API 6A 21st Ed Major Changes From 20th Ed.

As of Final Ballot 4464 – 5/3/2018

7/29/2018
Overview

1. Ballot History - Timeline
2. Overview of New Format
3. Major Changes in content
History of 21st Edition of 6A Ballots

Ballot 3064 – Comment Ballot
• Closed – 7/30/2015 – Comment only
  • 894 Comments addressed

Ballot 4084 – Technical Ballot
• Closed – 4/6/2017 - Passed
  • 1198 Comments addressed

Ballot 4291 – Technical Ballot
• Closed – 11/22/2017 - Passed
  • 527 Comments addressed

Ballot 4464 – Final Ballot
• Closed – 6/11/2018 – Passed with 2 negative votes
  • 1023 Comments received – 26 Technical, 116 General, 907 editorial
API 6A 21st Edition Timeline

First TG Meeting
7/31/2013

5 ballots, review of interpretations, many meetings and lots of good debate & discussion

Planned Release
9/01/2018
API 6A 21st Edition - New Format Sections

1. SCOPE
2. NORMATIVE REFERENCES
3. TERMS, DEFINITIONS AND ABBREVIATED TERMS
4. APPLICATION AND PERFORMANCE
5. DESIGN
6. MATERIALS
7. WELDING
8. BOLTING
9. PACKING MECHANISMS, FITTINGS, BOUNDARY PENETRATIONS AND PORTS
10. QUALITY CONTROL
11. FACTORY ACCEPTANCE TESTING
12. EQUIPMENT MARKING
13. STORING AND SHIPPING
14. EQUIPMENT SPECIFIC REQUIREMENTS
15. RECORDS
API 6A 21\textsuperscript{st} Edition - New Format Sections

- Annex A - API Monogram
- Annex B - Purchasing Guidelines
- Annex C - Conversion Procedures—Units of Measure
- Annex D - Dimensional Tables—SI Units
- Annex E - Dimensional Tables—USC Units
- Annex F - Design Validation Procedures for PR2 (PR2F Level)
- Annex G - Design and Rating of Equipment for Use at Elevated Temperatures
- Annex H - Recommended Assembly of Closure Bolting
- Annex I - Recommended Bolt Lengths
- Annex J - Weld-neck Flanges
- Annex K - Top Connectors
- Annex L - Segmented Flanges
- Annex M - Heat-treat Equipment Qualification
Overview of New Format for 21st Edition of 6A

Highlights include:

• General re-arrangement, increasing number of sections from 10 to 15
• Development of a Separate Section on Design with reference to API 6X
• Development of a Separate Section on Bolting with references to 20E and 20F
• Adjusting PSL 4 to create usable PSL for critical service equipment
• Splitting FAT from Quality Requirements
• Development of a Separate Section on Records – Section 15
• Grouping all Requirements of the Same Activity in the Same Section rather than by PSL
• Addition of a new product - Boarding Shutdown Valves (processed with the Safety Valves)
• Uniformity in Layout and Organization in the Product Specific Section
• Uniform Use of Product Names Throughout the Document
• PSL table in Annex B – Purchasing Annex
• Moved Weld-neck flanges to separate Annex
• Moved Segmented flanges to separate Annex
• Location of all remaining dimensional tables into Annexes (Annex D for SI Units (mm); Annex E for USC Units (in))
• References to 20 series documents for bolting, castings and NDE
• Elimination of PR1 Annex F validation
• Addition of pressure boundary qualification in Annex F
What was not addressed?

- Definition of a manufacturer
- Elimination of PSL1
- Increasing Charpy Impact requirements
- Normative Annex F
- PR3 Annex
- Full definition for sour service marking
- Elimination of Class ZZ
- Reference out to 17TR8 for HPHT
- Replacement for Annex H