

**Summary Chart of Vessel wall and flange dimensions:****DRAFT**

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x750 = Inconel x750 (no Mo); 718 = Inconel 718 (2%Mo); g2 = CP titanium ASME grade 2; g3 = CP titanium ASME grade 3

wall thicknesses are per ASME PV code, sec. VIII, div.2, part 4 rules

bolted joint design is flat faced joint per ASME PV code sec VIII, div.1 Appendix Y, with Helicoflex gasket

clamp is per ASME PV code sec VIII, div.2, part 4.17

based on inner radius 57cm and 15.4 barg max pressure

SP =

| "Parameter"       | "unit" | "x750_g2" | "718_g2" | "x750_g3" | "718_g3" | "clamp_g2" | "clamp_g3" |
|-------------------|--------|-----------|----------|-----------|----------|------------|------------|
| "outer dia."      | "m"    | 1.37      | 1.3      | 1.36      | 1.3      | 1.24       | 1.23       |
| "vess. wall thk." | "mm"   | 6.35      | 6.35     | 5         | 5        | 6.35       | 5          |
| "flange thk./pr." | "mm"   | 120       | 120      | 100       | 100      | 60         | 60         |
| "head wall thk."  | "mm"   | 6.35      | 6.35     | 5         | 5        | 6.35       | 5          |
| "bolt diameter"   | "mm"   | 22        | 20       | 22        | 20       | 22         | 22         |
| "bolt length"     | "cm"   | 13        | 13       | 13        | 13       | 30         | 30         |
| "num bolts/flng." | "mm"   | 68        | 72       | 68        | 72       | 4          | 4          |