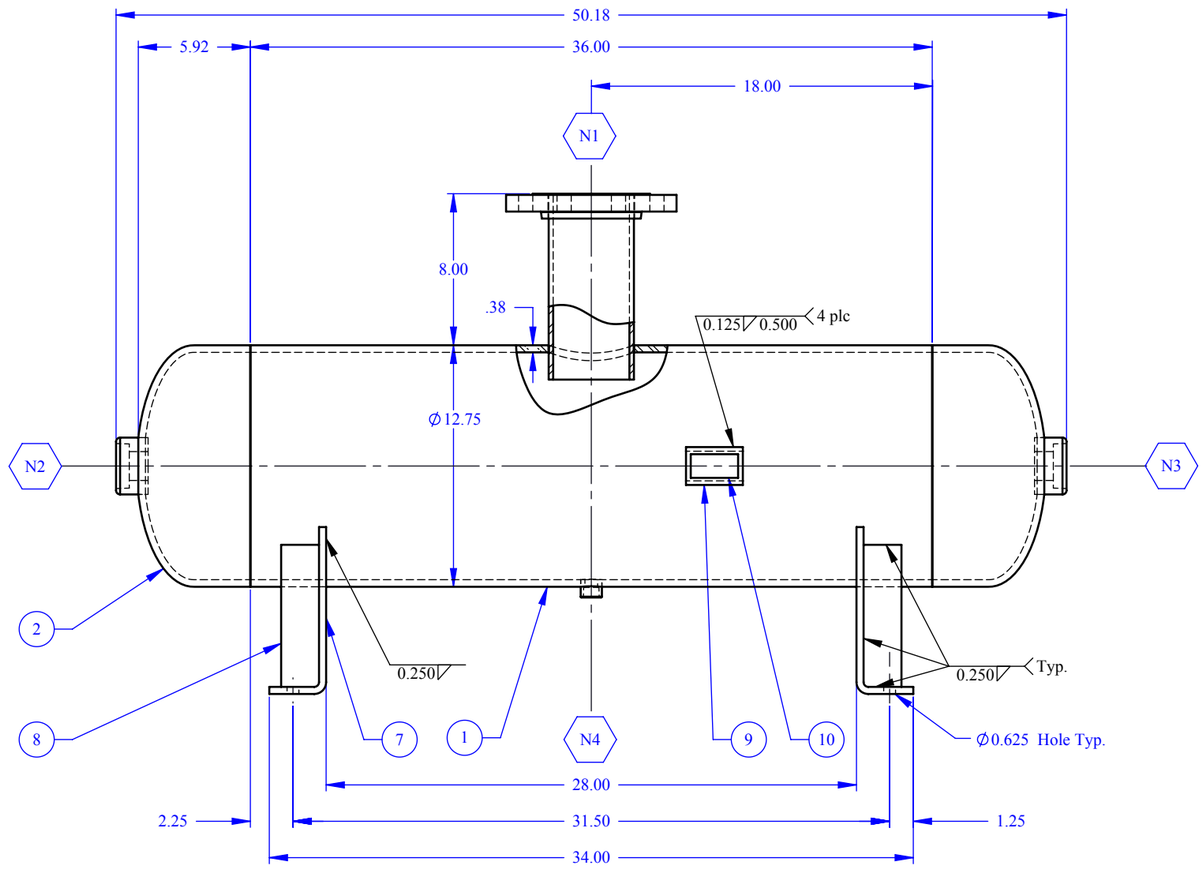
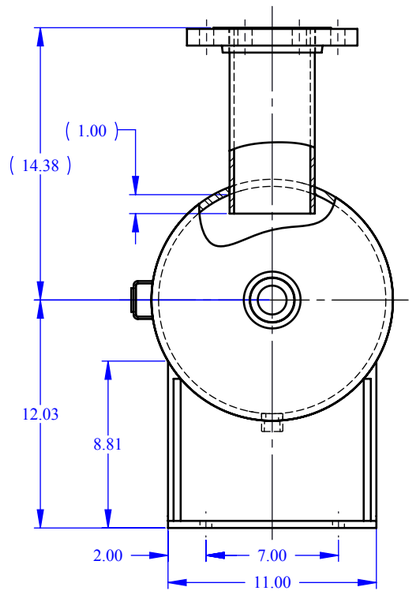
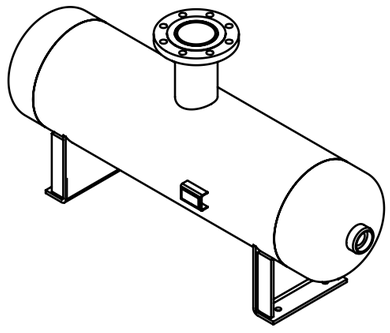






BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MATERIAL
1	1	Pipe - Sch. Std, 12.00 NPS	SA-106B
2	2	Head, Pipe Cap - Sch. Std, 12.00 NPS	SA-234 WPB
3	1	Pipe - Sch. 40, 4.00 NPS	SA-106B
4	1	Flange, RFSO - 150#, 4.00 NPS	SA-105
5	2	Half Coupling, SW - 3000#, 2.00 NPS	SA-105
6	1	Half Coupling, SW - 3000#, 0.50 NPS	SA-105
7	2	Plate 0.375" thick	SA-G40.21 38W
8	4	Plate 7.50" x 2.00" x .375"	SA-G40.21 38W
9	1	Code nameplate bracket	SA-G40.21 38W
10	1	Code nameplate	Stainless

NOTES:

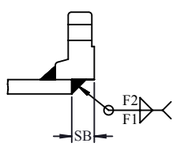
1. All dimensions in inches.
2. All welds shall be neat in appearance, free from slag and other defects.
3. Vessel to be cleaned of scale, oil,weld spatter and all other foreign material, prior to hydrostatic test.
4. Remove all sharp edges on nozzles (1/8" minimum radius)
5. All nozzles to support nomial loads only.
6. Grind welds flush under repads.
7. Maximum misalignment of butt joints is limited to .25T (Category A, B, C, D up to 1/2" thick)
8. All fittings conform to B16.9 standards.
9. All couplings to conform to B16.11 (2011 Add.) standards.
10. All flanges to conform to B16.5 (2009 Add.)/ B16.47 standards.
11. Flange bolt holes to straddle natural centre lines.

DESIGN DATA

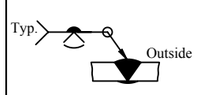
Code	Design Code:	**ASME VIII-1 2007 Ed. 2008 Add.**
	Seismic Code:	**N/A**
	Wind Code:	**N/A**
Design Conditions	MAWP - Int / Ext:	**200 / 0 psi @ 300 °F**
	MDMT:	**-20 °F @ 200 psi**
	Corrosion Allowance:	**0**
Examination	Impact Testing:	**None per UG-20(f) 1-5**
	Radiography:	**None**
	PWHT:	**None**
	Hydro Test:	**260 psi @ Ambient**
Service	Fluid:	**Air / Water / Steam**
	Capacity:	**6 cu. ft.**
	Weight - Empty:	**250 lbs**
	Weight - Operating:	**450 lbs**

NOZZLE SCHEDULE

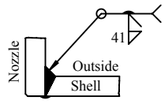
NOZZLE				WELDS				FLANGES				BOM ITEM #
Mark	Size	Qty.	Service	Type	41	42	43	Type	SB	F1	F2	
N1	4"	1	Vent	UW-16.1 (c) with inside projection	0.250	-	0.250	Slip on	0.375	.237	0.370	3,4
N2	2"	1	Inlet	UW-16.1(c)	0.313	-	-	-	-	-	-	5
N3	2"	1	Outlet	UW-16.1(c)	0.313	-	-	-	-	-	-	5
N4	0.50"	1	Drain	UW-16.1(c)	0.188	-	-	-	-	-	-	6



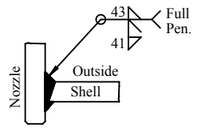
Slip On Flange



Typ. Circ. Seam



UW-16.1 (c)



UW-16.1 (c) with inside projection

Certified by
XYZ Vessel Corp.
(Name of Manufacturer)
200 psi at 300 °F
Max. allowable working pressure (MAWP)
0 psi at 300 °F
Max. allowable external working pressure
-20 °F at 200 psi
Min. Design Metal Temperature (MDMT)
-
Manufacturer's serial number
To Follow
CRN
2012
Year built

REVISIONS

REV.	REVISION HISTORY	DATE	DRW	CHK
0	Release	3/21/2012	KM	LB

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www.pveng.com
info@pveng.com
Tel. 519-880-9808
Fax 519-880-9810

Title
Design Calcs Sample

Size	Job ID	Drawing No.	Revision:
B	PVE-5918	Design Calcs Sample	0
Scale: 1:8	Material: See BOM		Sheet: 1 OF 1