

Applications

KWT Penstocks are available in various forms and are used in surface, sewage and process water systems.

Operation

As well as the well-known KSA range (including the low pressure Penstock KSA-LD (3 MWC), the medium pressure Penstock KSA-MD (5 MWC) and the high pressure Penstock the KSA-HD (10 MWC)), KWT supply an inline penstock known as the KLSA.

This inline penstock is as-standard on/off seated and has been produced to be used in a pipeline system. The operating pressure of a maximum of 10 MWC is guaranteed as the penstock is tested to 20 MWC. This penstock can be operated manually or with an actuator.

The penstock is available as a P-model suitable for PVC (polyvinyl chloride) and HDPE (high-density polyethylene) connection and as an F-model with a PN10 flange connection as standard.

The KLSA is suitable for installation in aggressive media due to the material used. The HDPE and SS316L materials have a very high chemical resistance. The HDPE housing has been strengthened with SS316L and is suitable to be used both above the surface and underground. The moving plate is made of SS316L.

Benefits

Virtually maintenance free.

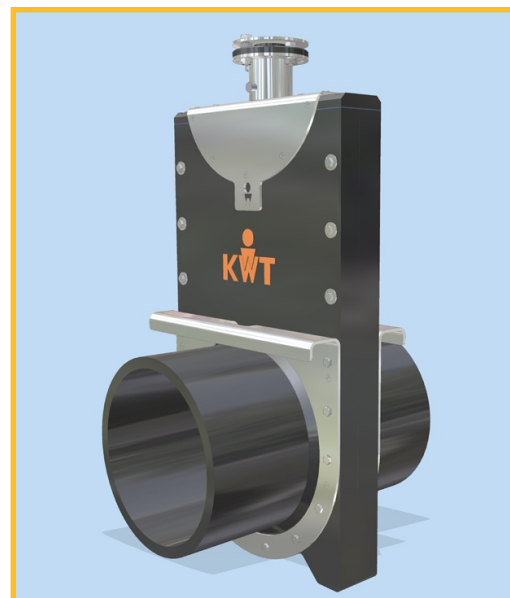
Easy to install.

Lightweight yet robust construction.

Can be used underground or aboveground.

Various operation accessories available.

UV/ Impact resistant.



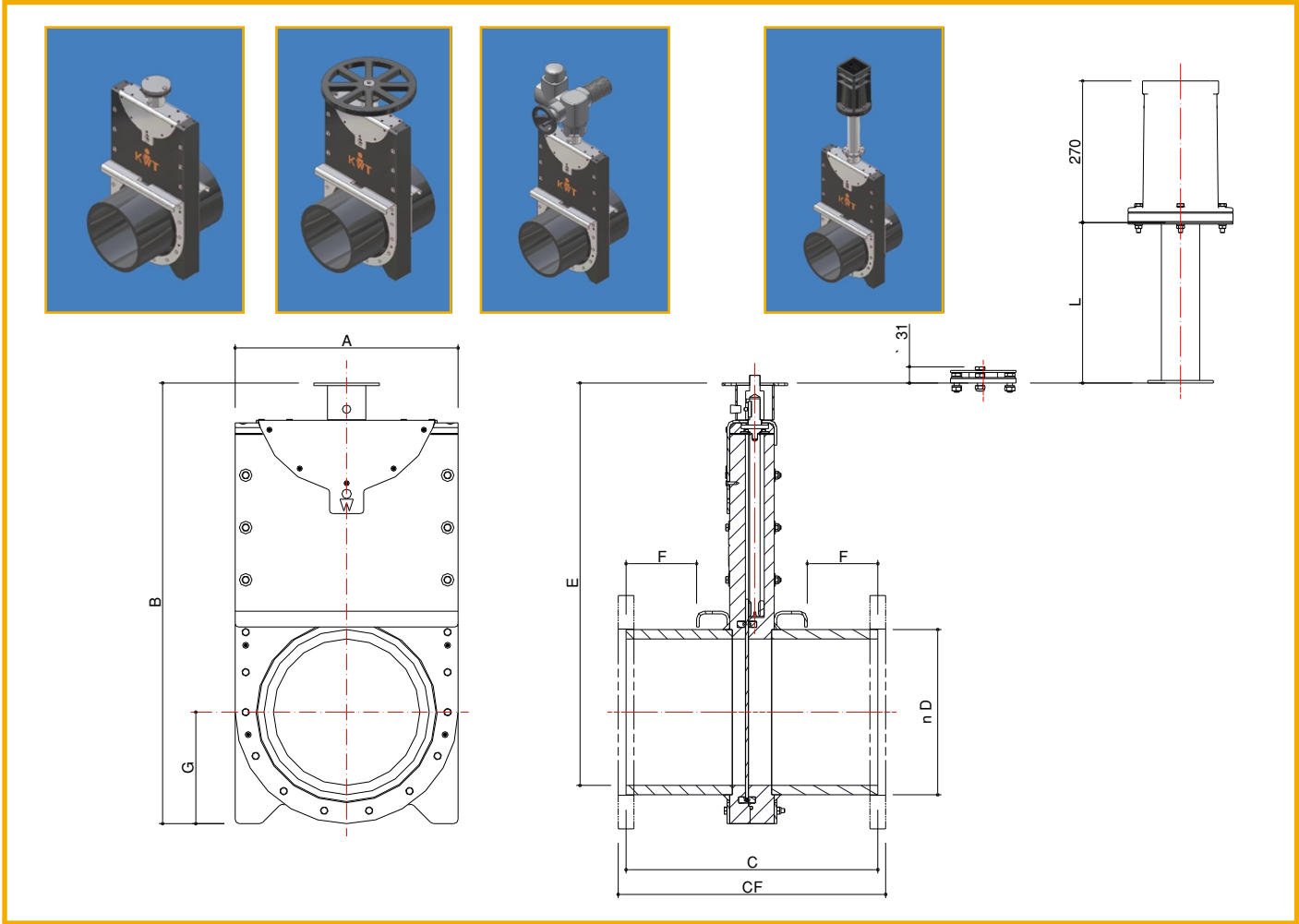
Specifications




Culvert:	Ø 100 mm to Ø 500 mm
Operating pressure:	10 MWC on/off seating as standard
Operation method:	Manual or actuated
Operation point:	KWT connection ("half moon")
Movement mechanism:	Non-rising spindle
Higher pressures and larger dimensions on request.	

Materials

Moving plate:	SS316L
Spindle:	SS316
Wire block:	POM
Bearing ring:	OLG
House:	HDPE
Seals:	EPDM

Other materials on request.



NW mm.	D mm.	A mm.	B mm.	C mm.	CF mm.	E mm.	F mm.	G mm.		 Nm.	 Kg
100	110	220	442	380	400	380	84	110	20	30	14
125	125	235	471	400	420	409	94	117,5	22	30	15
150	160	270	539	440	460	475	114	135	28	30	19
200	200	310	617	440	470	550	114	155	34	30	24
250	250	360	714	470	500	645	130	180	42	30	32
300	315	425	840	480	510	767	132	212,5	52	30	43
400	400	510	1005	610	640	927	199	255	65	30	64
500	500	610	1200	640	670	1117	214	305	83	30	90

Description for tenders

Inline penstock, type KLSA-R - P or F

Manufactured by: KWT Waterbeheersing
Materials: HDPE, SS316, OLG, EPDM and POM
Standard Culvert: Ø 100 mm to Ø 500 mm
Working pressure: 10 MWC Penstock, double retention.

The penstock is of the "guillotine" type and made of SS316L. The house has been produced in HDPE and sufficiently strengthened with SS316L to resist internal liquid pressures and/or any internal ground pressures. The penstock should be able to resist a testing pressure of 20 MWC that can be determined at the factory of the producer. The EPDM seals are installed in the house as is the OLG bearing. The SS 316 spindle is of the non-rising type. The SS metal sheet stock used to make the product is of SS316L quality.

