

Visual Vessel Design 2017 New Features:

- Version 17.0 includes a number of improvements and additions. This version is also in compliance with:
 - EN 13445:2014 Issue 2
 - EN 13445:2014 Issue 3
 - EN 13480:2012 Issue 4
 - PD5500:2015+A2:2016
- The material libraries have been expanded and updated to be in compliance with the latest edition of the following material standards:
 - EN 10028-7:2016
 - EN 10272:2016
 - EN 10273:2016
- The PED classification tool was updated to reflect the latest requirements to PED 2014/68/EU. The user must now select the edition of PED to be applied:
Added – EN 13445:2014 Part 10, Additional requirements for pressure vessels made of nickel and nickel alloys.
- Added the Nickel material in Table A.2 to the VVD material library. VVD modifications was implemented to accommodate the new requirements related to calculating allowable stresses to Table 6.2-1, Fatigue design to section 6.5, testing groups to Table 8.2-1, NDT requirements to Table 8.3-1 etc.
- To perform an analysis to Part 10, select Nickel or Nickel alloy materials and use test groups (TG) 1 Ni, 2 Ni or 3 Ni, as shown below:
- Added a new feature so that multiple drawings/sketches can be included in the design report. Any drawing/sketch shown on the screen can now be saved and included in the design report. To save a drawing go to 'Action' and 'Save Current Drawing'. Added a drawing organizer that allows the user to change the description of the drawing and delete/undelete any drawings. Up to ten different drawings can be inserted into the report.
- Added a new option so that a standard blind flange can be attached to a standard flange without performing calculations. The flange/blind flange design is then only based on the applicable pressure/temperature rating curves in the standard.
- Added – EN 13445:2014 Part 8, Additional requirements for pressure vessels made of aluminium and aluminium alloys. Added the aluminium materials to the VVD material library. VVD modifications was implemented to accommodate the new requirements related to calculating allowable stresses to Table 6.3-1, testing groups to Table 8.2-1, NDT requirements to Table 8.3-1 etc. Applicable test groups (TG) are 1 Alu, 2 Alu, 3 Alu and 4 Alu. To perform an analysis to Part 8, select aluminium materials and applicable test groups (TG) 1 Alu, 2 Alu, 3 Alu or 4 Alu.

- Added a new option so that the user can select not to check the minimum thickness to ASME VIII Div.1 UG-16, for special type of components/application.
- Corrected a functionality problem when importing components from an existing file, the user was in some cases unable to specify the filename of the file to import from.
- Corrected a functionality problem related to calculation of reversed full faced flanges to PD5500, sometime the calculation would stop and not be completed when calculating the maximum test pressure.
- Corrected a problem for calculation of blind flanges to PD5500, after re-calculation the thickness of the blind flange could in some cases be changed to the same thickness as the mating flange.
- In some cases an incorrect warning message could be displayed for the AD2000 module when generating a report for hydro-testing.
- Corrected a problem for calculation of MAWP for conical transitions to the standard EN13480, the MAWP value could in some cases be underestimated.
- Corrected a problem when using the standard ASME VIII Div. 1:2013 edition, for some materials the yield stress could become zero when obtained from the material database.
This problem was only related to the 2013 edition in the new VVD version 2016.