

Technical catalogue

Sluice gates KOAS – KSL – KSS - KSV



30 years of experience in watercontrol engineering



Chapter summary

KWT Sluice Gates have a wide scope of deployment like surface water, process water and sewer applications. Its purpose is to prevent the flow of water till a pre-defined maximum level (flow control) or for a given time span (maintenance).

The **KOAS** Channel penstock is a spindle driven pull-up weir; the water will flow underneath the moving plate. It can be wall mounted, channel mounted or mounted in a rebate or recess filled up with concrete. KOAS are 3-sides water tight. The stop logs **KSL** are usually made of aluminium in a stainless steel frame and temporarily close off a channel for maintenance purposes. Logs can be hoisted using a dedicated hoisting beam, and stored in racks on site for later use. **KSS** is a manually operated insertion weir and suitable for dewatering a concrete pipe at a purification plant. The KSS can be easily

positioned with the related accessories in three different ways: integrated, cast in or built up. The seal works on— and off seating and is 3-sides closing. The KSS provides a simple and fast method to seal off a channel where an accurate flow or level regulation is not required.

KSV is a stopboard that is manufactured with a variable width. The advantage is that you can use it on different locations. The adjustment is done by a spindle or hydraulic system.

It is possible to produce this product in stainless steel and coated steel.

Group code	Dicription	Product code
342	Channel penstock	KOAS I KOAS II
	Stoplogs	KSL-alu KSL-hdpe
394	Insertion weir	KSS
	Adjustable stopboard	KSV



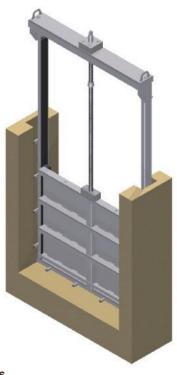
Channel penstock

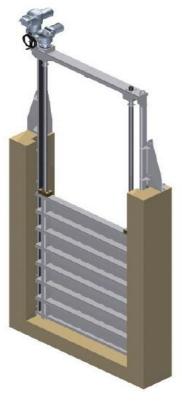
KOAS I & II

KWT Sluice Gates have a wide scope of deployment like surface water, process water and sewer applications. Its purpose is to prevent the flow of water till a pre-defined maximum level (flow control) or for a given time span (maintenance).

The **KOAS** Channel penstock is a spindle driven pull-up gate; the water will flow underneath the moving plate hence flushing the channel. It can be wall mounted ("o"), channel mounted ("i") or mounted in a rebate or recess filled up with concrete ("r"). KOAS are 3-sides water tight. The KWT Channel Penstock is available in a single spindle version (KOAS I) and in a double spindle version (KOAS II) The use of a double spindle depends on the width of the moving plate. Till incl 1500 mm a single spindle will suffice; wider penstocks will require a 2-spindle version.

Channel penstocks are made to order.





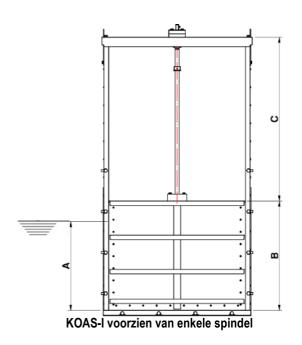
Specifications

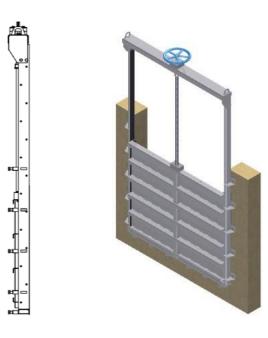
Backplate	AISI 316
Moving plate	AISI 316
Frame	AISI 316
Spindle	AISI 316
Nut	Bronze
Seal	EPDM
Fixingkit	Chemical anchors and bolts, stainless steel Grade 316, included
Comments	Channel penstocks are 3 sided sealed, topside is open



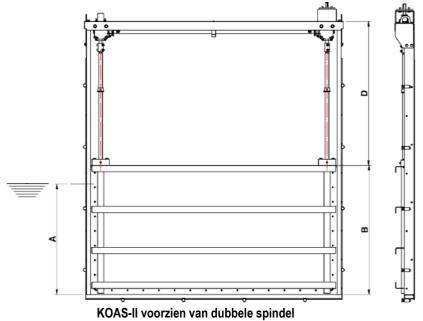
Channel penstock

KOAS I & II





A mm	B mm (min)	C mm (min)	D mm (min)
400	400	530	700
500	500	630	800
600	600	730	900
700	700	830	1000
800	800	930	1100
900	900	1030	1200
1000	1000	1130	1300
1100	1100	1230	1400
1200	1200	1330	1500
1300	1300	1430	1600
1400	1400	1530	1700
1500	1500	1630	1800





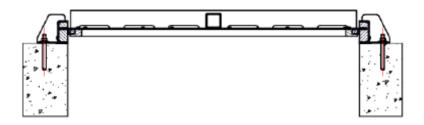
Channel penstock

KOAS I & II

Fitting positions possible:

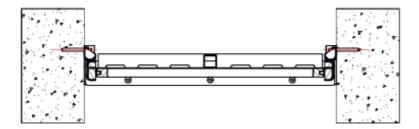
There are 3 ways (or combinations) of fixing the KOAS in your situation;

Wallmounted:



Rebate:

Channel mounted:



Because there is no standard with a KOAS, we ask you to **supply as with as much information to us as possible**. With the supplied information we can offer you the best solution!

- What medium it will be used in
- The situation you have
- What the function will be
- Sizes
- Hand operation or with an actuator

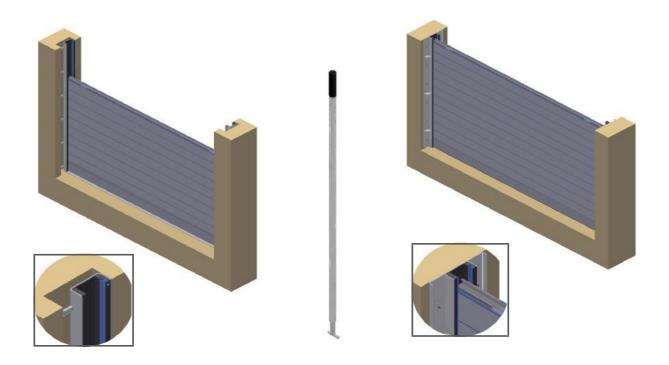


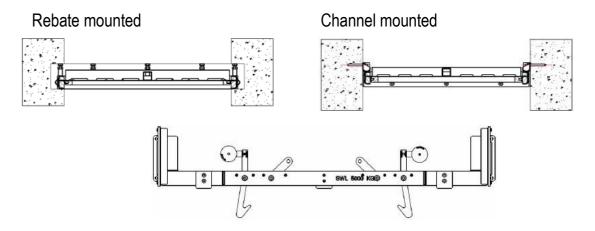
Stoplogs

KSL

The KSL stop logs are usually made of aluminium in a stainless steel frame and temporarily close off a channel for maintenance purposes. Logs can be hoisted using a dedicated hoisting beam, and stored in racks on site for later use.

KWT has experience in designing stop logs in stainless steel reinforced HDPE as well as coated steel for demanding applications like land drainage pumping stations.



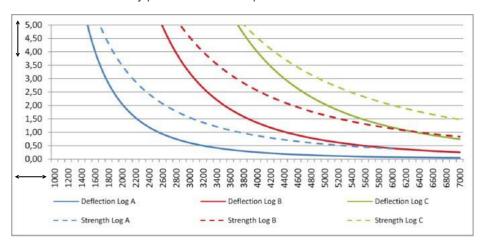


Liftingbeam for operation with a crane

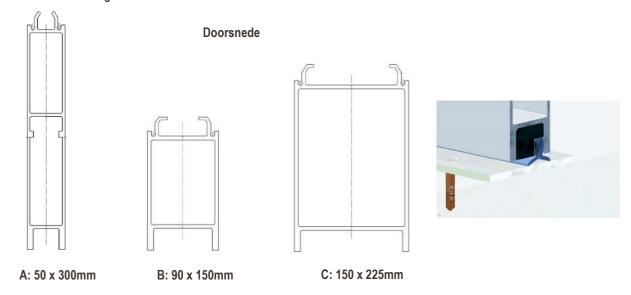


Stoplogs KSL

Deflection rate – Every profile has its own specifications



Cross sections of the logs available in aluminium



Specifications:

•	Materials:	Al MaSi O 5	Deflection	1.150	1
	iviatoriais.	ALINGOI 0,5	Delicotion	1.130	

Type A , 50x300		Type B , 90x150		Type C , 150x225	
weight kg/m	8,51	weight kg/m	7,26	weight kg/m	11,17
weightt /m2		weight /m2	48,42 kg/m2	weight /m2	49,66 kg/m2

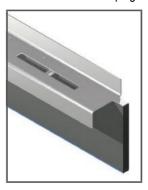


Schotbalken KSL-HDPE

The **KSL-HDPE** stop logs are made of prime grade High Density Poly Ethylene reinforced with stainless steel 316L ribs and embedded in a stainless steel frame in order to temporarily close off a channel for maintenance purposes. Logs can be hoisted using a dedicated hoisting beam, and stored in racks on site for later use.



AISI316 and HDPE stoplog



Bottom profile



Specifications:

Stoplogs Reinfocement Frame Seal	HDPE RVS 316L (WSt 1.4404) of 304 (WSt 1.4301) RVS 316L (WSt 1.4404) of 304 (WSt 1.4301) EPDM
Fixing	In concrete construction
Comments	Custom made



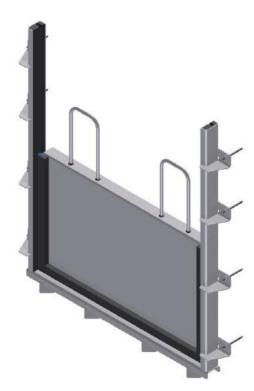
Insertion weir / stopboard

KSS

KSS is an manually operated insertion weir and suitable for dewatering a concrete pipe at a purification plant. The KSS can be easily positioned with the related accessories in three different ways: integrated, cast in or face mounted. The seal works on— and off seating and is 3-sides closing. The KSS provides a simple and fast method to seal off a channel where an accurate flow or level regulation is not required. The insertion weir is provided with a maximum surface area of $0.65 \, \text{m}^2$ in connection with its manageability. Hence, the size of the insertion weir is limited to $1000 \, \text{x} \, 1000 \, \text{mm}$. The KSS is fabricated according to specification.







Wall mounted

Technische specificaties:

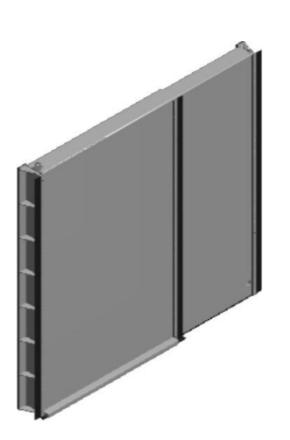
Handle	316L (WSt 1.4404) of 304 (WSt 1.4301)
Slide plate	316L (WSt 1.4404) of 304 (WSt 1.4301)
Reinforcement	316L (WSt 1.4404) of 304 (WSt 1.4301)
Frame	316L (WSt 1.4404) of 304 (WSt 1.4301)
Seal	EPDM
Fixing kit	
	Chemical anchors and bolts, stainless steel Grade 316, included
Comment	Other specifications on request

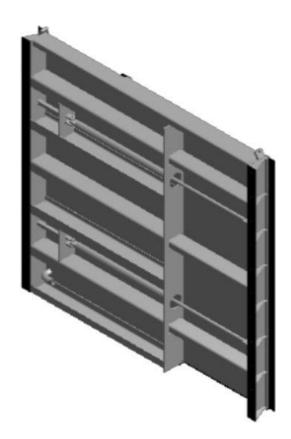


Adjustable stopboard

KSV

KSV is a stopboard that is manufactured with a variable width. The advantage is that you can use it on different locations. The adjustment is done by a spindle or hydraulic system. It is possible to produce this product in stainless steel and coated steel.





Specifications:

Stopboard	Coated steel or AISI 316L of 304 (WSt 1.4301)
Reinforcements	Coated steel or AISI 316L of 304 (WSt 1.4301)
Guides	Polyacetal (POM)
Seals	EPDM
Comments	Custom product