

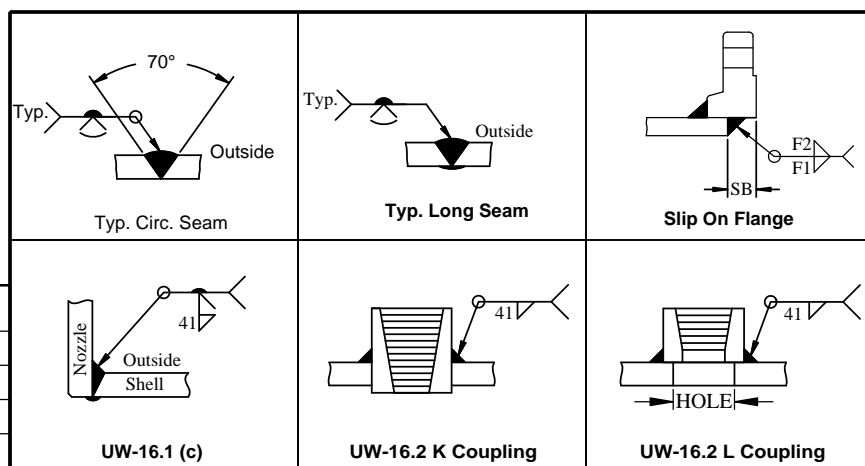
SEPARATION TABLE

| | Coupling | Coupling | | | | | Pipe | | | | Seam |
|----------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | Size | 1 | 1 1/2 | 2 | 2 1/2 | 2 1/2 | 3 | 4 | 6 | |
| Coupling | 1 | 2.250 | 2.688 | 3.063 | 3.625 | 3.000 | 3.500 | 4.250 | 5.875 | 1.125 | |
| | 1 1/2 | - | 3.126 | 3.500 | 4.063 | 3.438 | 3.938 | 4.688 | 6.313 | 1.563 | |
| | 2 | - | - | 3.875 | 4.438 | 3.813 | 4.313 | 5.063 | 6.688 | 1.938 | |
| | 2 1/2 | - | - | - | 5.000 | 4.375 | 4.875 | 5.625 | 7.250 | 2.500 | |
| Pipe | 2 1/2 | - | - | - | - | 3.750 | 4.250 | 5.000 | 6.625 | 1.875 | |
| | 3 | - | - | - | - | - | 4.750 | 5.500 | 7.125 | 2.375 | |
| | 4 | - | - | - | - | - | - | 6.250 | 7.875 | 3.125 | |
| | 6 | - | - | - | - | - | - | - | 9.500 | 4.750 | |

NOZZLE SCHEDULE

| Mark | NOZZLE | | | Service | WELDS | | | | | FLANGES | | | | | |
|------|--------|-----|---------|---------|--------------------|------|----|----|----------|----------|------|-----|------|------|------|
| | Size | Qty | Sch./CL | | Type | 41 | 42 | 43 | Int Proj | Ext Proj | Type | CL | SB | F1 | F2 |
| N1 | 6" | A/R | STD | Inlet | UW-16.1 (c) | .313 | - | - | - | 3.00 | RFSO | 150 | .405 | .250 | .392 |
| | 4" | A/R | STD | Inlet | UW-16.1 (c) | .250 | - | - | - | 3.00 | RFSO | 150 | .362 | .237 | .332 |
| | 3" | A/R | STD | Inlet | UW-16.1 (c) | .250 | - | - | - | 3.00 | RFSO | 150 | .341 | .216 | .303 |
| | 2.50" | A/R | STD | Inlet | UW-16.1 (c) | .250 | - | - | - | 3.00 | RFSO | 150 | .328 | .203 | .285 |
| N2 | 2.50" | A/R | 3000 | Service | UW-16.2 L Coupling | .250 | - | - | - | - | - | - | - | - | - |
| | 2" | A/R | 3000 | Service | UW-16.2 L Coupling | .313 | - | - | - | - | - | - | - | - | - |
| | 1.50" | A/R | 3000 | Service | UW-16.2 L Coupling | .313 | - | - | - | - | - | - | - | - | - |
| | 1" | A/R | 3000 | Service | UW-16.2 L Coupling | .188 | - | - | - | - | - | - | - | - | - |
| N3 | 2" | A/R | 3000 | Drain | UW-16.2 (k) | .313 | - | - | .50 | - | - | - | - | - | - |
| | 1.50" | A/R | 3000 | Drain | UW-16.2 (k) | .313 | - | - | .50 | - | - | - | - | - | - |
| | 1" | A/R | 3000 | Drain | UW-16.2 (k) | .250 | - | - | .50 | - | - | - | - | - | - |

| Coupling | Hole ϕ |
|----------|-------------|
| 1.00 | 1.375 |
| 1.50 | 2.00 |
| 2.00 | 2.375 |
| 2.50 | 3.00 |



BILL OF MATERIALS

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|--|-------------|
| 1 | 1 | Shell - 0.375 Thk | SA-414 Gr G |
| 2 | 2 | Head - 36.00 OD, SE 2:1, 2.00 SF, .313 Thk, .281 MAF | SA-414 Gr G |
| 3 | 2 | Saddle - .38 Thk, Formed | SA-36 |
| 4 | 4 | Saddle Rib - .38 Thk x 4.00 x 19.25 | SA-36 |
| 5 | 4 | Saddle Rib - .38 Thk x 4.00 x 12.25 | SA-36 |
| 6 | 1 | Skirt - .188 Thk. x 24" LG | SA-36 |
| 7 | 4 | Angle Clip - 4.00 x 4.00 x .38 Angle x 4.00 LG | SA-36 |

MATERIAL NOTE:

Flanges - SA-105
Pipe - SA-106 GR. B
Couplings - SA-105

NOTES:

- All dimensions in inches.
- All welds shall be neat in appearance, free from slag and other defects.
- Vessel to be cleaned of scale, oil, weld spatter and all other foreign material, prior to hydrostatic test.
- Remove all sharp edges on nozzles (1/8" minimum radius)
- All nozzles to support nominal loads only.
- Maximum misalignment of butt joints is limited to .25T (Category A, B, C, D up to 1/2" thick)
- All couplings to conform to B16.11 (2011 Add.) standards.
- All flanges to conform to B16.5 (2009 Add.)/ B16.47 standards.
- Flange bolt holes to straddle natural centre lines.
- See Separation Table for minimum distance to seam.
- See Separation Table for minimum distance between nozzles.

CRN: _____ TBA _____

DESIGN DATA

| | | |
|-------------------|----------------------|--------------------------------|
| Code | Design Code: | ASME VIII-1 2010 ed. 2011 add. |
| | Seismic Code: | NBC Canada 2005 |
| | Wind Code: | NBC Canada 2005 |
| Design Conditions | MAWP - Int / Ext: | 200/0 psi @ 250°F |
| | MDMT: | -20°F @ 200 psi |
| | Corrosion Allowance: | 0 in |
| Examination | Impact Testing: | Exempt per UCS-66 |
| | Radiography: | None |
| | PWHT: | None |
| | Hydro Test: | 260 psi @ 70°F |
| Service | Fluid: | Air / Water / Steam |
| | Capacity: | 63.23 cu. ft. max |
| | Weight - Empty: | 1600 lb max |
| | Weight - Operating: | 5500 lb max |

REVISIONS

| REV. | REVISION HISTORY | DATE | DRW | CHK |
|------|------------------|-----------|-----|-----|
| 0 | Release | 3/21/2013 | BT | LB |



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Generic Vessel

| | | | |
|-------|----------|-------------------------|-----------|
| Size | Job ID | Drawing No. | Revision: |
| B | PVE-6847 | PVE-6847-Generic Vessel | 0 |
| Scale | Material | Sheet | |
| 1:24 | See BOM | 1 OF 1 | |

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