



Penstock KD 05.1/05.2



**Danish Wastewater
Equipment**

Penstock KD 05.1/05.2

Penstock is available in several sizes depending on the customers's needs.

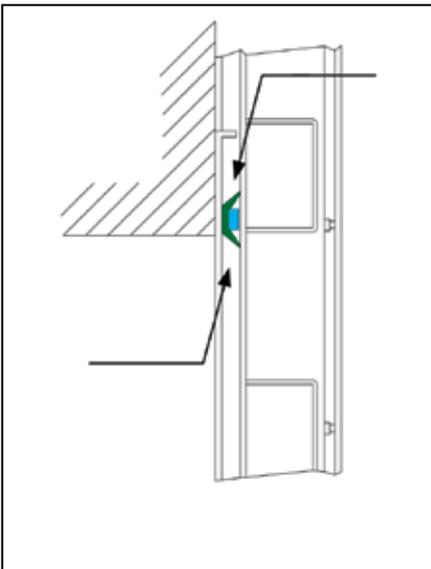
The Penstock is made of stainless steel and after working it is fully pickled to ensure optimum durability.

The Penstock is of a robust and simple construction ensuring limited maintenance and low running costs.

The Penstock principle

The gate is operated by means of a handle or a gear motor. By manual as well as automatic activation of the spindle, the gate plate will be lifted or lowered. The location of the gate plate with respect to the seal is controlled by four PEHD guide rails.

These four guide rails help minimize the seal pressure and thus prolong the life of the seal.



Seal

The seal has been specially designed by Danish Wastewater Equipment A/S for use in a Penstock. Its unique design makes the gate tight in both directions of flow.

The seal is made of EPDM rubber featuring great resistance to the aggressive substances that may be present in waste water.

Penstock KD 05.1/05.2 is suited for most shut-off jobs, however, a scissors gate KD 05.5 should be used when 100% tightness is required.

Design

The Penstocks are dimensioned for a water pressure of 5mVS as standard.

KD 05.1 is for installation in channels, KD 05.2 is for wall installation.

Operated method for Penstocks:

- Hand wheel
- Crank
- Gear motor (AUMA)
- Pneumatic or hydraulic cylinder

Operation and support bearing is mounted on a console. Console for KD 05.1 is as standard, mounted directly on the frame. KD 05.2 has a various options of mounting positions, depending on the distance from hole to position of operation:

- Console mounted directly on the frame (short distance)
- Console mounted on a separate frame (long distance)
- Wall bracket (AUMA)
- Straight column (through floor/ceiling)

By large dimensions the Penstock can be equipped with a Spiral Bevel gearbox and two spindle arrangements.

As standard the Penstock is made in AISI 304, and fully pickled after production to ensure optimum durability. If an even better corrosion resistance is required, we can supply Penstocks made of acid-proof steel AISI 316 or SMO steel.



Automatic operation by AUMA gear motor.



The gate plate is guided by four PEHD rails, which minimize the weir of sealing.



Manual operation existing of: Spiral gearbox and two spindles.

Following form/diagram can be used
for enquiring/ordering

Material: _____

A: _____ mm (Width)

B: _____ mm (Height)

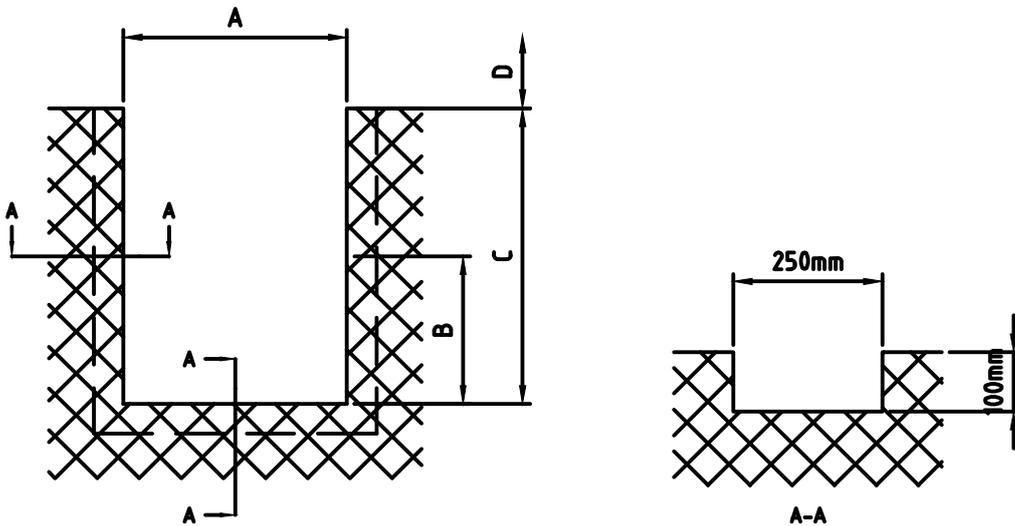
C: _____ mm (Concrete level)

D: _____ mm (Operation)

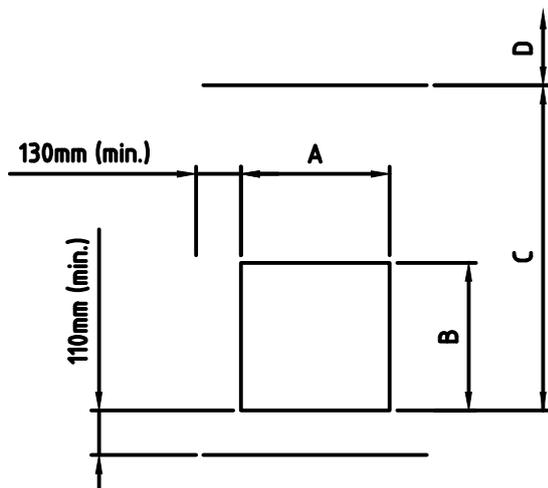
Operation:

- Hand wheel
- Crank
- Cylindre
- Gear motor (AUMA)
- Further details:

**Penstock model KD 05.1
For installation in channel**



**Penstock model KD 05.2
For installation in wall**



Console model:

- Mounted directly on frame
- Seperate frame mounted on wall
- Wall console (AUMA)
- Straight column

