

S-SERIES

Fabricated Stainless Steel Penstock



Up to 30% lighter

Lower cost to actuate

Easier to install

Lower carbon footprint

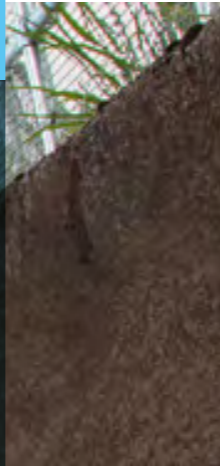


INTRODUCING THE

S-SERIES

The S-Series Penstock is the latest addition to the Ham Baker Penstock portfolio designed and built at the Group's HQ in Stoke on Trent.

The range offers countless benefits to end-users and their contractors and it matches and exceeds water industry specifications, including British Standard, AWWA and WIMES.



Features

- 30% lighter than traditional steel fabricated penstocks.
- Quicker lead times from quote to order to delivery through a new in-house design tool.
- S-Series penstock incorporates a standardised sealing system that ensures the integrity and performance of the penstock.
- Less material used to construct the S-Series results in a lighter door.
 - Requires less energy to operate, and for actuated penstocks the capability to downsize the actuator and therefore overall cost to install.
 - Less material and manufacturing processes result in less energy needed to build - better carbon footprint.
- Easier and quicker to install, reducing workforce and plant time on site.
- Low maintenance - sealing system easily replaced in situ.
- Off the shelf - Wide variety of standard S-Series penstocks available for a Fasttrack option.
- Larger sizes up to 2m aperture available on request.
- A resilient bottom seal provides flush bottom closure.



Operating Specification

Heads

ON-6M .
OFF - 6M.
(larger heads available).

Aperture

150mm - 1000mm Square.
(larger apertures available).

Mounting

Wall face Channel side Channel rebate.

Operation

Manual, Electric Actuator, Hydraulic Actuator or a combination with emergency backup.

Material

Stainless Steel BSEN 10088 .
grade 1.4301 (304).
grade 1.4401 (316)

Testing

FAT Testing Type Tested FEA Verified.

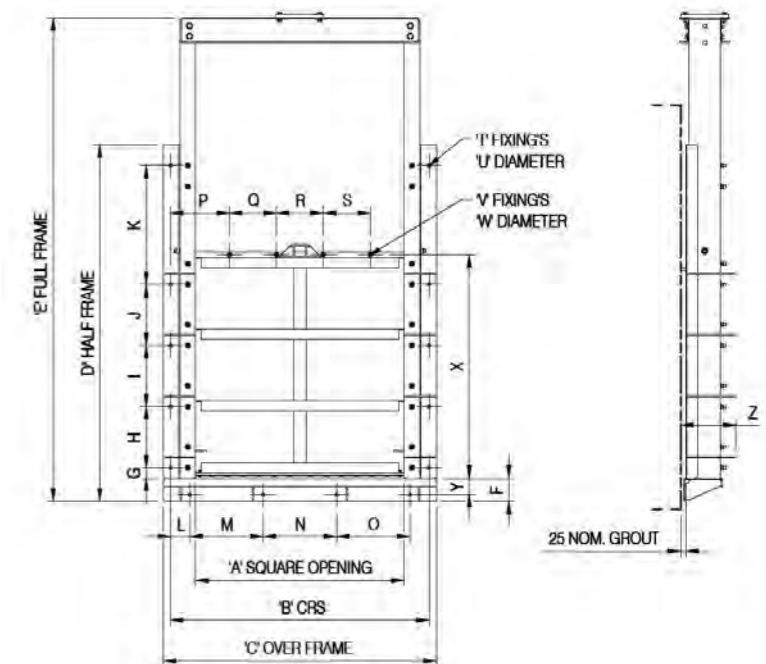
Welding

BS EN 1090 .

DIMENSIONS



Description Of Dimensions	DIM (mm)																				
Sq. Opening		A	150	200	225	250	300	400	450	500	600	700	800	900	1000						
Ctr Holes Over The Width	B	300	410	435	460	510	610	660	740	840	940	1040	1140	1240							
Width Over Frame	C	405	455	480	505	555	655	705	810	910	1010	1110	1210	1310							
Height Of Half Frame	D	415	490	527	575	590	810	885	960	1210	1310	1410	1560	1820							
Height Of Full Frame	E	550	650	700	750	790	1060	1210	1310	1470	1670	1920	2120	2320							
Invert Depth	F	40	40	40	40	40	110	110	110	110	110	110	110	110							
Invert To 1st Hole	G	60	60	60	60	50	50	50	50	50	50	50	50	50							
1st To 2nd Hole	H	165	240	278	315	350	280	330	380	240	290	340	260	293							
2nd To 3rd Hole	I	-	-	-	-	-	320	345	370	240	290	340	260	293							
3rd To 4th Hole	J	-	-	-	-	-	-	-	-	420	470	450	260	293							
4th To 5th Hole	K	-	-	-	-	-	-	-	-	-	-	-	510	570							
Frame Side To 1st Invert Hole	L	-	-	-	-	305	330	370	255	272	92	92	92								
1st To 2nd Invert Hole	M	-	-	-	-	-	-	-	-	400	467	286	318	352							
2nd To 3rd Invert Hole	N	-	-	-	-	-	-	-	-	-	-	286	318	352							
3rd To 4th Invert Hole	O	-	-	-	-	-	-	-	-	-	-	286	318	352							
Side Hole To 1st Soffit Hole	P	-	-	-	-	-	-	-	-	-	183	233	283								
1st To 2nd Soffit Hole	Q	-	-	-	-	-	-	-	-	-	-	255	255	225							
2nd To 3rd Soffit Hole	R	-	-	-	-	-	-	-	-	-	-	255	255	225							
3rd To 4th Soffit Hole	S	-	-	-	-	-	-	-	-	-	-	255	255	225							
No. Of Fixing Holes	T	4	4	4	4	4	7	7	7	10	10	12	14	14							
Dia Of Fixing Holes	U	15	15	15	15	15	15	15	15	15	15	15	15	15							
No. Of Soffit Fixing Holes	V	-	-	-	-	-	-	-	-	-	4	4	4								
Dia Of Soffit Fixing Holes	W	-	-	-	-	-	-	-	-	-	11	11	11								
Invert To Soffit Fixing Holes	X	-	-	-	-	-	-	-	-	-	872	972	1072								
Invert To Invert Fixing Holes	Y	-	-	-	-	80	80	80	80	80	80	80	80								
Frame Depth (Incl. 25mm Grout)	Z	160	160	160	160	160	160	205	240	240	265	265	265								
Weight (Kg)		-	29	35	38	41	47	64	69	93	114	127	185	203	230						





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