

# API Standard 520, Part 1

## Sizing, Selection, and Installation of Pressure-relieving Devices

### Part I—Sizing and Selection

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This standard applies to the sizing and selection of pressure-relief devices used in refineries, chemical facilities, and related industries for equipment that has a maximum allowable working pressure (MAWP) of 15 psig (103 kPa) or greater. The pressure-relief devices covered in this standard are intended to protect unfired pressure vessels and related equipment against overpressure from operating and fire contingencies.

This standard includes basic definitions and information about the operational characteristics and applications of various pressure-relief devices. It also includes sizing procedures and methods based on steady state flow of Newtonian fluids.

Pressure-relief devices protect a vessel against overpressure only; they do not protect against structural failure when the vessel is exposed to extremely high temperatures such as during a fire. See API 521 for information about appropriate ways of reducing pressure and restricting heat input.

Atmospheric and low-pressure storage tanks covered in API 2000 and pressure vessels used for the transportation of products in bulk or shipping containers are not within the scope of this standard.

The rules for overpressure protection of fired vessels are provided in ASME BPVC, Section I and are not within the scope of this standard.

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**Guidelines for Design Solutions for Process Equipment Failures**, 1998-08-15 Disk contains Failure scenario tables

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**Casti Guidebook to ASME B31. 3 - Process Piping, 2nd Edition**

Glynn E. Woods, Roy B. Baguley, 2000 This guidebook offers insight into the technologies associated with ASME code design fabrication materials testing and examination of process piping. This book explains specific codes and interpretations and is designed to help in design or installation of process piping. *Major Hazards Onshore and Offshore*, 1992 The report into the Piper Alpha disaster recommended that experience gained in the control of hazards onshore should be applied to improve safety standards offshore. These papers review what has been learnt so far with regard to major hazards and consider the application onshore and offshore. *Standards and Practices for Instrumentation* Instrument Society of America, 1980

Prepared by the Instrument Society of America Proceedings-Refining Department American Petroleum Institute. Refining Department,1982 Employment Safety and Health Guide ,1994 Includes original text of the Occupational safety and health act of 1970

**Pressure Relief Devices** Mohammad A. Malek,2005-10-06 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Boilers storage tanks and water heaters require relief devices to prevent overpressure that may cause serious injuries to personnel This book explains in simple language the codes that govern their maintenance and continued operations Within the boiler piping and pressure vessel industry pressure relief devices are considered one of the most important safety components These Devices are literally the last line of defense against catastrophic failure or even lose of life Written in plain language this fifth book in the ASME Simplified series addresses the various codes and recommended standards of practice for the maintenance and continued operations of pressure relief valves as specified by the American Society of Mechanical Engineers and the American Petroleum Institute Covered in this book are preventive maintenance procedures methods for evaluation of mechanical components and accepted methods for cleaning adjusting and lubricating various components to assure continued operation and speed performance as well as procedures for recording and evaluating these items

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