



VALVE AND FLOW CONTROL SPECIALISTS
SERVICE AND RELIABILITY

What is the difference between ASME Sec 1 (Rev 2021) and AS1271 (Rev 2003) Safety Valves for Boilers (Fired vessels).

There is a vast difference between these 2 standards, far too many to go into depth here so we recommend each does their own research as to decide which to favour. Below is our brief viewpoints.

In relation to specifying codes for safety valves you may wish to consider what safety valves do. These valves are your last line of defense to any overpressure incident be it minor or catastrophic. They are mechanical devices that operate when any electrical controls have failed.

Do you want to specify a standard that is self regulatory ie one that any re-seller *or manufacturer claims to conform to or do you want one that is independently licensed. Where every facet of valve manufacture is inspected, standardized from materials through to sizing, markings, operation, use and refurbishment?*

Do you wish to specify a minimum standard *or the best engineering practice standard?* Your decision on these 2 points may affect equipment owners insurances.

When it comes to ASME standards for safety valves there are 2 commonly referenced these being ASME Section VIII and ASME Section 1. ASME VIII is for pressure Vessels and ASME 1 for Boilers.

The difference here is one is static it just holds pressure whilst the other is used on equipment that generates pressure. With logic and common sense prevailing you would want something generating pressure to operate better, earlier and be more responsive than a static thermal relief.

Percentage of overpressure operation is a major key operational difference here for both AS1271 and ASME 1 codes.

We hope this information helps your research to make an informed decision. Either way we can assist you with complying valves for each standard.

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