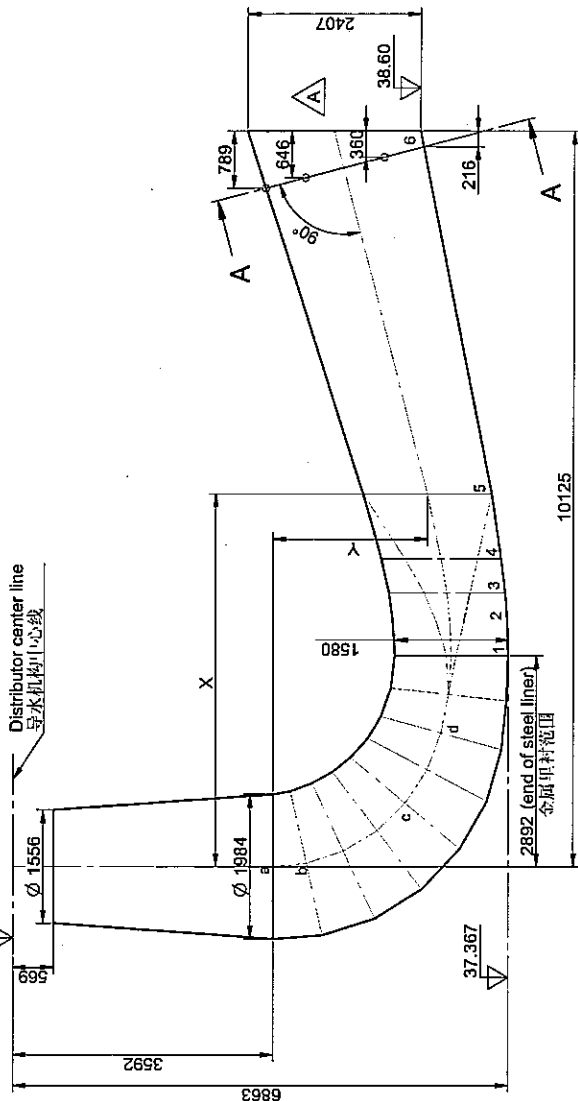
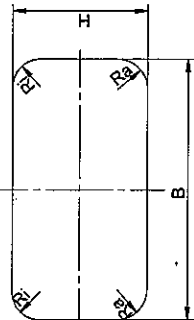


Section 截面	H [mm]	B [mm]	Re [mm]	Ri [mm]	X [mm]	Y [mm]
a	1984	1984	992	992	0	0
b	2026	2068	1013	1013	46	-461
c	1972	2488	986	986	870	-1839
d	1740	2891	870	870	1831	-2337
1	1580	3003	722	722	2892	-2481
2	1595	3003	614	614	3330	-2463
3	1618	3003	490	490	3753	-2420
4	1665	3003	327	327	4221	-2336
5	1788	3003	0	0	5111	-2143
6	2407	3003	0	0	10125	-835

△B



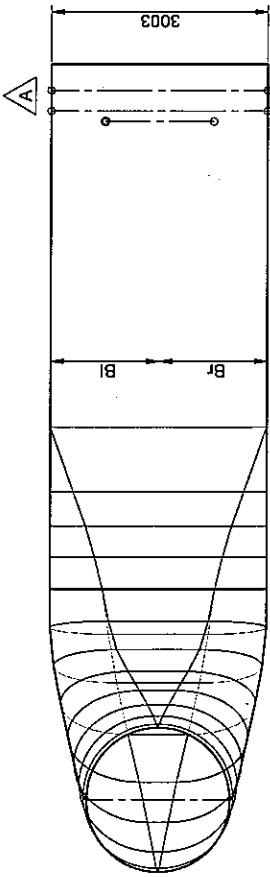
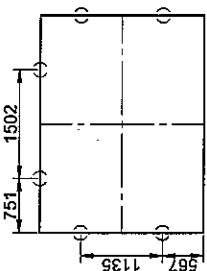
Section 截面 (Sketch 示意图)



SECTION A-A

1:50

Measuring Section 测量截面



CLIENT: **VIETNAM ELECTRICITY EVN** **HYDRO POWER PROJECT MANAGEMENT BOARD No.7**

AN KHE HYDROPOWER PLANT
AN KHE-KA NAK HYDROPOWER PROJECT

SUPPLIER: **DONGFANG ELECTRIC CORPORATION**

DRAWING No. OF CLIENT: **2697-AK08-CK-VSS-01** Rev.

Contract no. **AN KHE-KA NAK** 19483-19484

Scale of map: **1:50** Mass change: **AK (1/1)**

Draft Tube Neatline (Prototype)

Drawing no. **2422-009114** B 1

VOITH SIEMENS HYDRO POWER GENERATION

Project ID: **00293747**

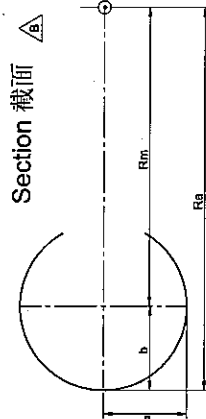
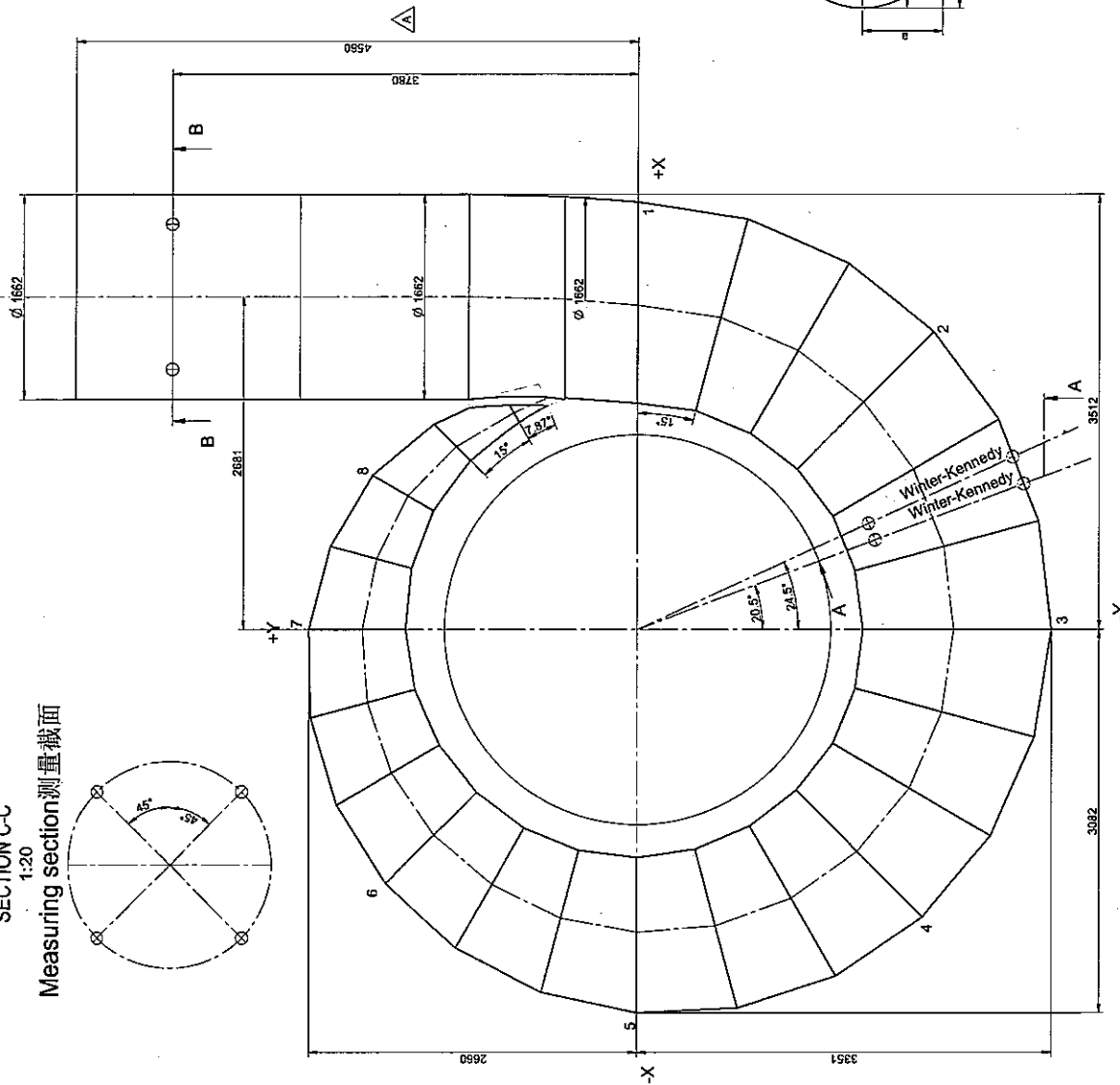
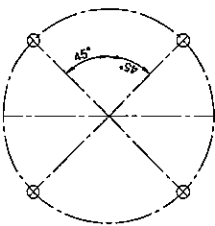
Rev.	Description	Date	By	Check	Appr.
1	Initial	2007-01-02	SYO		
2	Revised	2008-06-11	SHN		
3	Revised	2008-06-11	SHN		
4	Revised	2008-06-11	SHN		
5	Revised	2008-06-11	SHN		
6	Revised	2008-06-11	SHN		
7	Revised	2008-06-11	SHN		
8	Revised	2008-06-11	SHN		
9	Revised	2008-06-11	SHN		
10	Revised	2008-06-11	SHN		

Rev.	Description	Date	By	Check	Appr.
1	Initial	2007-01-02	SYO		
2	Revised	2008-06-11	SHN		
3	Revised	2008-06-11	SHN		
4	Revised	2008-06-11	SHN		
5	Revised	2008-06-11	SHN		
6	Revised	2008-06-11	SHN		
7	Revised	2008-06-11	SHN		
8	Revised	2008-06-11	SHN		
9	Revised	2008-06-11	SHN		
10	Revised	2008-06-11	SHN		

SECTION C-C

1:20

Measuring section measurement

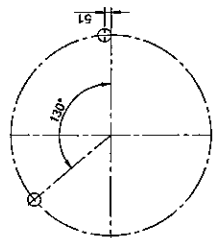


Section A-A

SECTION A-A

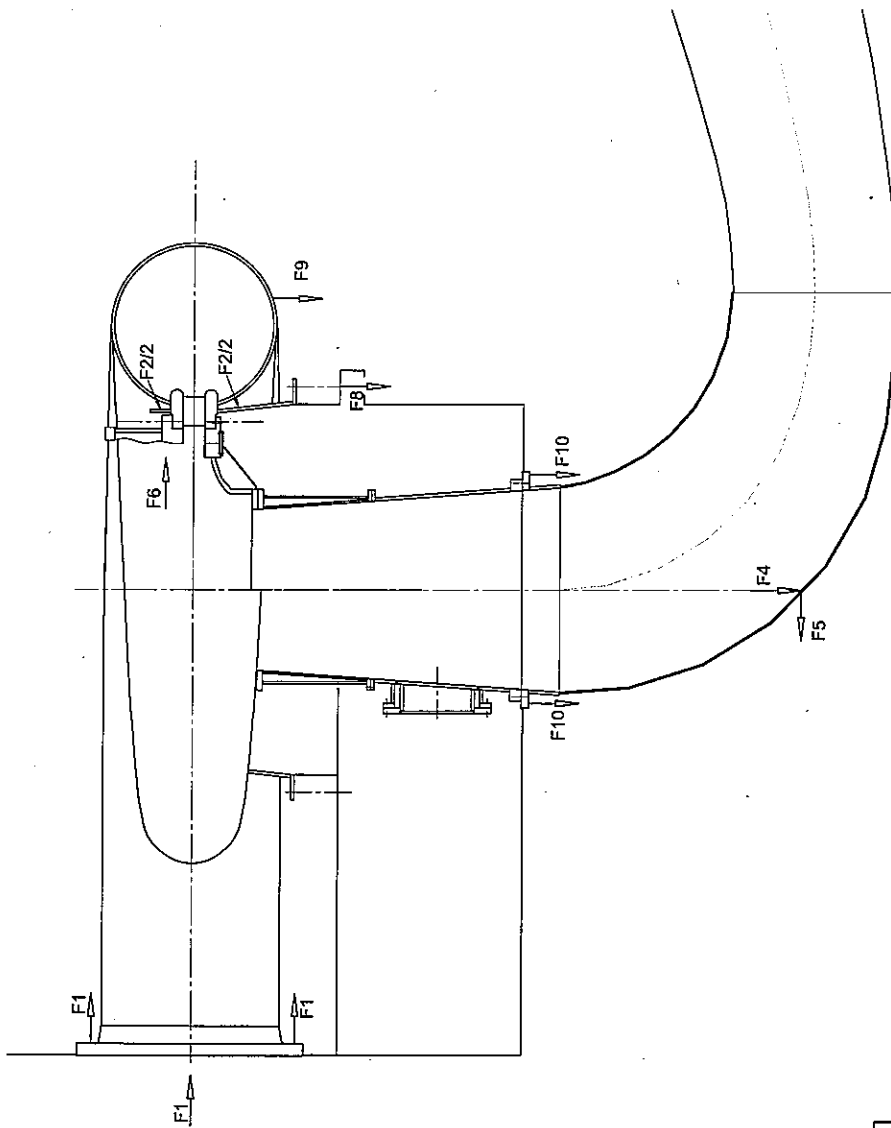
1:20

Winter-Kennedy



Prototype Spiral Case 真机螺旋壳				
Section 截面	Rm [mm]	Ra [mm]	a [mm]	b [mm]
1	2613	3439	826	826
2	2585	3381	796	796
3	2564	3339	775	775
4	2515	3248	733	733
5	2427	3067	640	640
6	2330	2866	536	536
7	2227	2645	418	418
8	2147	2473	326	326

CLIENT: VIETNAM ELECTRICITY		HYDRO POWER PROJECT MANAGEMENT BOARD No.7	
AN KHE HYDROPOWER PLANT		AN KHE-KA NAK HYDROPOWER PROJECT	
SUPPLIER:	DONGFANG ELECTRIC CORPORATION		
DRAWING No. OF CLIENT:	2697-AK08-CK-VSS-02	Rev.	F
Contract No.	AN KHE-KA NAK	Material No.	ANK00000
Scale of drawing	1:20	Scale of drawing	1:20
Spiral Case Nealline (Prototype)		Drawing No. 07	
VOITH SIEMENS		2422-009115	
HYDRO POWER GENERATION		PM Document ID: 8220748	

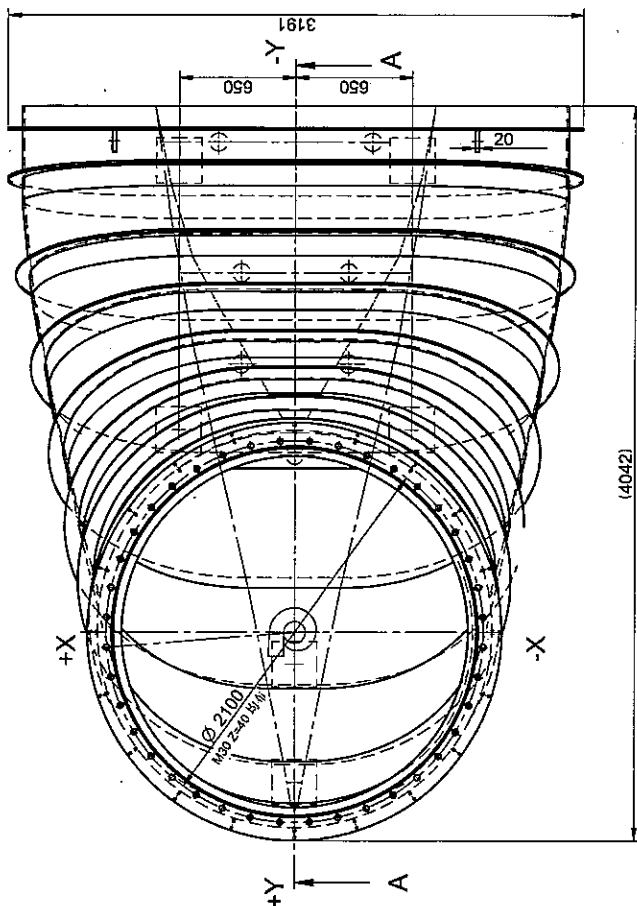
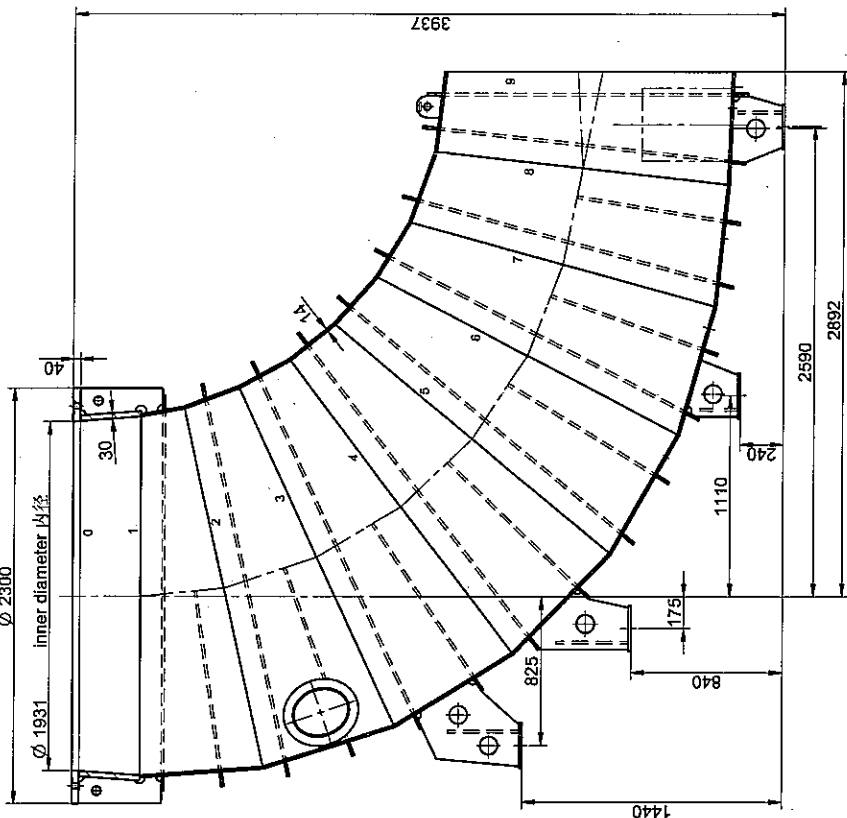


1. All values are without dynamic allowance. Dynamic allowance 25% of the given values for static loads recommended. 所有值未考虑动态受载余量, 动态受载余量按

[illegible]

SECTION A-A

inner diameter 内径



Notes:

1. DT elbow body material: Q235B
尾水肘管材料: Q235B

2. Weight
Weight: 5480Kg
尾水肘管: 5480Kg

CLIENT: VIETNAM ELECTRICITY
EVN HYDRO POWER PROJECT MANAGEMENT BOARD No.7

SUPPLIER: DONGFANG ELECTRIC CORPORATION
DRAWING No. OF CLIENT: 2697-AK08-CK-VSS-04 Rev.

Material no. ANK0802001
Scale of orig. 1:20
Title DT elbow assembly

Code word/Unit 21118
AN KHE-KANAK
19483-19484

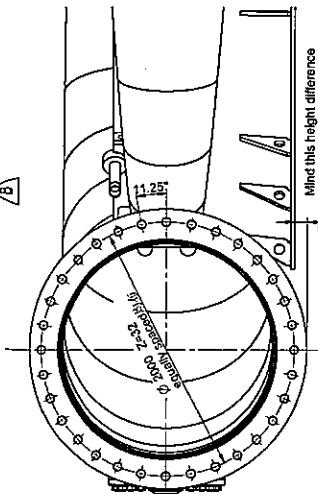
2007 03-15 2008-5-16 2008-5-20
Project ENG
Drawing no. 2422-009488
Rev. 2

VOITH SIEMENS
HYDRO POWER GENERATION

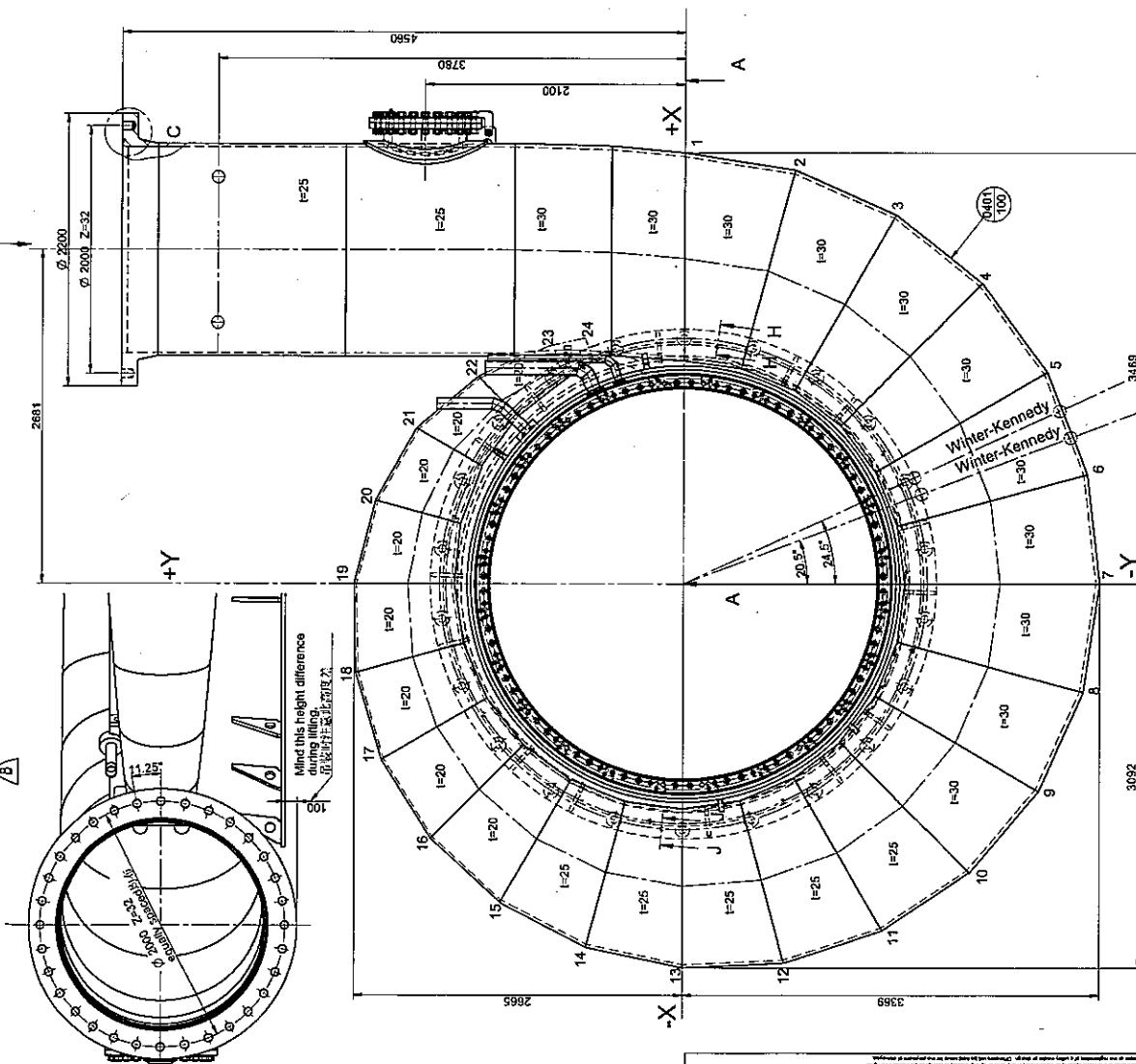
PDM Document ID 00252410

Rev.	Rev. No.	Rev. Date	Rev. Description
1	1	08-05-16	Add drawing No. of client
2	2	08-05-16	Rev. 2: Add drawing No. of client
3	3	08-05-16	Rev. 3: Add drawing No. of client
4	4	08-05-16	Rev. 4: Add drawing No. of client
5	5	08-05-16	Rev. 5: Add drawing No. of client
6	6	08-05-16	Rev. 6: Add drawing No. of client
7	7	08-05-16	Rev. 7: Add drawing No. of client
8	8	08-05-16	Rev. 8: Add drawing No. of client
9	9	08-05-16	Rev. 9: Add drawing No. of client
10	10	08-05-16	Rev. 10: Add drawing No. of client
11	11	08-05-16	Rev. 11: Add drawing No. of client
12	12	08-05-16	Rev. 12: Add drawing No. of client
13	13	08-05-16	Rev. 13: Add drawing No. of client
14	14	08-05-16	Rev. 14: Add drawing No. of client
15	15	08-05-16	Rev. 15: Add drawing No. of client
16	16	08-05-16	Rev. 16: Add drawing No. of client
17	17	08-05-16	Rev. 17: Add drawing No. of client
18	18	08-05-16	Rev. 18: Add drawing No. of client
19	19	08-05-16	Rev. 19: Add drawing No. of client
20	20	08-05-16	Rev. 20: Add drawing No. of client

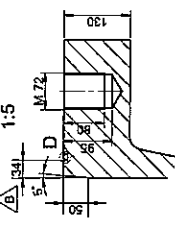
视图 B



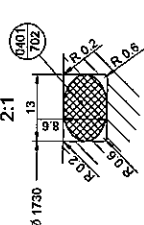
视图 A



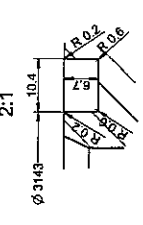
详图 C



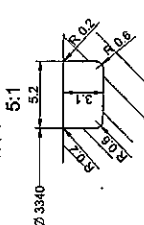
详图 D



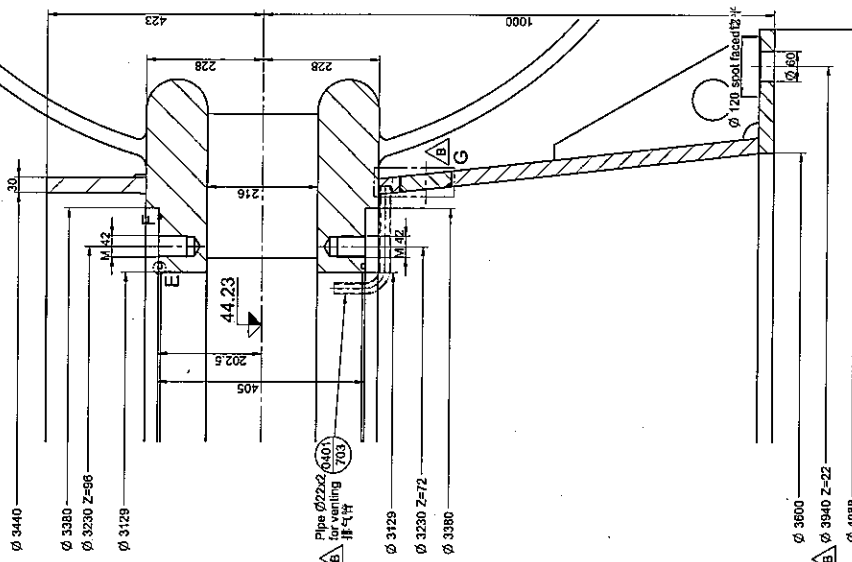
详图 E



详图 F



剖面 A-A

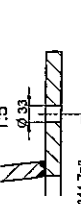


Specification 技术要求

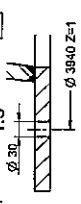
1. Pressure 压力
Design pressure 设计压力: 4.73 MPa
Test pressure 试验压力: 7.10 MPa
2. Execution / examinations 焊接检验
Execution, examination and acceptance criteria according to 2421-000123.
焊接检验在焊接过程中按照标准2421-000123的相关规定执行。
3. Material 材料
Spiral case segments 螺旋壳体: SS50Q/SS50Q-Z33S/46N/235Q/345C
Spiral case segments 螺旋壳体: WDB620
Inlet pipe 进水管: WDB620
4. Weight 重量
Spiral case 螺旋壳体: 11300 kg
Spiral case segments 螺旋壳体: 10070 kg
Inlet pipe 进水管 (including manhole 含进人孔): 7100 kg

Surface quality in the welds
焊缝表面质量
焊缝表面应无裂纹、气孔、夹渣、未熔合等缺陷。
6.3 焊缝表面质量
6.3 焊缝表面质量

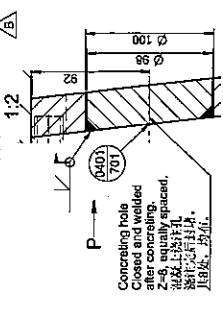
剖面 H-H



剖面 S-S

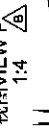


详图 G



Venting hole
closed by overlay welding
after concreting.
It is equally spaced.
泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

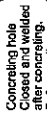
视图 P



详图 H

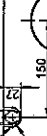


详图 I

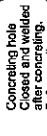


Pipe Ø22x2
welded for venting,
to be removed
after concreting.
泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

视图 P

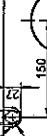


详图 H

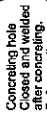


Venting hole
closed by overlay welding
after concreting.
It is equally spaced.
泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

视图 P

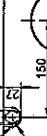


详图 H

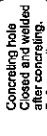


Venting hole
closed by overlay welding
after concreting.
It is equally spaced.
泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

视图 P

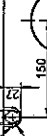


详图 H

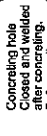


Venting hole
closed by overlay welding
after concreting.
It is equally spaced.
泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

视图 P

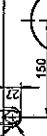


详图 H

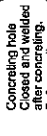


Venting hole
closed by overlay welding
after concreting.
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泄压孔
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用搭接焊封闭。
泄压孔
间距相等。

视图 P

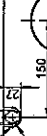


详图 H

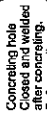


Venting hole
closed by overlay welding
after concreting.
It is equally spaced.
泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

视图 P

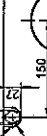


详图 H

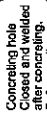


Venting hole
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视图 P

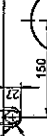


详图 H

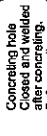


Venting hole
closed by overlay welding
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泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
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视图 P

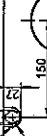


详图 H

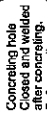


Venting hole
closed by overlay welding
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泄压孔
在浇筑混凝土后
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视图 P

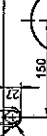


详图 H

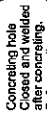


Venting hole
closed by overlay welding
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用搭接焊封闭。
泄压孔
间距相等。

视图 P

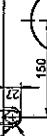


详图 H

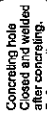


Venting hole
closed by overlay welding
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视图 P

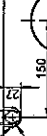


详图 H

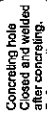


Venting hole
closed by overlay welding
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It is equally spaced.
泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

视图 P

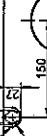


详图 H

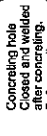


Venting hole
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泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

视图 P

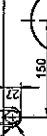


详图 H

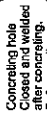


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视图 P

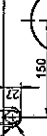


详图 H

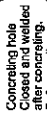


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泄压孔
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用搭接焊封闭。
泄压孔
间距相等。

视图 P

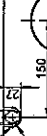


详图 H

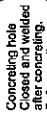


Venting hole
closed by overlay welding
after concreting.
It is equally spaced.
泄压孔
在浇筑混凝土后
用搭接焊封闭。
泄压孔
间距相等。

视图 P

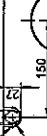


详图 H

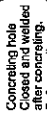


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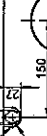


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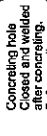


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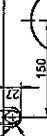


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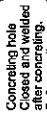


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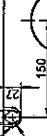


详图 H

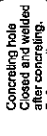


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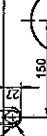


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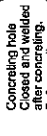


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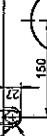


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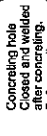


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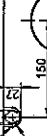


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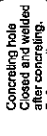


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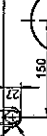


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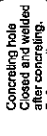


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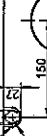


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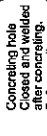


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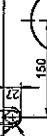


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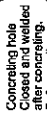


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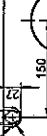


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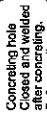


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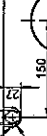


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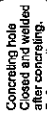


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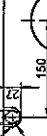


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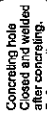


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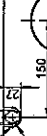


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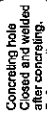


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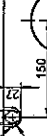


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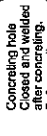


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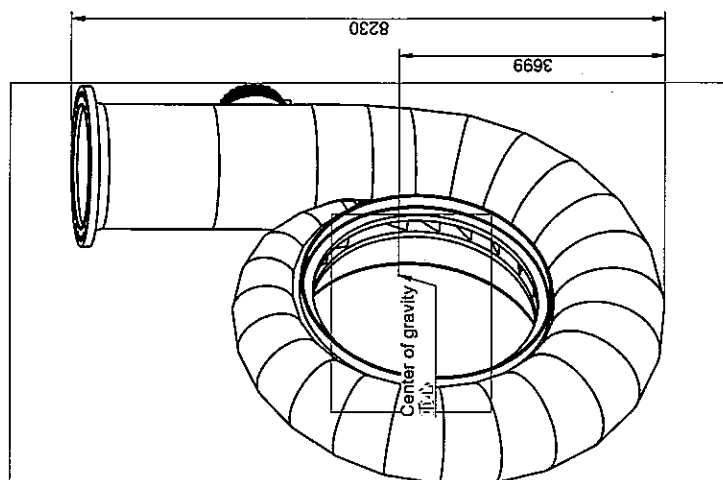
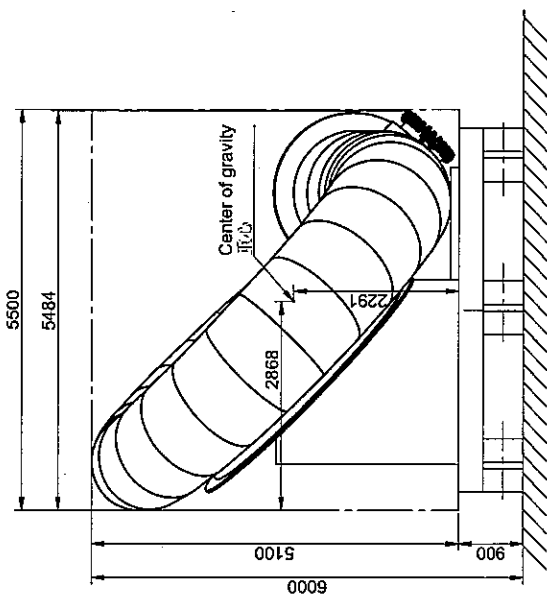


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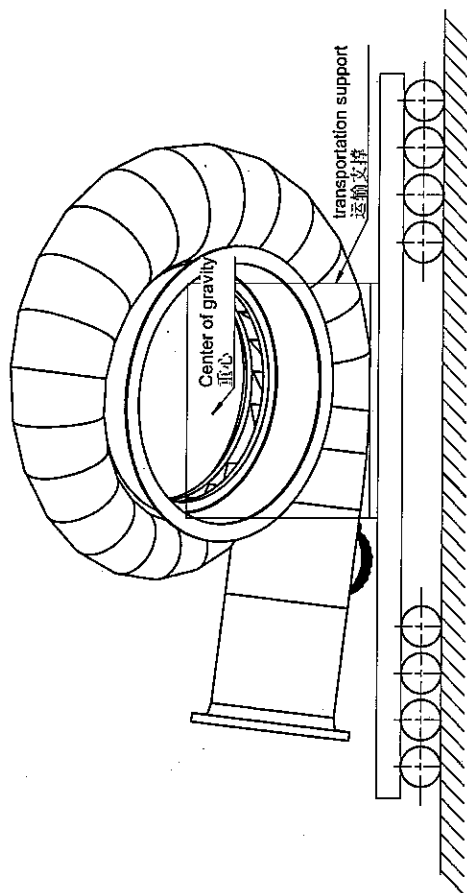


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用搭接焊封闭。
泄压孔
间距相等。

视图 P



Weight重量:	29.2 t
Spiral case/Stay ring:	29.2吨
蜗壳座环:	appr. 8 t
Transportation support:	约8吨
运输支撑:	29.2 t
Total weight:	37.2吨
总重:	

[illegible]

[illegible]

Material 材料:	
Facing plate of HC, 頂端抗磨板	0C113N14Mo
Air admission of HC, pressure tap	TDS4090-38500e
頂蓋進氣管, 壓力測頭:	
Lower ring 1 下環板1:	0C118N19
Barrel, lower ring 2, upper ring, pipe support 筒體, 下環板2, 上環板, 管支撐	TDS4090-38200e
Q235B	
Q345B	
RTS 筒板:	TDS4090-384114a
	TDS4090-384006e

[illegible]

A	Add client drawing No. and revision		Revised description (shape and size, if necessary)		Date/Comment		LJ		ZYP	
	Fig.	Issue	Grading	Radius	Size	Issue	Shape	Size	Issue	Shape
	1	2000/01	ISO 2768 m	0.15 mm	ISO 1218 (DIN 674)					
	2	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	3	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	4	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	5	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	6	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	7	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	8	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	9	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	10	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	11	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	12	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	13	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	14	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	15	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	16	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	17	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	18	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	19	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	20	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	21	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	22	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	23	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	24	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	25	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	26	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	27	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	28	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	29	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	30	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	31	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	32	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	33	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	34	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	35	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
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	37	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	38	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
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	41	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	42	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	43	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	44	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	45	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	46	2000/01	ISO 2768 m	0.15 mm	ISO 1218					
	47	2000/01	ISO 2768 m	0.15 mm	ISO 1218					


1:5



Material 材料:
Facing plate on BR 底环抗磨板:
Outer ring 外环板:
Barrel, cone, inner ring
筒体、锥管、内环板
Rib 筋板:


CLIENT:  VIETNAM ELECTRICITY
HYDRO POWER PROJECT MANAGEMENT BOARD No.7
EVN

AN KHE HYDROPOWER PLANT
AN KHE-KA NAK HYDROPOWER PROJECT

SUPPLIER:	 DONGFANG ELECTRIC CORPORATION	
DRAWING No. OF CLIENT:	2697-AK08-CK-VSS-11	Rev. F

AN KHE-KA NAK 19483-19484	Material no. 材料番号	ANK0534001	
	Scale of map 比例尺	1:10	Mass weight 重量 (1/2) 5809

Bottom ring

 VOITH SIEMENS HYDRO POWER GENERATION	Department ENG	Drawing no. 3194	Rev. 2	Rev. 1
			A	1
			1 2nd	

REVISED

SECTION A-A

DETAIL B 2:1





DETAIL D 2:1

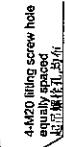
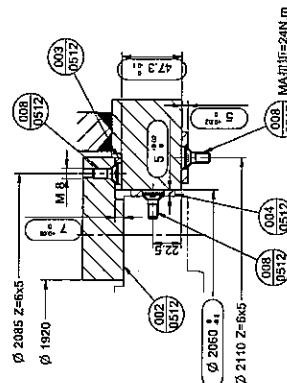
DETAIL E 2:1

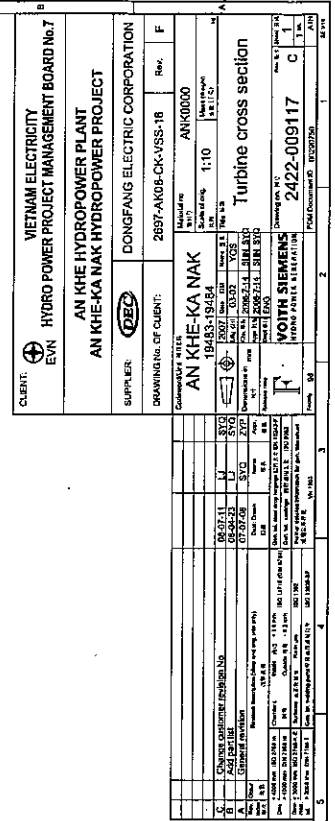
DETAIL C 2:1

Parts List Table:

Item No.	Material No.	Description	Standard	Qty	Weight
016	ANK0504016	Locite 601		4	50ml/bc
015	ANK0504015	Adjusting plate	0Cr18Ni9	1	0.2
014	ANK0504014	Hex. bolt M12x50	8.8G	8	0.06
013	ANK0504013	Taper pin B20x50	42CrMo	4	0.1
012	ANK0504012	Socket head screw M16x25	8.8G	2	0.1
011	ANK0504011	Hex. bolt M16x50	8.8G	8	0.18
010	ANK0504010	Compressing plate	0235B	1	6.6
009	ANK0504009	Thrust ring on cartridge	FZ-8A	1	0.13
008	ANK0504008	Groove ring seal: 120x140x15	0235B	2	0.07
007	ANK0504007	Gate cartridge	0235B	1	31
006	ANK0504006	Round sealing ring D5	NER 70	2	0.02
005	ANK0504005	Lower bearing bushing	DEVA BM11	1	0.54
004	ANK0504004	Upper bearing bushing	DEVA BM11	1	0.81
003	ANK0504003	Upper bearing bushing	DEVA BM11	1	0.33
002	ANK0504002	Lower bearing cartridge	0235B	1	14

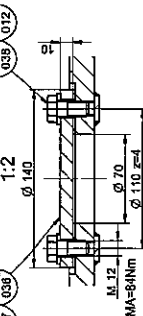
 CLIENT:	VIETNAM ELECTRICITY HYDRO POWER PROJECT MANAGEMENT BOARD No.7	
	AN KHE HYDROPOWER PLANT AN KHE-KA NAK HYDROPOWER PROJECT	
SUPPLIER:	 DONGFANG ELECTRIC CORPORATION	Material no. ANK0504001 Scale of map. 1:2 Title: HSE
DRAWING No. OF CLIENT:	2697-AK08-CK-VSS-13 19483-19484	Rev. F 56.5 Mass: 400g 4.8 (1.8)
 Dimensions in mm 1:1	AN KHE-KA NAK 19483-19484	
	2007 Date: 10-10 Drawn by: NGUYEN T.A. 2008-5-16 Date: 10-10 2008-5-09 Date: 10-10 Checked by: NGUYEN T.A. Approved by: NGUYEN T.A. Drawn by: NGUYEN T.A. Checked by: NGUYEN T.A. Approved by: NGUYEN T.A.	
 Dimensions in mm 1:1	AN KHE-KA NAK 19483-19484	
Drawing no. 24 2422-009295 Drawing no. 24 2422-009295	Drawing no. 24 2422-009295 Drawing no. 24 2422-009295	
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[illegible][illegible]



011	ANK3101001	Walkway assembly 地板装配	2422-009631	1		880	
010	ANK0401001	Spiral case and stay ring assembly 蜗壳环环装配	2422-009204	1		28970	
009	ANK0223001 ANK0216001	Turbine shaft and generator shaft coupling 水轮机主轴与发电机轴连接	2422-009198	1		see DAW	
008	ANK1101001	Turbine guide bearing 水轮机导轨承	2422-009540 2422-009541	1		see DAW	
007	ANK0701001	Shaft seal 主轴密封	2422-009450	1		780	
006	ANK0211001	Turbine shaft 水轮机主轴	2422-009184	1		10400	
005	ANK0221001	Turbine shaft and runner coupling 水轮机转轮与主轴连接	2422-009192	1		90	
004	ANK0100001	Runner assembly 转轮装配		1		5250	
003	ANK0500001	Distributor 导水机构	2422-009275 2422-009276	1			
002	ANK0801001	DT cone assembly 尾水锥管装配	2422-009484	1		5200	
001	ANK0602001	DT elbow assembly 尾水肘管装配	2422-009488	1		5480	
Item 项号	Material No 物料号	Description 名称	Draw No./Stand 图号/标准	Qty 数量	Material 材料	WUPC 重量(kg)	Remark 备注

SECTION E-E
1:2

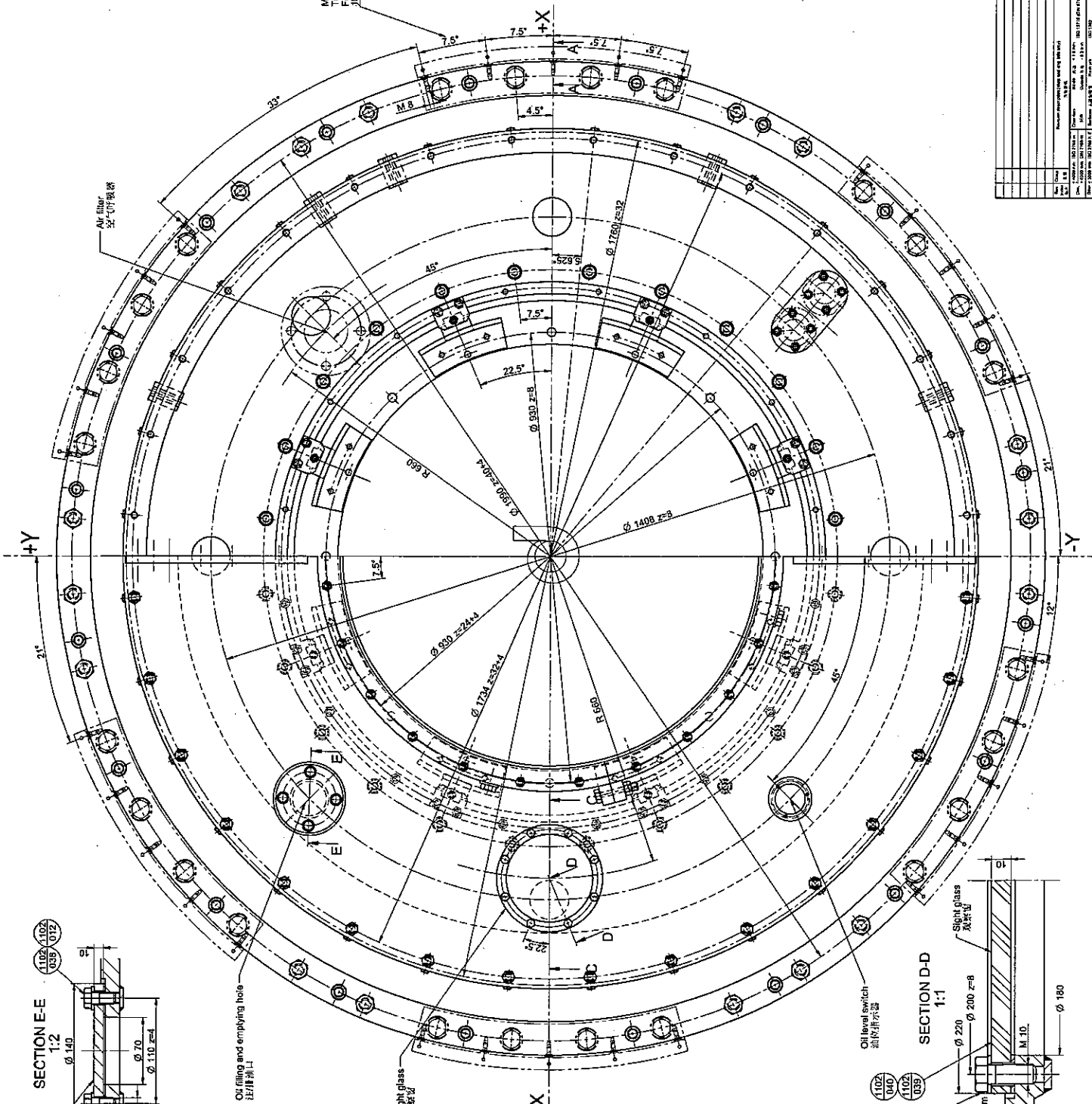


详图 DETAIL B
20:1

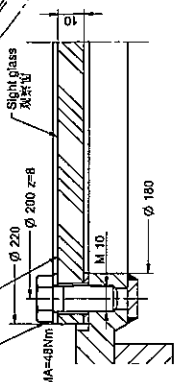
M8, z=5, see SECTION
Total 6 groups, equally spaced as shown
For radial thrust bearing
表6组。如图分布。用于径向推力轴承

Notes:

- 说明:
1. Other drawings 其它图纸: 2422-009540 Turbine guide bearing cross section 水导轴承剖视图

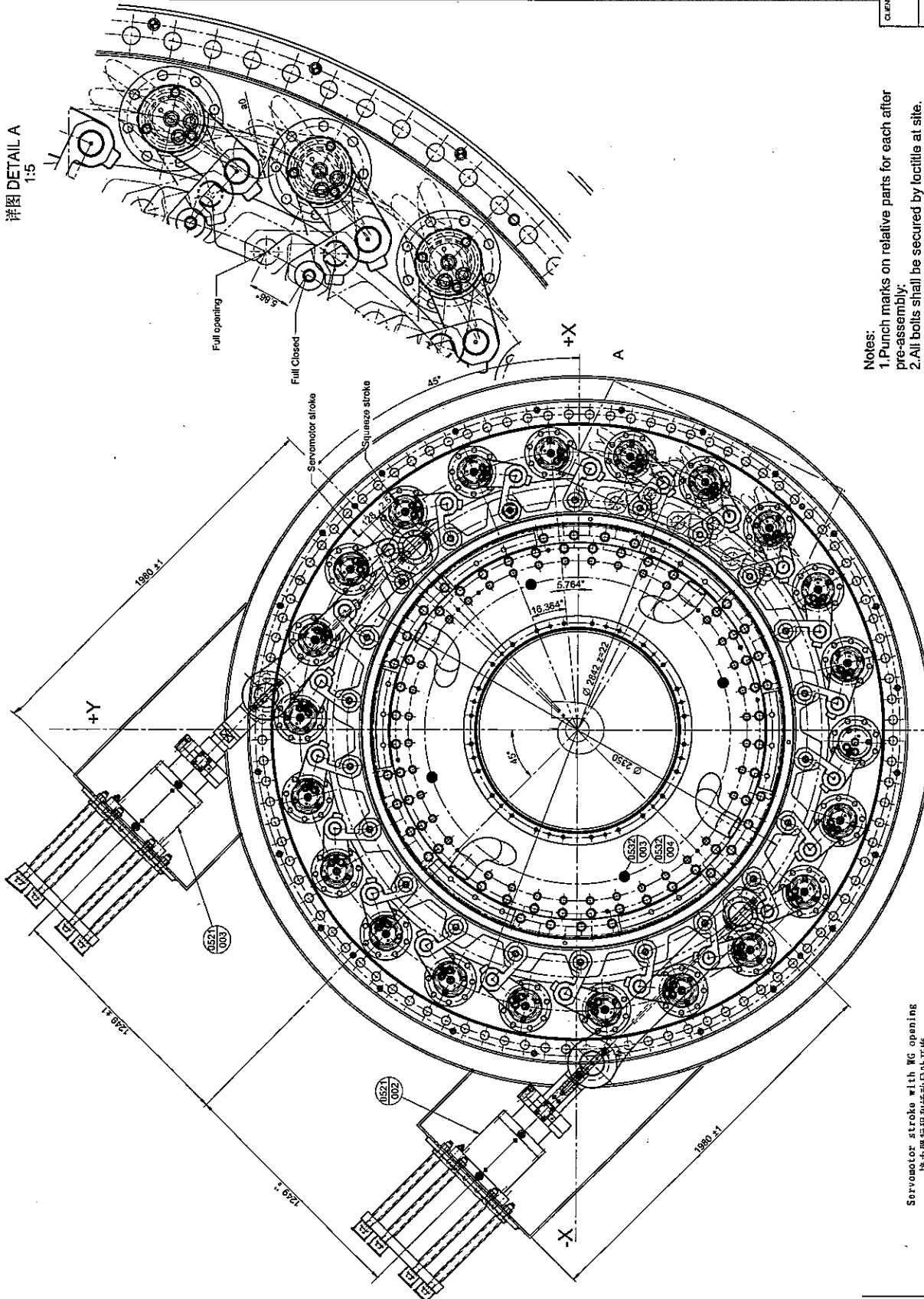


SECTION D-D
1:1

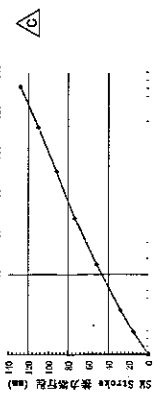


AN KHE HYDROPOWER PLANT AN KHE-KA NAK HYDROPOWER PROJECT									
VIETNAM ELECTRICITY HYDRO POWER PROJECT MANAGEMENT BOARD No.7									
SUPPLIER: DONGFANG ELECTRIC CORPORATION									
DRAWING NO. OF CLIENT: 2987-ANBQ-CK-VSS-17 Rev.									
DRAWING NO. OF SUPPLIER: ANK1101001									
AN KHE-KA NAK									
19483-19484									
Turbine guide bearing plan view									
Drawing No. 72									
2422-0209621									
0 2									
VORTH SIEMENS									
VORTH SIEMENS									
VORTH SIEMENS									

详图 DETAIL A
1:5



- Notes:
1. Punch marks on relative parts for each after pre-assembly;
 2. All bolts shall be secured by locktite at site.
 3. Reference drawings:
Distributor cross section 2422-009275



NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	FLANGE	1	PC	
2	FLANGE	1	PC	
3	FLANGE	1	PC	
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99	FLANGE	1	PC	
100	FLANGE	1	PC	

CLIENT: VIETNAM ELECTRICITY
HYDRO POWER PROJECT MANAGEMENT BOARD No.7
AN KHE HYDROPOWER PLANT
AN KHE-KA NAK HYDROPOWER PROJECT

SUPPLIER: DONGFANG ELECTRIC CORPORATION

DRAWING No. OF CLIENT: 2897-AK08-CK-VSS-19 Rev. F

Contract No. 2897-AK08-CK-VSS-19

AN KHE-KA NAK
10000-19000

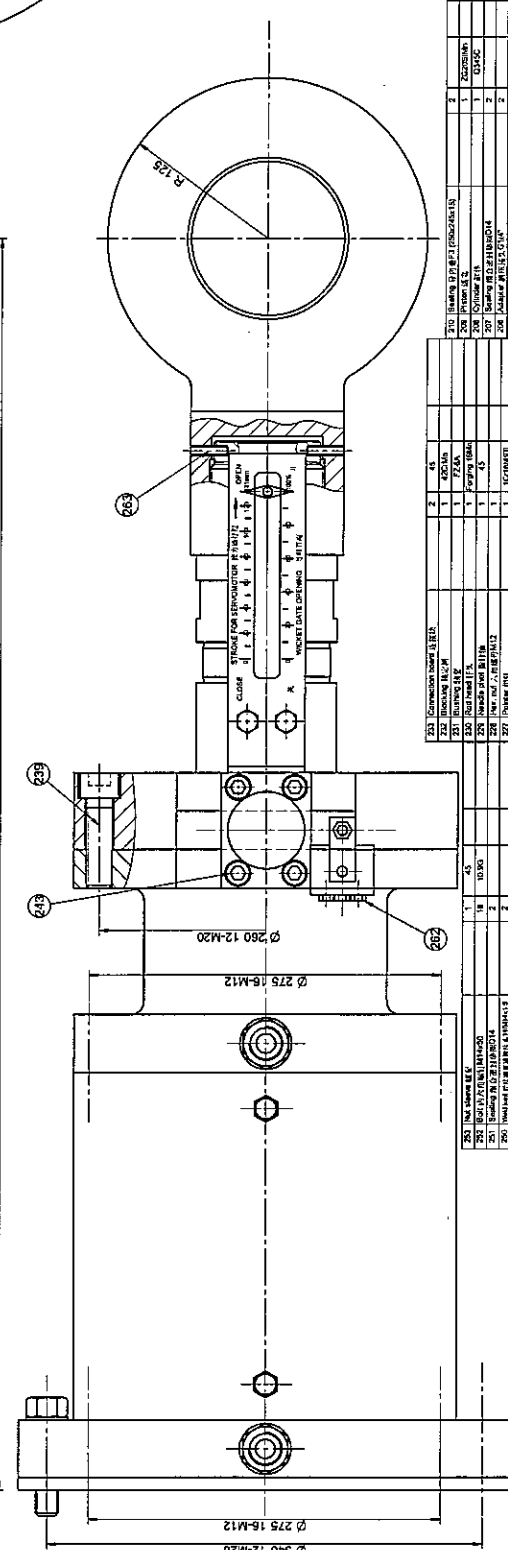
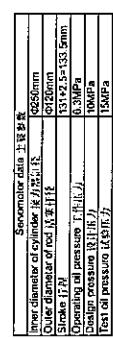
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Sheet No. 1/10

Distributor plan view

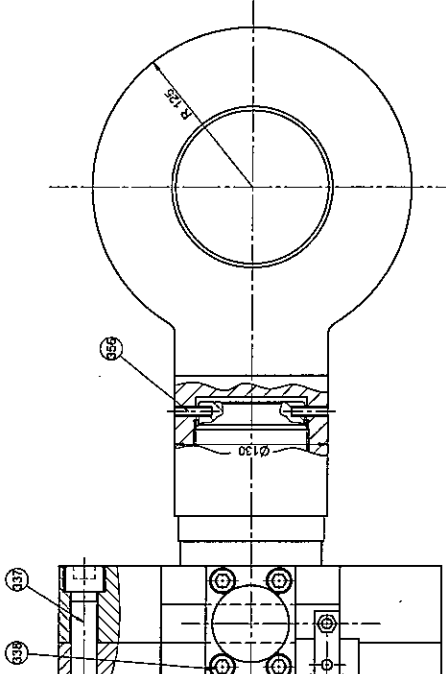
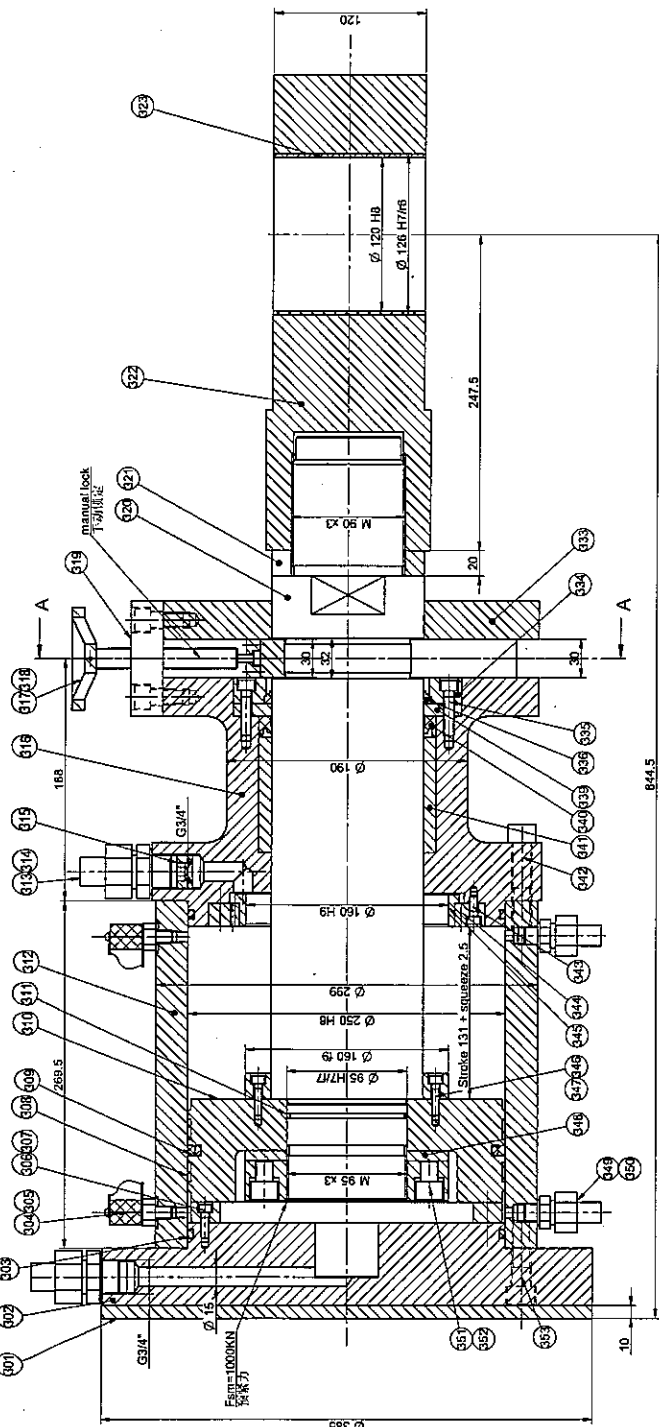
2422-009276 C1

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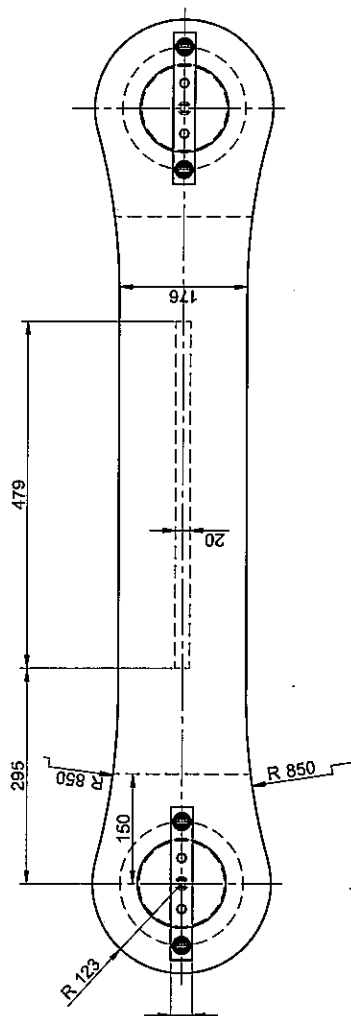
Sensorator data 主要参数	
Inner diameter of cylinder 缸内径/mm	Φ95mm
Outer diameter of rod 活塞杆径/mm	Φ120mm
Stroke 行程/mm	131±2
Operating oil pressure 工作压力/MPa	6.3MPa
Design pressure 设计压力/MPa	10MPa
Test oil pressure 试验压力/MPa	15MPa



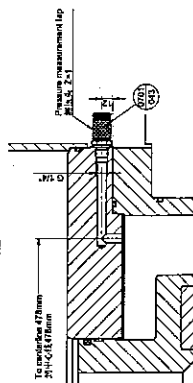
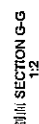
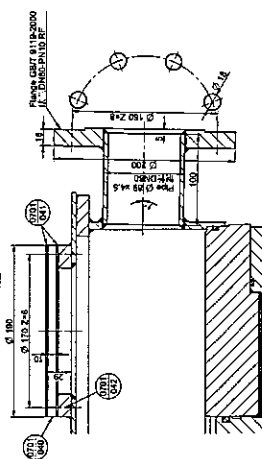
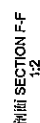
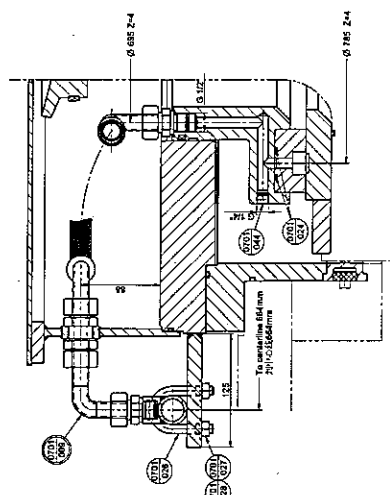
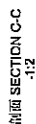
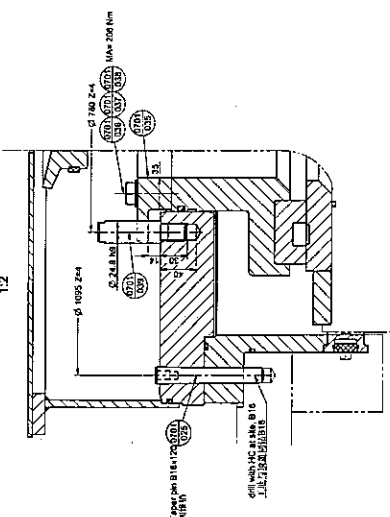
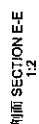
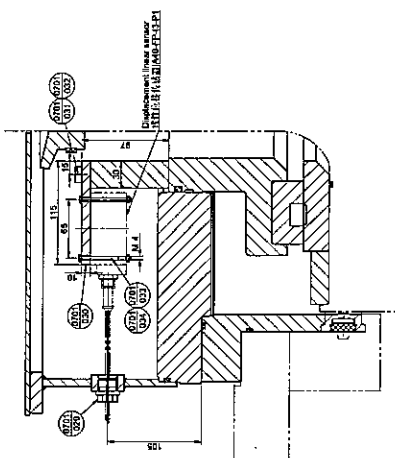
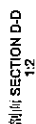
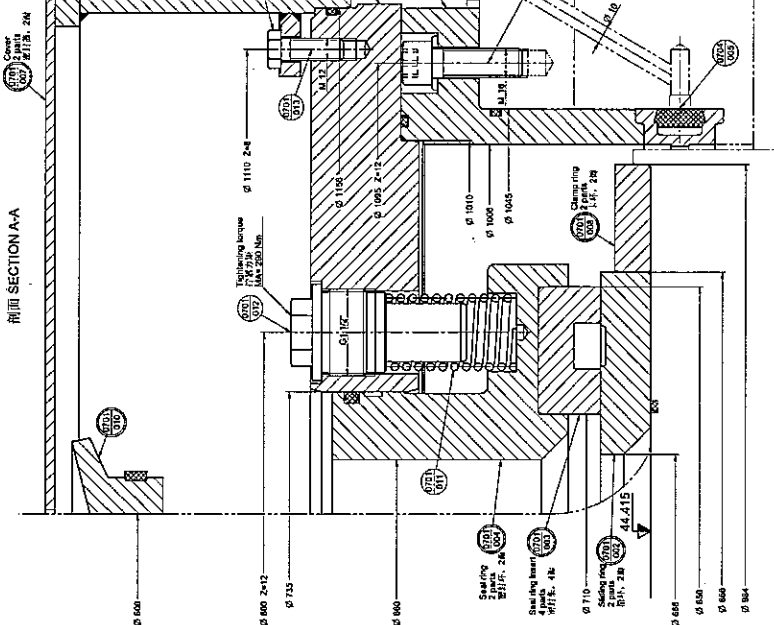
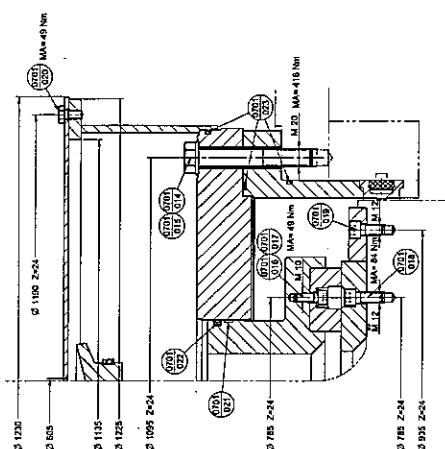
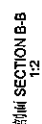
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Full opening position as shown

CLIENT: 	VIETNAM ELECTRICITY HYDRO POWER PROJECT MANAGEMENT BOARD No.7																																					
AN KHE-KA NAK HYDROPOWER PLANT AN KHE-KA NAK HYDROPOWER PROJECT																																						
SUPPLIER: 	DONG-ANG ELECTRIC CORPORATION																																					
DRAWING NO. OF CLIENT:	2897-A/08-CK-VSS-21	Rev. F																																				
Contracted with	Manufacturer	AN/0521/003																																				
AN KHE-KA NAK 1983-1984	Scale: 1:2	Sheet No. 338 of 342																																				
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Product Name	Servomotor with manual lock																																					
Product Code	242Z-009346																																					
Manufacturer	VOITH SIEMENS Hydro electric machinery																																					
Project Name	PDM Document D. 003/917																																					
Project No.	A1																																					

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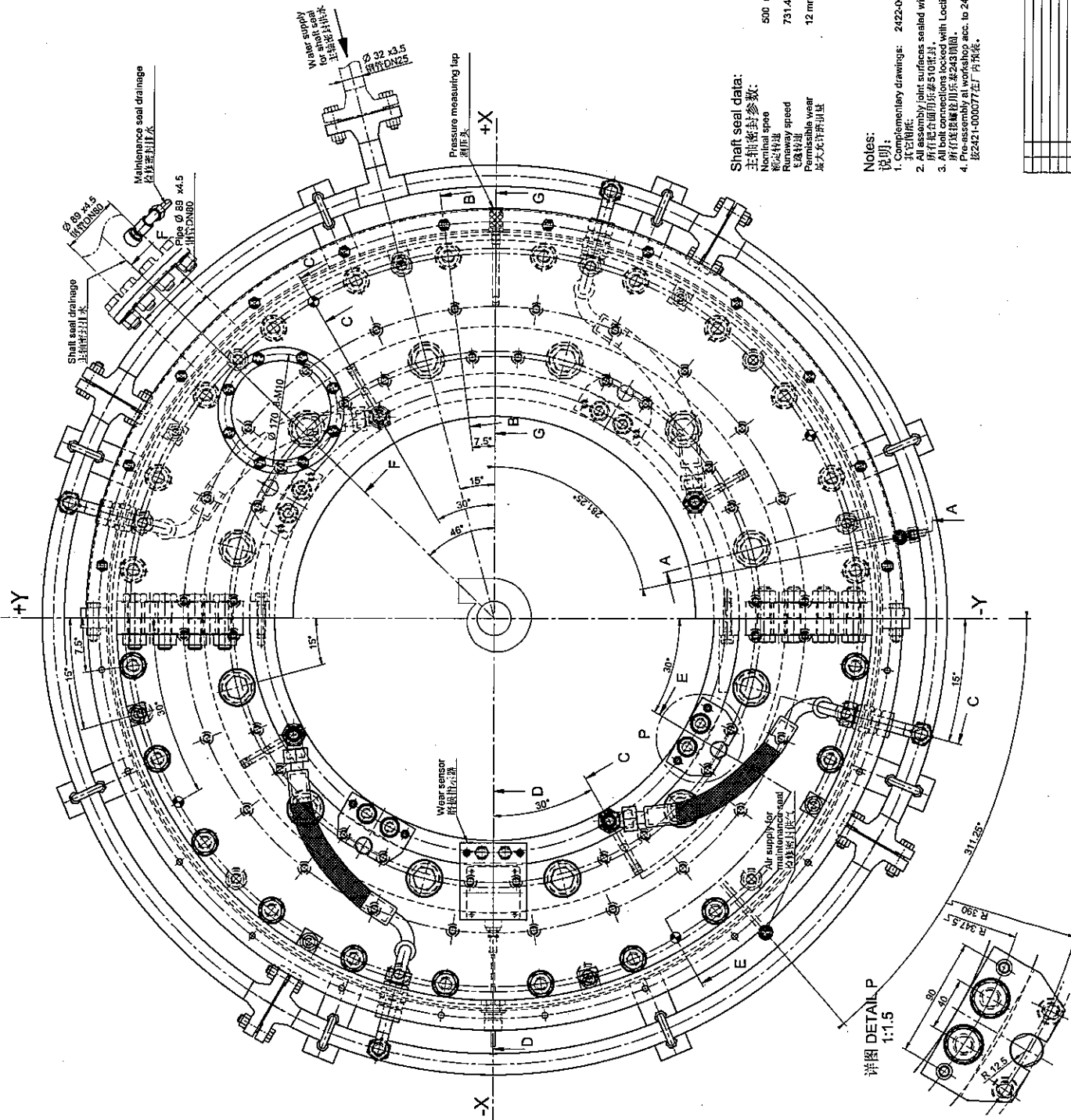
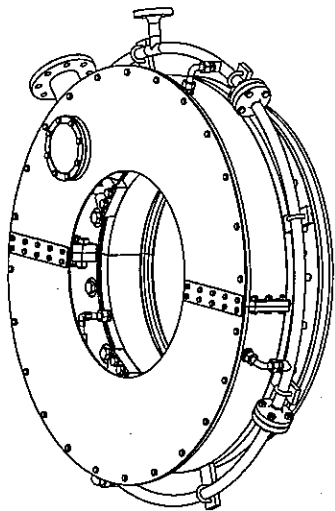
Shaft seal data:
主軸密封參數:

Nominal speed 600 rpm	600 rpm
Runway speed 731.4 rpm	731.4 rpm
Permissible wear 12 mm	12 mm

Notes:

說明:
1. 其它圖樣: 2422-009451 sh1
2. All assembly joint surfaces sealed with Loclote S10.
所有配合面均塗上S10塗料。
3. All bolt connections sealed with Loclote 243.
所有螺栓連接處均塗上243塗料。
Pre-assembly at work shop sec. to 2421-000077.
預裝於2421-000077組內作預裝。

4 VIETNAM ELECTRICITY HYDRO POWER PROJECT MANAGEMENT BOARD No.7 EVN	AN KHIEU HYDROPOWER PLANT AN KHIEU-KA NAK HYDROPOWER PROJECT	DONGKANG ELECTRIC CORPORATION 2079 ANKHUONGWASZED AN KHIEU-KA NAK 1985-1986	2079 ANKHUONGWASZED AN KHIEU-KA NAK 1985-1986	AN KHIEU-KA NAK 1985-1986	VIETNAM ELECTRICITY HYDRO POWER PROJECT MANAGEMENT BOARD No.7 EVN
4 VIETNAM ELECTRICITY HYDRO POWER PROJECT MANAGEMENT BOARD No.7 EVN	AN KHIEU HYDROPOWER PLANT AN KHIEU-KA NAK HYDROPOWER PROJECT	DONGKANG ELECTRIC CORPORATION 2079 ANKHUONGWASZED AN KHIEU-KA NAK 1985-1986	2079 ANKHUONGWASZED AN KHIEU-KA NAK 1985-1986	AN KHIEU-KA NAK 1985-1986	VIETNAM ELECTRICITY HYDRO POWER PROJECT MANAGEMENT BOARD No.7 EVN



Shaft seal data:
主轴承密封参数:
Nominal speed
额定转速
Runaway speed
飞车转速
Pressure
压力
Air supply for
检修及密封供气

- Notes:
说明:
1. Complementary drawings: 2422-009451 sh2
2. All contact surfaces shall be sealed with Loctite 510.
3. All bolt connections locked with Loctite 243.
4. Pre-assembly at workshop acc. to 2421-000077.
按2421-000077在厂内预装。

ITEM	DESCRIPTION	QTY	UNIT	REMARKS
001	FLANGE	1	PC	
002	FLANGE GASKET	1	PC	
003	FLANGE NUT	12	PC	
004	FLANGE BOLT	12	PC	
005	FLANGE WASHER	12	PC	
006	FLANGE STUD	12	PC	
007	FLANGE PIN	12	PC	
008	FLANGE RING	1	PC	
009	FLANGE GASKET	1	PC	
010	FLANGE NUT	12	PC	
011	FLANGE BOLT	12	PC	
012	FLANGE WASHER	12	PC	
013	FLANGE STUD	12	PC	
014	FLANGE PIN	12	PC	
015	FLANGE RING	1	PC	
016	FLANGE GASKET	1	PC	
017	FLANGE NUT	12	PC	
018	FLANGE BOLT	12	PC	
019	FLANGE WASHER	12	PC	
020	FLANGE STUD	12	PC	
021	FLANGE PIN	12	PC	
022	FLANGE RING	1	PC	
023	FLANGE GASKET	1	PC	
024	FLANGE NUT	12	PC	
025	FLANGE BOLT	12	PC	
026	FLANGE WASHER	12	PC	
027	FLANGE STUD	12	PC	
028	FLANGE PIN	12	PC	
029	FLANGE RING	1	PC	
030	FLANGE GASKET	1	PC	
031	FLANGE NUT	12	PC	
032	FLANGE BOLT	12	PC	
033	FLANGE WASHER	12	PC	
034	FLANGE STUD	12	PC	
035	FLANGE PIN	12	PC	
036	FLANGE RING	1	PC	
037	FLANGE GASKET	1	PC	
038	FLANGE NUT	12	PC	
039	FLANGE BOLT	12	PC	
040	FLANGE WASHER	12	PC	
041	FLANGE STUD	12	PC	
042	FLANGE PIN	12	PC	
043	FLANGE RING	1	PC	
044	FLANGE GASKET	1	PC	
045	FLANGE NUT	12	PC	
046	FLANGE BOLT	12	PC	
047	FLANGE WASHER	12	PC	
048	FLANGE STUD	12	PC	
049	FLANGE PIN	12	PC	
050	FLANGE RING	1	PC	
051	FLANGE GASKET	1	PC	
052	FLANGE NUT	12	PC	
053	FLANGE BOLT	12	PC	
054	FLANGE WASHER	12	PC	
055	FLANGE STUD	12	PC	
056	FLANGE PIN	12	PC	
057	FLANGE RING	1	PC	
058	FLANGE GASKET	1	PC	
059	FLANGE NUT	12	PC	
060	FLANGE BOLT	12	PC	
061	FLANGE WASHER	12	PC	
062	FLANGE STUD	12	PC	
063	FLANGE PIN	12	PC	
064	FLANGE RING	1	PC	
065	FLANGE GASKET	1	PC	
066	FLANGE NUT	12	PC	
067	FLANGE BOLT	12	PC	
068	FLANGE WASHER	12	PC	
069	FLANGE STUD	12	PC	
070	FLANGE PIN	12	PC	
071	FLANGE RING	1	PC	
072	FLANGE GASKET	1	PC	
073	FLANGE NUT	12	PC	
074	FLANGE BOLT	12	PC	
075	FLANGE WASHER	12	PC	
076	FLANGE STUD	12	PC	
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094	FLANGE NUT	12	PC	
095	FLANGE BOLT	12	PC	
096	FLANGE WASHER	12	PC	
097	FLANGE STUD	12	PC	
098	FLANGE PIN	12	PC	
099	FLANGE RING	1	PC	
100	FLANGE GASKET	1	PC	

CLIENT: VIETNAM ELECTRICITY
HYDRO POWER PROJECT MANAGEMENT BOARD No.7
AN KHE HYDROPOWER PLANT
AN KHE-KA NAK HYDROPOWER PROJECT

SUPPLIER: DONGFANG ELECTRIC CORPORATION

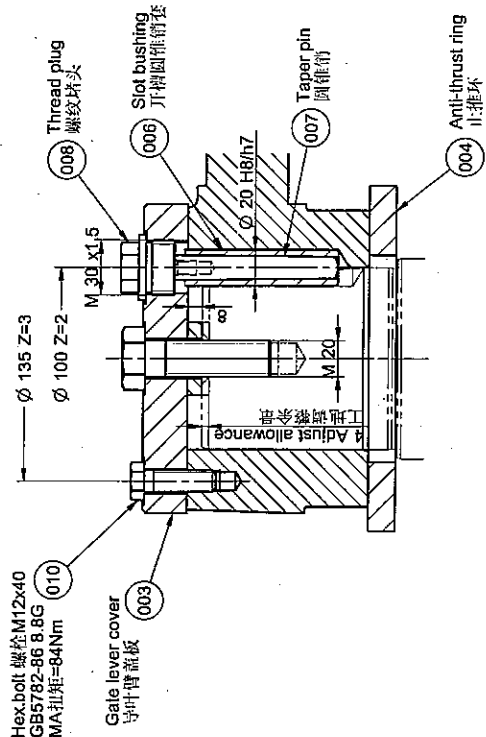
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REVISION: 1

DATE: 19/03/1994
SCALE: 1:1
SHEET NO: 1/1

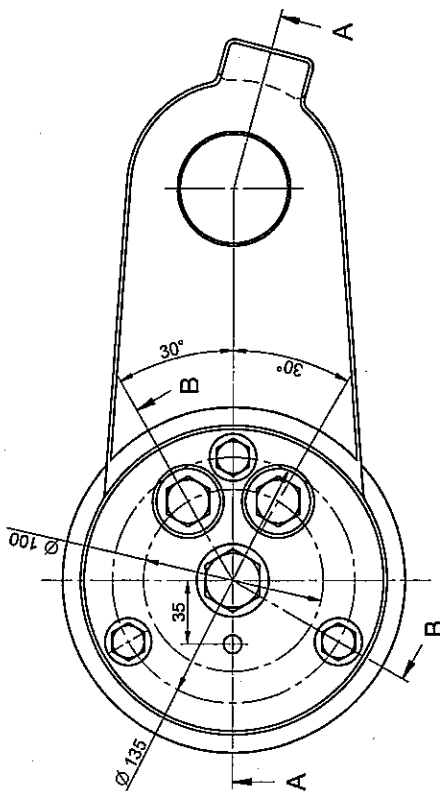
PROJECT: AN KHE-KA NAK HYDROPOWER PROJECT
SHEET: 1/1
SHEET TITLE: Shaft seal plan view

PROJECT NO: 2422-009450
SHEET NO: 01

SECTION B-B

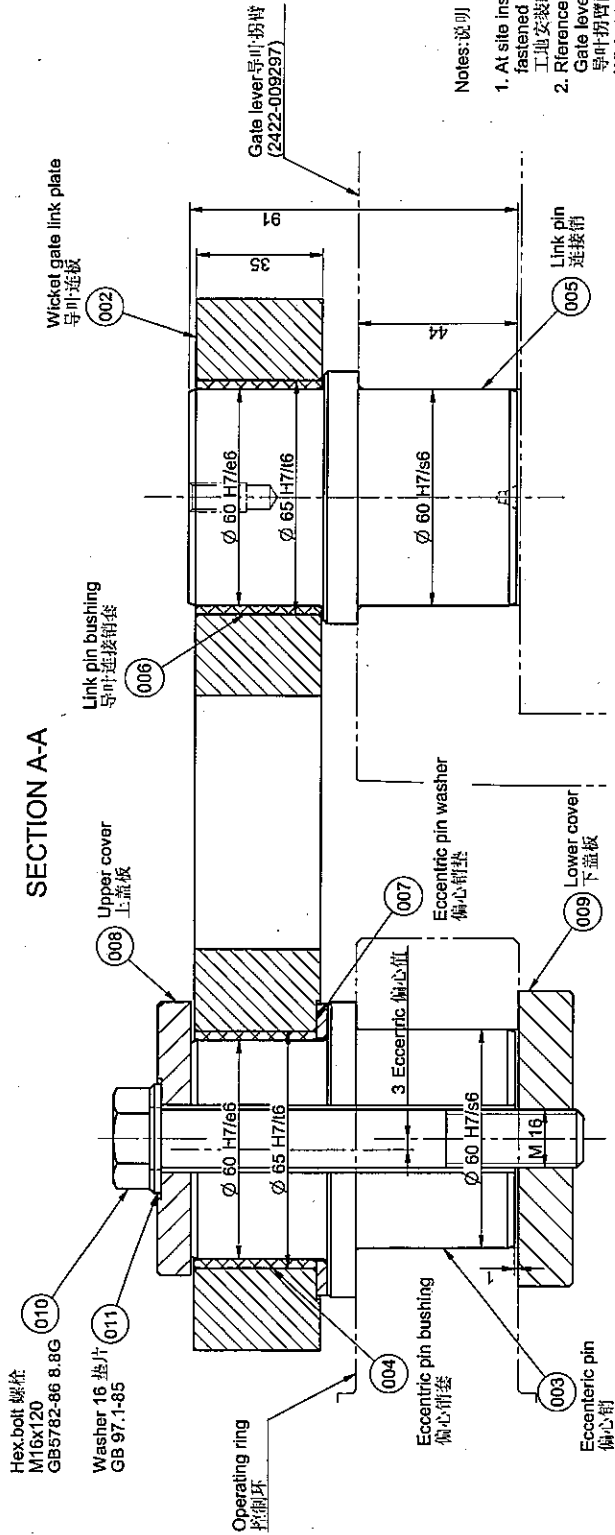


1. At site installation, stud shall be fastened with Locitite 243.
工地安装时螺栓应用乐泰243防松。
2. Reference drawing 相关图纸:
Gate link assembly 2422-009314
道杆装配图, 2422-009314
Wicket gate bearing with seal, 2422-009295
导叶轴承装配图, 2422-009295

[illegible]

A		B		C		D		E		F		G		H		I		J		K		L		M		N		O		P		Q		R		S		T		U		V		W		X		Y		Z		AA		AB		AC		AD		AE		AF		AG		AH		AI		AJ		AK		AL		AM		AN		AO		AP		AQ		AR		AS		AT		AU		AV		AW		AX		AY		AZ		BA		BB		BC		BD		BE		BF		BG		BH		BI		BJ		BK		BL		BM		BN		BO		BP		BQ		BR		BS		BT		BU		BV		BW		BX		BY		BZ		CA		CB		CC		CD		CE		CF		CG		CH		CI		CJ		CK		CL		CM		CN		CO		CP		CQ		CR		CS		CT		CU		CV		CW		CX		CY		CZ		DA		DB		DC		DD		DE		DF		DG		DH		DI		DJ		DK		DL		DM		DN		DO		DP		DQ		DR		DS		DT		DU		DV		DW		DX		DY		DZ		EA		EB		EC		ED		EE		EF		EG		EH		EI		EJ		EK		EL		EM		EN		EO		EP		EQ		ER		ES		ET		EU		EV		EW		EX		EY		EZ		FA		FB		FC		FD		FE		FF		FG		FH		FI		FJ		FK		FL		FM		FN		FO		FP		FQ		FR		FS		FT		FU		FV		FW		FX		FY		FZ		GA		GB		GC		GD		GE		GF		GG		GH		GI		GJ		GK		GL		GM		GN		GO		GP		GQ		GR		GS		GT		GU		GV		GW		GX		GY		GZ		HA		HB		HC		HD		HE		HF		HG		HH		HI		HJ		HK		HL		HM		HN		HO		HP		HQ		HR		HS		HT		HU		HV		HW		HX		HY		HZ		IA		IB		IC		ID		IE		IF		IG		IH		II		IJ		IK		IL		IM		IN		IO		IP		IQ		IR		IS		IT		IU		IV		IW		IX		IY		IZ		JA		JB		JC		JD		JE		JF		JG		JH		JI		JJ		JK		JL		JM		JN		JO		JP		JQ		JR		JS		JT		JU		JV		JW		JX		JY		JZ		KA		KB		KC		KD		KE		KF		KG		KH		KI		KJ		KL		KM		KN		KO		KP		KQ		KR		KS		KT		KU		KV		KW		KX		KY		KZ		LA		LB		LC		LD		LE		LF		LG		LH		LI		LJ		LK		LM		LN		LO		LP		LQ		LR		LS		LT		LU		LV		LW		LX		LY		LZ		MA		MB		MC		MD		ME		MF		MG		MH		MI		MJ		MK		ML		MN		MO		MP		MQ		MR		MS		MT		MU		MV		MW		MX		MY		MZ		NA		NB		NC		ND		NE		NF		NG		NH		NI		NJ		NK		NL		NM		NN		NO		NP		NQ		NR		NS		NT		NU		NV		NW		NX		NY		NZ		OA		OB		OC		OD		OE		OF		OG		OH		OI		OJ		OK		OL		OM		ON		OO		OP		OQ		OR		OS		OT		OU		OV		OW		OX		OY		OZ		PA		PB		PC		PD		PE		PF		PG		PH		PI		PJ		PK		PL		PM		PN		PO		PP		PQ		PR		PS		PT		PU		PV		PW		PX		PY		PZ		QA		QB		QC		QD		QE		QF		QG		QH		QI		QJ		QK		QL		QM		QN		QO		QP		QQ		QR		QS		QT		QU		QV		QW		QX		QY		QZ		RA		RB		RC		RD		RE		RF		RG		RH		RI		RJ		RK		RL		RM		RN		RO		RP		RQ		RR		RS		RT		RU		RV		RW		RX		RY		RZ		SA		SB		SC		SD		SE		SF		SG		SH		SI		SJ		SK		SL		SM		SN		SO		SP		SQ		SR		SS		ST		SU		SV		SW		SX		SY		SZ		TA		TB		TC		TD		TE		TF		TG		TH		TI		TJ		TK		TL		TM		TN		TO		TP		TQ		TR		TS		TT		TU		TV		TW		TX		TY		TZ		UA		UB		UC		UD		UE		UF		UG		UH		UI		UJ		UK		UL		UM		UN		UO		UP		UQ		UR		US		UT		UU		UV		UW		UX		UY		UZ		VA		VB		VC		VD		VE		VF		VG		VH		VI		VJ		VK		VL		VM		VN		VO		VP		VQ		VR		VS		VT		VU		VV		VW		VX		VY		VZ		WA		WB		WC		WD		WE		WF		WG		WH		WI		WJ		WK		WL		WM		WN		WO		WP		WQ		WR		WS		WT		WU		WV		WW		WX		WY		WZ		XA		XB		XC		XD		XE		XF		XG		XH		XI		XJ		XK		XL		XM		XN		XO		XP		XQ		XR		XS		XT		XU		XV		XW		XX		XY		XZ		YA		YB		YC		YD		YE		YF		YG		YH		YI		YJ		YK		YL		YM		YN		YO		YP		YQ		YR		YS		YT		YU		YV		YW		YX		YY		YZ		ZA		ZB		ZC		ZD		ZE		ZF		ZG		ZH		ZI		ZJ		ZK		ZL		ZM		ZN		ZO		ZP		ZQ		ZR		ZS		ZT		ZU		ZV		ZW		ZX		ZY		ZZ	
Change customer revision No		Occur		Date		Description (refer drawing file only)		Quantity		Inside 1/32 ± 0.003 in		Outside 1/32 ± 0.003 in		Surface 1/32 ± 0.003 in		ISO 1302		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		DIN 7168		D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

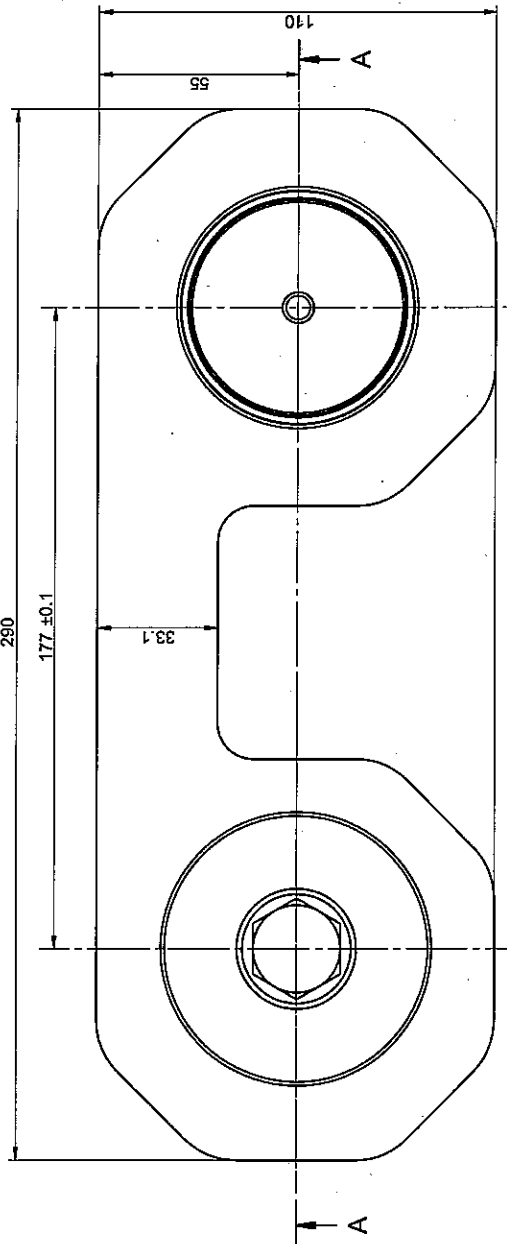
SECTION A-A



Notes: 说明

1. At site installation, stud shall be fastened with Loctite 243.
工地安装时螺栓应用乐泰243防松。
2. Reference drawing 相关图纸:
Gate lever assembly 2422-009296
导叶拐臂装配图, 2422-009296
Wicket gate bearing with seal, 2422-009295
导叶轴承装配图, 2422-009295

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011	720001	Washer 16 垫片	GB97.1-85	1	160H7	0.01
010	720159	Hex. head screw 六角螺栓 M16x120	GB 5782	1	8.8G	0.2
009	AN0507009	Lower cover 下盖板	2422-009292	1	Q235B	0.5
008	AN0507009	Upper cover 上盖板	2422-009291	1	Q235B	0.3
007	AN0507007	Eccentric pin washer 偏心销垫	2422-009290	1	CUSP-PB0138E	0.05
006	AN0507006	Link pin bushing 销轴连接套	2422-009319	1	CUSP-PB0138E	0.13
005	AN0507005	Link pin 连接销	2422-009318	1	TC130H7	2.1
004	AN0507004	Eccentric pin bushing 偏心销套	2422-009317	1	CUSP-PB0138E	0.13
003	AN0507003	Eccentric pin 偏心销	2422-009316	1	TC130H7	2
002	AN0507002	Wicket gate link plate 导叶连接板	2422-009315	1	Q235B	4.7
Item	Material No.	Description	Unit	Quantity	Material	Remark
		名称	单位	数量	材料	备注

CLIENT: **VIETNAM ELECTRICITY EVN**
HYDRO POWER PROJECT MANAGEMENT BOARD No.7

AN KHE HYDROPOWER PLANT
AN KHE-KA NAK HYDROPOWER PROJECT

SUPPLIER: **DONGFANG ELECTRIC CORPORATION**

DRAWING No. OF CLIENT: **2697-AK08-CK-VSS-27** Rev.

Collaboration with: **AN KHE-KA NAK 19483-19484** Material no. **ANK0507001**

Scale of orig. **1:1** Mark sheet(s) **26**

Gate link assembly

Drawing no. **2422-009314** Rev. **A**

VOITH SIEMENS HYDRO POWER GENERATION **2422-009314** Rev. **A**

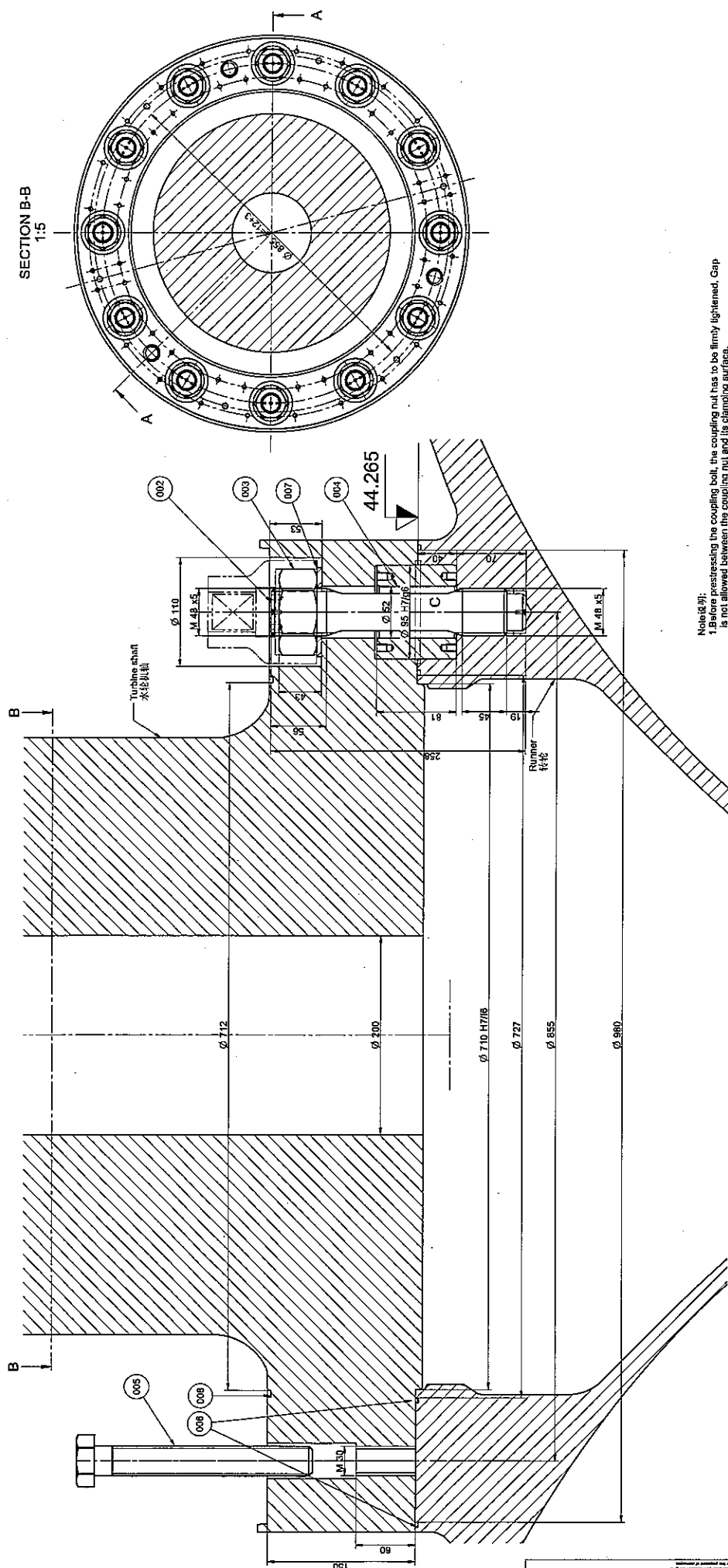
Project **98** PDM Document ID **00912887**

Rev.	Desc.	Date	By	Appr.
01	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
02	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
03	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
04	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
05	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
06	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
07	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
08	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
09	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
10	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
11	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
12	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
13	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
14	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
15	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
16	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
17	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
18	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
19	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO
20	Change customer revision No. 19483-19484	2008-07-11	LJ	SYO

Further detailed information for gate reference

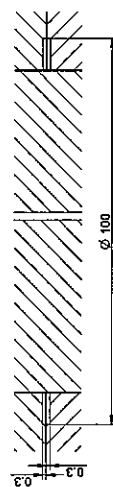
SECTION A-A

SECTION B-B
1:5



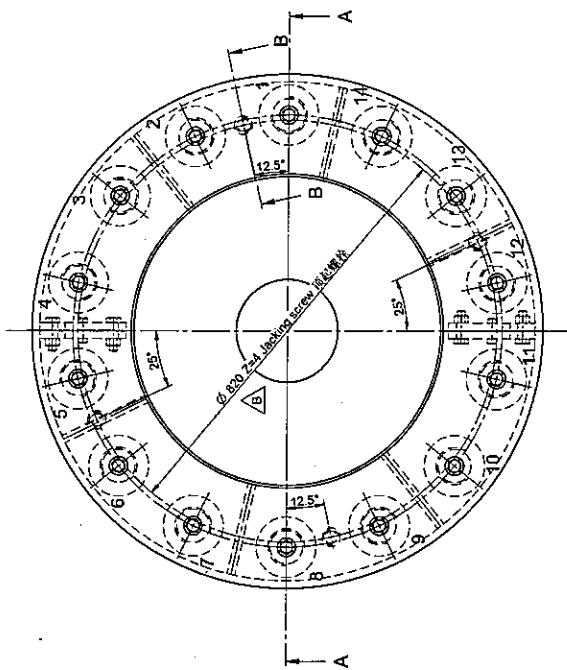
Notes:
Before restricting the coupling bolt, the coupling nut has to be firmly tightened. Gap is not allowed between the coupling nut and the coupling bolt in the clamping surface. 在鎖付螺絲前，螺母與螺絲必須要有間隙存在。
Tightening torque for Assembly: M_{12} 3, 14kNm, elongation of bolt $\Delta s_{M_{12}}$ 0.314+0.02mm. 鎖付螺絲鎖緊力矩為： M_{12} 3, 14kNm，螺絲伸長量 $\Delta s_{M_{12}}$ 0.314+0.02mm。
All bolts and nuts should be secured with Locite 243 at site mounting. 所有螺絲及螺母必須用特種封固（生漆）鎖固（施洛特 243）封固。
T 型鋼梁上，所有螺絲及螺母必須用特種封固（生漆）鎖固（施洛特 243）封固。

详图 DETAIL C

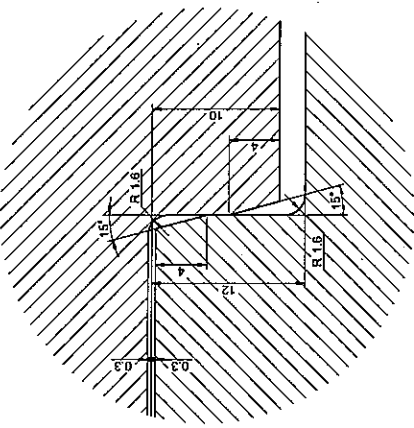
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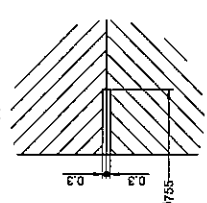
Notes:
1. The coupling bolts holes shall be drilled and reamed to by template, match marked.
利用模板和配合螺栓孔, 最好打光孔。
2. Coupling bolt will be pre-stressed by hydraulic tensiometer.
取樣鋼絲在液壓拉緊器拉緊。
3. Before putting the coupling bolt, the coupling nut has to be firmly tightened.
安裝螺栓前應將螺帽旋緊。
4. Gap is not allowed between the coupling nut and its clamping surface.
鋼絲和螺帽表面、螺帽和其表面不允许有間隙存在。
5. Elongation of coupling bolt after removing hydraulic tensiometer :
AL=0.7b±0.05mm;
Initial assembly preload : F=1.05SKN.
初始安裝預緊力: F=1.05SKN;
Initial assembly elongation : ΔL=0.7b±0.05mm;
初始安裝伸長量: ΔL=0.7b±0.05mm;
6. All bolts and all nuts of item 0216003, 0216004, and bolt 0216005 shall be secured with Locite 243 at all mounting.
所有螺栓和螺帽及零件 0216003、0216004 和螺栓 0216005 均應塗抹樂泰 243 密封。
7. The coupling bolts 0216004 shall have a thread of 1/2" UNF-2A and a thread length of 1.5 times the diameter.
螺栓 0216004 應為 1/2 英寸 UNF-2A 螺紋, 螺紋長度應為直徑的 1.5 倍。



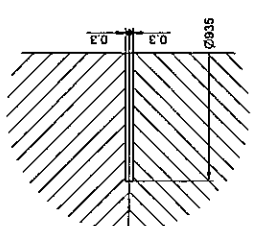
详图 DETAIL Z
5:1



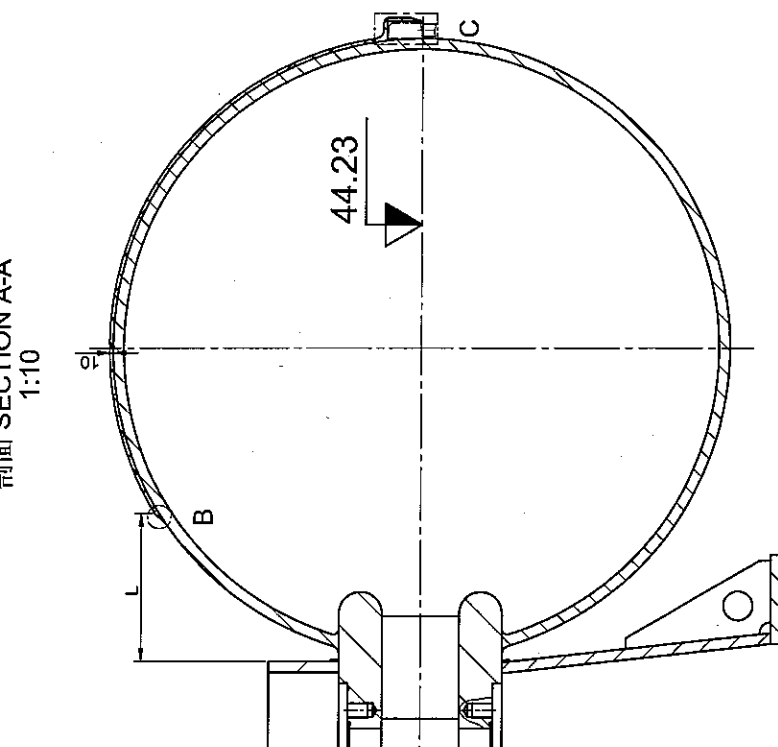
详图 DETAIL
5:1



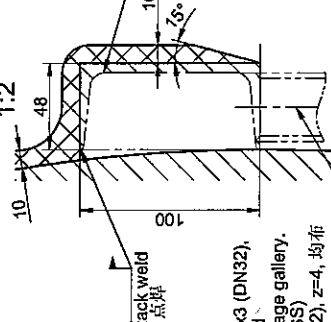
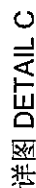
详图 DETAIL X
5:1

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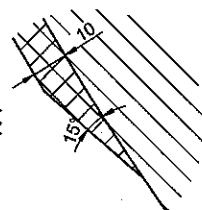
剖面 SECTION A-A
1:10



Profile U-100, GB/T707-88
Seal weld with plate at the end
槽钢 100X48, GB/T707-88
端口用钢板封焊
Not supplied by VSS
工地自备



Drainage pipe $\varnothing 38 \times 3$ (DN32),
z=4, equally spaced
Connected to drainage gallery.
(Not supplied by VSS)
排水管 $\varnothing 38 \times 3$ (DN32), z=4, 均布
接至厂房排水隧道
(电站自备)



Section	量纲	L
1	1	413
2	2	407
3	3	402
4	4	398
5	5	395
6	6	392
7	7	389
8	8	383
9	9	376
10	10	367
11	11	354
12	12	338
13	13	320
14	14	304
15	15	286
16	16	268
17	17	250
18	18	230
19	19	209
20	20	186
21	21	163
Total Area	总面	积
		27.5 m ²


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CLIENT: VIETNAM ELECTRICITY

HYDRO POWER PROJECT MANAGEMENT BOARD No.7

ANKHE HYDROPOWER PLANT

AN KHE-KA NAK HYDROPOWER PROJECT

SUPPLIER:  **DONGFANG ELECTRIC CORPORATION**

DRAWING No. OF CLIENT:	2697-AK08-CK-VSS-31	Rev.	F
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code word Unit 16 日本舞	Material no. 0014	ANK0421001
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AN KHE-KA NAK	Scale of orig.	1:30	Mass (Weight)
19483-19484	14 M		4.5 (1.2)

3403-13404	2007	Date 11/11	Name 29 M	Title 經理	姓名
					學歷(年)

Dimensions in mm	11-13	SYQ
	2008-7-15	SHN SYQ
06g 24t		

Spiral case elastic layer

Depositor ENG	Rem. 役者
YOUTH SIEMENS	Drawing no. 組号
PLEASE NOTE	Sheet 表紙

VOITH SIEMENS	2422-009769	A	1
HYDRO POWER GENERATION			155

Locality	98	PDM Document ID	00327893	A3
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2	1	SEV10
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