



## SERVICE BULLETIN

### Covering all AYLESBURY™ Valves

**Keraflo Aylesbury float operated valves contain a pair of maintenance free ceramic discs. There are rare occasions when it may be necessary to partially disassemble the valve, eg: to clear a blockage or to renew certain components.**

#### FAULT FINDING

Before dismantling the valve, various checks should be made:-

SYMPTOM	CHECK
Water overflowing before the float becomes <b>completely</b> submerged	Close level : is the float set too high?
Water overflowing and the float is completely submerged	Float arm alignment : check spirit level. K, KA, KAX & KX Type – Float arm must be in the open position. KB Type – Actuator tube must be in the closed position.
Water continuing to pass through valve after "closing"	Has the float arm or actuator tube moved fully to the closed position? If not, check alignment. If so, see Actuating Mechanism.
Inadequate flow from valve	Is Servicing valve fully open? Is the float arm in the fully open position? If so, see Clearing Blockages. If an upstream strainer is fitted, check.
Valve remaining in the fully closed position yet water level well below float	Is the float jammed against the side of the tank? If not, see Cartridge Assembly. For KB Type - check spirit level
Water leaking continuously from the union nut	Is the union nut loose? Are the internal o-rings correctly seated? If leak persists after tightening, fit Spares Kit.

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CLEARING BLOCKAGES -

Blockages within the Keraflo valve should not occur where an SV/Filterball Type service valve has been fitted. These valves (supplied by Keraflo) incorporate a strainer which may easily be removed and cleaned by removing the access plug with the valve in the closed position.

Exceptionally poor water quality may cause debris within Aylesbury valves to collect behind the piston housing (4).

*Refer to drawings Ki016 (Plastic body) or Ki017 (Brass body)*

1. Isolate water at service valve.
2. For K, KA, KAX & KX Type valves rotate the float arm into a vertical position. For KB Type valves tilt actuator tube so as to lower float and buoy into the water. This releases any residual pressure.
3. Unscrew the large union nut (2).
4. Carefully withdraw the front section (valve body 11) from the tail (5). Try to keep the cartridge assembly (3) inside the valve body.
5. Clear all debris from the piston housing and tail. Additional particles may be flushed out (into a suitable container) by opening the service valve. Take care not to lose tail O-ring (8) and restrictor O-ring (7) where fitted.
6. If the cartridge comes out of the valve body, read the Fitting Spares Kit instructions.
7. Assembly is the reverse procedure. Before tightening union nut (2), ensure the half round lug on the ceramic disc locates in the corresponding cut out in the tail. Do not over tighten union nut (2).  
*Note: On plastic valves, hand tight + 1/8 of one turn only.*  
Re-check valve alignment via the spirit level.
8. If no blockages are found, yet the valve is passing insufficient water, refer to actuating mechanism section.

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### ACTUATING MECHANISM

*Refer to drawings Ki016 (Plastic body) or Ki017 (Brass body)*

Incorrect float arm alignment during initial installation or use in excessively turbulent water may cause premature wear to the actuating mechanism driving the small ceramic disc.

To check the condition of the actuator mechanism, detach the float arm assembly by removing the double R clip. Move the actuator lever (13 on plastic valves, or 14 on brass valves) side to side. Virtually no free play should exist. If there is more than 2mm of clearance a Spares Kit should be fitted. Please contact Keraflo.

### CARTRIDGE ASSEMBLY

If the valve has stuck in the closed position on more than one occasion (viz. failed to open) yet the actuating mechanism is OK, possibly a fault exists with the ceramic cartridge. (3)

A cartridge that continues to pass water, even though the actuator mechanism has been checked and found to be OK, may be at fault.

The cartridge is not a serviceable item. A Spares Kit should be fitted, please contact Keraflo.

**When specifying spare parts, please state valve type (eg: K, KA, KAX, KX or KB), valve body material (ABS or Brass), size (eg: 1") and - where possible - the IWO number which can be found on the identification tag or marked on the side of the valve body. If the IWO number is not known, please state approximate date of purchase.**

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### FITTING SPARES KITS - Refer to drawing Ki016 (Plastic body) or Ki017 (Brass body)

1. Isolate water at service valve.
2. For K, KA, KAX & KX Type valves rotate the float arm into a vertical position. For KB Type valves tilt actuator tube so as to lower float and buoy into the water. This releases any residual pressure.
3. Remove the double R clip, followed by the float/arm assembly.
4. Unscrew the large union nut (2).
5. Carefully withdraw the front section (valve body 11) from the tail (5). Try to keep the cartridge assembly (3) inside the valve body.
6. Once outside the tank, remove the cartridge assembly (3) from the body

### **For plastic bodies follow steps 7 to 15 (For brass bodies go to step 16)**

*Refer to drawings Ki016 & Ki018*

7. Pull out the actuator (10) from the valve body.
8. Remove the actuator lever (13) from the slot.
9. Fit the replacement actuator lever, ensuring it is free in the slot.
10. Hold the lever central and push in the new actuator, ensuring the **cut-out is towards the top**. Push to the limit and test the engagement by moving the lever side to side in the slot. The actuator should rotate.
11. Take the original cartridge and align slots of pressure plate (28) with the slots in the small ceramic disc (27). If fitting a new cartridge (with white large disc), the 2mm diameter body O-ring must be fitted in place of the original 2.5mm O-ring.
12. Rotate the small disc (27) and pressure plate (28), together in an anti-clockwise direction from the fully open position to the half shut position.
13. Insert the cartridge (3) into the valve body (11) noting:-
  - (i) The body O-ring (9) is in place.
  - (ii) Ensure lug on larger disc is aligned with cut-out in body.
  - (iii) To assist entry of the actuator prongs into the slots of the pressure plate (28) and small disc (27), gently move the actuator lever (13) side to side.

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14. Two sizes of tail O-ring (8) are supplied with each kit. Note the size of original O-Ring and replace with identical size.  
**WARNING : Fitting a tail O-Ring (8) in place of the Body O-Ring (9) will cause the valve to jam.**
15. Assembly is the reverse procedure. Before tightening union nut (2), ensure the half round lug on the ceramic disc locates in the corresponding cut out in the tail. Do not over tighten union nut (2).  
*Note: On plastic valves, hand tight + 1/8 of one turn only.*

**For brass bodies follow steps 16 to 22 (For plastic bodies go to step 15)**  
*Refer to drawings Ki017 & Ki018*

16. Pull the actuator assembly (10) complete with actuator disc from the valve body
17. Fit replacement actuator assembly complete with actuator disc ensuring it is located through slot in valve body.  
*Note.*  
2" HF, 2"½ SF and 3" RB ensure yellow actuator assembly is returned to the valve body it was removed from.
18. Test the engagement by moving the actuator disc from side to side within the slot, the actuator (10) should rotate.
19. Take the cartridge and ensure the slots in the pressure plate (28) are aligned with the slots in the small ceramic disc (27).
20. Ensure o-rings are fitted in their correct positions:-  
Body o-ring (9) – the thinner of the two larger o-rings supplied,  
Tail o-ring (8) – the thicker of the two larger o-rings supplied,  
Inner tail o-ring (7) – Only supplied with standard flow cartridges, this is the smallest o-ring supplied  
**WARNING : Fitting a tail O-Ring (8) in place of the Body O-Ring (9) will cause the valve to jam.**
21. Insert the cartridge (3) into the valve body (11) noting:-
- (iii) The body O-ring (9) is in place.
  - (iv) Ensure lug on larger disc is aligned with cut-out in body.
  - (iii) To assist entry of the actuator prongs into the slots of the pressure plate (28) and small disc (27), gently move the actuator disc side to side.
22. Assembly is the reverse procedure. Before tightening union nut (2), ensure the half round lug on the ceramic disc locates in the corresponding cut out in the tail. Do not over tighten the union nut (2).  
*Note: On plastic valves, hand tight + 1/8 of one turn only.*

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