

Shut off Valve and sensor maintenance



Service & inspection intervals:-

- A. Valve itself – at least once per year
- B. Sensors – withdraw, inspect and clean at least every two months, more often in a high growth environment

Valve (boat out of water)

1. Exercise gate opening and closing fully several times
2. Clean and marine grease threads at top of unit
3. Check for signs of corrosion – especially electrolytic
4. Generally clean outside of valve
5. With valve gate full open
 - a. Ensure that the gate is clear of full diameter of the valve; if not there is every chance of damaging the sensor when it is inserted or withdrawn
 - b. Clean any marine growth from inside of valve bore
6. Fully insert sensor and ensure that the end is flush with the hull exterior – there is thread and lock nuts to adjust at the top of the sensor if not.

Sensors – general

1. Inspect for any mechanical damage to sensor or cable
2. Clean any marine growth from sensor
3. Clean shaft, apply marine grease to shaft and o-rings

Sensor – speed

1. Remove pin and paddle-wheel, clean including inside of the holder and replace. A toothbrush is ideal. Spares of these are available from A+T.
2. If unit is working fine then no further attention is required
3. Unit can be tested by spinning paddle wheel and checking
4. An early symptom of potential failure is if water temperature is showing wildly high reading on instrument system – this is usually a sign of water ingress into the sensor.

Sensor - depth

1. End may have single coat (but no more) of anti-foul without affecting performance
2. This may be removed carefully with wet & dry (400 grit) taking care not to damage any of the underlying epoxy
3. If unit is working fine then no further attention is required

Providing these are well maintained, there is no reason why sensor and valves should not have a service life of 5-10 years. A+T keep all parts and spares for these in stock for immediate shipment.