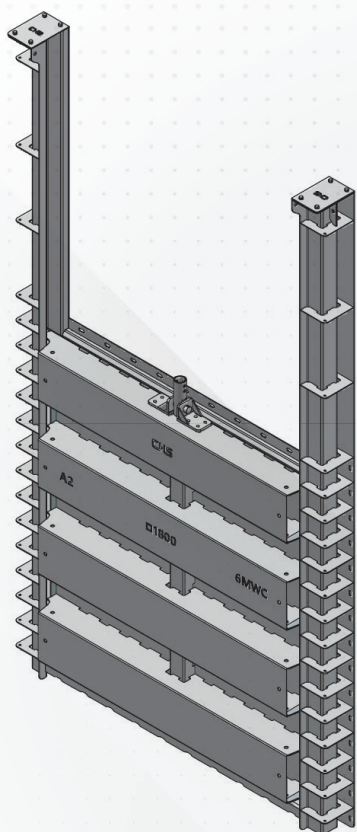


M1203/F2A

STAINLESS STEEL PENSTOCK 1,500MM TO 2,500MM (4 SIDES SEAL)



PRODUCT INFO

CHS M1203/F2A stainless steel penstock is square or rectangular with resilient sealing on 4 sides of the gate. They are bi-directional from 1,500WX1,500H up to and including 2,500W X 2,500H. The penstock is with rising stem and closed/ opened frame, and are designed for wall mounted.

All penstock in the comprehensive product range feature a low leakage rate and a reliable operation.

TECHNICAL SPECIFICATION

MODEL	: M1203/F2A
SIZE	: 1,500mm TO 2,500mm
OPENING	: Square or Rectangular
MEDIUM	: Water and Sewage
STEM TYPE	: Non-rising stem or rising stem
FRAME TYPE	: Opened Frame or Closed Frame
WORKING PRESSURE	: 6 MWC TO 30 MWC
SEALING	: 4 sides
DESIGN STANDARD	: BS 7775/ AWWA C561
LEAKAGE	: leakage rate lower than maximum allowable defined by BS 7775/ AWWA C561

Material

FRAME GUIDE	: Mild steel S275JR, Stainless Steel 304/ 304L or 316/ 316L
GATE	: Mild steel, Stainless Steel 304/ 304L or 316/ 316L
YOKE	: Mild steel, Stainless Steel 304/ 304L or 316/ 316L
SPINDLE	: Stainless Steel 304/ 304L or 316/ 316L
SPINDLE NUT	: Bronze
GUIDE PE	: High Molecular Weight Polyethylene (HMWPE-500)
LATERAL SEAL	: EPDM
LATERAL RETAINER PLATE	: Stainless Steel 304/ 304L or 316/ 316L
BOTTOM SEAL	: EPDM
BOTTOM RETAINER PLATE	: Stainless Steel 304/ 304L or 316/ 316L
FASTENERS	: Stainless Steel 304 or 316
MOUNTING TYPE	: Wall mounted

Options

Applicable

: Double Spindle Type

:  Water Treatment  Sewage Irrigation  Flood Control

DESIGN FEATURES

Penstock design

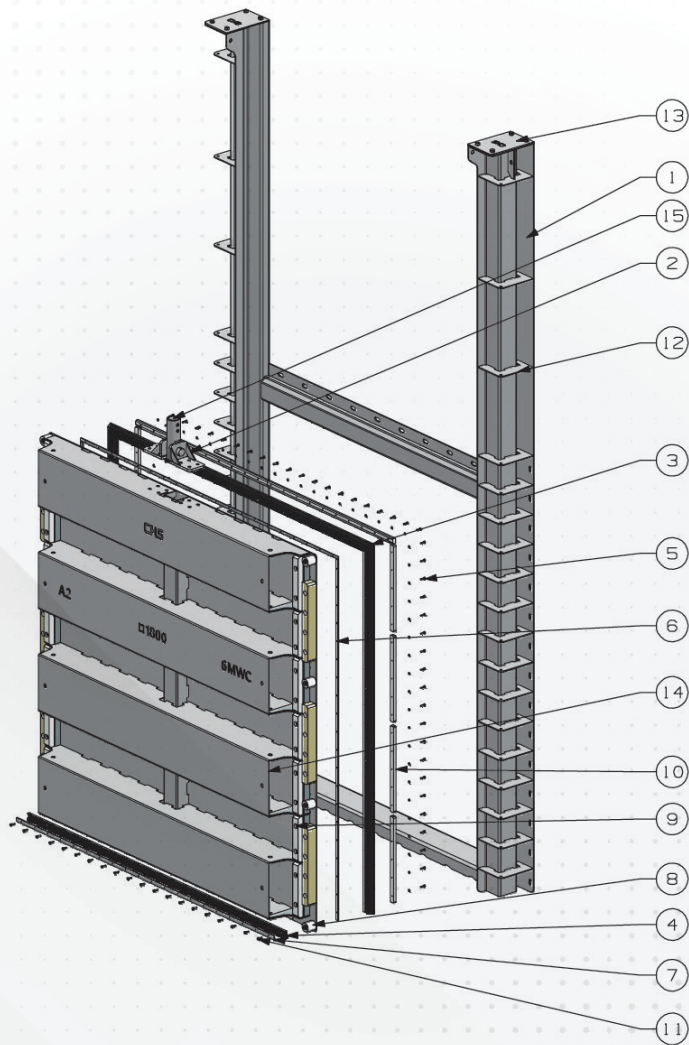
- : Allows for rising or non-rising stem configuration and exchangeable easily vice versa by changed of minimum parts.
- : Suitable for various frame invert mounting.
- : Low friction by sliding gate on HMWPE-500 and enable penstock has lower torque.
- : Robust frame guide and gate design.
- : Lower leakage rate than max. allowable in BS7775.
- : No need site adjustment on gate sealing.

Seal design

- : Bidirectional self adjusting seal to control flow in either direction.
- : Self-adjusting lip EPDM seal design, without wedges.



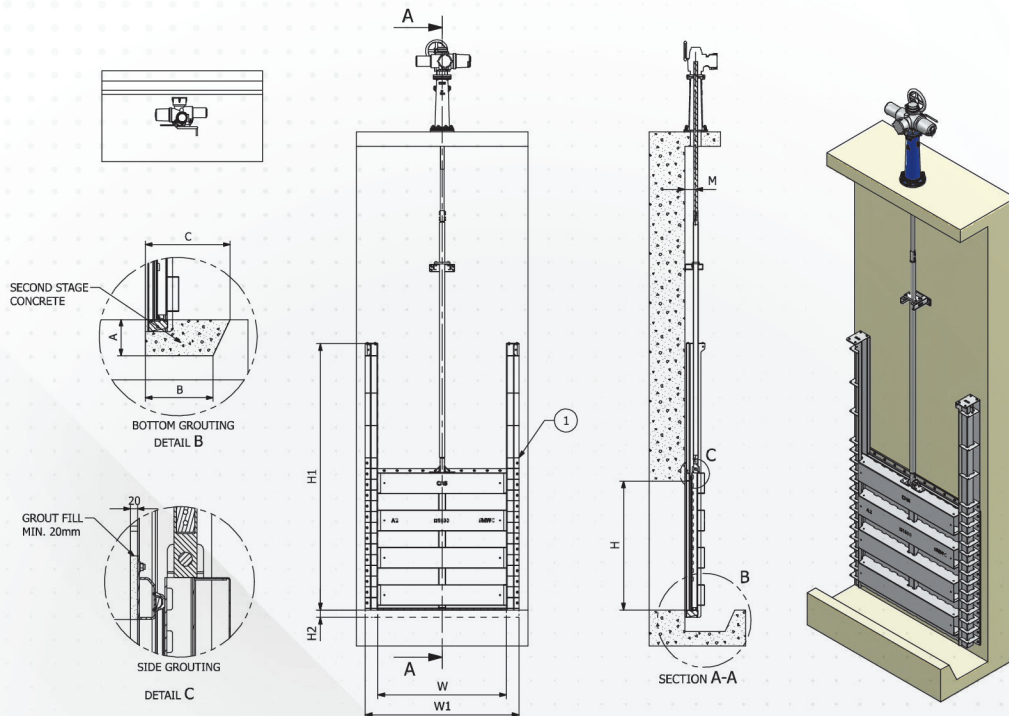
MATERIAL OF CONSTRUCTION



NO	ITEM NAME	MATERIAL	QTY
1	BODY FRAME ASSY	MILD STEEL / SS304/ SS316	1
2	STEM NUT BRACKET ASSY	MILD STEEL/ SS304/ SS316	1
3	DAMPER RUBBER SEAL	EPDM	2
4	BOTTOM RUBBER SEAL	EPDM	1
5	SOCKET CAP SCREW	STAINLESS STEEL 304/ 316	N
6	LATERAL RETAINER PLATE	STAINLESS STEEL 304/ 316	2
7	BOTTOM RETAINER PLATE	STAINLESS STEEL 304/ 316	1
8	GATE BEARING	HMWPE 500	N
9	FACE SLIDE	HMWPE 500	N
10	RUBBER FACE SLIDE	HMWPE 500	N
11	HEX BOLT	STAINLESS STEEL 304/ 316	N
12	BODY RIB	STAINLESS STEEL 304/ 316	N
13	BODY FRAME STOPPER PLATE	STAINLESS STEEL 304/ 316	2
14	GATE ASSY	MILD STEEL / SS304/ SS316	1
15	RS MALE FORK	MILD STEEL / SS304/ SS316	1

MOUNTING OPTION

Option #1: Embedded



Opening Width, W	Opening Height, H	W1	H1 Min	H2 Min	M*	Gasket	Min. Recess A X B X C
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
1,500	1,500	1,850	3,115	100	153	DG 2.1	300 X 560 X 700
1,550	1,550	1,900	3,215	100	153	DG 2.1	300 X 560 X 700
1,600	1,600	1,950	3,315	100	153	DG 2.1	300 X 560 X 700
1,650	1,650	2,000	3,415	100	153	DG 2.1	300 X 560 X 700
1,700	1,700	2,050	3,515	100	153	DG 2.1	300 X 560 X 700
1,750	1,750	2,100	3,615	100	153	DG 2.1	300 X 560 X 700
1,800	1,800	2,150	3,715	100	153	DG 2.1	300 X 560 X 700
1,850	1,850	2,200	3,815	100	153	DG 2.1	300 X 560 X 700
1,900	1,900	2,250	3,915	100	153	DG 2.1	300 X 560 X 700
1,950	1,950	2,300	4,015	100	153	DG 2.1	300 X 560 X 700
2,000	2,000	2,350	4,115	100	153	DG 2.1	300 X 560 X 700
2,050	2,050	2,400	4,215	100	153	DG 2.1	300 X 560 X 700
2,100	2,100	2,450	4,315	100	153	DG 2.1	300 X 560 X 700
2,150	2,150	2,500	4,415	100	153	DG 2.1	300 X 560 X 700
2,200	2,200	2,550	4,515	100	153	DG 2.1	300 X 560 X 700
2,250	2,250	2,600	4,615	100	153	DG 2.1	300 X 560 X 700
2,300	2,300	2,650	4,715	100	153	DG 2.1	300 X 560 X 700
2,350	2,350	2,700	4,815	100	153	DG 2.1	300 X 560 X 700
2,400	2,400	2,750	4,915	100	153	DG 2.1	300 X 560 X 700
2,450	2,450	2,800	5,015	100	153	DG 2.1	300 X 560 X 700
2,500	2,500	2,850	5,115	100	153	DG 2.1	300 X 560 X 700

NOTE:

CHS could custom made any size of penstock. Please contact CHS factory for further information.
Above dimensions are for reference only. Do not use for installation or submittal purposes.



The designs, materials and specifications shown are subject to change without notice due to our continuing program of products development.
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CHS M1203-F2A AB

PENSTOCK INQUIRIES FORM

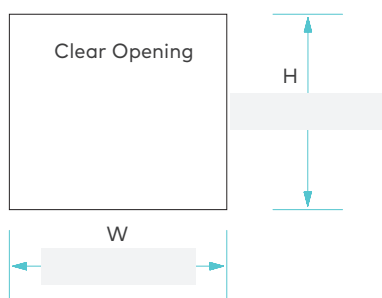
Company: Date:

Mobile: Tel:

Email: Name:

PENSTOCK APRETURE SIZE

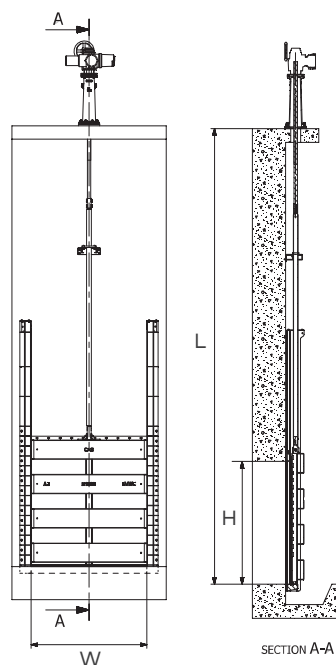
Units in: ☐ mm
☐ cm



Qty:

Floor - Invert Level
L:

PENSTOCK DESIGN REQUIREMENT



MATERIAL

- ☐ Stainless Steel SS304
- ☐ Stainless Steel SS316
- ☐ Cast Iron
- ☐ Ductile Iron
- ☐ Carbon Steel

FRAME MOUNTING

- ☐ Embedded in Concrete
- ☐ Face Mounted on Concrete

INVERT MOUNTING

- ☐ Embedded in Concrete
- ☐ Face Mounted on Concrete

SPINDLE

- ☐ Rising Spindle
- ☐ Non-rising Spindle

FRAME TYPE

- ☐ Open Frame
- ☐ Closed Frame

HEADSTOCK OPTION

