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Difference between ASME Section VIII Div. 1, Div. 2 & Div. 3

Division 1

Focused on a design-by-rule approach

Division 2

Focused on design-by-analysis approach

Division 3

Meant for designing pressure vessels that require internal or external operating at a pressure above 10,000 PSI



ifference between ASME Section VIII Div. 1, Div. 2 & Div. 3



Design Safety Factor

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Material and Impact Testing

Division 1

Few restrictions on materials; Impact required unless exempted; extensive exemptions under UG-20, UCS 66/67

Division 2

More restrictions on materials; impact required in general with similar rules as Division 1

Division 3

Even more restrictive than Division 2 with different requirements. Fracture toughness testing requirement for fracture mechanics evaluation
Crack tip opening displacement (CTOD) testing and establishment of K_{Ic} and/or J_{Ic} values



Professional Engineer Certification

Division 1

Normally not required

Division 2

Professional Engineers' Certification of User's Design Specification as well as Manufacturer's Design Report Professional Engineer shall be experienced in pressure vessel design

Code Stamp and Marking

Division 1

U Stamp with Addition markings including
W, P, B, RES; L, UB, DF; RT, HT

Division 2

U2 Stamp with Additional marking
including H



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