Design Code And Conditions:

Code: ASME VIII-1 Edition: 2001 Addenda: None
Radiography: None
Impact Test: Not Required Per UG-20(f)
Interior Finish: None
Exterior Finish: Primer
Volume: 2.9 cuft Fluid: Air
Weight: Dry 300 lbs In Service 300 lbs At Pressure Test 480 lbs
MAWP: 200 psi At: +300 °F Maximum Allowable Working Pressure
MDMP: +300 -20 °F At: 200 psi Maximum Design Metal Temperature
Test Pressure: 260 psi With: Water For: 20 min Minimum
Corrosion Allowance: 0 Inch

General Notes:

Construction:
All welds shall be neat in appearance, free of slag and other defects
Vessel shall be cleaned of scale, oil, weld spatter and all other foreign matter before hydrostatic testing
Remove all sharp edges on nozzles - 1/8" radius minimum
Long Seam - Mag particle Inspect after joggling to UW-13(b)(4)(b)

Tolerance:
Permissable out of roundness of cylindrical and conical shells shall not exceed 1% of the nominal diameter. This tolerance shall be increased to 2% when the corss-section passes through or within 1 ID of a fitting.
Maximum misalignment of butt joints is limited to: Category A,B,C or D up to 1/2" thick - 1/4"t
Head to shell weld is Category B

Conditions:
This vessel will be bolted to the floor
All nozzles are to support nominal loads only

Item	Qty	Description	Material
10	2	2" Class 3000 Half Coupling	SA-105
9	2	12" Sch 40 Pipe Caps B16.9	SA-234 WPB
8	4	Mounting Bracket Reinf. 7 1/2"x2"x3/8"	SA-516 70
7	2	3/8" Formed Plate Mounting Bracket	SA-516 70
6	1	1/2" Class 3000 Half Coupling	SA-105
5	1	Code Nameplate Bracket	CS
4	1	Code Nameplate	CS
3	1	4" Sch40 Pipe	SA-106B
2	1	4" Class 150 RFSO Flange	SA-105
1	1	12" Sch 40 Pipe--36" Long	SA-106B

Bill of Materials

Mark	Service	Description	Location
D	Drain	1/2" Coupling	Bottom Shell
C	Inlet/Inspection	2" Coupling	Cap
B	Inspection	2" Coupling	Cap
A	Outlet	4" Flange - Class 150	Top Shell

Service Connections

Revision	Date	Description
R0	04/08/2002 CL, LB	For Construction

Location	NPS	Class	Hole	F1 - Weld Size
B & C	2"	3000	3.125"	0.313"
D	1/2"	3000	1.25"	0.188"

Location	t	nt	Proj	Leg41 - Weld Size
A	0.406"	0.237"	1.125"	0.25"

Nozzle	NPS	Class	Leg1	SB	t
A	4"	150	1/4"	1/4"	1/4"

WPS_____

UW-16.1 z-1 Coupling (modified)

WPS_____

UW-16.1 (c) with inside projection

WPS_____

Slip On Flange

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PVE Sample Vessel - 2

XYZ-002 Rev 0