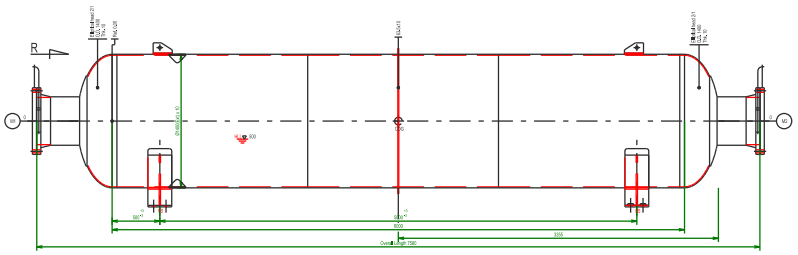

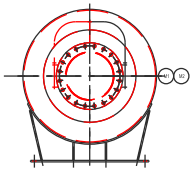

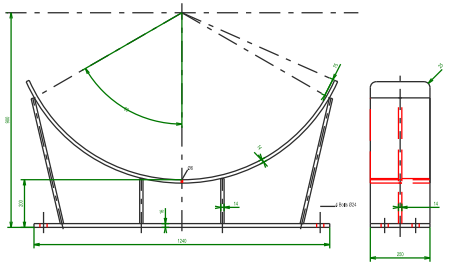

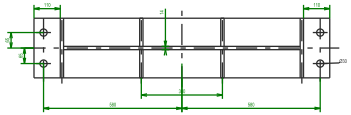

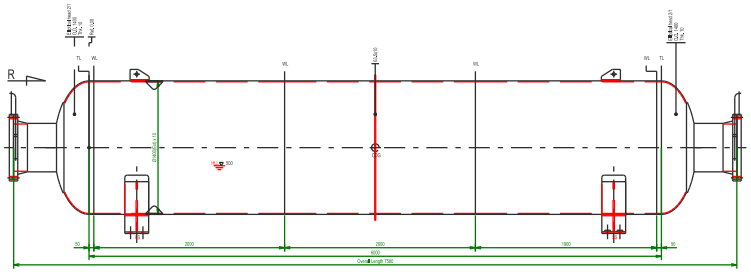

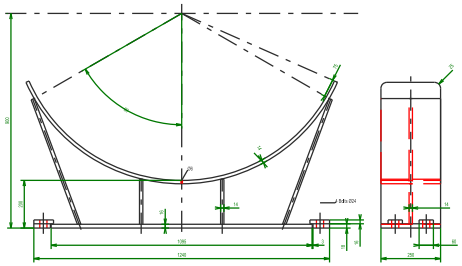

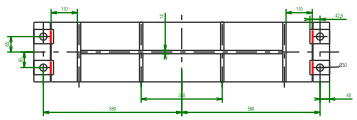

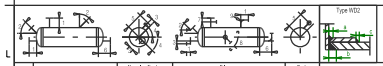

Type W002

Tag	Designation	Nozzle Neck Diam.	Thk.	Flange Height	Nom. d.	Type	Class	Face	Pad Thk. + Mat.	1	2	3	4	5	6	Tag	7	8	9	M.Tag	M.Detail	Thk.Sup.	Thk.Nec.	Thk.+Mat.	Pad	a	c	b
M1	Manhole	NPS 20	6.35	700	NPS 20	WN	150		10 x230	430					700	30, 10				M3	M02	10	6.35	10 x230	7	8	7
M2	Manhole	NPS 20	6.35	700	NPS 20	WN	150		10 x230	430					700	30, 11				M4	M02	10	6.35	10 x230	7	8	7

Operating Conditions

Int./ext. pressure	MPa	- / -
Int./ext. temperature	°C	- / -
Fluid Name		
Service Name		
Fluid Specific Gravity		1

Design Conditions

Design Code		ASME VIII div1 2013
Stamp	☐ Yes ☐ No	Method of vessels ☐ Yes ☐ No
U	☐ Yes ☐ No	
Int./ext. pressure	MPa	0.1 / 0.1
Int./ext. temperature	°C	200 / 150
Differential Pressure	MPa	-
MDMT (at design pressure)	°C	-29
Steamout Pressure	MPa	-
Steamout Temperature	°C	-
Radiography		Spot
Joint Eff. of Efficiency		0.85
MAWP at Design Temp	MPa	-
MAWP in Test	MPa	1.48
MAP Vessel Empty	MPa	-
Insulation	mm	100
Fireproofing	mm	-
Corrosion Allowance	mm	-
Category		
Stress relief		☐ Yes ☐ No
Lethal Service		☐ Yes ☐ No
Hydrogen Service		☐ Yes ☐ No
Flammable Service		☐ Yes ☐ No
Corrosive Service		☐ Yes ☐ No

Impact Test				
☐ Required		Specific or Groups	-	
		Plates	-	
		Forgings	-	
		Standard Flanges	-	
		Nuts and Bolts	-	

		Code	Notes
Earthquake	☐ Yes ☐ No		-
Wind	☐ Yes ☐ No		-

Hydrotest Conditions

Stamp Hydrotest Pressure	MPa	1.2	☐ Vertical	☐ Horizontal
Air test	MPa		☐ Vertical	☐ Horizontal

Construction Material

	Specification	1	2	3	4	5	Notes
Shell+Supports	SA516GR60	☐	☐	☐	☐	☐	-
		☐	☐	☐	☐	☐	-
Shell+Heads	SA516GR60	☐	☐	☐	☐	☐	-
Saddles		☐	☐	☐	☐	☐	-
Nozzles		☐	☐	☐	☐	☐	-
Flange Tubing		☐	☐	☐	☐	☐	-
Manhole neck		☐	☐	☐	☐	☐	-
External Lifts		☐	☐	☐	☐	☐	-
Internal parts		☐	☐	☐	☐	☐	-
		☐	☐	☐	☐	☐	-
Chocks	-	☐	☐	☐	☐	☐	-
Stiffener rings	SA516GR60	☐	☐	☐	☐	☐	-
Saddle supports		☐	☐	☐	☐	☐	-
Other Flanges		☐	☐	☐	☐	☐	-

(1) Normalized (2) Impact test (3) Positive material identification
(4) Challenges corrosion test requested (5) Sour service test requested

Foundation Loads

	Vertical Load	Longitudinal Force	Shear Force	Resultant Bending Moment
Wind Cross	2002 daN	805 daN	-	-
Earthquake Cross	-	-	-	-
Earthquake (Right)	-	-	-	-
Earthquake (Left)	-	-	-	-

Table of estimated weights

Empty	kg	3284	Saddles		kg	1114
Operating	kg	4507	Internal Mass		kg	
Test	kg	4505	Ladders and Platforms		kg	
Fireproofing	kg		Heads		kg	
Insulation	kg		Shells		m²	4.502
Packing	kg		Volume of Shell		m³	5.00
Trays	kg					

Coil Design Conditions

Pressure	MPa	
Temperature	°C	
Test Pressure	MPa	
Corrosion Allowance	mm	
Fluid Specific Gravity		

Painting Requirements

Painting Area		
	External Surfaces	Internal Surfaces
Specification	-	-
Surface Preparation	-	-
Painting System Primer	-	-
Painting System Intermediate Coat	-	-
Painting system Top Coat	-	-

Freight

Overall Dim.	mm	7580	
Center of Gravity	mm	3896.0	

Reference Standard Drawings

Number	Designation
	Nozzle Loadings
	-
	-
	-
	-
	-
	-
	-
	-
	-

CTC

AutoPIPE Report

Sheet : :

Revision :

GTC

AutoCAD Trial

Sheet : 1

Revision : 1