

技术要求:

1、法兰螺栓孔应跨设备中心线或其平行线布。

2、所有零部件焊接前,须清除焊缝附近的铁锈及油污。

3、任意3000mm长度简体直线度允差为3mm;设备安装垂直度允差为18mm;简体同一截面最大直径与最小直径之差不大于14mm;底板 的平面度允差为3mm。

4、管板安装时上下管板面应相互平行,且与壳体中心线垂直,极限偏差为0.8mm。

5、换热管为整根无缝钢管,不允许拼接,同时亦应符合NB/T47019-2021《锅炉、热交换器用管订货技术条件》的 I 级换热管要求,按最

小壁厚供货。换热管轧制出厂前必须逐根做水压检测和逐根超声波检测。

6、换热管及定距管内外表面按GB/T18592—2001《金属覆盖层 钢铁制品热浸镀铝 技术条件》进行渗铝处理,渗铝厚度≥0.1mm,孔隙

7、上、下管箱内壁,上管板上表面,下管板下表面,底板上表面以及与上、下管箱连接的所有零部件,接管及人孔内表面均需喷铝,喷铝按 GB/T9793-2012《热喷涂 金属和其它无机覆盖层 锌、铝及其合金》中的要求,喷铝厚度不小于0.3mm。喷铝前应做喷砂处理,达到

GB/T8923-2011《涂覆涂料前钢材表面处理 表面清洁度的目视评定》。渗铝管与管板的焊接接头应进行补喷铝。 8、换热管与管板之间采用强度焊加贴胀,采用先胀后焊工艺。焊接采用手工电弧焊,焊条为E3O9MO-16.焊接至少为两道,且在完成第一道和

最后一道焊接后,均按NB/47013.5-2015各进行一次100%PT、I级合格。 9、管板与壳程简体的环焊缝(壳程最后一道环向封闭焊缝)应以氢弧焊打底,保证全焊透,并进行100%PT,符合NB/T 47013.5-2015的 [

级为合格。 10、折流板仅与壳体焊接,与换热管及支撑管均不得焊接。

11、接管N2/N3/N4简节及及其简节外缘350mm范围内亮体上的A/B类焊缝均应进行100%RT,符合NB/T47013.2−2015中的Ⅱ 级(技术等级AB级)为合格。

12、设备制作完毕后用煤油检验焊缝严密性,在焊接接头背面无油清为合格,完毕后分别进行管程(40KPaG)/壳程(25KPaG)的气密性试 验,停留30in不得有漏气现象。

13、壳程简体上烟气进/出口开孔数量各2个(对称开设),管口方位按工艺管口方位图,但管口N3,N4与壳程简体开孔相对位置呈90°布置。管

板支撑与底座、折流板缺口、壳程筒体开孔的相对位置必须按视图制作。 14、设备外保温按工艺保温结构图制作,底座内用硅酸铝纤维填塞。

15、设备接管管道安装完毕后,地廊螺栓座螺母反松一圈以利于设备膨胀。

16、其它要求见换热器技术协议。

17、本设备共制造4台,图中为单台设备重。

注:1、所有无盲板法兰在运输过程中,应用木制板保护。

2、为便于运输,下导流简、上导流简制造完毕后分割成两半,运输至现场后组对焊接。

Technical requirements:

1, flange bolt hole should be across the center line of the equipment or its parallel lines.

2. Before all parts are welded, rust and oil stain near the weld shall be removed.

3. The straightness tolerance of any 3000mm length cylinder is 3mm; Equipment installation verticality tolerance is 18mm; The difference between the maximum diameter and the minimum diameter of the same section of the cylinder is not more than 14mm; The flatness tolerance of the bottom plate is 3 mm. 4. When installing the tubesheet, the upper and lower tube surfaces should be parallel to each other and perpendicular to the center line of the shell, with a limit deviation of 0.8 mm..

5. The heat exchange tube is a whole seamless steel tube, which is not allowed to be spliced. At the same time, it should meet the requirements of Class I heat exchange tube in NB/T47019-2021 Technical Conditions for Ordering Tubes for Boilers and Heat Exchangers, and be supplied at the minimum wall thickness. Before the heat exchange tubes are rolled out of the factory, water pressure testing and

ultrasonic testing must be done one by one. 6. The inner and outer surfaces of the heat exchange tube and the distance tube shall be aluminized according to GB/T18592-2001 Technical Conditions for Hot-dip Aluminizing of Metal Covered Steel Products. The aluminized thickness shall be ≥ 0.1 mm, and the porosity shall be qualified at Grade 2.

7. The inner walls of the upper and lower tube boxes, the upper surface of the upper tube plate, the lower surface of the lower tube plate, the upper surface of the bottom plate, all parts connected with the upper and lower tube boxes, and the inner surfaces of the nozzles and manholes shall be sprayed with aluminum, and the thickness of spraying aluminum shall not be less than 0.3mm according to

GB/T9793-2012 "Thermal Spraying of Zinc, Aluminum and Their Alloys for Metals and Other Inorganic Coatings". Sand blasting should be done before spraying aluminum to meet GB/T8923-2011 Visual Assessment of Surface Cleanliness of Steel Surface Treatment before Coating. The welded joint between aluminized pipe and tubesheet should be sprayed with aluminum.

8. Strength welding and sticking expansion are adopted between the heat exchange tube and the tube plate, and the process of expanding first and then welding is adopted. Manual arc welding is used for welding, and the covered electrode is E309MO-16. There are at least two welds, and after the first and last welds are completed, they are all 100%PT once each according to NB/47013.5-2015, which is

9. The girth weld (the last girth closed weld on the shell side) between the tube plate and the shell side cylinder shall be backed by hydrogen arc welding to ensure full penetration and 100%PT, which is qualified

as meeting the grade I of NB/T 47013.5-2015.

10. The baffle is only welded with the shell, and shall not be welded with the heat exchange tube and the

support tube.

11. 100%RT shall be carried out on the A/B welds on the N2/N3/N4 connector and the bright body within 350mm of the outer edge of the connector, and it shall be qualified if it meets the grade II (technical grade AB) in NB/T47013.2-2015.

12. After the equipment is manufactured, use kerosene to check the weld tightness. If there is no oil on the back of the welded joint, it is qualified. After the completion, conduct the air tightness test of tube side (40KPaG)/ shell side (25KPaG) respectively, and there shall be no air leakage after staying for 30in

13. The number of flue gas inlet/outlet openings on the shell—side cylinder is 2 (symmetrically opened), and the nozzle orientation is according to the process nozzle orientation diagram, but the relative positions of nozzles n3 and n4 and the shell—side cylinder openings are arranged at 90. The relative positions of tube plate support and base, baffle gap and shell side cylinder opening must be made according to the view.

14. The external insulation of the equipment shall be made according to the process insulation structure diagram, and the base shall be filled with aluminum silicate fiber.

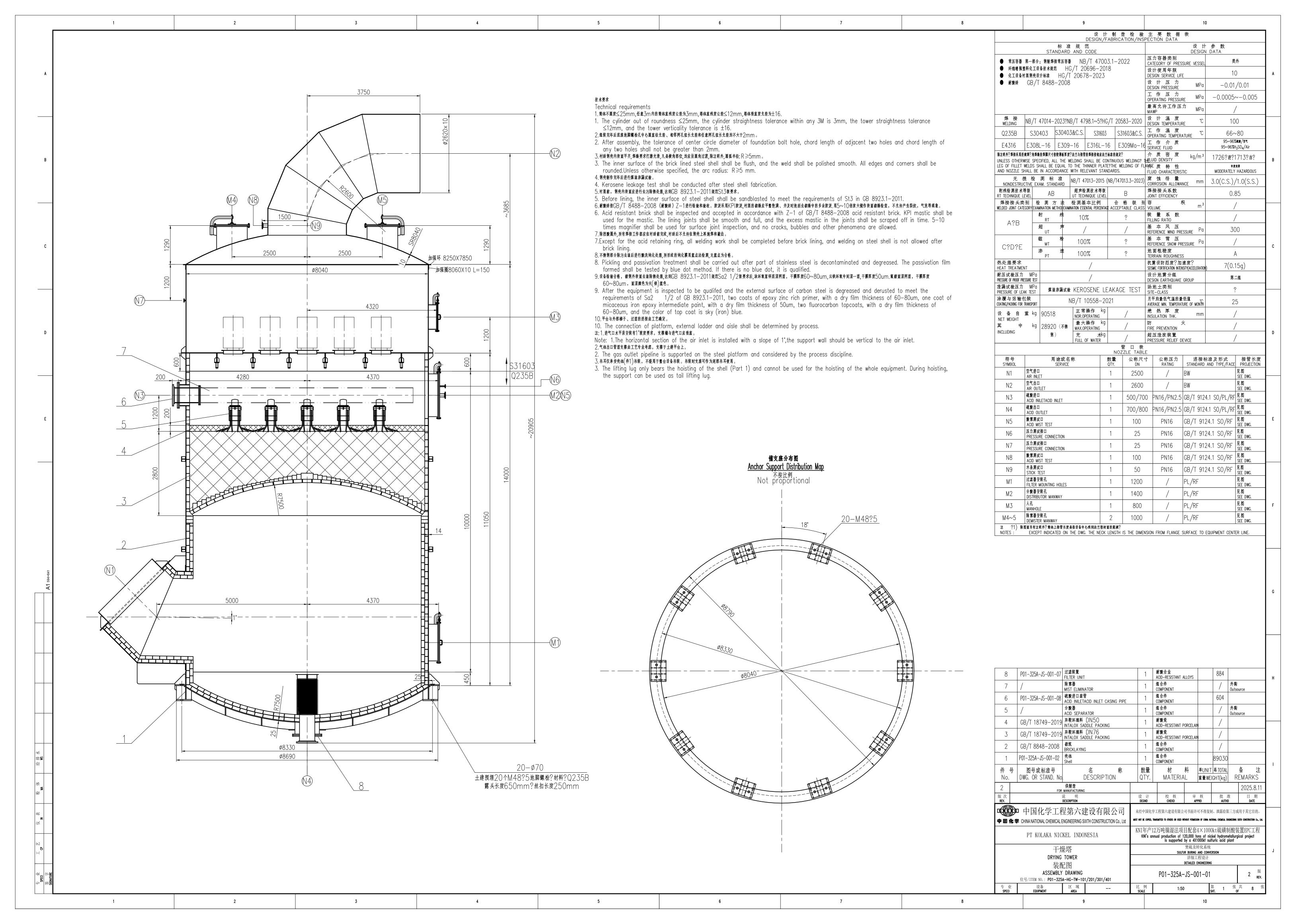
15, equipment to take over the pipeline after the installation, gallery bolt nut loose a circle, to facilitate equipment expansion.

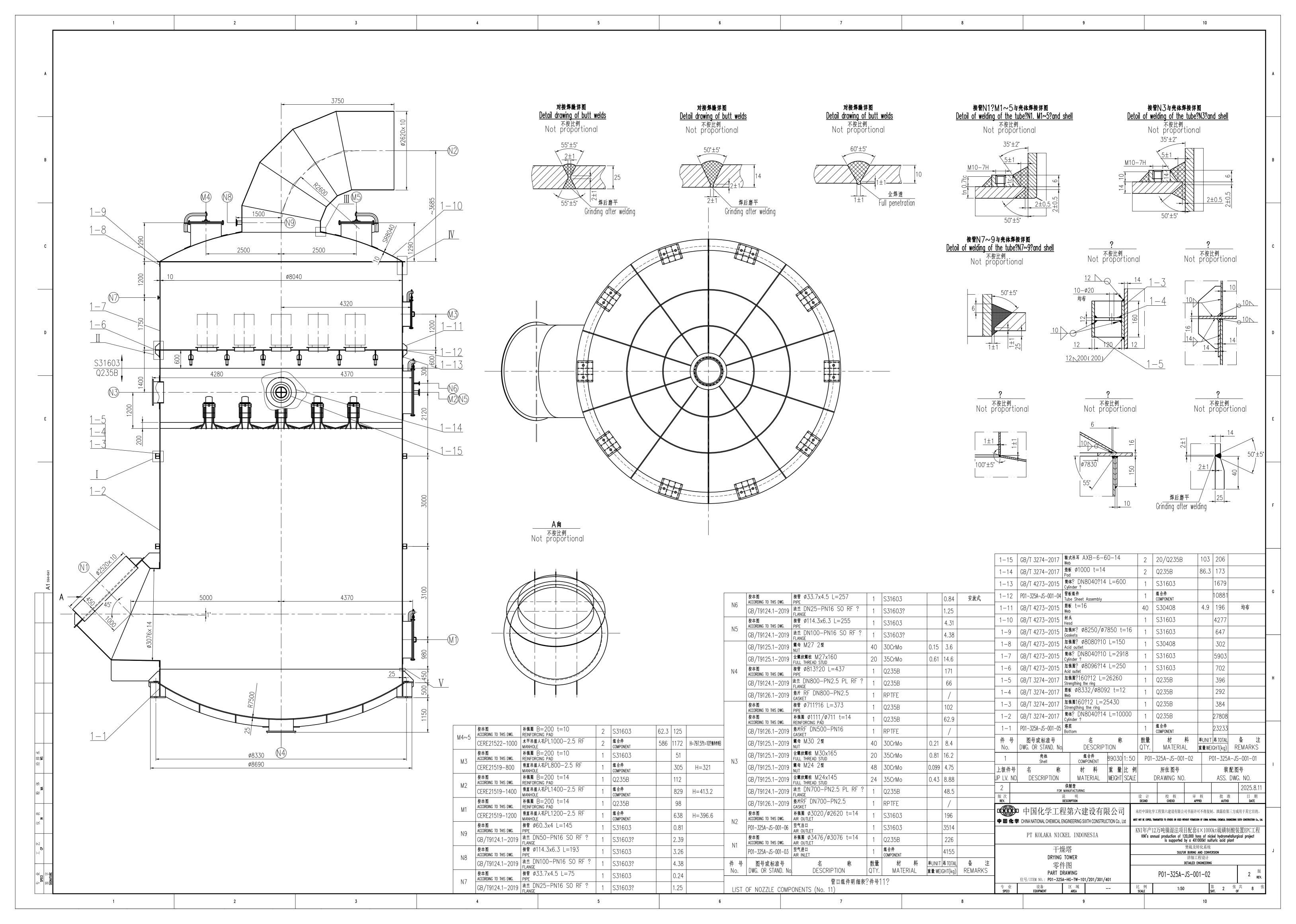
16. See the technical agreement of heat exchanger for other requirements.

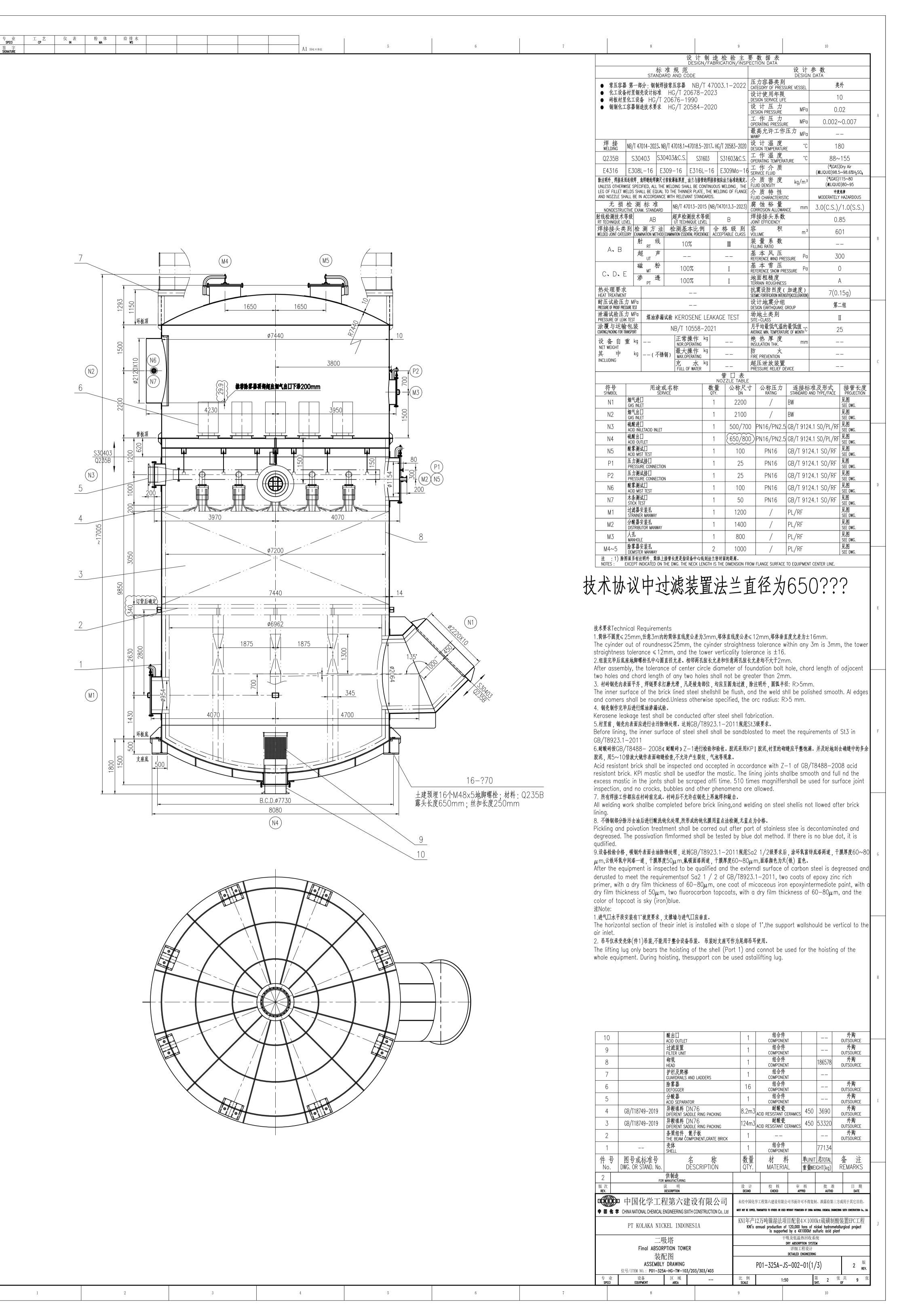
17. Four sets of this equipment are manufactured, and the figure shows the weight of a single equipment. Note: 1. All flanges without blind plates shall be protected by wooden plates during transportation.

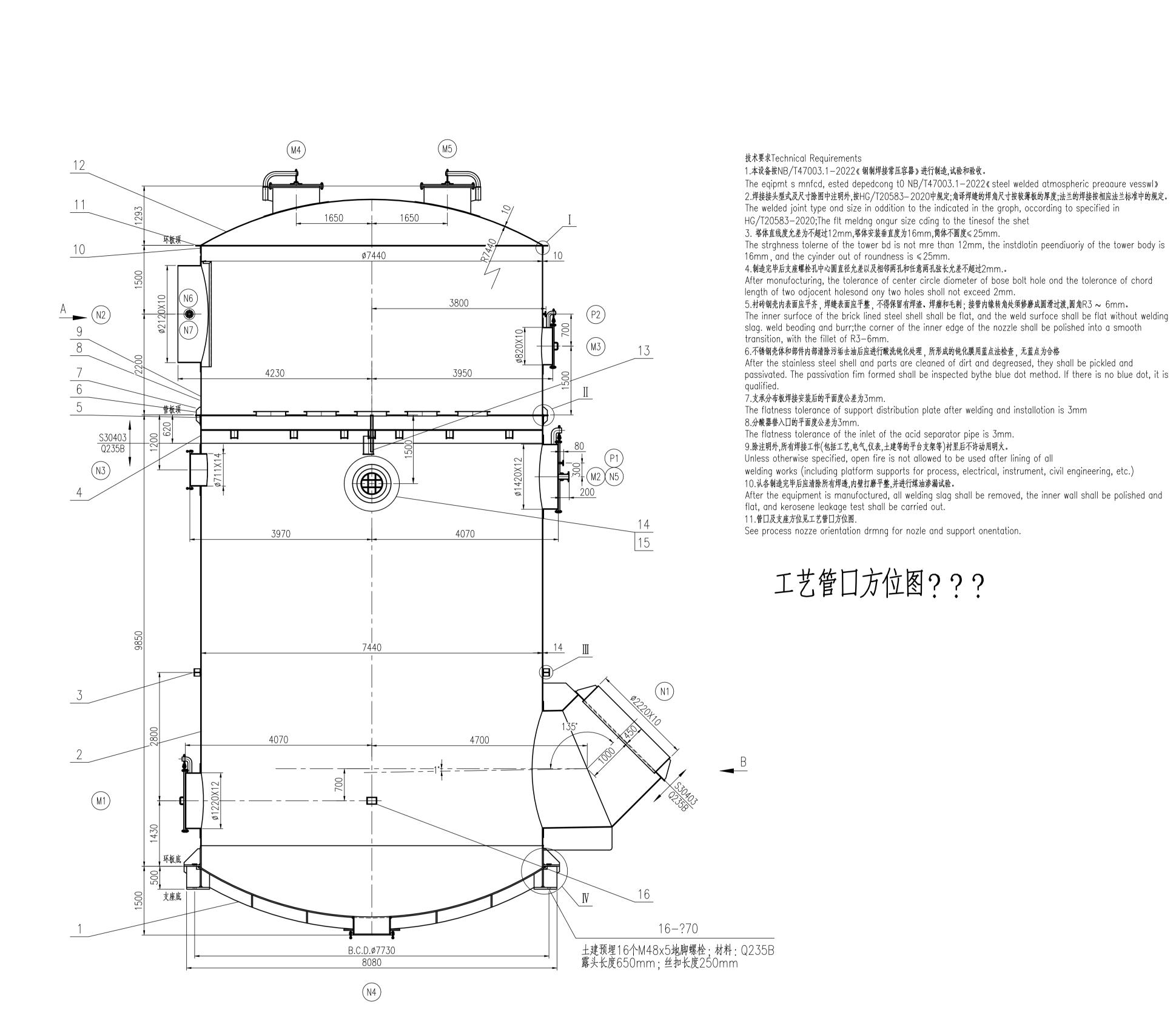
2. In order to facilitate transportation, the lower guide sleeve and the upper guide sleeve are divided into two halves after being manufactured, and then assembled and welded after being transported to the site.

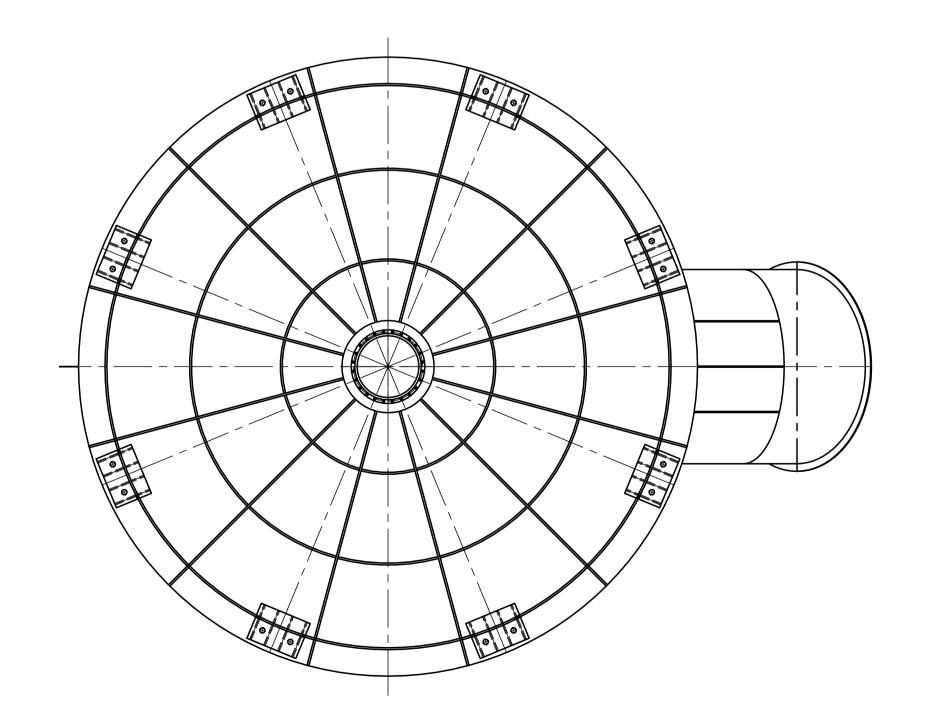
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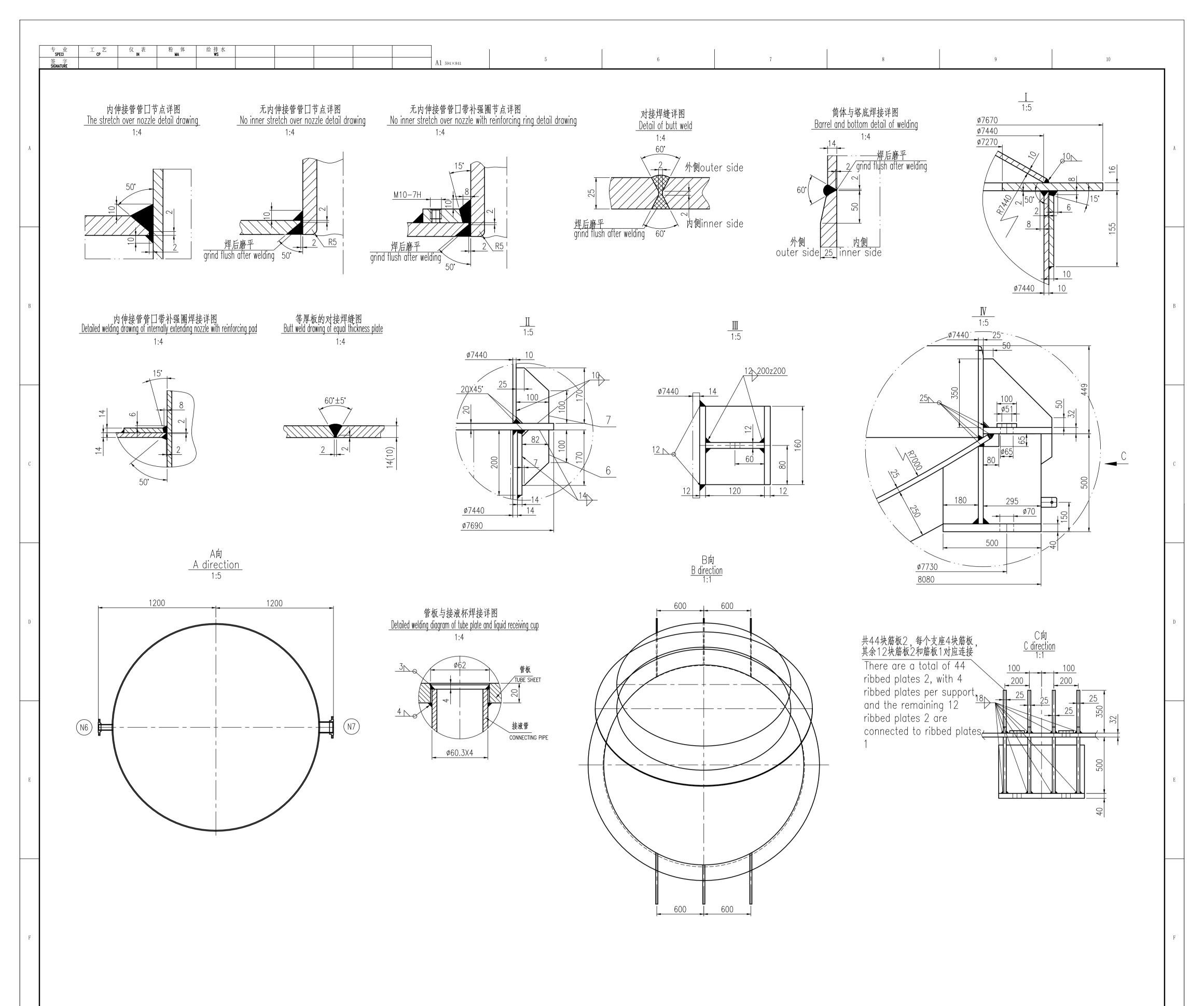








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| 14 | 按本图 ACCORDING TO THIS DWG. | 垫板 Ø1200 PAD |) t=14 | | | 2 | Q235B | | 124.3 | 249 | | | |
| 13 | P01-325A-JS-002-06 | 接液杯 PICK UP LIQUIE |) CUP | | | 2 | 组合件 COMPONENT | | 20.5 | 41 | | | |
| 12 | P01-325A-JS-002-04 | 球冠形封头? QIUGUANXING F | SR7440 | OX10 | | 1 | S30403 | | | 3663 | | | |
| 11 | 按本图 ACCORDING TO THIS DWG. | 环板 Ø767(CIRCLE PLATE | | 70 t=16 | | 1 | S30403 | | | 596 | | | |
| 10 | 按本图 ACCORDING TO THIS DWG. | 短节 DN7460, 6 10 L=155 THE SHORT ANSWER | | | \ \ | 1 | \$30403 | ~~~ | ~~~ | 289 | <u> </u> | | |
| 9 | 按本图 ACCORDING TO THIS DWG. | 筒体 DN7440, δ 10 L=3684 | | | | 1 | S30403 | | | 6838 | 3 | | |
| 8 | P01-325A-JS-002-05 | 管板 TUBE SHEET | | ~~~~ | ~~ | 1 | 组合件^^^ COMPONENT | ~~~ | ~~~ | 10144 | | | |
| 7 | 按本图 ACCORDING TO THIS DWG. | 筋板2 t=14 STEEL PLATE | 4 | | | 20 | S30403 | | 1.28 | 25.6 | 圆周 | 均布 Y SPACED | |
| 6 | 按本图 ACCORDING TO THIS DWG. | 筋板1 t=14 STEEL PLATE | | | | 20 | S30403 | | 1.25 | 25 | 圆周均布 EQUALLY SPACED | | |
| 5 | 按本图 ACCORDING TO THIS DWG. | 短节 DN7468, 6 14 L=200 THE SHORT ANSWER | | | | 1 | S30403 | | | | | | |
| 4 | 按本图 ACCORDING TO THIS DWG. | 筒体 DN7440, δ 14 L=600 SHELL | | | | 1 | S30403 | | | 1560 | | | |
| 3 | P01-325A-JS-002-04 | 外加强圈 EXTRA STRONG | RING | | | 1 | 组合件 COMPONENT | | | 992 | | | |
| 2 | 按本图 ACCORDING TO THIS DWG. | 筒体 DN7440, δ 14 L=8780 SHELL | | | 0 | 1 | Q235B | | | 22596 | õ | | |
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技术协议要求N2为Q235B, N3\4管口材料耐酸合金, N5~7、P1~2,M1~5为S316L??? M1~4人孔为标准件,图在模型中

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| RDING TO THIS DWG. T9124.1—2019 图 RDING TO THIS DWG. T9124.1—2019 图 RDING TO THIS DWG. | 钢管 Ø33.7x4.5 L=107 PIPE 法兰 DN25-PN16 SO RF I FLANGE 钢管 Ø60.3x4 L=145 PIPE 法兰 DN50-PN16 SO RF I FLANGE 钢管 Ø114.3x6.3 L=144 PIPE 法兰 DN100-PN16 SO RF I | 1 1 1 1 1 1 | Q235B S30403 S30403III | | 1.25 0.81 | |
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| RDING TO THIS DWG. T9124.1—2019 图 RDING TO THIS DWG. T9124.1—2019 | 知管 Ø60.3x4 L=145 PIPE 法兰 DN50-PN16 SO RF I FLANGE 钢管 Ø114.3x6.3 L=144 PIPE 法兰 DN100-PN16 SO RF I | 1 1 1 | S30403 Ⅲ | | | |
| /T9124.1—2019 图 IDING TO THIS DWG. /T9124.1—2019 | 法兰 DN50-PN16 SO RF I FLANGE 钢管 Ø114.3x6.3 L=144 PIPE 法兰 DN100-PN16 SO RF I | 1 | | | 2.39 | |
| RDING TO THIS DWG. /T9124.1—2019 | 钢管 Ø114.3x6.3 L=144 PIPE 法兰 DN100-PN16 SO RF I | 1 | S30403 | | | |
| /T9124.1-2019 | 法兰 DN100-PN16 SO RF I | | | | 2.44 | |
| · 노크 | | 1 | S30403 II | | 4.38 | |
| 图 RDING TO THIS DWG. | 钢管 Ø114.3x6.3 L=222 PIPE | 1 | 20 | | 3.7 | |
| /T9124.1-2019 | TA DNIAGO DNIAG CO DE T | 1 | Q235B | | 4.38 | |
| 图 RDING TO THIS DWG. | 钢管 Ø813x20 L=384 PIPE | 1 | Q235B | | 150 | |
| /T9125.1-2019 | 螺母 M27 2型 NUT | 48 | 30CrMoA | 0.15 | 3.6 | |
| /T9125.1-2019 | 人用公用D 107 100 | 24 | 35CrMoA | 0.61 | 14.6 | |
| /T9124.1-2019 | 法兰 DN800-PN2.5 PL RF I FLANGE | 1 | Q235B | | 66 | |
| 图 RDING TO THIS DWG. | 补强圈 Ø1111/Ø711 t=14 | 1 | Q235B | | 62.9 | |
| 图 RDING TO THIS DWG. | 钢管 Ø711x16 L=373 PIPE | 1 | Q235B | | 102 | |
| /T9125.1-2019 | 螺母 M24 2型 NUT | 48 | 30CrMoA | 0.099 | 4.75 | |
| /T9125.1-2019 | 全螺纹螺柱 M24x145 FULL THREAD STUD | 24 | 35CrMoA | 0.428 | 10.3 | |
| /T9124.1-2019 | NA DAIZOO DAIO E DI DE 1 | 1 | Q235B | | 48.5 | |
| 325A-JS-002-04 | 加上山口 | 1 | 组合件 COMPONENT | | 492 | |
| 325A-JS-002-03 | 加台州口 | 1 | 组合件 COMPONENT | | 4183 | |
| 号或标准号 i. OR STAND. No. | 名 称 DESCRIPTION | 数量 QTY. | | | | 1 ' ' |
| / | /T9125.1-2019 /T9124.1-2019 图 DING TO THIS DWG. 图 DING TO THIS DWG. /T9125.1-2019 /T9125.1-2019 /T9124.1-2019 /325A-JS-002-04 /325A-JS-002-03 号或标准号 | T9124.1-2019 FULL THREAD STUD 法兰 DN800-PN2.5 PL RF I FLANGE NA | Yell Thread Stud | Yell 1 | T9125.1-2019 全螺纹螺柱 M27x160 24 35CrMoA 0.61 T9124.1-2019 法兰 DN800-PN2.5 PL RF I 1 Q235B 图 | T9125.1-2019 全螺纹螺柱 M27×160 24 35CrMoA 0.61 14.6 1 |

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