

Catchment 08

Corporate Presentation

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Innovation and versatility in low maintenance water control equipment

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Presented on 17/18 September 2008



Aquatic Control Engineering Ltd

Company Presentation



Introduction

- Aquatic Control Engineering Ltd was formed in 1995
- Supply of Water Flow Control Devices e.g. Flapvalves, Tilting Weirs, Penstocks, Non Return Valves and Flow regulators
- Supply of specialised Waterway Maintenance Machinery
- Complimentary services such as Installation, Back-up, Contract Management



Features of Water Flow Control Equipment

- Low Maintenance Requirements
- Lightweight yet robust construction
- Easy to install- bolt on structures
- Reliable
- Cost effective
- Safe and easy to handle
- Easily Customised to suit special requirements
- Environmentally friendly- can be recycled, non-pollutant
- Low visual impact



Materials

KWT use a combination of:

- HDPE (High Density Polyethylene)
- Stainless Steel 316L
- Aluminium F22

The above materials are used because:

- Suitable for corrosive applications such as marine and chemical environments
- Easy to fabricate
- Low friction



KWT Flapvalves

Range includes flaps for gravity and pumped outfalls with a variety of mounting methods:

- Low heads required to operate due to density of HDPE
- No greasing required
- Hinges will not seize-low friction
- No grouting- bolt-on construction
- No not become brittle-UV stable
- Impact resistant





KWT Penstocks

A wide range of different penstocks for a variety of pressures:

- Low operation torques
- No grouting- bolt-on construction
- No adjustment wedges, self-adjusting seals
- No maintenance, greasing only required on modulating versions
- Wide range of user-friendly operation accessories



KWT Tilting Weirs

Various tilting weirs for ultimately variable level control:

- Low operation torques
- Easy to install- bolt-on construction
- No greasing- sealed gearboxes
- Full control of water levels
- Safe Operation
- Low visual impact- low build height






WAPRO Inline non-return products

Recently introduced range, from WaPro, Sweden


- Customised for universal fitting
- Low Maintenance
- Low Leakage
- High performance- low head required to open
- Less likely to block than other types
- Can be installed in any plane
- Various installation methods





Bespoke design case study- Greylake Sluice



- Designed to WS Atkins Specification
- Two tilting weirs, 4m x 3m, on the King Sedgemoor Drain, Somerset
- Easy to install- bolt-on construction
- No greasing- sealed gearboxes
- Full control of water levels
- Safe Operation
- Low visual impact- half the height of the existing sluices



Bespoke design case study- Locks Mill sluice



- Existing timber sluices no-longer safe for use
- Penstocks used for emergency flood relief from Spalding Town Centre
- Customer required low maintenance, reliable sluices

..completed

- Sluices designed in conjunction with EA design team
- Penstocks require no greasing or regular maintenance
- Penstocks will not seize due to non-metal-to-metal seal/guide design



Other products

Other products include:

- Floating Units- Automatic regulation controlled by floats
- Stoplogs- Aluminium stoplogs for isolation- easier and safer to handle than traditional materials
- Pre-cast structures- tilting weirs fitted inside concrete units for ease of installation
- Wind-powered pump assemblies- Pre-fabricated wind pump, fitted to a pre-cast concrete base.
- PTO Driven, trailer mounting dewatering pumps





Waterway Maintenance products

Other products include:

- Weed cutting boats
- Weed harvesters- for cutting and collecting
- Tree-grip cutters, for safely removing trees and branches
- The Hooby restricted access ditch clearer
- The Motrac Range- self propelled, high output flailing machines
- Bespoke machinery for various waterway maintenance tasks







Any questions?....

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