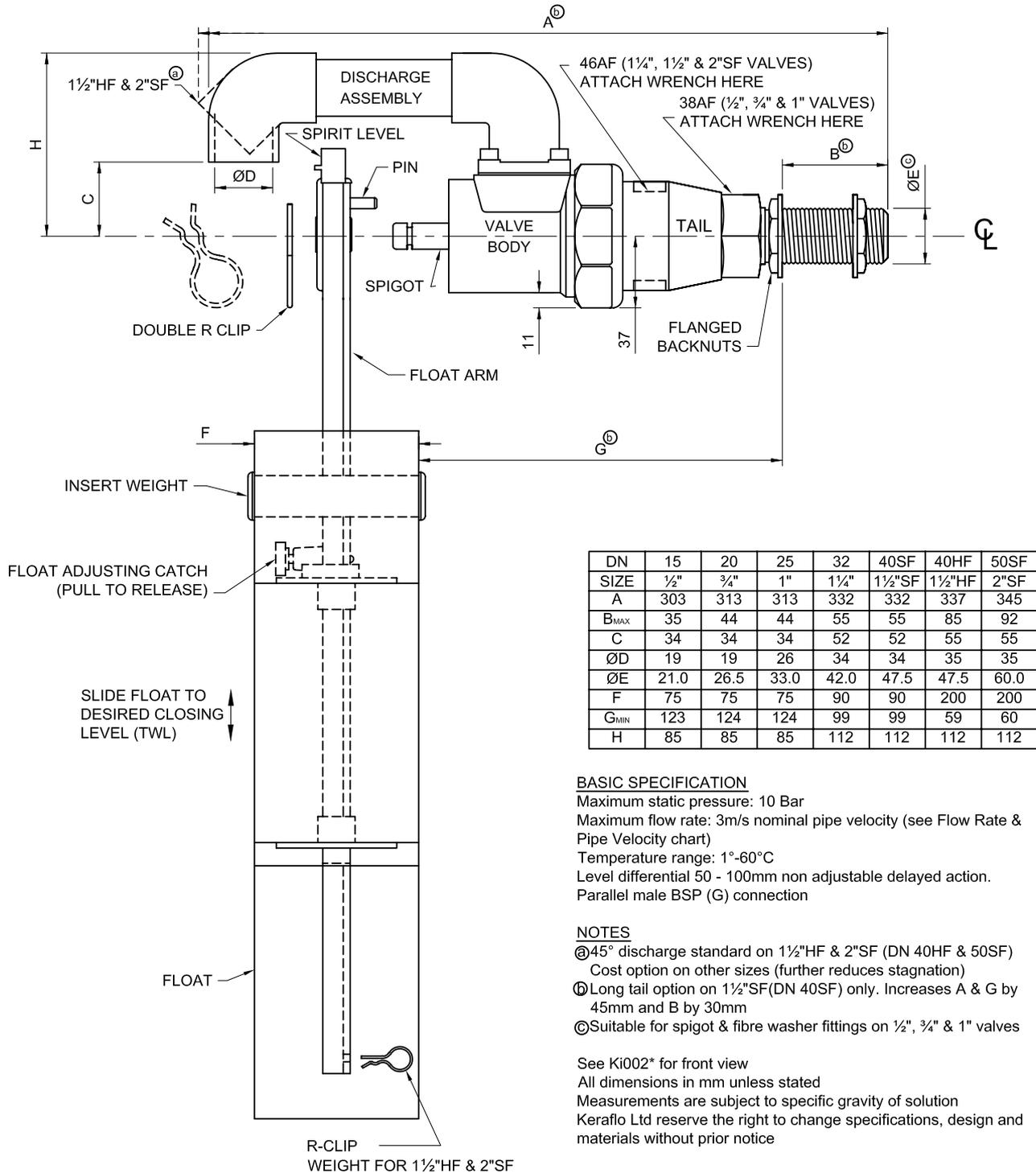


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01/06/07

## AYLESBURY K TYPE DIMENSIONS - SIDE VIEW

SIZES (DN): 1/2"(15), 3/4"(20), 1"(25), 1 1/4"(32), 1 1/2"(40)SF, 1 1/2"(40)HF, 2"(50)SF



DN	15	20	25	32	40SF	40HF	50SF
SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"SF	1 1/2"HF	2"SF
A	303	313	313	332	332	337	345
B <sup>MAX</sup>	35	44	44	55	55	85	92
C	34	34	34	52	52	55	55
ØD	19	19	26	34	34	35	35
ØE	21.0	26.5	33.0	42.0	47.5	47.5	60.0
F	75	75	75	90	90	200	200
G <sup>MIN</sup>	123	124	124	99	99	59	60
H	85	85	85	112	112	112	112

### BASIC SPECIFICATION

Maximum static pressure: 10 Bar

Maximum flow rate: 3m/s nominal pipe velocity (see Flow Rate & Pipe Velocity chart)

Temperature range: 1°-60°C

Level differential 50 - 100mm non adjustable delayed action.

Parallel male BSP (G) connection

### NOTES

Ⓐ 45° discharge standard on 1 1/2"HF & 2"SF (DN 40HF & 50SF)

Cost option on other sizes (further reduces stagnation)

Ⓑ Long tail option on 1 1/2"SF (DN 40SF) only. Increases A & G by 45mm and B by 30mm

Ⓒ Suitable for spigot & fibre washer fittings on 1/2", 3/4" & 1" valves

See Ki002\* for front view

All dimensions in mm unless stated

Measurements are subject to specific gravity of solution

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