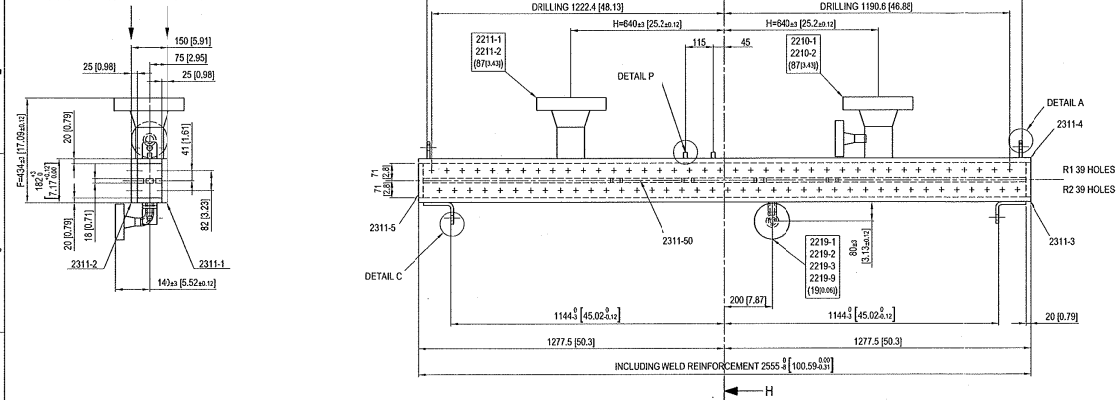
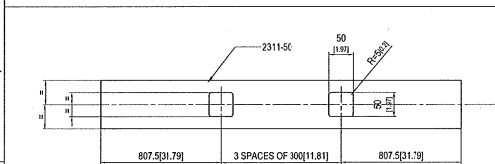


VIEW FROM Q

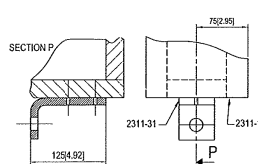
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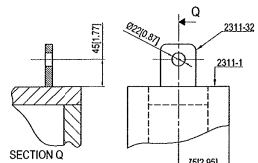
STIFFENER DETAIL 加强板详图



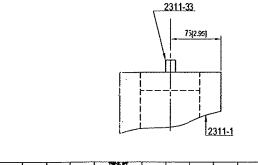
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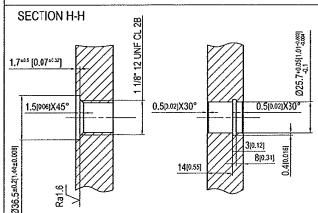
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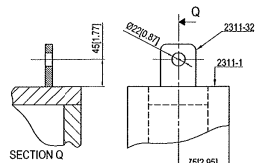
DETAIL P



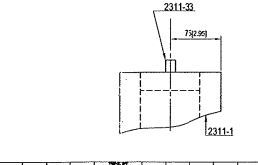
HEADER DRILLING



DETAIL A



DETAIL P



HORIZONTAL PITCH: 61.5 (2.50)

VERTICAL PITCH: See View From Q

See View From Q

See View From Q

See View From Q

See View From Q

See View From Q

See View From Q

See View From Q

See View From Q

See View From Q

See View From Q

See View From Q

Client 用户: HBP华油惠博科技股份有限公司
Purchase Order 订单号: 10160169
Project Title 项目名称: NASHA Gas Processing and LPG Recovery Plant
Project No. 项目号: NASHA 1247
Plant Location 装置地点: Khyber Pakhtunkhwa of Islamic Republic of Pakistan

☒ Reviewed
☐ Witnessed

2016-12-21
14547
HSB GS

ASME

UNIT: mm[inch]

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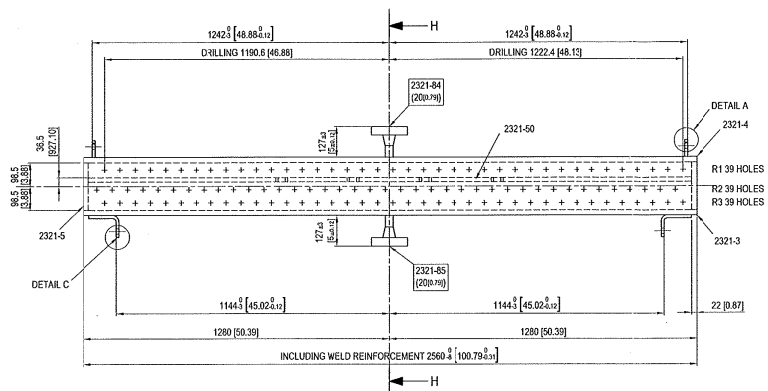
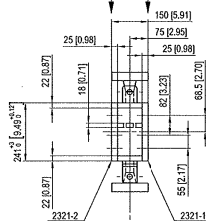
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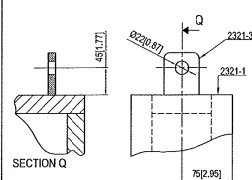
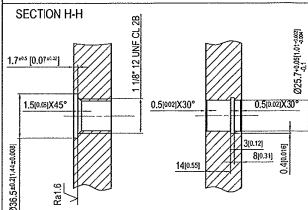
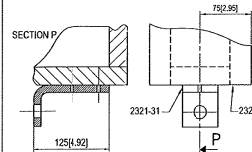
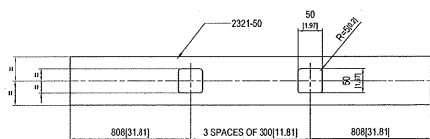
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[illegible]

NUMBER OF SUBASSEMBLY IDENTICALS FOR ITEM 技术规格书图号: 4		GENERAL NOTES																	
DESIGN DATA: 设计参数																			
CODES & STANDARD 规范标准	ASME VIII-1 2015 ed. API 801 07 FLANGES ASME B16.5 09 ED.	NOZZLES AND MAIN FLANGES HOLES TO BE EQUALLY SPACED IN STRAIGHT 0° HEADER MAIN AXIS WITH A TOLERANCE OF +1° 1" FOR PROCESS NOZZLES AND +2° FOR AUXILIARY CONNECTIONS																	
STAMP U/ID	YES	FLANGE CONTACT FACES SHALL BE : Acc. to ASME B16.5																	
POSTWELD HEAT TREATMENT 焊后处理	YES	成型后需焊后热处理 ASME B16.5																	
WELD EFFICIENCY 焊缝系数	SEE CALC NOTE	所有工程图及物料清单标注不适于此表上, 请参见附录 A 表:																	
HEADER WEIGHT 管箱重量	359 kg 791.66 lb	<table><tr><td>CALCULATION NOTE: 21C16608.0001.2005</td><td></td></tr><tr><td>WPS: 21C16608.0000.0060</td><td>21C16608.0001.2005</td></tr><tr><td>NP LIST: 21C16608.0000.0118</td><td>W/PS</td></tr><tr><td>PROTECTION SHEET: 21C16608.0000.0030</td><td>2-102 焊丝</td></tr><tr><td></td><td>21C16608.0000.0060</td></tr><tr><td></td><td>21C16608.0000.0118</td></tr><tr><td></td><td>后部焊丝材料</td></tr><tr><td></td><td>21C16608.0000.0030</td></tr></table>		CALCULATION NOTE: 21C16608.0001.2005		WPS: 21C16608.0000.0060	21C16608.0001.2005	NP LIST: 21C16608.0000.0118	W/PS	PROTECTION SHEET: 21C16608.0000.0030	2-102 焊丝		21C16608.0000.0060		21C16608.0000.0118		后部焊丝材料		21C16608.0000.0030
CALCULATION NOTE: 21C16608.0001.2005																			
WPS: 21C16608.0000.0060	21C16608.0001.2005																		
NP LIST: 21C16608.0000.0118	W/PS																		
PROTECTION SHEET: 21C16608.0000.0030	2-102 焊丝																		
	21C16608.0000.0060																		
	21C16608.0000.0118																		
	后部焊丝材料																		
	21C16608.0000.0030																		
		<p>4 THE DIMENSIONS WITHOUT TOLERANCES INDICATED ON THE DRAWING AND NOT COVERED BY PARTICULAR REQUIREMENT OF API, CODES AND RULES SHALL BE IN ACCORDANCE WITH ISO 13260 CLASS B. FORWELDED PARTS AND ISO 2768 Class C, FORMACHINED FINISH PARTS</p>																	



HORIZONTAL PITCH : 63.5(2.50)
 水平间距:
 VERTICAL PITCH : See View From Q
 垂直间距见Q向视图

Client 用户:	HBP华油惠博普科技股份有限公司
Purchase Order 订单号:	10160169
Project Title 项目名称:	NASHPA Gas Processing and LPG Recovery Plant
Project No. 项目号:	NASHPA 1247
Plant Location 装置地点:	Khyber Pakhtunkhwa of Islamic Republic of Pakistan

☒ Reviewed
☐ Witnessed

14547
HSB GS

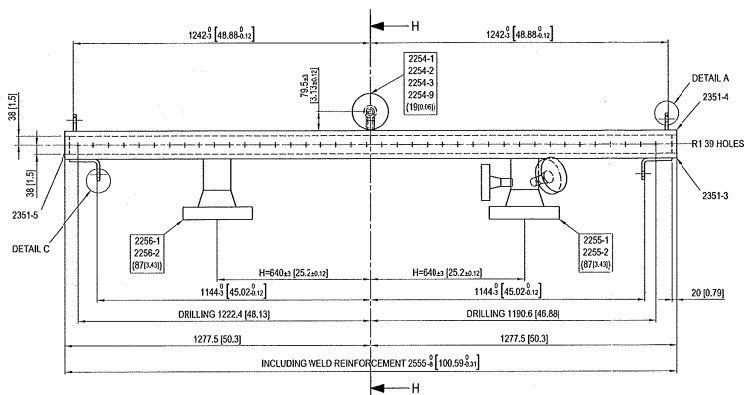
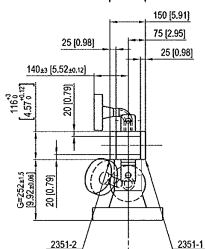


12-16 20:08:00


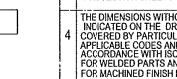
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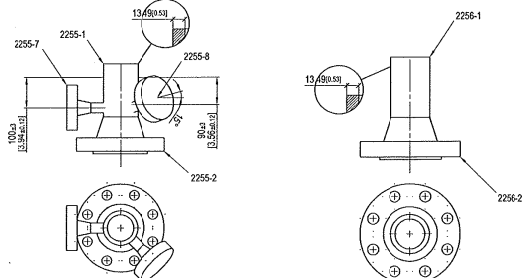
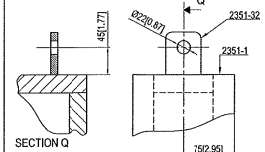
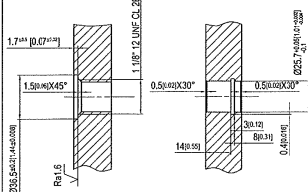
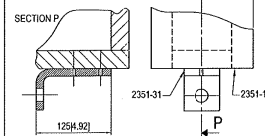
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SCALE 比例	1 1:1 比例	A1				
EQUIPMENT 设备名称 AIR COOLED HEAT EXCHANGER 空气冷却热交换器		STATUTORY 日期:		STATUTORY P.L. 日期:		
TITLE 标题 PLUG HEADER REAR 后盲管						
ITEM# 位号: 5A-2001		Kelvion Thermal Solutions (Jiangsu) Co., Ltd. 江苏江都热交换设备有限公司 No. 6, Xingye Road, Jiangyin City, Jiangsu Province, China 中国江苏省江阴市兴业路6号 Tel: +86 513 9969700 Fax: +86 513 9969777				
N° 1 2 3 4 5 6 7 8 9 10 11 12		Bil - Bilgimetal Technologies Thermotek A product brand of Kelvion Kelvion Thermal Solutions (Jiangsu) Co., Ltd. - Confidential Communication, copying of this document, and use of its contents, are not permitted without prior written authorization.				

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ITEM	FIG. NO.	DESCRIPTION	LENGTH 长度	WIDTH 宽度	THICK 厚度	DIA 直径	MATERIAL 材料	NORM 标准	QTE 数量	DRW 图号
2351	32	STOP HEADER THK. 12.0 MM(1/2")	702.21	602.21	12.0		SA-105	ASME 1	213	
2351	31	SIDING PLATE	191.51	602.21	12.0		SA-S16GR60	ASME 2	205	
2351	5	END PLATE	702.21	1003.24	12.0		SA-S16GR60	ASME 2	205	
2351	4	TOP PLATE	2555.00	1003.24	20.0		SA-S16GR70	ASME 1		
2351	3	BOTTOM PLATE	2555.00	1003.24	20.0		SA-S16GR70	ASME 1		
2351	2	FLANG SHEET	2555.00	1164.27	25.0		SA-S16GR70	ASME 1		
2351	1	TUBE SHEET	2555.00	1164.27	25.0		SA-S16GR70	ASME 1		
2236	2	FLANGE NPS 4 ASME B16.5 CLASS 900 WN RT BORE: 07.32 MM(1/2")				114.3x1	SA-105	ASME 1		
2236	1	FLANGE PIPE DIA. NPS 4 THK. 13.49(1/2") MAX UNDER TOL: 0.25% (SEAMLESS)				114.3x1	SA-106B	ASME 1		
2236	0	SET OF GUTLET NOZZLE ASSEMBLY	2520.21		13.49(1/2")			ASME 1		
2235	2	FLANGE NPS 4 ASME B16.5 CLASS 900 FN RT BORE: 20.7 MM(3/4")					SA-105	ASME 1	232	
2235	1	FLANGE FLANGE NPS 4 ASME B16.5 CLASS 900 FN RT BORE: 20.7 MM(3/4")					SA-105	ASME 1	232	
2235	2	FLANGE NPS 4 ASME B16.5 CLASS 900 WN RT BORE: 07.32 MM(1/2")					SA-105	ASME 1		
2235	1	NOZZLE PIPE DIA. NPS 4 THK. 13.49(1/2") MAX UNDER TOL: 0.25% (SEAMLESS)				114.3x1	SA-S16GR70	ASME 1		
2235	0	SET OF GUTLET NOZZLE ASSEMBLY	2520.21		13.49(1/2")			ASME 1		
2234	0	ELBOW			6.35(1/4")	33.41(1 1/4")	SA-234WB	ASME 1		
2234	2	NOZZLE PIPE DIA. NPS 1 THK. 6.35(1/4") MAX UNDER TOL: 0.25% (SEAMLESS)				33.41(1 1/4")	SA-105B	ASME 1		
2234	1	FLANGE NOZZLE PIPE DIA. NPS 1 THK. 6.35(1/4") MAX UNDER TOL: 0.0%				33.41(1 1/4")	SA-105	ASME 1		
2234	0	FLANGE NOZZLE PIPE DIA. NPS 1 THK. 6.35(1/4") MAX UNDER TOL: 0.0%					SA-105	ASME 1		
2234	0	SET OF VENT NOZZLE ASSEMBLY								

NUMBER OF SUBASSEMBLY DETAILS FOR ITEM (按项别列明数量): 1			
DESIGN DATA- 设计参数		GENERAL NOTES	
CODES & STANDARD 规范标准	ASME VIII-1 2015 ed. API 681 07 ed FLANGES ASME B16.5 09 ED.	NOZZLES AND MAIN FLANGES HOLES TO BE EQUALLY SPACED IN STRAIGHT LINE FOR MAIN AXES WITH A TOLERANCE OF $\pm 1^\circ$ FOR PROCESS NOZZLES AND $\pm 2^\circ$ FOR AUXILIARY CONNECTIONS	所有法兰孔均应在同一直线上等间距分布, 且公差为 主法兰: $\pm 1^\circ$, 支管法兰: $\pm 2^\circ$
STAMP U LINEID	YES	FLANGE CONTACT FACES SHALL BE: Acc. to ASME B16.5	法兰密封面: A 型或 B 型
POSTWELD HEAT TREATMENT 焊后热处理	YES		
WELD EFFICIENCY 焊接系数	SEE C.A.C.NOTE	ALL ENGINEERING AND MANUFACTURING CHARACTERISTICS NOT MENTIONED ON THIS DRAWING ARE INDICATED ON THE FOLLOWING DOCUMENTS:	所有工程及制造特性未在本图上注明者, 请参考下列 文件:
HEADWEIGHT 空组重量	260 Kg 573.2 lb	CALCULATION NOTE: 21C16608.001.2005 WPS: 21C16608.000.0050 NDT LIST: 21C16608.000.0118 PROTECTION SHEET: 21C16608.000.0030	- 工艺单 21C16608.001.2005 - WPS 21C16608.000.0005 - NDT 检验单 21C16608.000.0118 - 表面处理指导书 21C16608.000.0030
		THE DIMENSIONS WITHOUT TOLERANCES INDICATED ON THE DRAWING AND NOT COVERED BY PARTICULAR REQUIREMENT OF APPLICABLE CODES AND RULES SHALL BE IN ACCORDANCE WITH ISO 13200 CLASS B FOR WELDED PARTS AND ISO 7788 Class C FOR MACHINED FINISH PARTS	所有未在本图上注明公差之尺寸均须符合 ISO 13200 类 B 之要求, 且符合 ISO 7788 类 C 之要求。 对于焊接部分, 符合 ISO 13200 类 B 之要求。 对于机加工部分, 符合 ISO 7788 类 C 之要求。



Client 用户:	HBP华油惠博普科技股份有限公司
Purchase Order 订单号:	10160159
Project Title 项目名称:	NASHPA Gas Processing and LPG Recovery Plant
Project No. 项目编号:	NASHPA 1247
Plant Location 装置地点:	Khyber Pakhtunkhwa of Islamic Republic of Pakistan

☒ Reviewed
☐ Witnessed

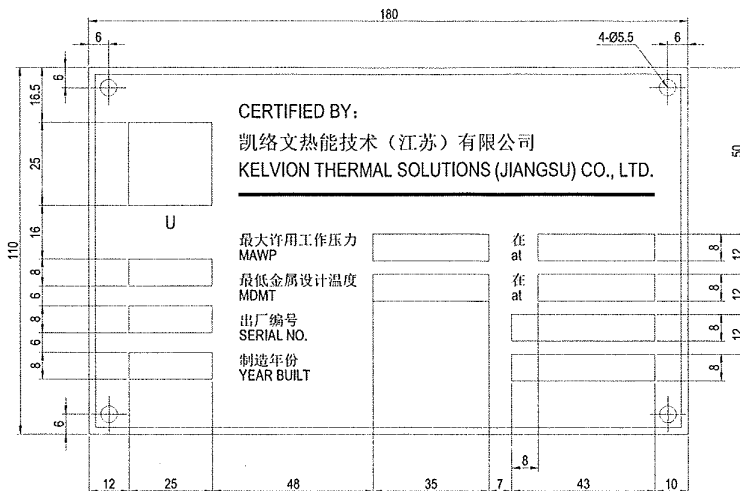
14547
HSB GS

ASME

前夜通
日期: 2016.12.08
12:16:40 +0800

UNIT: mm[inch]

[illegible]



- FRAMES, LETTERS AND NUMBERS 框架、文字及数字: CHEMICAL HOLLOW PRINT, BLACK, 化学腐蚀印刷, 黑色
 - BACKGROUND 背景: METAL, 金属本色
 - TYPE HEIGHT 文字高度: 5 MM, DEPTH 最小深度: 0.1 MM MINIMUM.
 - THICKNESS 厚度: 1.5 MM.
 - MATERIAL 材料: 316L
 - WEIGHT 重量: 0.24 KG

☒ Reviewed
☐ Witnessed
 2016-12-21
 14547
 HSB GS



胡夜海
 17:20:20 2016-12-19 10:47:20

CERTIFIED BY:
 凯络文热能技术 (江苏) 有限公司
 KELVION THERMAL SOLUTIONS (JIANGSU) CO., LTD.

U

W

PHT

最大许用工作压力 MAWP 1268 Psi(g) 在 at 650 °F

最低金属设计温度 MDMT 14 °F 在 at 1268 Psi(g)

出厂编号 SERIAL NO. 21C16608-4-01

制造年份 YEAR BUILT

Client 用户: HBP华油惠博普科技股份有限公司
 Purchase Order 订单号: 10160169
 Project Title 项目名称: NASHPA Gas Processing and LPG Recovery Plant
 Project No. 项目号: NASHPA 1247
 Plant Location 装置地点: Khyber Pakhtunkhwa of Islamic Republic of Pakistan

0	ORIGINAL ISSUE 初版	LEYUAN YU	2016-12-7	LZ ZHANG	2016-12-7
REV	DESCRIPTION	DRAWN BY	DATE	VERIFIED BY	DATE
SCALE	1:1	SHEET	A2	STATUS: P.I.	DATE
EQUIPMENT 设备名称 AIR COOLED HEAT EXCHANGER 空冷式换热器		Kelvion			
TITLE 标题 TUBE BUNDLE ASME NAME PLATE 管束ASME铭牌 "U STAMP"		Kelvion Thermal Solutions (Jiangsu) Co., Ltd. 凯络文热能技术 (江苏) 有限公司 No. 55, Wuyang Road, New & High Tech Industrial Development Zone Changshu, Jiangsu Province, 215500, China Tel: +86 21 51950150 Fax: +86 21 51950177 B11 - Baignolles Technologies Thermiques A product brand of Kelvion			
ITEM 位号: EA-2301		N° 21C16608D0124101			
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