



设计制造检验与验收数据表

DATA SHEET OF DESIGN/FABRICATION/INSPECTION & ACCEPTANCE

设计制造检验与验收标准

设计数据

STANDARDS OF DESIGN/FABRICATION/INSPECTION & ACCEPTANCE

DESIGN DATA

1. ASME SECTION VIII DIV.1 2011 ED.
2. TEMA Tenth Edition CLASS R
3. API660-2020.

名称
DESIGNATION

壳程
SHELL SIDE

管程
TUBE SIDE

换热型式
EXCHANGER TYPE(TEMA)

传热面积
HEAT TRANSFER SURFACE AREA

DESIGN DUTY (MM Btu/hr)

设计压力(内压/外压)
DESIGN PRESSURE (INT/EXT)

工作压力(NORMAL)
OPERATING PRESSURE

最大允许工作压力
MAWP[INTERNAL]

最大允许工作压力
MAWP[EXTERNAL]

最大允许压力
MAP

设计温度
DESIGN TEMPERATURE °F[°C]

工作温度
OPERATING TEMPERATURE °F[°C]

最低设计金属温度
MDMT

工作介质
OPERATING FLUID

介质特性
VESSEL SERVICE

湿H2S工况
WET H2S SERVICE

干H2S工况
HYDROGEN SERVICE

介质致死工况
FLUID LETHAL SERVICE

介质密度
DENSITY OF FLUID lb/ft³[kg/m³]

腐蚀裕量
CORROSION ALLOWANCE

焊接接头系数(筒体/封头)
JOINT EFFICIENCY (SHELL/HEAD)

容积
CAPACITY ft³[m³]

冲击试验
IMPACT TEST

程数
NUMBER OF PASSES

换热管与管板的连接
TUBE-TO-TUBESHEET JOINT

换热管间距/排列方式/数量
PITCH/PATTERN/NO.

换热管外径/壁厚/直段管长
TUBE O.D./WALL THK./LENGTH

焊后热处理
POST-WELD HEAT TREATMENT

成型后热处理
POST FORMING HEAT TREATMENT

保温类型/厚度
INSULATION TYPE/THK

防火类型/厚度
FIREPROOF MATERIAL/THK

油漆系统号
PAINT SYSTEM CODE

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837 [380]

283.4 [128.55]

ASCE 7-2016, S1140.573g, SD=1.811g, SD=1.077g, SD=140.996g, Site Class=II, IMP. FACTOR=1.5, DESIGN CATEGORY=II

ASCE 7-2016

101 [45.2]

EXPOSURE CATEGORY=C

按本图

AS PER THIS DWG

壳程
SHELL SIDE

管程
TUBE SIDE

961.6 [66.300]

811.4 [55.945]

850.8 [58.661]

724.0 [49.919]

5978.5 [2711.8]

5978.5 [2711.8]

5978.5 [2711.8]

6748.7 [3061.16]

7205.5 [3268.36]

7438.9 [3374.23]

7438.9 [3374.23]

2227.1 [1010.2]

837 [380]

283.4 [128.55]

ASCE 7-2016, S1140.573g, SD=1.811g, SD=1.077g, SD=140.996g, Site Class=II, IMP. FACTOR=1.5, DESIGN CATEGORY=II

ASCE 7-2016

101 [45.2]

EXPOSURE CATEGORY=C

按本图

AS PER THIS DWG

壳程
SHELL SIDE

管程
TUBE SIDE

961.6 [66.300]

811.4 [55.945]

850.8 [58.661]

724.0 [49.919]

5978.5 [2711.8]

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ASCE 7-2016, S1140.573g, SD=1.811g, SD=1.077g, SD=140.996g, Site Class=II, IMP. FACTOR=1.5, DESIGN CATEGORY=II

ASCE 7-2016

101 [45.2]

EXPOSURE CATEGORY=C

按本图

AS PER THIS DWG

壳程
SHELL SIDE

管程
TUBE SIDE

9

