

OVERFLOWS

KWT® Weir unit type: KSU

Application

KWT tilting weirs are very varied and are mainly used in surface and process water systems. The KSU is a tilting weir fully enclosed in pre-cast concrete chamber, suitable for burial underground or for use in vandal-prone areas. For safety reasons also used in city area's.

Operation

The KSU was created in close cooperation with a concrete manufacturer and is used to pen water upstream at the desired level. The KSU is a unique concept in that it is a fully functional tilting weir incorporated into a pre-cast concrete chamber. The chain drives are enclosed within the walls of the KSU, making them inaccessible to vandals. Also, the KSU can be buried underground and therefore concealed from the public. The design of the chain drive is also resistant to debris, and therefore has a long design life. Also in nature areas is it a product that does not attract attention.

The KSU is ideal for quick installation, as only a concrete bed is required to allow the unit to be positioned. The unit is sealed to this bed using a mastic-type sealant, and is held in position by back-filling the area.

Various operation types are available, whether it is manually driven using a key or Handwheel, or electrically using an actuator, a DC motor with batteries or mains power.

Benefits

Integrated weir and concrete pit.

No protruding rack bars.

No horizontal contamination.

Less prone to vandalism.

Maintenance friendly.

Moving parts completely screened off.



Specifications

Dimensions

Overflow width: 500 mm to 3,000 mm

Overflow height: 100 mm - 150 mm

Operation method: Manual or through propulsion

Operation point: KWT connection/manual

Different sizes and versions on request.

Materials

Chain drive: SS316

Weir valve: SS304 or SS316

Sealing: EPDM seal

Concrete: C35/45, environmental class XA3

Other materials on request.



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