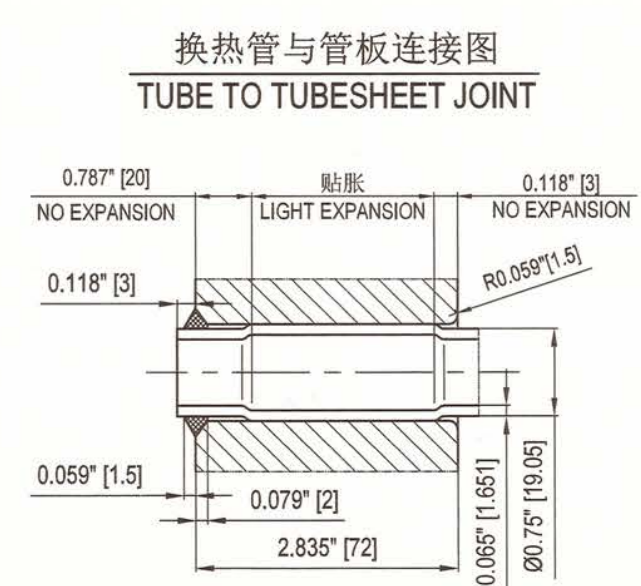
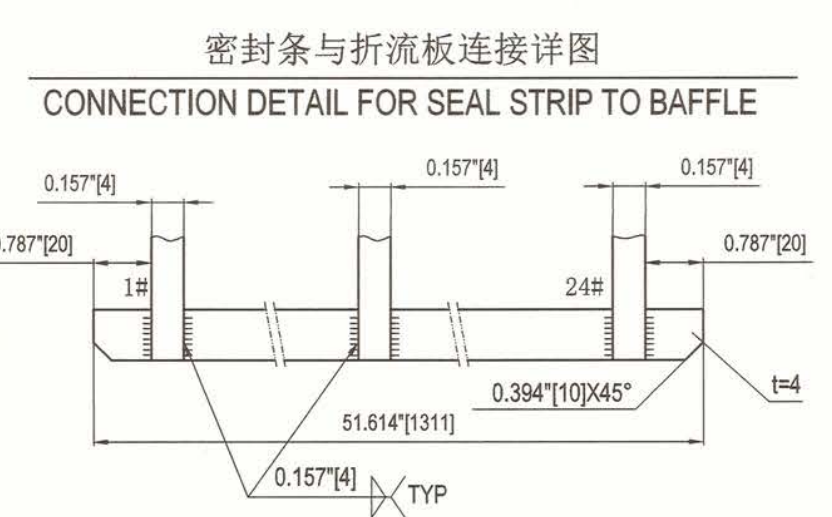
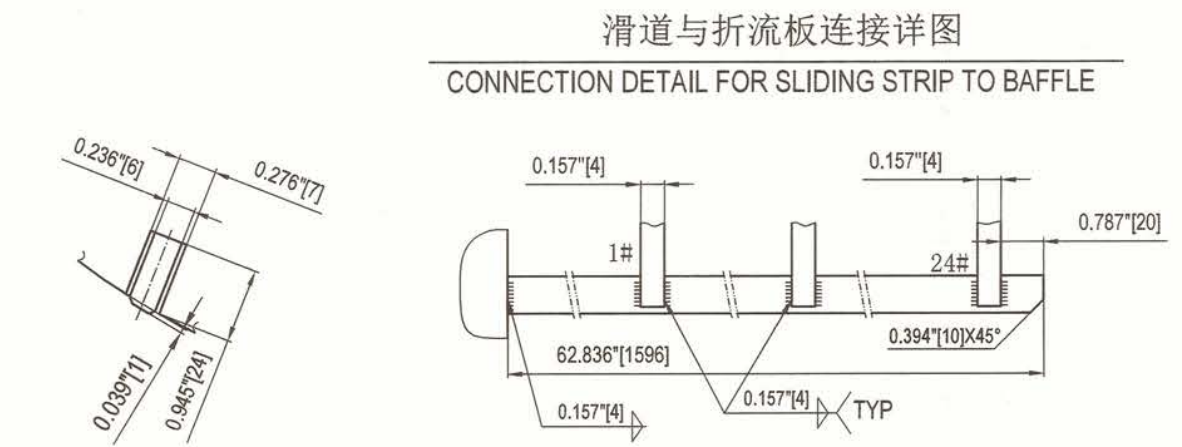
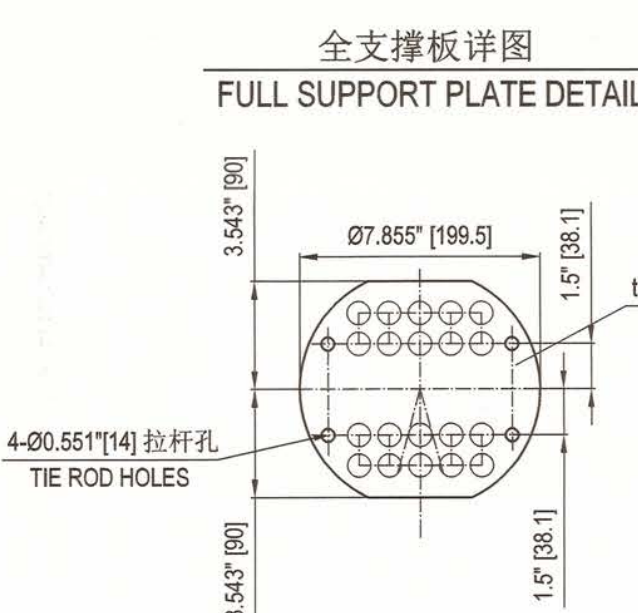
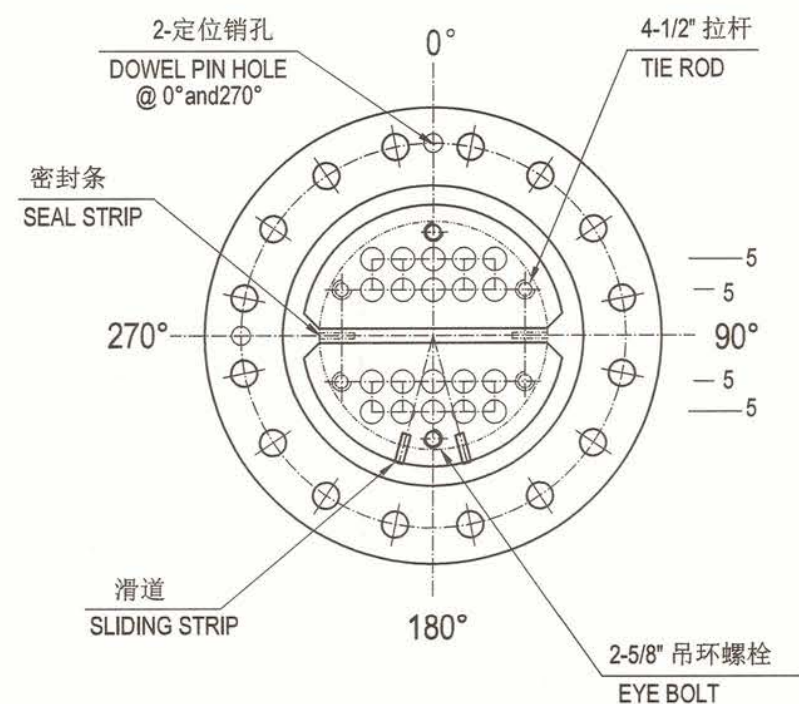
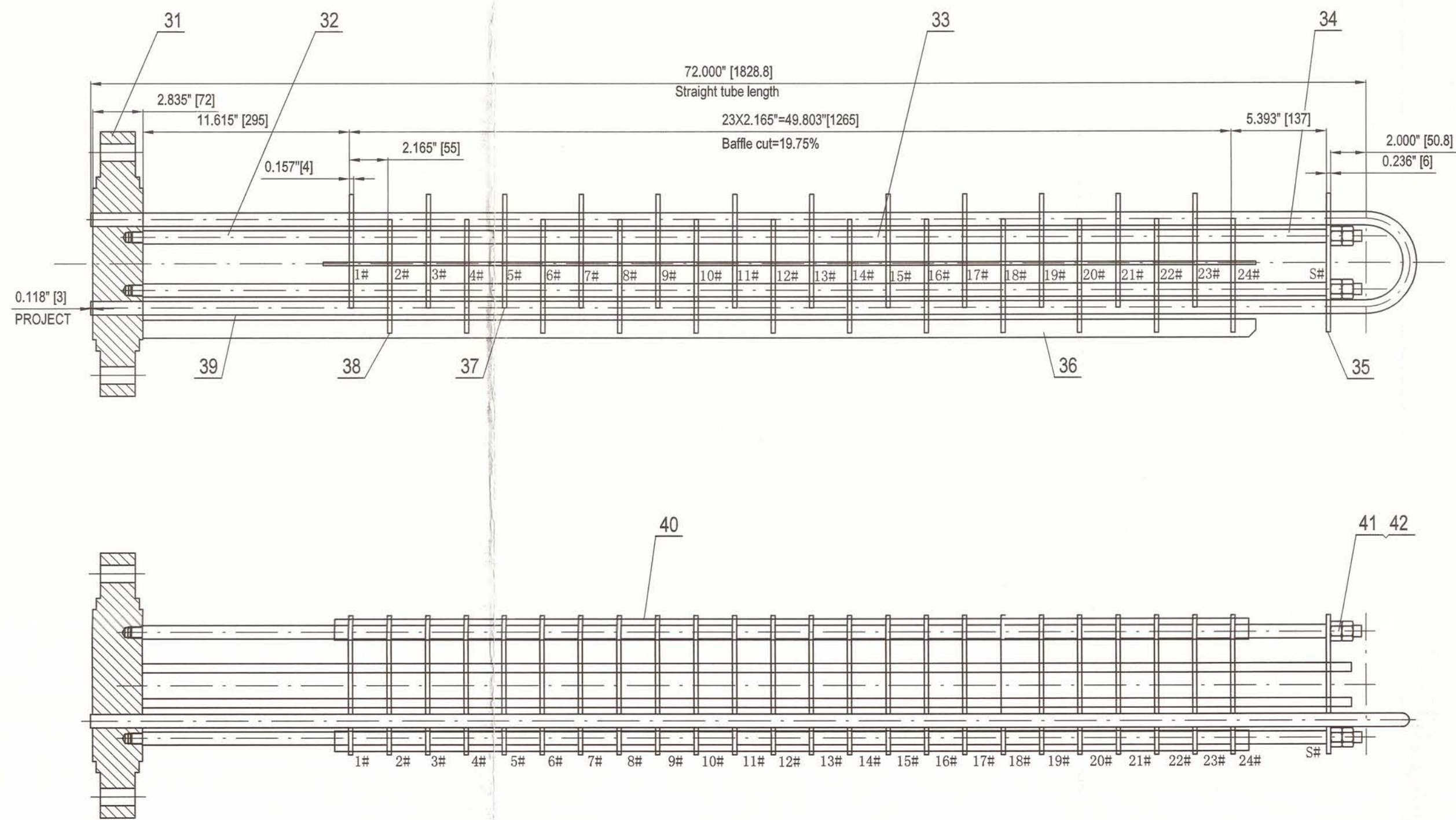
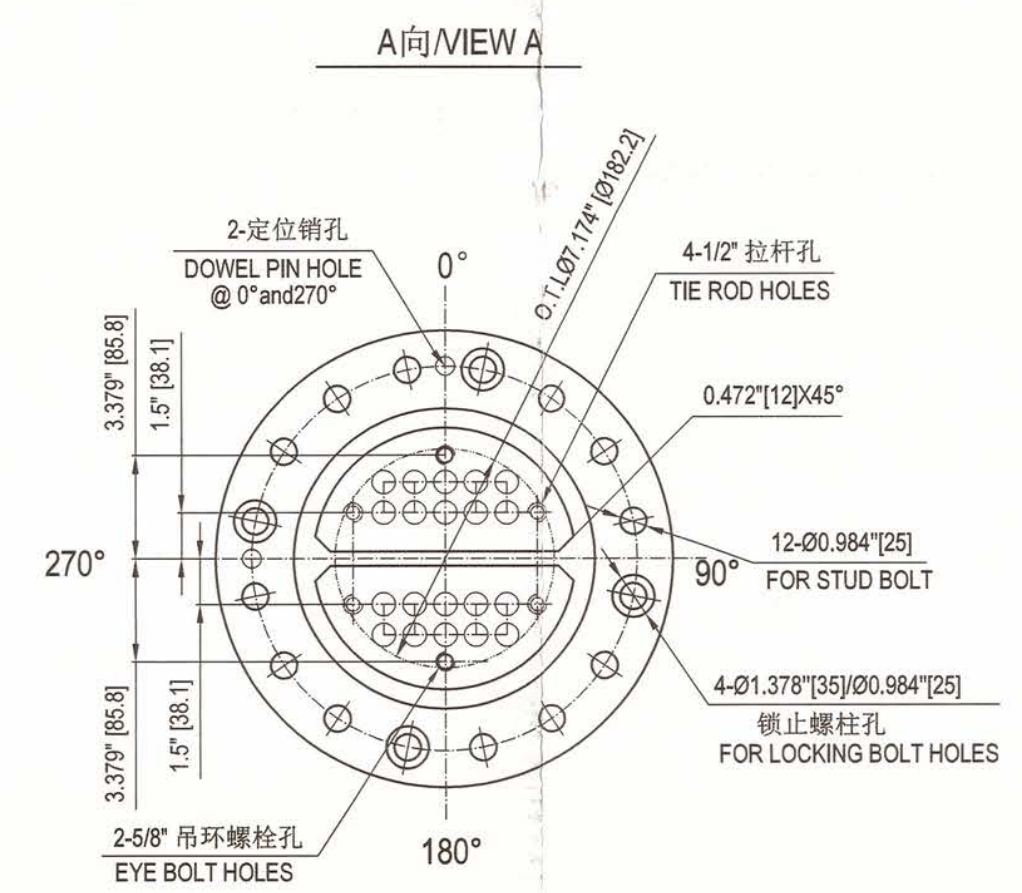
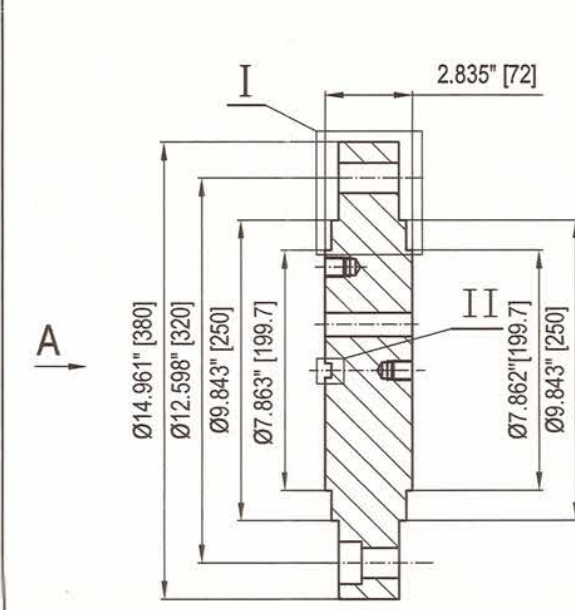
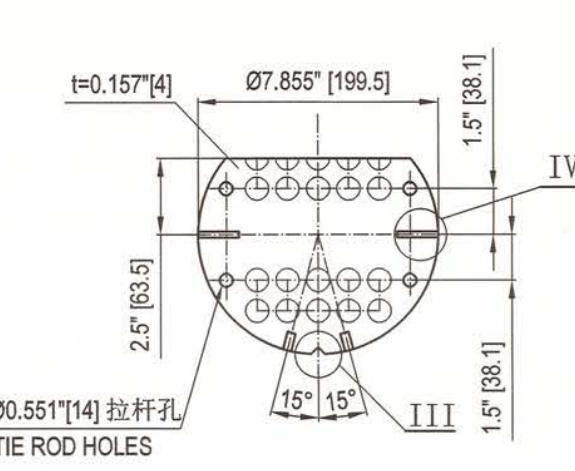




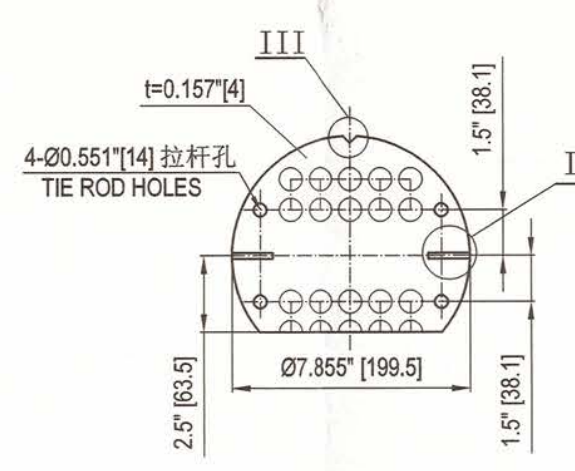
管板详图
TUBESHEET DETAIL



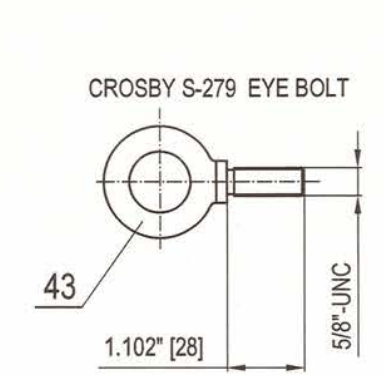
偶数折流板详图
EVEN BAFFLE DETAIL



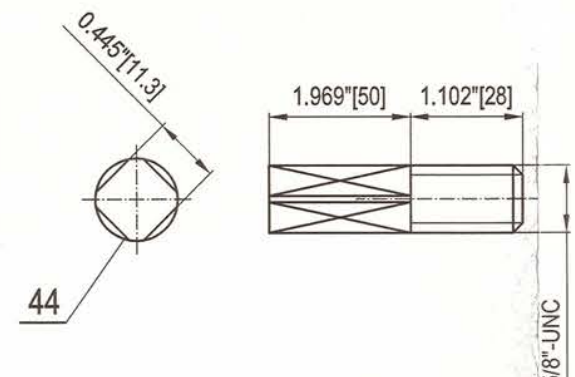
奇数折流板详图
ODD BAFFLE DETAIL



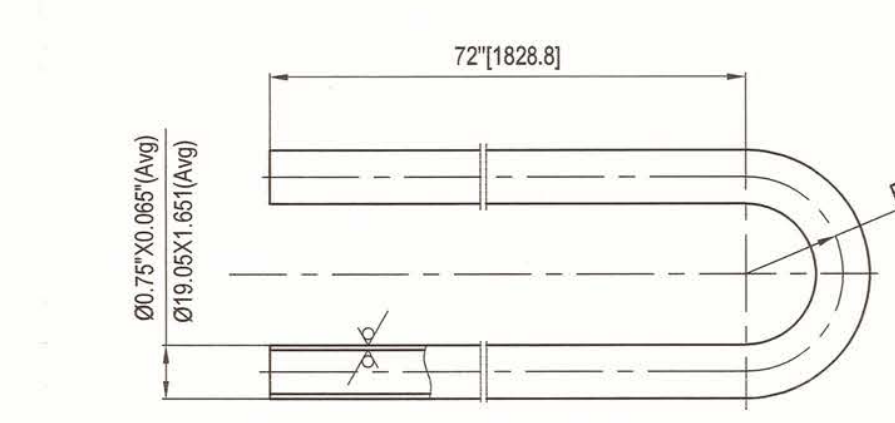
吊环螺钉详图
EYE BOLT DETAIL DRAWING



螺塞详图
PLUG DETAIL DRAWING



U形换热管详图
DETAIL OF U TUBE



注/NOTE:

1. 换热管应按SA-789/SA-789M逐根水压试验，还需按照SA-1016/SA-1016M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。
Tubes shall be subject to hydrostatic test one by one in accordance with SA-789/SA-789M, and eddy current testing shall be conducted in accordance with SA-1016/SA-1016M. 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% PT检测
After bending, the U-tube shall be subject to 100% PT

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

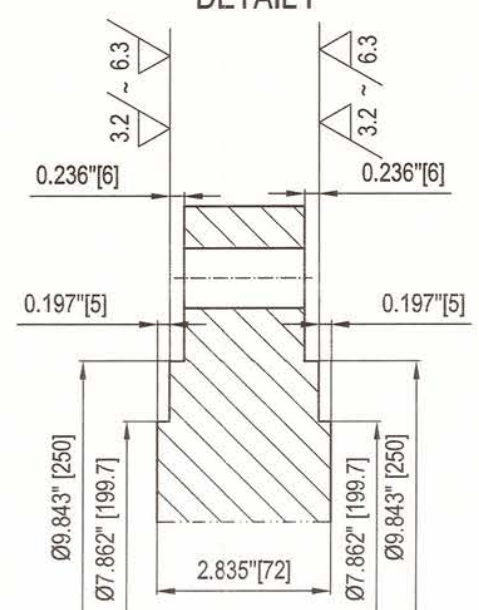
4. 弯管的扁平度不应超过管子公称外径的10%。
Flattening at the bend shall not exceed 10% of the nominal tube outside diameter.

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.

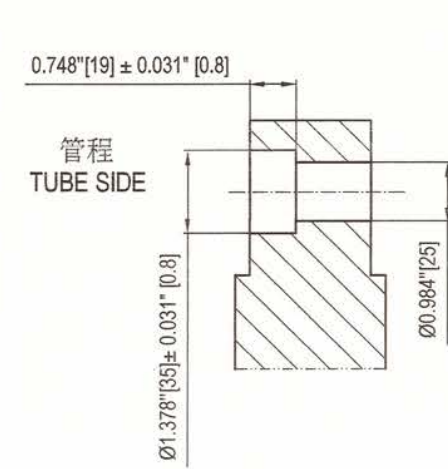
6. U形管弯制后其弯管部分加150mm长直管段应进行固溶退火热处理。热处理应使用电来方法。程序应提交买方批准。不允许进行炉内热处理。
Tube u-bends shall receive post bend solution annealing heat treatment. Heat treatment shall use electric clamp methods, and the procedure shall be submitted to Buyer for approval. Furnace heat treatments are not allowed.

U型换热管数据表/DATA TABLES OF U TUBES						
序号 ITEM	直管段长度 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
1	72.000" [1828.8]	1.5" [38.1]	148.713" [3771.3]	5	2.7	13.5
2	72.000" [1828.8]	2.5" [63.5]	151.854" [3851.1]	5	2.7	13.5

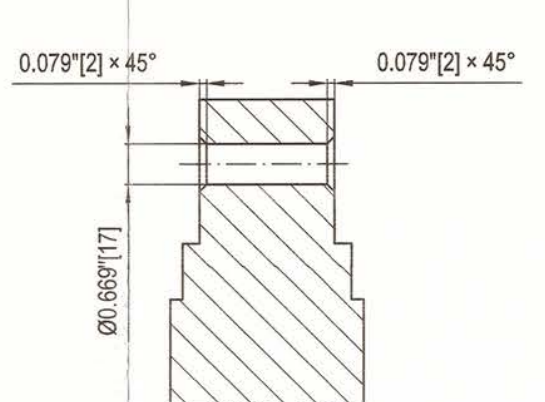
详图 I
DETAIL I



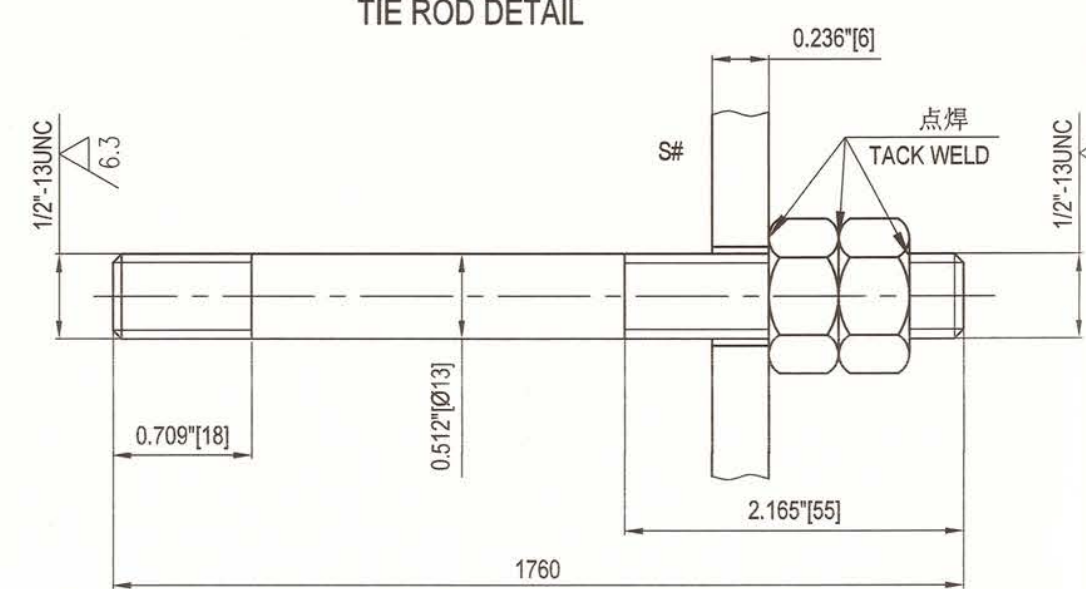
锁止螺栓孔详图
LOCKING BOLT HOLE DETAIL DRAWING



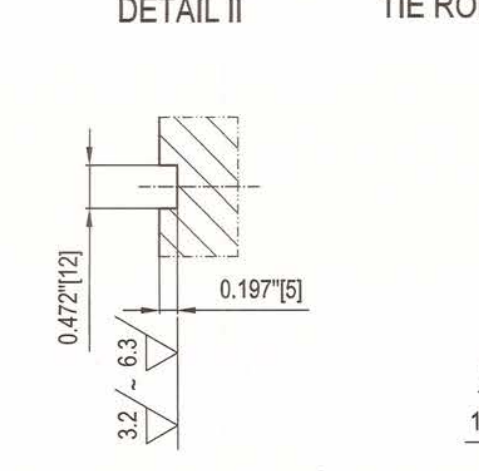
定位销孔详图
DOWEL PIN HOLE DETAIL DRAWING



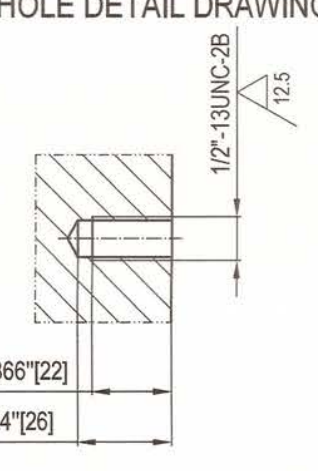
拉杆详图
TIE ROD DETAIL



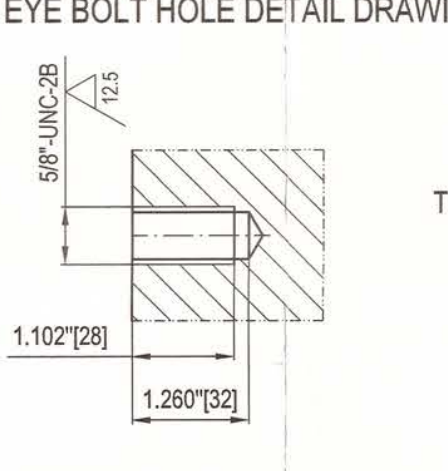
详图 II
DETAIL II



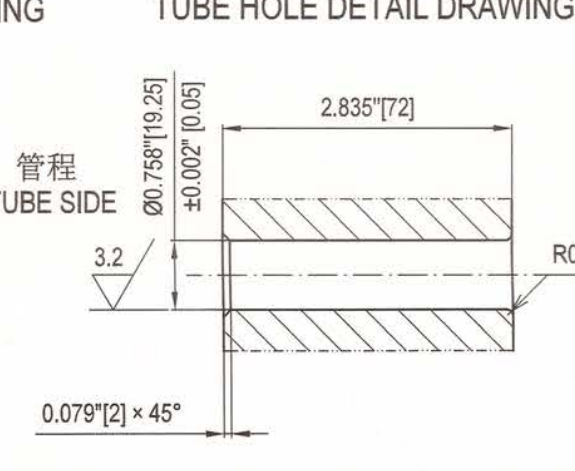
拉杆孔详图
TIE ROD HOLE DETAIL DRAWING



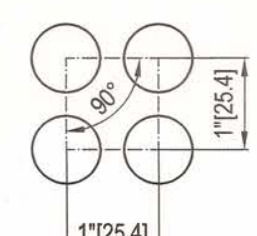
吊环螺栓孔详图
EYE BOLT HOLE DETAIL DRAWING



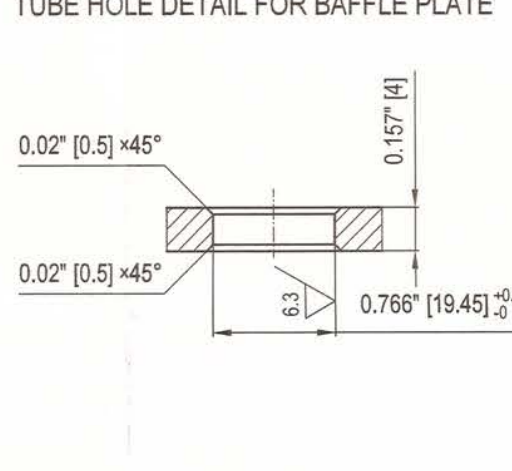
管孔详图
TUBE HOLE DETAIL DRAWING



管孔布置图
TUBE LAYOUT DETAIL DRAWING



折流板管孔详图
TUBE HOLE DETAIL FOR BAFFLE PLATE



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) WEIGHT	总重(kg) TOTAL WEIGHT	备注 REMARKS
44		螺塞 PLUG	2	SA-182 F60	/	/	
43	Refer to CROSBY S-279	吊环螺栓 5/8"-UNC L=28 EYE BOLT	2	SA-182 F60	/	/	
42	ASME B18.2.2-2022	六角螺母 1/2" HEX NUT	8	SA-194 8	/	/	
41		拉杆 Ø13 L=1760 TIE ROD	4	SA-479 316L	1.8	7.2	
40		密封条 SEAL STRIP	2	SA-240 316L	2.6	5.2	
39		U形换热管 Ø19.05X1.651 (Avg.) U TYPE TUBE	10	SA-789 S32205	32.4	Seamless	
38		偶数折流板 t=4 EVEN BAFFLE	12	SA-240 S316L	1.5	18	
37		奇数折流板 t=4 ODD BAFFLE	12	SA-240 S316L	1.5	18	
36		滑道 SLIDING STRIP	2	SA-240 S316L	2.9	5.8	
35		全支撑板 FULL SUPPORT PLATE	1	SA-240 S316L		2.0	
34		定距管 Ø19.05X1.651 L=133 SPACER	4	SA-213 TP 316L	0.1	0.4	
33		定距管 Ø19.05X1.651 L=51 SPACER	92	SA-213 TP 316L	0.1	9.2	
32		定距管 Ø19.05X1.651 L=295 SPACER	4	SA-213 TP 316L	0.2	0.8	
31		管板 TUBE SHEET	1	SA-182 F60		60.9	

AIR PRODUCTS				FLUOR			
Air Products Project Number		EN207131	Fluor Project Number		A8KM		
Project Name		World Energy Renewables Project	RFQ No.		A8KM-4-412-RQ		
Purchase Order Number		4505729451	PO/Contract No		A8KM-4-412-PC-1		
Air Products Open Text document number		EN207131-WUXI-9V3-00026	Project Area		Utilities		
Client		WORLD ENERGY PARAMOUNT	Client Doc No:				
03	竣工图/AS BUILT	Wenchao Hu	Shengfang Zhao	Kevin Yang	12-May-23		
02	供批准/ISSUED FOR APPROVAL	Wenchao Hu	Shengfang Zhao	Kevin Yang	17-Feb-23		
01	供批准/ISSUED FOR APPROVAL	Wenchao Hu	Shengfang Zhao	Kevin Yang	17-Oct-22		
00	供批准/ISSUED FOR APPROVAL	Wenchao Hu	Shengfang Zhao	Kevin Yang	30-Jun-22		
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				设计阶段 DESIGN PHASE	详细设计 Detail Design
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				第 1 页 共 1 页 PAGE 1 OF 1	