Instructions to Voters/Comments on API 520 Part II Ballot – "ASME Code References in Part II"

- Your comments should be limited to the **red-lines portions of the ballot only.**
- This ballot covers the API 520 TF action item 2024-06.
- If you are voting negative, please indicate which of your comment or comments are the reason for your negative vote. API's Balloting system will categorize all of your comments as Negative.
- Don't worry about formatting issues, particularly with the equations since these are a mess. These will be fixed during final editing.

Thanks to Ken Kuptiz and his work group for their efforts.

Phil Henry
TF520 Chairman

Sizing, Selection, and Installation of Pressure-relieving Devices

Part II—Installation

API STANDARD 520, PART II
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6.7.1 Rupture Disks Installed at the Outlet of a PRV

A rupture disk device may be installed on the outlet of a PRV to protect the valve from downstream fluids. Consideration shall be given to the PRV design so that it will open at its proper pressure setting regardless of any backpressure that may accumulate between the valve and rupture disk. The pressure drop due to the rupture disk in the discharge piping should be included in the hydraulic calculations. See 8.3 ~~UG-127~~ of the ASME ~~*Boiler and Pressure Vessel Code*~~ *BPVC*, Section XV~~I~~III [8] for other requirements and considerations.

8 PRD Isolation (Stop) Valves

8.2 Application

If a PRD has a service history of leakage, plugging, or other severe problems that affect its performance, isolation and sparing of the PRD may be provided. The use of isolation valves and/or sparing permits the PRD to be inspected, maintained, or repaired without shutting down the process unit. However, there are potential hazards associated with the use of isolation valves. The ASME ~~Boiler and Pressure Vessel Code~~BPVC, Section VIII [7], Nonmandatory Appendix M, Section M-5~~.6~~ discusses proper application of these valves and the administrative controls that shall be in place when isolation block valves are used. Local jurisdictions may have other requirements.

Bibliography

Informative References

[1] API Standard 510, *Pressure Vessel Inspection Code: In-Service Inspection, Rating, Repair and Alteration*

[2] API Standard 526, *Flanged Steel Pressure-relief Valves*

[3] API Standard 521, *Pressure-Relieving and Depressuring Systems*

[4] API Recommended Practice 576, *Inspection of Pressure Relieving Devices*

[5] ASME B31.1 [1], *Power Piping*

[6] ASME B31.3, *Process Piping*

[7] ASME *Boiler and Pressure Vessel Code*, Section VIII, *Pressure Vessels*

[8] ASME *Boiler and Pressure Vessel Code*, Section XIII, *Rules for Overpressure Protection*