

# PENSTOCKS

**KWT® MEDIUM PRESSURE PENSTOCK**  
TYPE: KSA-MD 801-1500

## APPLICATION

Various penstocks are available in the KWT range for use in surface, sewer and process water systems. The KSA-MD 801-1500 can be produced for a range of sizes, available with circular and square openings.

## OPERATION

The KSA-MD is a tried and tested penstock type, as it has been a long-standing product supplied by KWT. The range has been recently extended to include a heavier duty penstock (KSA-HD), however the KSA-MD continues to be a very popular product for the majority of applications.

The penstock consists of a vertically sliding door that closes a round opening, moving within a stainless steel 316L frame with HDPE guides. The seal between the door and frame is achieved through an EPDM lip seal positioned in the moving plate that retains up to 5MwC of water pressure from both sides.

The KSA-MD 801-1500 penstocks are similar in design to the smaller models, however they have added features due to the more demanding duty, such as jacking bolts at the sides and additional mounting brackets for added strength.

The penstock is supplied with a non-rising spindle as standard, however on request the penstock can also be supplied with a rising spindle.

## BENEFITS

Circular, square, rectangular or ellipse openings available

Virtually no maintenance.

Easy to install.

Circular models available from stock.

Various mounting methods available, wall/pipe/flange mounted.



## SPECIFICATIONS

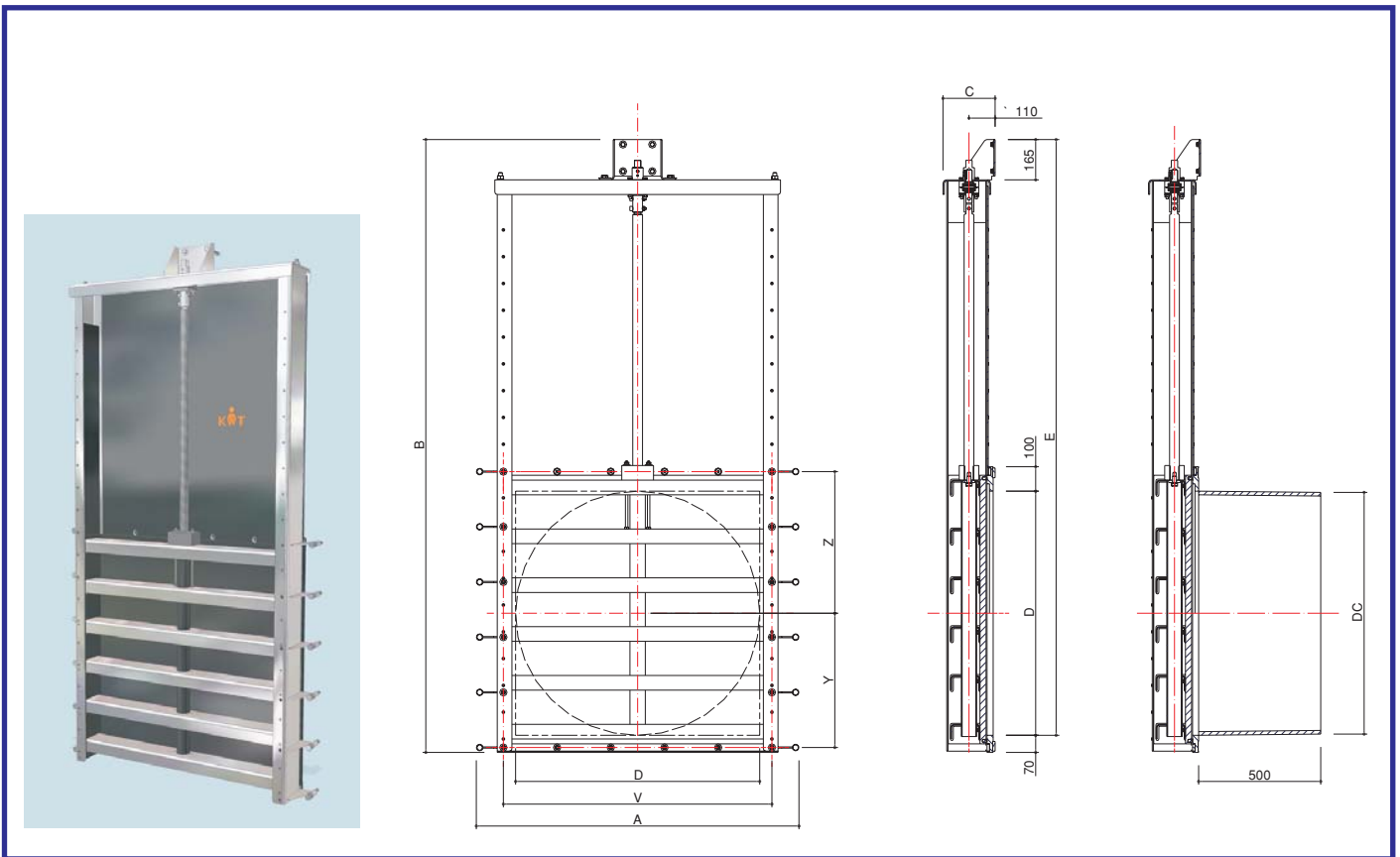
Pipe Diameter :	Ø 801mm upwards
Operating pressure:	5 MwC on/off seating as standard
Operation method:	Manual or through actuator
Operation point:	square 25 mm
Movement mechanism:	Non rising spindle
Higher pressures and larger dimensions on request	




## MATERIALS

Moving plate:	HDPE with SS316L stiffeners
Spindle:	SS 316
Spindle block:	POM
Bearing ring:	OLG
Back plate:	HDPE
Seals:	EPDM
Mounting material:	SS316

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NW mm.	Ø D mm.	BS DC	A mm.	B mm.	C mm.	E mm.	V mm.	Y mm.	Z		 Nm.	 Kg
	<b>801/1500</b>	±	<b>D +330</b>	<b>(2XD) +510</b>		<b>(2XD) +440</b>	<b>D +100</b>	<b>(0,5D)+50</b>	<b>(0,5D) +80</b>	<b>D+35)/6</b>		±
900	900	890	1230	2310	185	2240	1000	500	530	155	90	183
1000	1000	990	1330	2510	195	2440	1100	550	580	172	110	210
1250	1250	1240	1580	3010	205	2940	1350	675	705	214	170	252
1500	1500	1830	1830	3510	240	3440	1600	800	830	255	240	332



**Product Summary**

Penstock type KSA-MD-801-1500  
 Manufactured by: KWT Waterbeheersing  
 Materials: HDPE, RVS 316 , EPDM and POM  
 Standard culvert : Ø 801 mm t/m Ø 1500 mm  
 Working pressure: 5 MwC on/off seating



The penstock is supplied with a non-rising spindle as standard. It has an OLG spindle bearing and an HDPE back plate. It has an HDPE moving plate provided with RVS316L stiffening with a POM spindle block. The mounting material and the spindle are made of SS316. The seal between the moving and back plate consists of an integral EPDM lip seal.