

API Ballot # 6550

TG DSE
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Work Item Number	7072
Title of Work Item	API Spec 7V, Edition 1, Addendum 1
Ballot Revision Level	1
Type of Ballot (Initial, Comment, Comment resolution (reference API ballot#), 1 st Re-ballot, 2 nd Re-ballot, etc.)	initial
Submitter Name(s)	Tony Collins
API Document Modified	API Spec 7V, Edition 1
Impacted Documents	API Spec 7V, Edition 1
Revision Key	Deletion are marked with red strike through Additions are marked with <u>red underline</u>

Work Item Charge: Spec 7V as published did not meet the requirements for Monogram licensing. Licensing was always the objective of the specification, so a work item (7072) was launched to amend it to conform to Monogram rules. Most of the addendum was as proposed by Monogram staff, but revised by the work group.

Ballot text attached

Date of Issue: XXXX, 2024 (Monogram Program Effective Date: 6 months after publication)

Affected Publication: API Specification 7V, Drill Stem Valves, 1st Edition, April 2024

ADDENDUM 1

Section 2: Section shall be changed as indicated by the *red markup* below:

~~API Specification 5B, Threading, Gauging and Inspection of Casing and Tubing and Line Pipe Threads~~

~~ISO 17025, General requirements for the competence of testing and calibration laboratories~~

Section 4.2.3: Section shall be changed as indicated by the *red markup* below:

4.2.3 Changes to the design acceptance criteria that could affect validation test performance or interchangeability of DPFVs shall require requalification. Seals that have passed the applicable validation test requirements of 4.4 shall be treated interchangeably among the DPFVs of a manufacturer for a particular service and do not require requalification.

Section 4.4.1.4: Section shall be changed as indicated by the *red markup* below:

4.4.1.4 DPFV seals (side and mechanism seals) shall be qualified by group, pressure rating, and material *class* provided the outside geometry is similar. Validation tests at higher pressures qualify all pressure ratings below that pressure.

Section 5.2.4: Section shall be changed as indicated by the *red markup* below:

5.2.4 Service Class Pressure Sealing Performance Requirements

Kelly valves regardless of closure mechanism shall be designed, verified, and tested according to the class of service. Valves shall be classified as class 1, class 2, or class 3 depending on which design performance requirements the valve meets. Class 1 seals pressure from below. Class 2 seals in both directions and externally. Class 3 valves meet class 2 and are additionally verified to assure operation under pressure and functional actuation torque. The design performance requirements for pressure sealing for each service class *shall conform to the requirements as specified* in Table 7.

Section 6.2.4: Section shall be changed as indicated by the red markup below:

6.2.4 Pressure Sealing Performance Requirements

IBOPs shall be designed for surface and downhole service and shall meet the following design performance requirements:

- a) body shall hold internal pressure equal to the shell test pressure, and
- b) closure seal shall hold pressure from below at a low pressure of 250 psi to 350 psi and at a high pressure equal to or greater than the rated working pressure.

The design performance requirements for pressure sealing for IBOPs shall conform to the requirements as specified in Table 8.

Section 6.3.3: Section header shall be renumbered as indicated by the red markup below:

6.3.1 Test Overview

Section 7.3.2: Section shall be changed as indicated by the red markup below:

7.3.2 The manufacturer's written specifications for non-metallic materials shall define those characteristics critical to the performance of the material. Such information should be as follows, for example, but not limited to:

- a) material class,
- b) mechanical properties, as a minimum:
 - 1) tensile strength (at break),
 - 2) elongation (at break),
 - 3) tensile modulus (at 50 % or 100 %, as applicable) or durometer hardness, or both, and
 - 4) compression set.

Section 8.3.1: Section shall be changed as indicated by the red markup below:

8.3.1 ~~Measuring and testing equipment used for acceptance shall be identified, controlled, calibrated, and adjusted at specified intervals in accordance with ISO 17025 and this standard. Equipment used to inspect, test or examine material or other equipment shall be identified, controlled, calibrated and adjusted at specified intervals in accordance with documented manufacturer instructions, and consistent with nationally or internationally recognized standards specified by the manufacturer, to maintain the accuracy required by this Standard.~~

Bibliography: The following shall be added:

API Specification 5B, Threading, Gauging and Inspection of Casing and Tubing and Line Pipe Threads