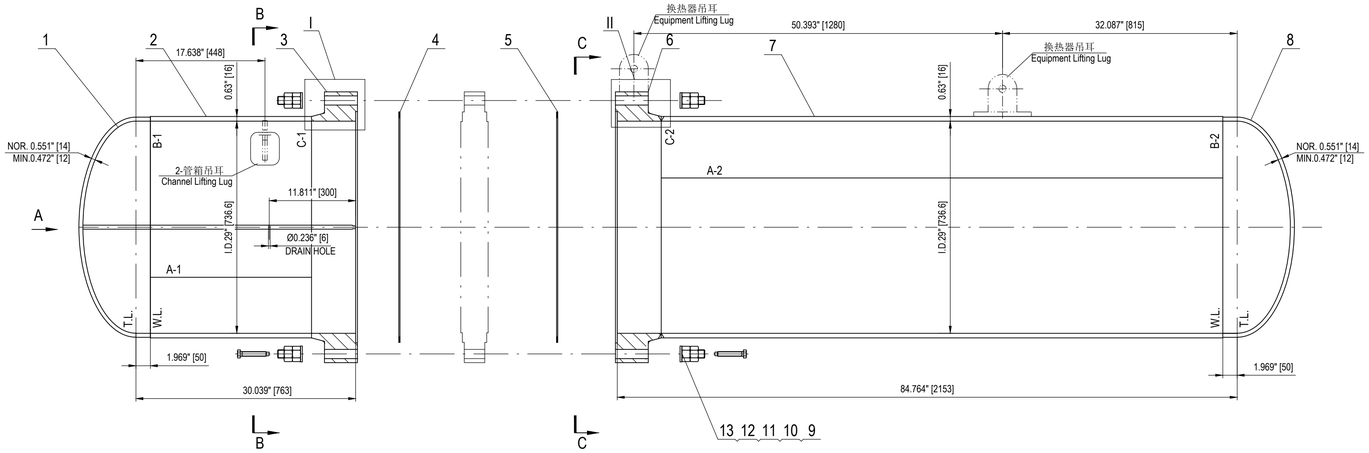
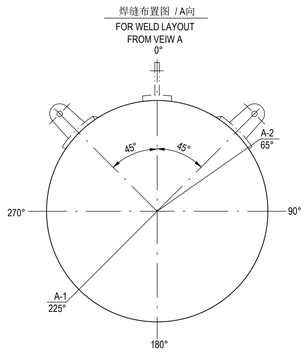
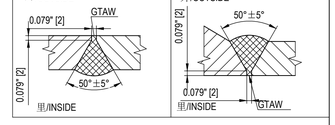
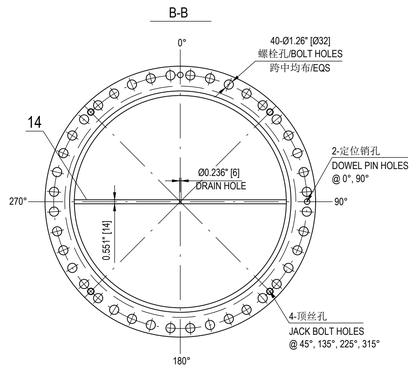
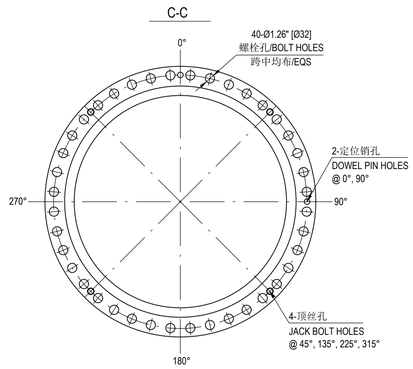


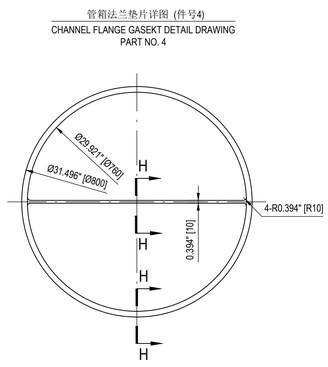


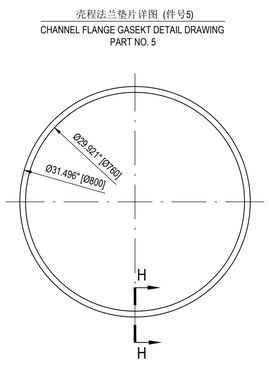
1	A-1,A-2,B-1,B-2	2	C-1,C-2







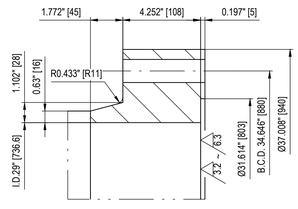




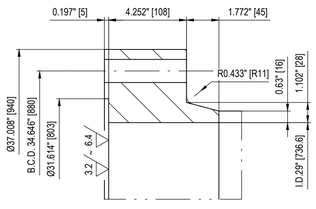
注/NOTE
1.垫片为KAMMPROFILE(或FLEXITALLIC 或LAMONS制作)垫片, 由3mm厚SS316L金属板和上下两层0.5mm厚的石墨组成; THE GASKET IS KAMMPROFILE(EITHER FLEXITALLIC OR LAMONS MAKE)。THICKNESS OF PERIPHERAL GASKETS SHALL BE 3mm+0.5mm+0.5mm GRAPHITE LAYERS IN BOTH SIDES. SERRATED METAL MATERIAL IS SS316L.
2.垫片系数：
GASKET FACTORY IS m=4.25,y=10100 psi.

17	ISO 7434	紧定螺钉 SET SCREW	10+2	22H	/	/	
16		顶丝 JACK BOLT	8	SA-479 304	0.5	4.0	
15		定位销 Ø16 L=133 DOWEL PIN	2	SA-479 304	/	/	
14		分程隔板 t=14 PASS PARTITION PLATE	1	SA-516 Gr.70N		76	
13		螺纹肩 THREAD COLLAR	10+2	SA-194 Gr.2H	0.1	1.0	
12		锁止螺柱 LOCKING BOLT	10+2	SA-193 Gr.B7	2.6	26	
11	ASME PCC-1-2019 APPENDIX M	垫圈 1 1/8" WASHER	80+8	TYPE 4	/	/	
10	ASME B18.2.2-2022	重型六角螺母 1 1/8"-8UN-2B HEAVY HEX HEAVY NUTS	160+16	SA-194 Gr.2H	0.35	56	
9	ASME B18.2.1-2012(R2021)	全螺纹螺柱 1 1/8" -8UN-2A L=480 FULL THREADED STUD BOLT	30+3	SA-193 Gr.B7	2.4	72	
8		2:1 椭圆封头 ID736.6×14(MIN.12) 2:1 ELLIPTICAL HEAD	1	SA-516 Gr.70N		86	
7		筒体 ID736.6×16 L=1950 SHELL	1	SA-516 Gr.70N		579	
6		壳体法兰 SHELL FLANGE	1	SA-266 Gr.2N		253	
5		壳程法兰垫片 SHELL FLANGE GASKET	1+2	SEE NOTE 1,2	/	/	
4		管箱法兰垫片 CHANNEL FLANGE GASEKT	1+2	SEE NOTE 1,2	/	/	
3		管箱法兰 CHANNEL FLANGE	1	SA-266 Gr.2N		253	
2		管箱短节 ID736.6×16 L=560 CHANNEL SHELL	1	SA-516 Gr.70N		166	
1		2:1 椭圆封头 ID736.6×14(MIN.12) 2:1 ELLIPTICAL HEAD	1	SA-516 Gr.70N		86	
件号 PART NO.	图号或标准号 DWG.NO.OR STD.NO.	名 称 DESIGNATION	数量 QTY.	材 料 MATERIAL	单 EACH 总 TOTAL 重量 (kg) WEIGHT		备 注 REMARKS

详图 I
DETAIL I

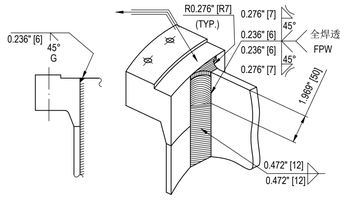


详图 II
DETAIL II

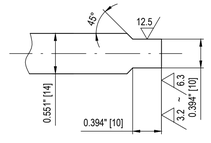


NOTE:
1.The Flatness of gasket seating peripheral surface on body flange tolerance shall be ± 0.008" as per API 660 Clause 9.8.3.
法兰密封面平面度允差 ± 0.008"[0.2]。
2.Future machining allowance of 0.126" has been considered on gasket seating face.
密封面处已考虑0.126"加工余量。

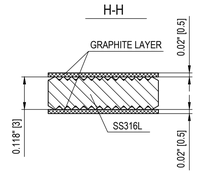
分程隔板焊接详图
DETAIL DRAWING WELDING OF PASS PARTITION



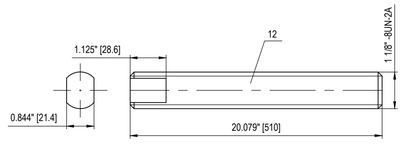
分程隔板端部详图
DETAIL DRAWING OF PASS PARTITION PLATE END



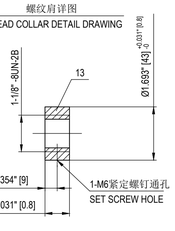
H-H



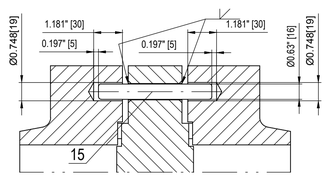
锁止螺柱详图
LOCKING BOLT DETAIL DRAWING



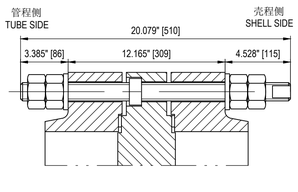
螺纹肩详图
THREAD COLLAR DETAIL DRAWING



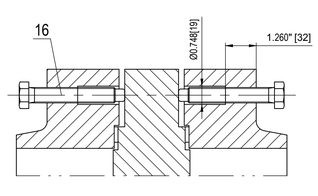
定位销安装详图
DOWEL PIN ASSEMBLY DETAIL DRAWING



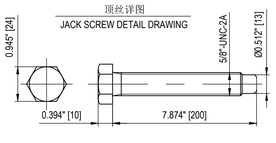
锁止螺柱安装详图
LOCKING BOLT ASSEMBLY DETAIL DRAWING



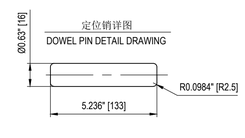
顶丝安装详图
JACK SCREW ASSEMBLY DETAIL DRAWING



顶丝详图
JACK SCREW DETAIL DRAWING



定位销详图
DOWEL PIN DETAIL DRAWING



AIR PRODUCTS　FLUOR

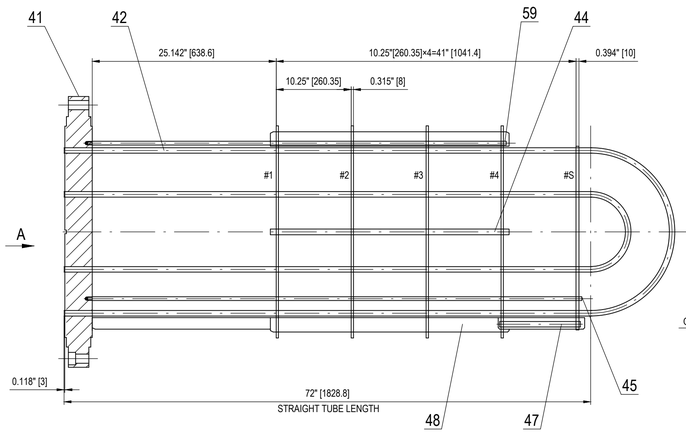
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Project Name	World Energy Renewables Project	RFQ No.	A8KM-4-403-RQ
Purchase Order Number	4505600574	PO/Contract No	A8KM-4-403-PO-2
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Client	WORLD ENERGY PARAMOUNT	Client Doc No	

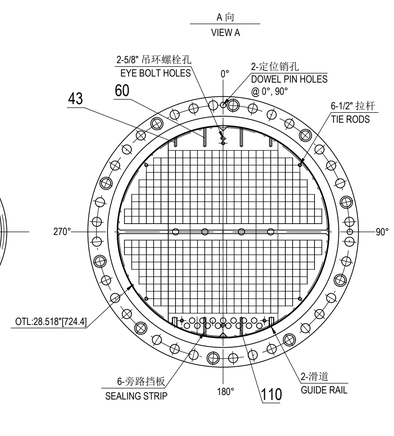
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03	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	21-Oct-22
02	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	19-Aug-22
01	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	10-Jun-22
版次 REV.	版次说明/DESCRIPTION	设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE

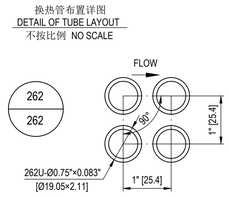
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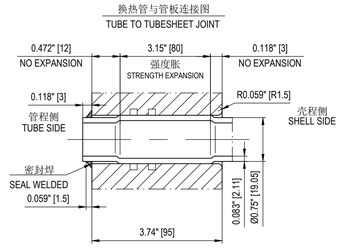
WCE 无锡化工装备股份有限公司
WUXI CHEMICAL EQUIPMENT CO.,LTD.

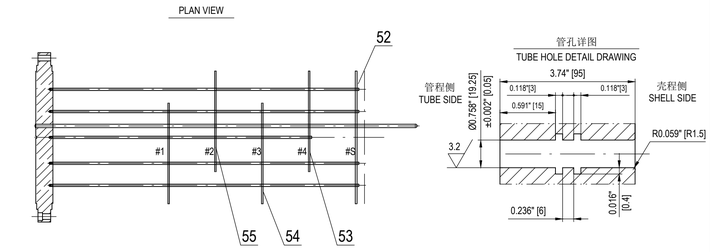
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设计阶段 DESIGN PHASE	详细设计 Detail Design		
设 计 PREPARED		DEBUTANIZER REBOILER SHELL DETAIL DRAWING	设备位号 ITEM NO. 18-X-381
审 核 REVIEWED			图 号 DWG. NO. WXCE6713-01
批 准 APPROVED		比 例: SCALE 1:1	版 次: REV. 04
			第 1 页 共 1 页 PAGE 1 OF 1

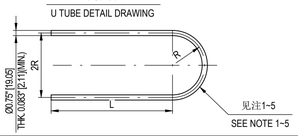








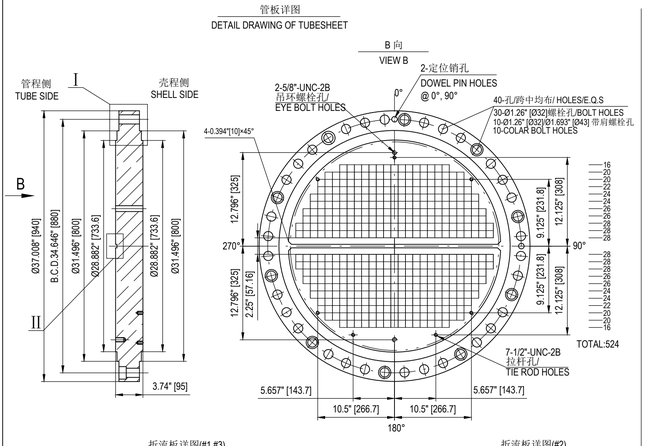


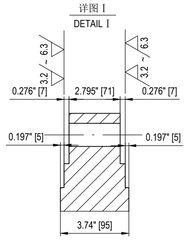


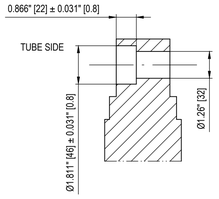
注/NOTE:
1.换热管应逐根水压试验，还需按照SA-450/SA-450M进行涡流检测。电测试验应覆盖换热管整个体积，钢管厂提供的试验报告应能证明对换热管进行的所有无损检测类型和范围。
Eddy Current test per SA-450/SA-450M shall be used in addition to hydrostatic test. Electric test shall cover the entire metal volume of the tube. Mill test reports shall verify the type and extent of the all NDE tests applied to tubes.
2.弯管后，U形管将100% MT检测
After bending, the U-tube shall be subject to 100% MT
3.U形管弯曲后应逐个进行水压试验，试验压力不应低于换热器管侧和壳侧试验压力的较大值
After bending, the U-tube shall be subject to hydrostatic test one by one, and the test pressure shall not be lower than the larger value of the test pressure of the tube side and shell side of the heat exchanger
4.弯管的扁平度不应超过管子公称外径的10%,U型段的减薄率不应超过管子厚度的17%。
Flattening at the bend shall not exceed 10% of the nominal tube outside diameter.Thinning in the bends shall not exceed a nominal 17% of original tube wall thickness.
5.换热管应为无缝钢管，每根U形管应由整根管子制成。
The tubes shall be seamless, U-tubes shall be of one piece construction.
6.U型管成型后，弯管段加150mm直管段应进行消应力处理。
After the U-shaped heat exchange tube is formed, the bent section plus 150mm straight tube section should be stress relief treatment.

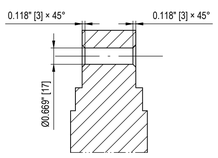
U型换热管数据表/DATA TABLES OF U TUBES

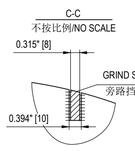
序号 ITEM.	直管段L(mm) STRAIGHT LENGTH	弯曲半径R(mm) BENDING R(mm)	换热管展开长度 TUBE LENGTH (mm)	管数 QTY.	单重(Kg) UNIT WEIGHT	总重(Kg) TOTAL WEIGHT	消应力 STRESS RELIEVING
1	72" [1828.8]	1.125" [28.58]	147.534 [3747.4]	28	3.63	101.7	YES/要
2	72" [1828.8]	2.125" [53.98]	150.676 [3827.2]	28	3.71	103.9	YES/要
3	72" [1828.8]	3.125" [79.38]	153.817 [3907.0]	28	3.79	106.1	YES/要
4	72" [1828.8]	4.125" [104.78]	156.959 [3986.8]	26	3.87	100.5	YES/要
5	72" [1828.8]	5.125" [130.18]	160.101 [4066.6]	26	3.94	102.5	YES/要
6	72" [1828.8]	6.125" [155.58]	163.242 [4146.4]	24	4.02	96.5	YES/要
7	72" [1828.8]	7.125" [180.98]	166.384 [4226.1]	24	4.10	98.3	YES/要
8	72" [1828.8]	8.125" [206.38]	169.525 [4305.9]	22	4.18	91.9	YES/要
9	72" [1828.8]	9.125" [231.78]	172.667 [4385.7]	20	4.25	85.1	YES/要
10	72" [1828.8]	10.125" [257.18]	175.809 [4465.5]	20	4.33	86.6	YES/要
11	72" [1828.8]	11.125" [282.58]	178.950 [4545.3]	16	4.41	70.5	YES/要

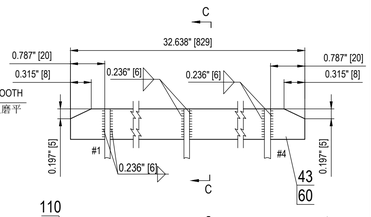




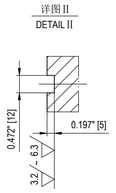


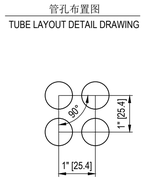


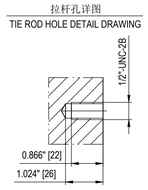


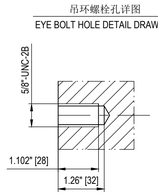


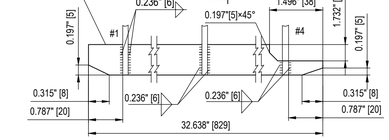
NOTE:
1.The Flatness of gasket seating peripheral surface on tubesheet tolerance shall be ± 0.008" as per API 660 Clause 9.8.3.
管板密封面平面度允差 ± 0.008"[0.2]。
2.Future machining allowance of 0.126" has been considered on gasket seating face.
密封面处已考虑0.126"加工余量。

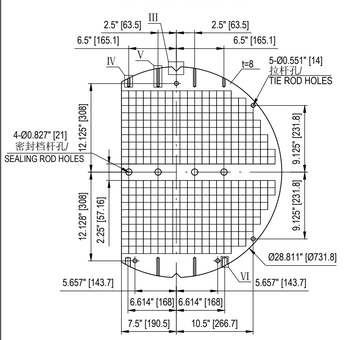


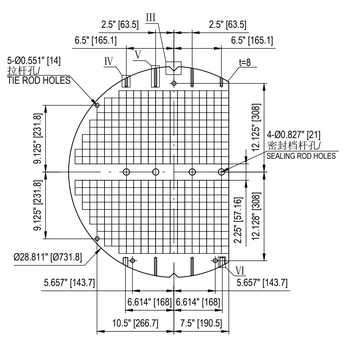


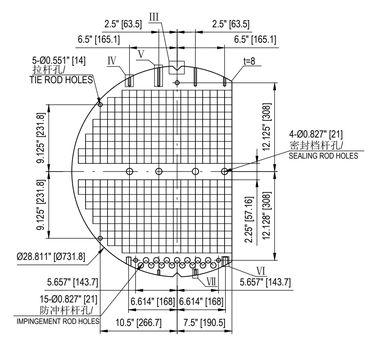


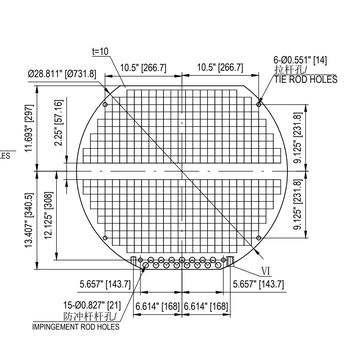




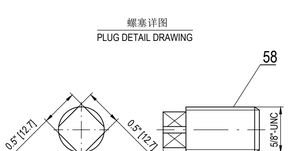


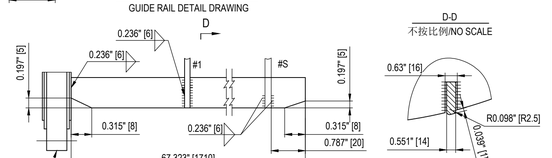


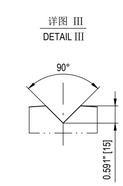


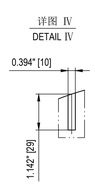


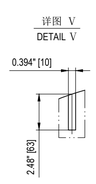


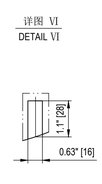


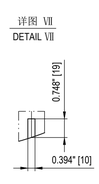


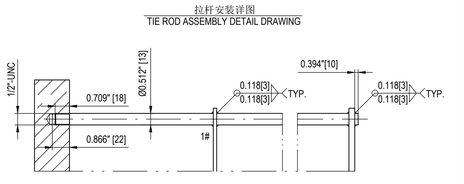


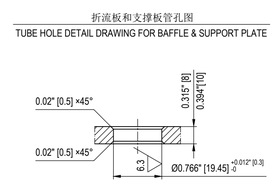


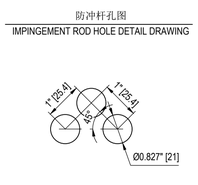


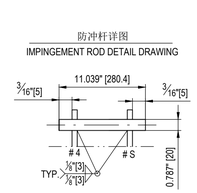


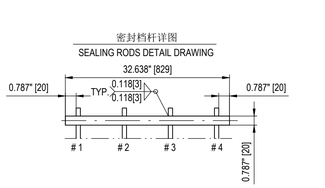












件号 PART NO.	图号或标准号 DWG.NO.OR STD.NO.	名称 DESIGNATION	数量 QTY.	材料 MATERIAL	单重 EACH (kg)	总重 TOTAL WEIGHT	备注 REMARKS
110		旁路挡板 64×829×8 SEALING STRIPS	2	SA-516 Gr.70N	3.3	6.6	
60		旁路挡板 64×829×8 SEALING STRIPS	2	SA-516 Gr.70N	3.3	6.6	
59		拉杆 Ø13 L=1456 TIE ROD	1	SA-36	/	/	
58		螺塞 PLUG	2	SA-105N	/	/	
57	CROSBY S-279	吊环螺栓 5/8"-UNC L=28 EYE BOLT	2	SA-105N	/	/	
56		删除 DELETE					
55		折流板#2 t=8 BAFFLE	1	SA-516 Gr.70N		13	
54		折流板#1,#3 t=8 BAFFLE	2	SA-516 Gr.70N	13	26	
53		折流板#4 t=8 BAFFLE	1	SA-516 Gr.70N		13	
52		支撑板 t=10 SUPPORT PLATE	1	SA-516 Gr.70N		20.5	
51		删除 DELETE					
50		删除 DELETE					
49		删除 DELETE					
48		滑道板 31×1710×14 GUIDE RAIL PLATE	2	SA-516 Gr.70N	5.8	11.6	
47		防冲杆 Ø20 L=280.4 IMPINGEMENT ROD	15	SA-36	0.7	10.4	
46		删除 DELETE					
45		拉杆 Ø13 L=1718 TIE ROD	6	SA-36	1.6	9.6	
44		密封档杆 Ø20 L=829 SEALING ROD	4	SA-36	2.0	8.0	
43		旁路挡板 31×829×8 SEALING STRIPS	2	SA-516 Gr.70N	1.6	5.4	
42		U形换热管 Ø19.05×2.11(min) U TYPE TUBE	262U	SA-179		941	
41		管板 TUBE SHEET	1	SA-266 Gr.2N		380	

AIR PRODUCTS　FLUOR

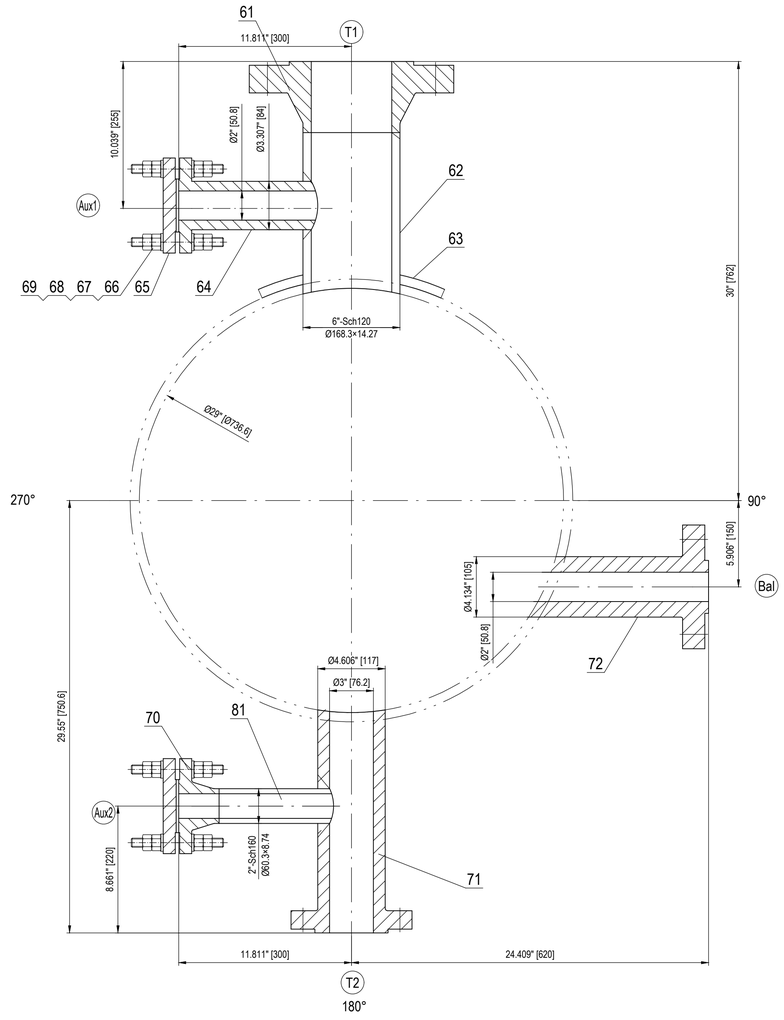
Air Products Project Number	EN207120	Fluor Project Number	A8KM	
Project Name	World Energy Renewables Project	RFQ No.	A8KM-4-403-RQ	
Purchase Order Number	4505600574	PO/Contract No	A8KM-4-403-PO-2	
Air Products Open Text document number	EN207120-WUXI-9V3-00043	Project Area	Naphtha/PRU	
Client	WORLD ENERGY PARAMOUNT	Client Doc No		

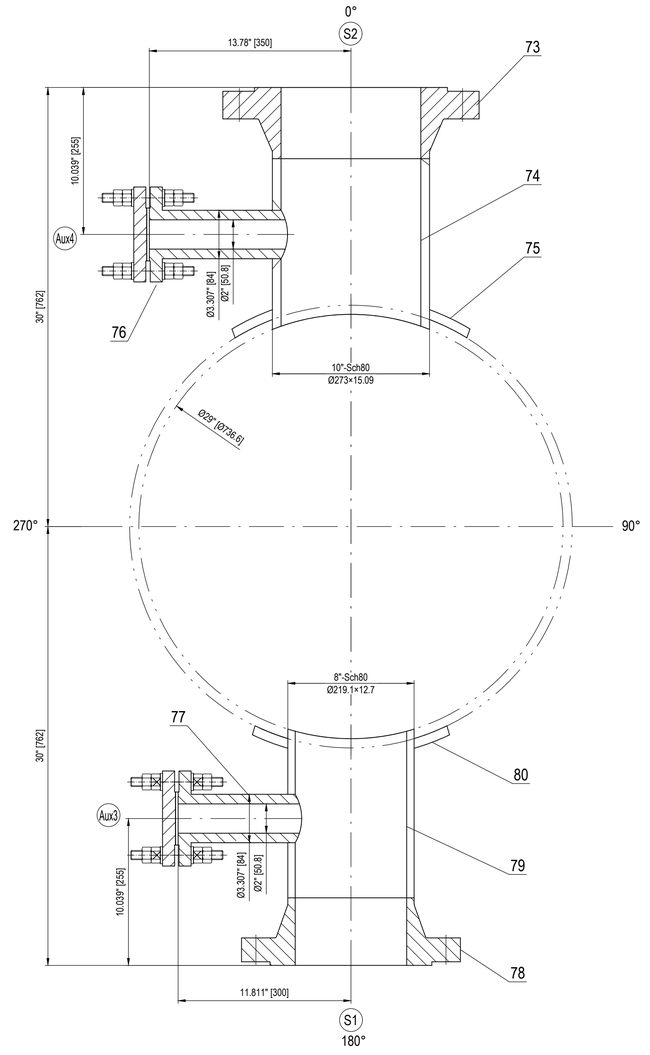
版次 REV.	版次说明/DESCRIPTION	设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE
04	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	16-Jan-23
03	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	21-Oct-22
02	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	19-Aug-22
01	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	10-Jun-22

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设计项目 DESIGN ITEM	World Energy Renewables Project		
设计阶段 DESIGN PHASE	详细设计 Detail Design		
设备位号 ITEM NO.	18-X-381		
图号 DWG. NO.	WXCE6713-02		
设计 PREPARED		DEBUTANIZER REBOILER BUNDLE DETAIL DRAWING	
审核 REVIEWED			
批准 APPROVED			
比例：SCALE	1:1	版次：REV.	04
第 1 页 共 1 页 PAGE 1 OF 1			



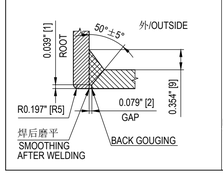


注/Note:

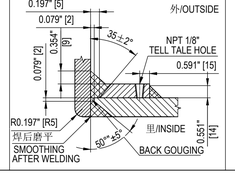
1. 4.5mm厚316L缠绕垫，填充带为柔性石墨，内环为SS316L，外环为316L。
   4.5 mm thk. 316L Spiral Wound, Graphite Filled, SS316L inner and 316L outer ring.
   供应商：
   The gasket manufactures shall be Flexitallic styles CGI or Lamons styles WRI, WRI-LC.

件号 PART NO.	图号或标准号 DWG.NO.OR STD.NO.	名称 DESIGNATION	数量 QTY.	材料 MATERIAL	单 EACH	总 TOTAL 重量 (kg) WEIGHT	备注 REMARKS
81		接管 Ø60.3×5.54 PIPE	1	SA-106 Gr.B		2.5	NOZZLE Aux2
80		补强圈 t=16 REINFORCING PAD	1	SA-516 Gr.70N		7.4	NOZZLE S1
79		Ø219.1×12.7 PIPE	1	SA-106 Gr.B		19.1	NOZZLE S1
78	ASME B16.5-2017	法兰 WN 8"-300# RF Sch80 FLANGE	1	SA-105N		31.3	NOZZLE S1
77	ASME B16.5-2017	法兰 LWN 2"-300# RF B=50.8 FLANGE	1	SA-105N		8.4	NOZZLE Aux3
76	ASME B16.5-2017	法兰 LWN 2"-300# RF B=50.8 FLANGE	1	SA-105N		8.4	NOZZLE Aux4
75		补强圈 t=16 REINFORCING PAD	1	SA-516 Gr.70N		10.5	NOZZLE S2
74		接管 Ø273×15.09 PIPE	1	SA-106 Gr.B		28.6	NOZZLE S2
73	ASME B16.5-2017	法兰 WN 10"-300# RF Sch80 FLANGE	1	SA-105N		45.4	NOZZLE S2
72	ASME B16.5-2017	法兰 LWN 2"-900# RF B=50.8 FLANGE	1	SA-105N		18.9	NOZZLE Bal
71	ASME B16.5-2017	法兰 LWN 3"-600# RF B=76.2 FLANGE	1	SA-105N		16.4	NOZZLE T2
70	ASME B16.5-2017	法兰 WN 2"-300# RF Sch80 FLANGE	1	SA-105N		3.6	NOZZLE Aux2
69	ASME B16.20-2017	缠绕垫 2"-300# RF SPRIAL WOUND GASKET	4+8	见注 1 SEE NOTE 1	/	/	NOZZLE Aux1~4
68	ASME PCC-1-2019 APPENDIX M	硬质垫圈 5/8" HARDENED WASHER	64+6	TYPE 4	/	/	NOZZLE Aux1~4
67	ASME B18.2.2-2022	重型六角螺母 5/8"-11UNC-2B HEAVY HEX NUTS	128+14	SA-194 Gr.2H	/	/	NOZZLE Aux1~4
66	ASME B18.2.1-2012(R2021)	全螺纹螺柱 5/8"-11UNC-2A L=160 FULL THREADED STUD	32+3	SA-193 Gr.B7	0.3	9.6	NOZZLE Aux1~4
65	ASME B16.5-2017	法兰盖 BL 2"-300# RF BLIND	4	SA-105N	3.6	14.4	NOZZLE Aux1~4
64	ASME B16.5-2017	法兰 LWN 2"-300# RF B=50.8 FLANGE	1	SA-105N		8.4	NOZZLE Aux1
63		补强圈 t=16 REINFORCING PAD	1	SA-516 Gr.70N		6.1	NOZZLE T1
62		接管 Ø168.3×14.27 PIPE	1	SA-106 Gr.B		15	NOZZLE T1
61	ASME B16.5-2017	法兰 WN 6"-600# RF Sch120 FLANGE	1	SA-105N		33.1	NOZZLE T1

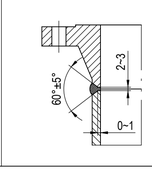
W1 不带补强圈的接管与壳体焊接详图 N0 REINFORCED NOZZLE TO SHELL



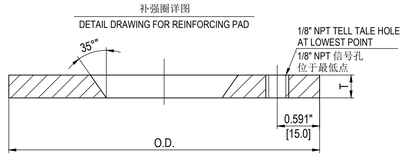
W2 带补强圈接管与壳体连接 REINFORCED NOZZLE TO SHELL



W3 WN管法兰与接管连接 WN NECK TO NOZZLE



补强圈详图
DETAIL DRAWING FOR REINFORCING PAD



补强圈尺寸表 REINFORCEMENTS CHART

管口代号 NOZZLE MARK	件号 PART NO.	外径 O.D.	厚度 T	备注 REMARKS
T1	63	11.811" [300]	0.63" [16]	整板下料 ONE PIECE
S2	75	16.732" [425]	0.63" [16]	整板下料 ONE PIECE
S1	80	13.78" [350]	0.63" [16]	整板下料 ONE PIECE

AIR PRODUCTS　FLUOR

Air Products Project Number	EN207120	Fluor Project Number	A8KM
Project Name	World Energy Renewables Project	RFQ No.	A8KM-4-403-RQ
Purchase Order Number	4505600574	PO/Contract No	A8KM-4-403-PO-2
Air Products Open Text document number	EN207120-WUXI-9V3-00043	Project Area	Naphta/PRU
Client	WORLD ENERGY PARAMOUNT	Client Doc No	

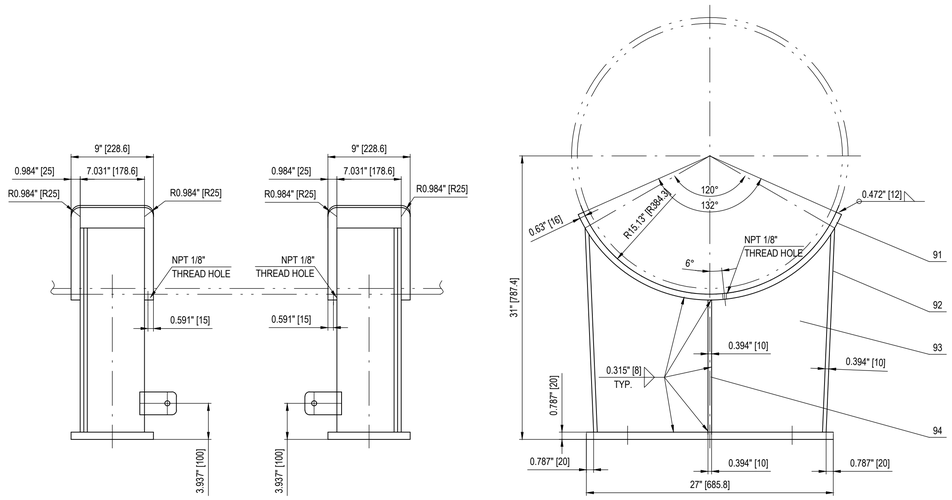
版次 REV	版次说明/DESCRIPTION	设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE
04	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	21-Oct-22
03	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	21-Oct-22
02	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	19-Aug-22
01	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	10-Jun-22

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设计项目 DESIGN ITEM	World Energy Renewables Project		
设计阶段 DESIGN PHASE	详细设计 Detail Design		
设计 PREPARED		DEBUTANIZER REBOILER NOZZLE DETAIL DRAWING	设备位号 ITEM NO. 18-X-381
审核 REVIEWED			图号 DWG. NO. WXCE6713-03
批准 APPROVED		比例: SCALE 1:1	版次: REV. 04
			第 1 页 共 1 页 PAGE 1 OF 1

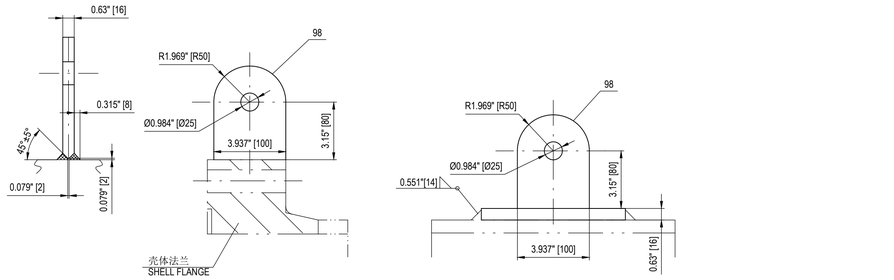
鞍座详图
SADDLE DETAIL DRAWING



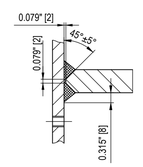
固定鞍座
FIXED SADDLE

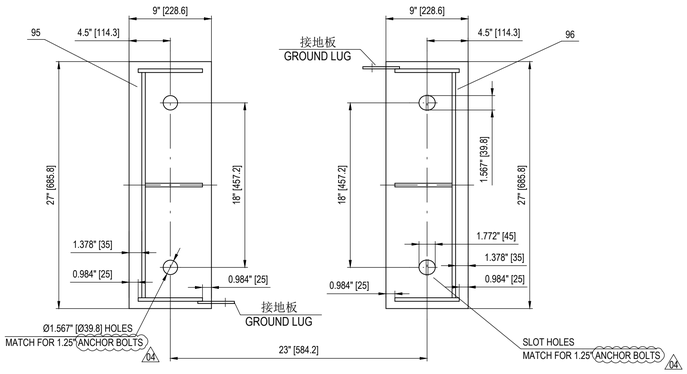
滑动鞍座
SLIDING SADDLE

设备吊耳详图
EQUIPMENT LIFTING LUG DETAIL DRAWING

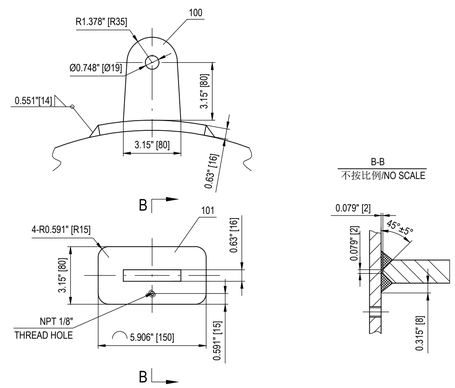


A-A
不按比例/NO SCALE



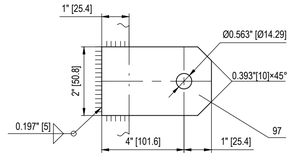


管箱吊耳详图
CHANNEL LIFTING LUG DETAIL DRAWING

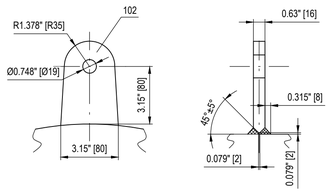


B-B
不按比例/NO SCALE

接地板详图
GROUND LUG DETAIL



管板吊耳详图
TUBESHEET LIFTING LUG DETAIL DRAWING



件号 PART NO.	图号或标准号 DWG.NO.OR STD.NO.	名称 DESIGNATION	数量 QTY.	材料 MATERIAL	单 EACH 总 TOTAL 重量 (kg) WEIGHT		备注 REMARKS
102		管板吊耳 t=16 TUBESHEET LIFTING LUG	1	SA-516 Gr.70N	1.2	2.4	
101		吊耳垫板 t=16 CHANNEL LIFTING LUG PAD	2	SA-516 Gr.70N	1.5	3.0	
100		管箱吊耳 t=16 CHANNEL LIFTING LUG PLATE	2	SA-516 Gr.70N	1.2	2.4	
99		设备吊耳垫板 t=16 EQUIPMENT LIFTING LUG PAD	1	SA-516 Gr.70N		2.8	
98		设备吊耳板 t=16 EQUIPMENT LIFTING LUG PLATE	2	SA-516 Gr.70N	2.1	4.2	
97		接地耳 t=6 EARTHING LUG	2	SA-240 304	0.3	0.6	
96		底板 t=20 BASE PLATE	1	SA-516 Gr.70N		24.6	
95		底板 t=20 BASE PLATE	1	SA-516 Gr.70N		24.6	
94		筋板 t=10 RIB RLATE	2	SA-516 Gr.70N	5.2	10.4	
93		腹板 t=10 WEB PLATE	2	SA-516 Gr.70N	38.5	77	
92		筋板 t=10 RIB RLATE	4	SA-516 Gr.70N	8.0	32	
91		垫板 t=16 WEAR PLATE	2	SA-516 Gr.70N	30	60	

AIR PRODUCTS　FLUOR

Air Products Project Number	EN207120	Fluor Project Number	A8KM
Project Name	World Energy Renewables Project	RFQ No.	A8KM-I-403-RQ
Purchase Order Number	4505600574	PO/Contract No	A8KM-I-403-PO-2
Air Products Open Text document number	EN207120-WUXI-9V3-00043	Project Area	Naphtha/PRU
Client	WORLD ENERGY PARAMOUNT	Client Doc No	

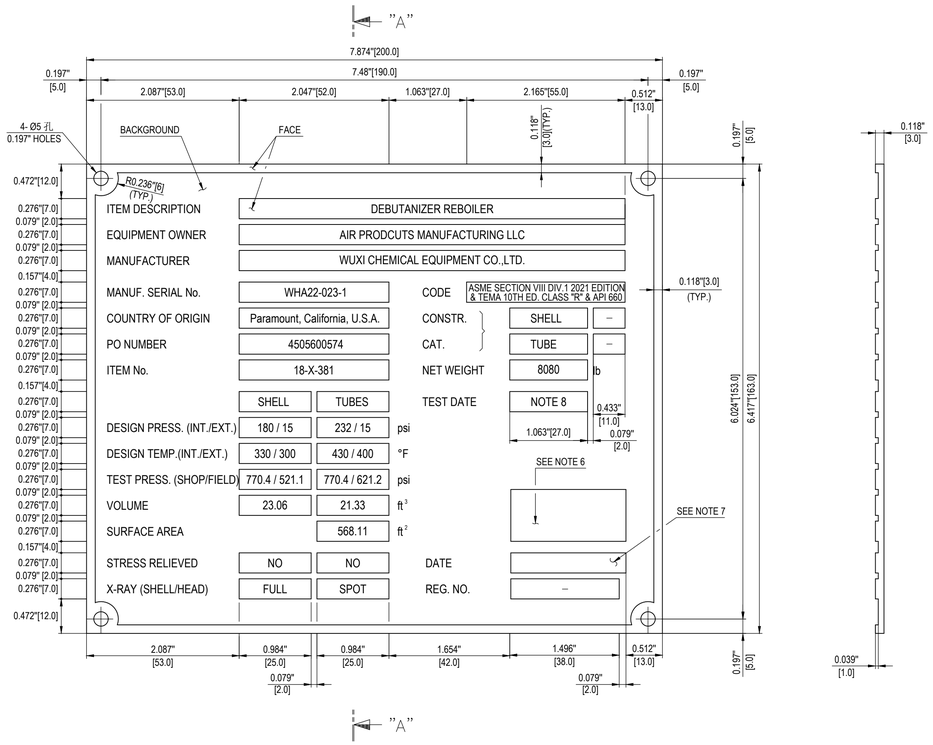
版次 REV	版次说明/DESCRIPTION	设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE
04	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	16-Jan-23
03	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	21-Oct-22
02	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	19-Aug-22
01	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	10-Jun-22

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WUXI CHEMICAL EQUIPMENT CO.,LTD.

设计项目 DESIGN ITEM	World Energy Renewables Project		
设计阶段 DESIGN PHASE	详细设计 Detail Design		
设计 PREPARED		DEBUTANIZER REBOILER	设备位号 ITEM NO. 18-X-381
审核 REVIEWED		SADDLE AND LIFTING LUG DETAIL DRAWING	图号 DWG. NO. WXCE6713-04
批准 APPROVED		比例: SCALE 1:1	版次: REV. 04
			第 1 页 共 1 页 PAGE 1 OF 1

标准铭牌详图
DETAIL OF STANDARD NAME PLATE



注:
1. 除注明外，所有尺寸均以英制为准，括号外为英制尺寸，括号内为米制尺寸。
2. 完成后：铭牌表面抛光处理包括采用铸印字，背影凸起,并
涂上黑色油漆。
3. 日期：抛光表面要插入的日期（英文）。标志可用蚀刻或
模压方法标在铭牌上，标志字符高度不小于0.157"[4mm]，字符深度不少于0.004"[0.1mm]。
4. 铭牌位置见设备装配图。
5. 水压试验后由AI和质量控制检验员一起进行钢印。

*1: NB *2: A_{M_E} U

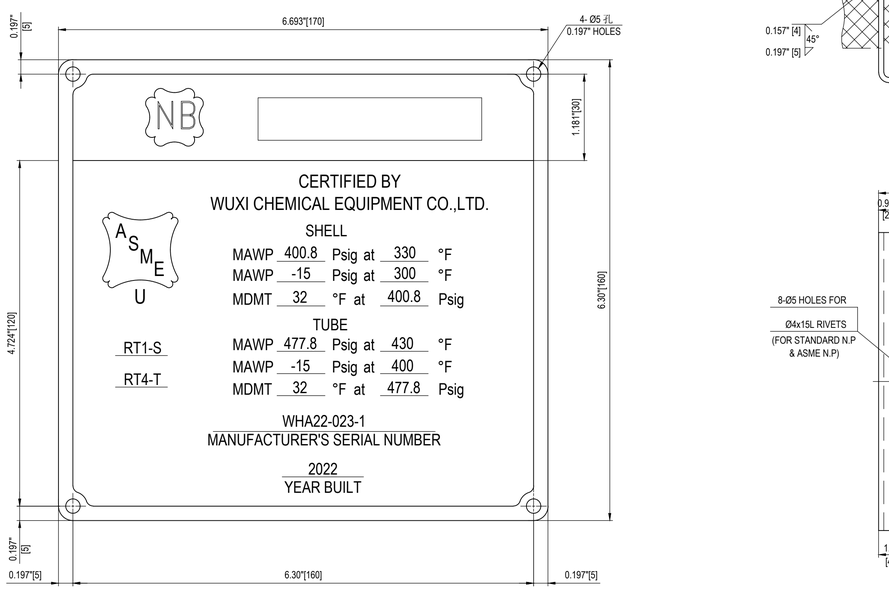
6. 批准钢印空间。
7. 批准日期。（示例：2019年3月1日）
8. 试验日期指压力试验日期。
9. REG. NO.:注册号。

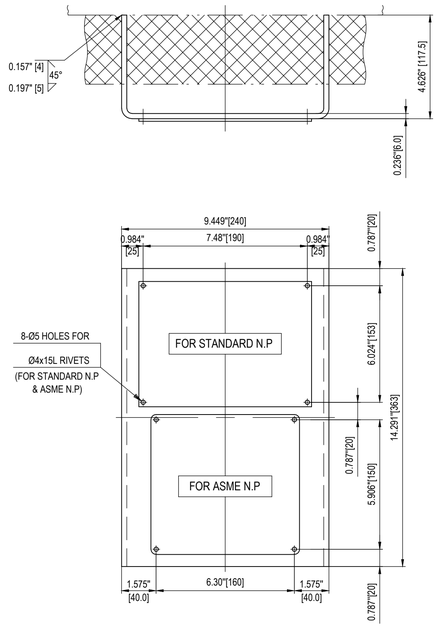
NOTES
1. ALL DIMENSIONS SHALL BE IN US CUSTOMARY UNIT AS PRIMARY UNIT AND METRIC UNIT SHOWN IN BRACKET, UNLESS OTHERWISE SPECIFIED.
2. FINISH : "FACE" MACHINED AND POLISHED INCLUDING CAST LETTERING.
BACKGROUND KNURLED AND PAINTED BLACK.
3. DATE : DATE ON POLISHED SURFACE IS TO BE INSERTED(IN THE ENGLISH LANGUAGE)
BY MEANS OF ENGRAVING OR HARD STAMPING AND MUST BE CLEARLY LEGIBLE.
THE HEIGHT OF THE LETTERING SHOULD BE APPROX. 0.157"[4mm].
THE DEPTH OF THE LETTERING SHOULD BE APPROX. 0.004"[0.1mm].
4. FOR NAME PLATE LOCATION, SEE ASS'Y DWG. OF EQUIPMENT
5. STAMPING SHALL BE MADE BY Q.C INSPECTOR
AFTER HYDROSTATIC TEST WITH CONCURRANCE OF A.I

*1: NB *2: A_{M_E} U

6. SPACE FOR AUTHORITY APPROVAL STAMP.
7. DATE OF AUTHORITY APPROVAL. (EXAMPLE : 01 MAR 2019)
8. TEST DATE MEANS DATE OF PRESSURE TEST.
9. REG. NO.:REGSTRATION NUMBER.
10. LETTERS AND FIGURES ON ASME NAME PLATES SHALL NOT BE LESS THAN 0.157" (4 MM) HIGH.

SECTION "A"-"A"





104		铆钉 Ø4X14 RIVET	8	SS304		/	
103		ASME铭牌 t=3 ASME NAMEPLATE	1	SS304		0.4	
102		标准铭牌 t=3 STANDARD NAMEPLATE	1	SS304		0.7	
101		支架 t=6 BRACKET	1	SA-516 Gr.70N		3.9	
件号 PART NO.	图号或标准号 DWG. OR STD. NO.	名 称 DESCRIPTION	数量 QTY.	材 料 MATERIAL	单件EACH 重量 WT.（kg）	总计SUM	备 注 REMARK

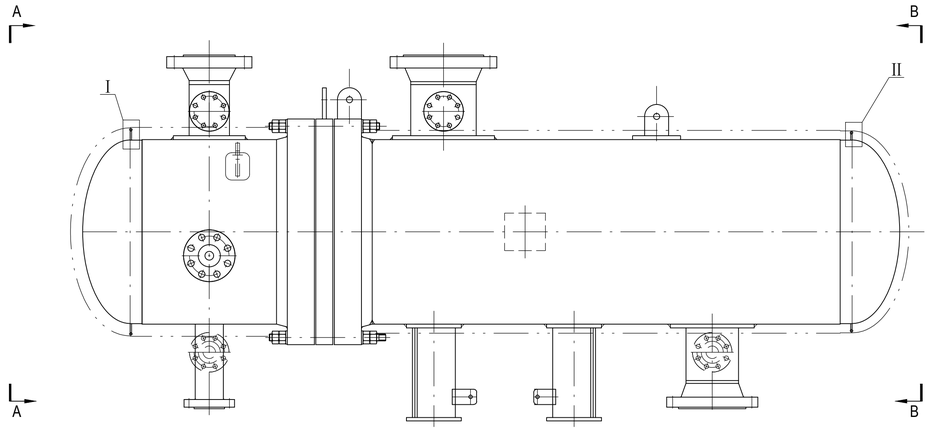
AIR PRODUCTS FLUOR

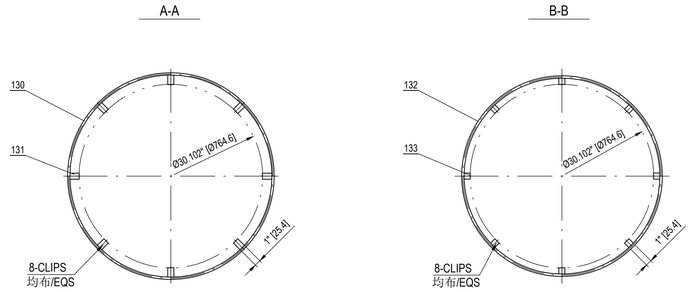
Air Products Project Number	EN207120	Fluor Project Number	A8KM		
Project Name	World Energy Renewables Project	RFQ No.	A8KM-4-403-RQ		
Purchase Order Number	4505600574	PO/Contract No	A8KM-4-403-PO-2		
Air Products Open Text document number	EN207120-WUXI-9V3-00043	Project Area	Napthta/PRU		
Client	WORLD ENERGY PARAMOUNT	Client Doc No			
04	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	16-Jan-23
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01	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	10-Jun-22
版次 REV.	版次说明/DESCRIPTION	设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE

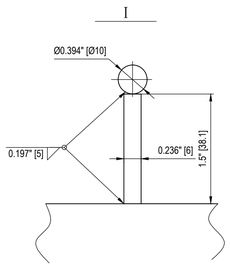
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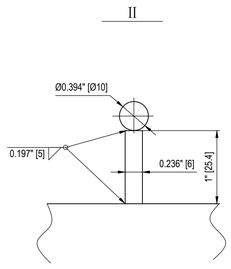
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设计项目 DESIGN ITEM	World Energy Renewables Project				
设计阶段 DESIGN PHASE	详细设计 Detail Design				
设 计 PREPARED			DEBUTANIZER REBOILER	设备位号 ITEM NO.	18-X-381
审 核 REVIEWED			NAMEPLATE DETAIL DRAWING	图 号 DWG. NO.	WXCE6713-05
批 准 APPROVED			比例: SCALE 1:1	版 次: REV. 04	第 1 页 共 1 页 PAGE 1 OF 1









件号 PART NO.	图号或标准号 DWG.NO.OR STD.NO.	名称 DESIGNATION	数量 QTY.	材料 MATERIAL	单重 (kg) EACH	总重 (kg) TOTAL	备注 REMARKS
133		支撑筋板 t=6 INSULATION SUPPORT CLIP	8	SA-516 Gr.70N	0.1	0.8	
132		保温支撑环 Ø10 INSULATION SUPPORT RING	1	SA-36		1.8	
131		支撑筋板 t=6 INSULATION SUPPORT CLIP	8	SA-516 Gr.70N	0.1	0.8	
130		保温支撑环 Ø10 INSULATION SUPPORT RING	1	SA-36		1.6	

AIR PRODUCTS FLUOR

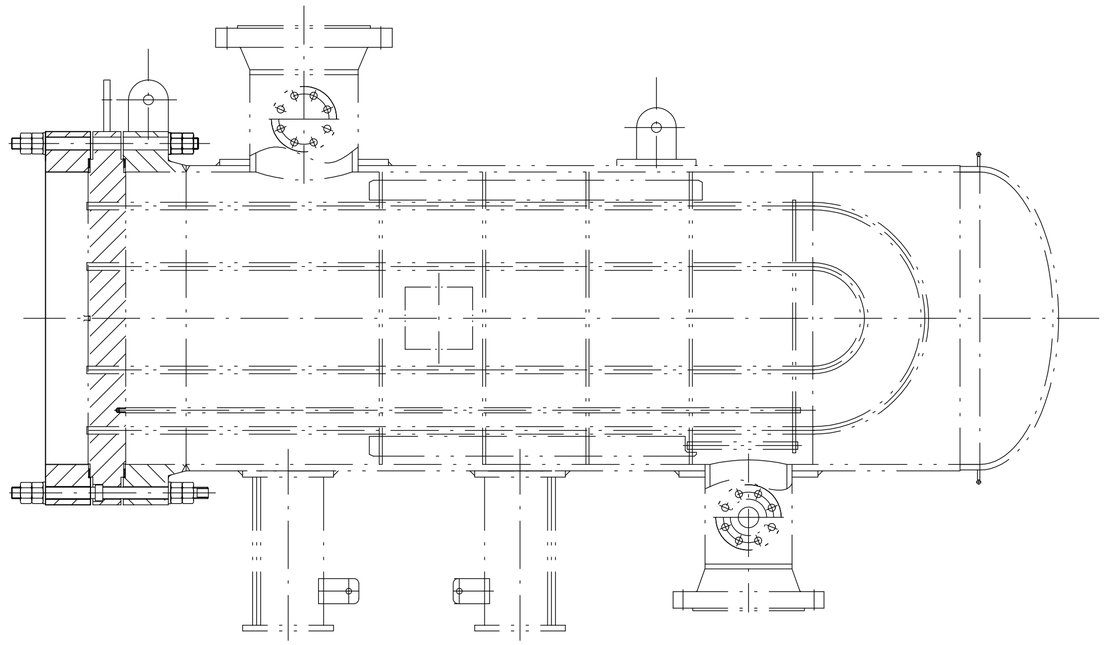
Air Products Project Number	EN207120	Fluor Project Number	A8KM
Project Name	World Energy Renewables Project	RFQ No.	A8KM-4-403-RQ
Purchase Order Number	4505600574	PO/Contract No	A8KM-4-403-PO-2
Air Products Open Text document number	EN207120-WUXI-9V3-00043	Project Area	Naphtha/PRU
Client	WORLD ENERGY PARAMOUNT	Client Doc No	

版次 REV	版次说明/DESCRIPTION	设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE
04	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	16-Jan-23
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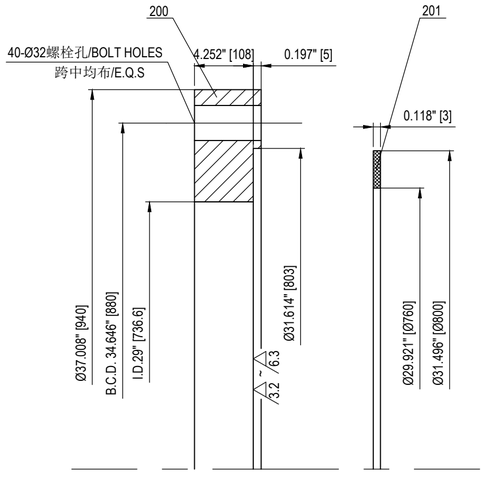
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设计项目 DESIGN ITEM	World Energy Renewables Project			
设计阶段 DESIGN PHASE	详细设计 Detail Design			
设计 PREPARED		DEBUTANIZER REBOILER INSULATION SUPPORT DETAIL DRAWING	设备位号 ITEM NO.	18-X-381
审核 REVIEWED			图号 DWG. NO.	WXCE6713-06
批准 APPROVED		比例: SCALE 1:1	版次: REV. 04	第 1 页 共 1 页 PAGE 1 OF 1



固定管板侧试压环详图
TEST RING SECTION FOR FIXED TUBESHEET
不按比例 NO SCALE



201		垫片 GASKET	1	PTFE		/	
200		试压环 TEST RING	1	SA-266 Gr.2		206	
件号 PART NO.	图号或标准号 DWG. OR STD. NO.	名 称 DESCRIPTION	数量 QTY.	材 料 MATERIAL	单件 EACH 重量 WT.（kg）	总计 SUM	备 注 REMARK

AIR PRODUCTS　FLUOR

Air Products Project Number	EN207120	Fluor Project Number	A8KM
Project Name	World Energy Renewables Project	RFQ No.	A8KM-4-403-RQ
Purchase Order Number	4505600574	PO/Contract No	A8KM-4-403-PO-2
Air Products Open Text document number	EN207120-WUXI-9V3-00043	Project Area	Napthta/PRU
Client	WORLD ENERGY PARAMOUNT	Client Doc No	

版次 REV.	版次说明/DESCRIPTION	设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE
04	供批准/ ISSUED FOR APPROVAL	Jialing Huang	Shengfang Zhao	Kevin Yang	16-Jan-23

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设计项目 DESIGN ITEM	World Energy Renewables Project		
设计阶段 DESIGN PHASE	详细设计 Detail Design		
设 计 PREPARED		DEBUTANIZER REBOILER TEST RING DRAWING	设备位号 ITEM NO. 18-X-381
审 核 REVIEWED			图 号 DWG. NO. WXCE6713-08
批 准 APPROVED		比例：SCALE 1:1	版次：REV. 04
			第 1 页 共 1 页 PAGE 1 OF 1