

Innovation Briefing 10 - Fish Friendly Flap valves from ACE.

HDPE and stainless steel fish friendly flap valves from Aquatic Control Engineering.

What is it?

- A series of HDPE and stainless steel flap valves with integrated float operated 'pet flaps' which stay open longer to allow fish passage.
- Opening and closing time is dependant on positioning within the main flap and the length of the float arm. This is calculated by ACE, depending on the outfall position and tidal levels.
- The combination of stainless steel fixings and hinges, together with a light weight but strong HDPE body, make for a lightweight and robust product.
- Multiple 'pet flaps' can be installed within a single main flap to increase opportunity for fish passage.



Larger KRK 600-1500mm flap valve showing open 'pet flap' prior to installation.

What can we use it for?

- In place of traditional cast or ductile iron flap valves to improve fish passage.

What are the advantages?

- **Greatly increases fish and eel passage** compared to standard flap valves.
- No scrap value so **less attractive to thieves**.
- Relatively **light weight and easy to install**.
- **No greasing required, virtually maintenance free** apart from checking for debris.
- UV and impact resistant.
- Low head required to open the flap.

Where has it been used before?

- The product has been used around the country by the Don Rivers Trust, EA Fisheries in Southern Region, Newark IDB and various consulting engineers.

Where can I get further information?

Visit the web site at www.aquaticcontrol.co.uk, email them on info@aquaticcontrol.co.uk or telephone 01777 249080.

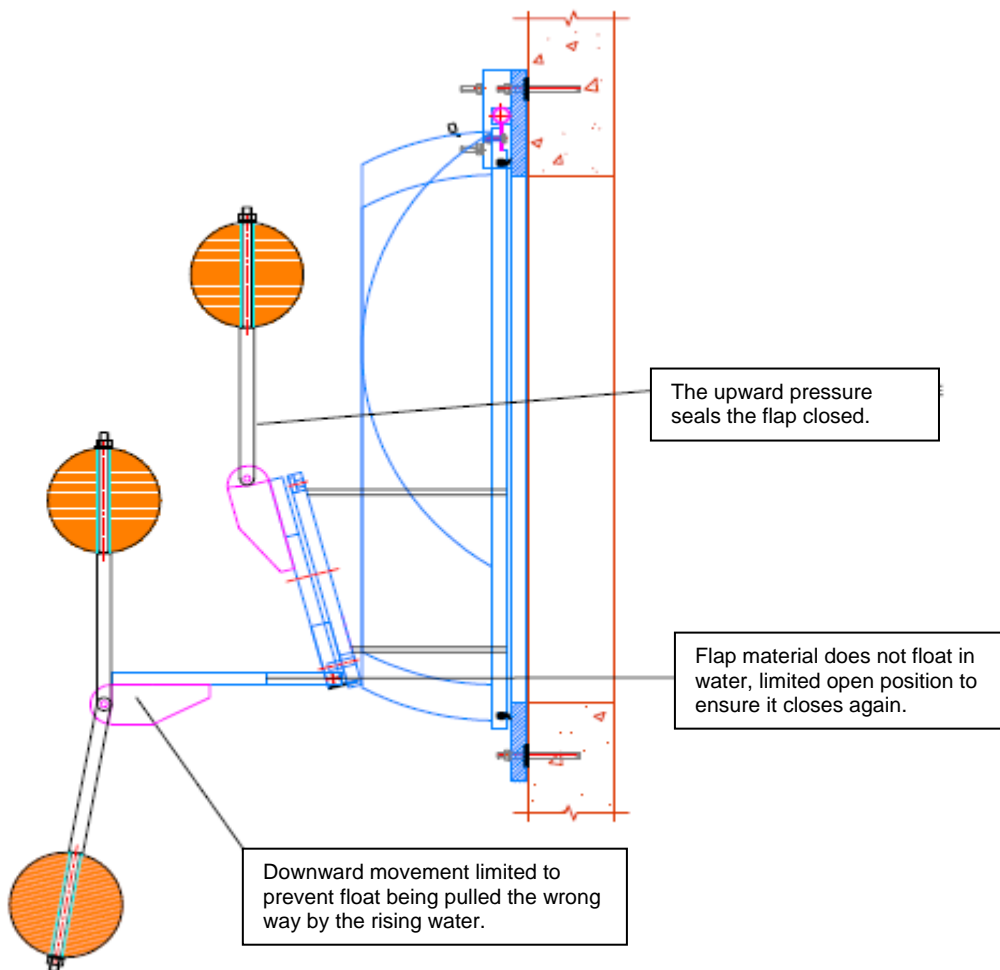
This note is for general awareness of product availability and does not constitute an official endorsement by the Environment Agency.



An installed flap valve showing the open 'pet flap' allowing some flow on the rising tide.



3D image of an arrangement for 3 smaller pet flaps in one larger flap.



Side view showing the operation of the float operated 'pet flap' within a larger flap valve.