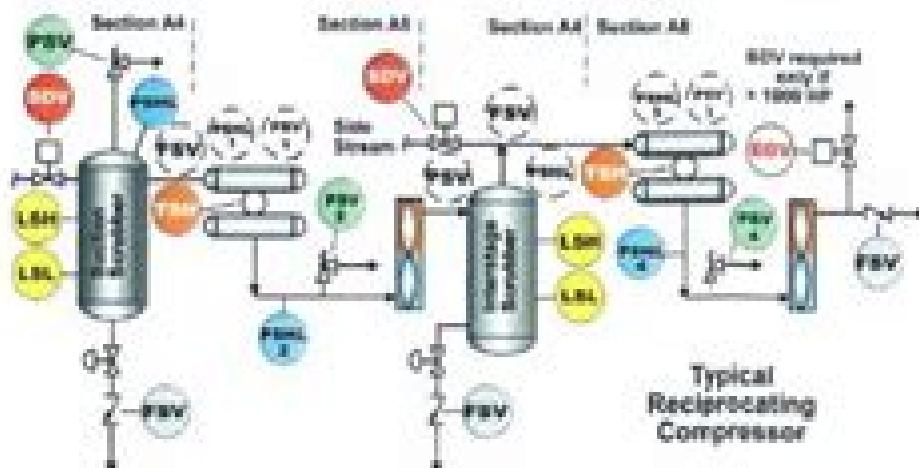


## Analysing the API 545 to preliminary design for process safety

As per API 545, that could be classified by major equipments for protecting, the typical could be able to use in particular project.

### 1. Compressor



PSV Type	PSV Layer	PSV Function
Back Pressure PSV	A1a	A1a.1 - PSV installed. A1a.2 - Each input source is protected by a PSV that will also protect the compressor.
Back Pressure PSV	A1b	A1b.1 - PSV installed. A1b.2 - Compressor is protected by a downstream PSV, located upstream of cooler & can't be isolated from the compressor.
Back Pressure PSV	A1c	A1c.1 - PSV installed. A1c.2 - Each input source is protected by a PSV that will also protect the compressor.
Back Pressure PSV	A1d	A1d.1 - PSV installed. A1d.2 - Compressor is protected by a downstream PSV, located upstream of cooler & can't be isolated from the compressor.
PSV	A2	A2.1 - PSV installed. A2.2 - Input(s) have a PSV that will also protect the compressor.
PSV	A3	A3.1 - PSV installed. A3.2 - Compressor is kinetic energy type and incapable of generating a pressure > MARY of the compressor or discharge piping.
PSV	A4g	A4g.1 - PSV installed.
PSV	A4l	A4l.1 - TSH installed (each discharge cylinder).

Figure 1 Typical reciprocating compressor protection devices

# Api Rp14c Study Guide

**M.H. Walter,R.F. Cox**

## Api Rp14c Study Guide:

**Safety and Security Review for the Process Industries** Dennis P. Nolan, 2011-10-28 Dennis P. Nolan Pacific Coast Joint Chapter Meeting American Petroleum Institute. Pacific Coast Chapter. Joint Meeting, 1980

**Applications of HAZOP and What-If Safety Reviews to the Petroleum, Petrochemical and Chemical Industries** Dennis P. Nolan, 1994-12-31

This publication is intended to provide guidance to HAZOP Hazard and Operability and What If review teams associated with the petroleum petrochemical and chemical industries. It describes the nature responsibilities methods and documentation required in the performance of such reviews. This ensures the reviews are conducted in a timely effective and professional manner as may be prescribed by a company's Process Safety Management PSM Policy. This book can be used as a practical reference to prepare the safety review requirements for these industries and their process safety management systems. The safety of petroleum and chemical facilities is an important part of a company's operations. Recent worldwide petrochemical safety regulations and a company's own process safety management policies would require that a process hazard analysis PHA review of its existing and proposed petroleum operations be accomplished. The limits of hazardous substances cited by both the US Occupational Safety and Health Administration OSHA and the Environmental Protection Agency EPA regulations dictate the applications of process safety management elements at almost all of a company's facilities. These reviews are intended to reduce the probability and or consequences of a major incident that would have a detrimental impact to the employees the public's well being onsite or offsite properties the environment and most important to a company itself its continued business operation and survival. Process hazard analysis reviews are not intended to identify the minor slips trips or falls these are the responsibility of the company's general safety requirements and are well established. The process hazard analysis is looking for the major incidents which have the potential for severe impacts. HAZOP and What If reviews are two of the most common petroleum and chemical industries qualitative methods used to conduct process hazard analyses. Up to 80% of a company's process hazard analyses may consist of HAZOP and What If reviews with the remainder 20% from checklist Fault Tree Analysis Event Tree Failure Mode and Effects Analysis etc. An experienced review team can use the analysis to generate possible deviations from design construction modification and operating intent that define potential consequences. These consequences can then be prevented and or mitigated by the application of the appropriate safeguards.

**Petroleum Review**, 1994 Proceedings of the Marine Safety Council, 1994 **Proceedings**, 1991 **Index and Directory of U.S. Industry Standards**, 1987 Catalog of Copyright Entries. Third Series Library of Congress. Copyright

Office, 1976 **Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering**, 1996 Petroleum Abstracts, 1992 Global Contexts Deborah S. Bosley, 2001 A dozen case studies some fiction some real for use in a graduate or undergraduate technical communication course. They reveal issues relevant at the international level offer strategies for recognizing behaviors and patterns of thinking and feeling that affect technical documentation and

identi **FLAIM** William Edward Gale,1993 Proceedings : Western Regional Meeting Society of Petroleum Engineers (U.S.) Western Regional Meeting,1996 Revival: Safety and Reliability in the 90s (1990) M.H. Walter,R.F. Cox,2019-09-09

Reliability based design is relatively well established in structural design Its use is less mature in geotechnical design but there is a steady progression towards reliability based design as seen in the inclusion of a new Annex D on Reliability of Geotechnical Structures in the third edition of ISO 2394 Reliability based design can be viewed as a simplified form of risk based design where different consequences of failure are implicitly covered by the adoption of different target reliability indices Explicit risk management methodologies are required for large geotechnical systems where soil and loading conditions are too varied to be conveniently slotted into a few reliability classes typically three and an associated simple discrete tier of target reliability indices Proceedings - Offshore Technology Conference ,1997 SPE Advanced Technology Series ,1996

**Code of Federal Regulations, Title 30, Mineral Resources, PT. 200-699, Revised as of July 1, 2015** Department of Interior (U S,Department of Interior (U S ),2015-10-08 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government This print ISBN is the U S Federal Government official version 30 CFR Parts 200 599 covers the Bureau of Safety and Environmental Enforcement Minerals Revenue Management Offshore Geological Survey and the Appeals processes within these offices of the United States Department of Interior Notes Parts 600 699 are not currently available for preview In this volume you will find rules processes procedures and regulations relating to relief or reduction in royalty rates oil gas and Sulphur operations in the outer continental shelf geological and geophysical operations in the outer continental shelf renewable energy and alternative uses of energy in the outer continental shelf appeal procedures state water research institute programs and more State water management program staff analysts oil developers energy developers including electric power companies equipment manufacturers systems developers environmentalists and inspectors that may grant permits for offshore energy exploration may be interested in this updated volume Other related products include the following The Strategic Importance of the Global Oil Market can be found here <https://bookstore.gpo.gov> products sku 008 000 01156 7 Minerals Yearbook print volumes can be found here <https://bookstore.gpo.gov> catalog science technology minerals metals minerals yearbook United States Code 2012 Edition V 22 Title 29 Labor to Title 30 Mineral Lands and Mining can be found here <https://bookstore.gpo.gov> products sku 052 001 00639 9 ctid 84 Keywords Oil gas petroleum minerals mineral lands offshore energy exploration energy renewable energy ocean energy management gas pipelines water technology water resources water management environment environmental 30 CFR Parts 200 599 30 CFR Parts 200 699 CFR 30 Parts 200 699 cfr 30 parts 200 699 The Journal of Canadian Petroleum Technology ,1984 Drilling International ,1975 **Safety Developments in the Offshore Oil and Gas Industry** Institution of Mechanical Engineers (Great Britain). Offshore Engineering Group,1991 Offshore platforms are potentially an extremely hazardous environment

Therefore the improvement of the safety factors in offshore production platforms is of vital importance and involves areas such as the design engineering and construction of these installations. An international conference on this subject was organized by the IMechE in April 1991 and covered such topics as the human dimension in offshore safety materials for safe platforms and legislating for safer engineering design.

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