

API Ballot 7157
TG DSE

Work Item Numbers	7078 (7076 and 7081)
Title of Work Item	Development of API 7V Edition 1, Addendum 2
Ballot Revision Level	0
Type of Ballot (Initial, Comment, Comment resolution (reference API ballot#), 1 st Re-ballot, 2 nd Re-ballot, etc.)	Initial
Submitter Name(s)	Smith Bobbitt
API Document Modified	Spec 7V, Edition 1
Impacted Documents	Spec 7V, Edition 1
Revision Key	See draft

Work Item Charge:

7078: Development of API 7V Edition 1, Addendum 2

7081: Amend API Spec 7V to allow any valve tested as Spec 7-1 Class 2 before the 1st ed Add 1 of Spec 7V, to be accepted as Spec 7V Class 2. And any Spec 7V Class 3 tests performed on Spec 7-1 Class 2 valve qualify as Spec 7V Class 3.

7076: Define use of "Industry Mark"

Ballot Rationale: Standards Action ballot for approval of API 7V Edition 1, Addendum 2

Ballot Text:

Date of Issue: [Month Year](#)
(API Monogram Program Effective Date: [Month Day, Year](#))

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

Addendum 2

Section 3.1.11: This section shall be added and all subsequent terms shall be renumbered:

3.1.11

licensed/registered industry mark

Word(s), symbol(s), character(s) or combination thereof that identifies a product certification or license of the organization applicable to the product.

NOTE An example is the API monogram.

Section 3.2 (Abbreviations): The following abbreviation shall be added:

SMYS Specified Minimum Yield Stress

Section 5.3.1.3: The section shall be changed as indicated by the red markup below:

During the high-pressure tests, the valve shall be tested to the values stated in Table 3 based on the individual testing step. During the holding time, the pressure shall not drop by more than 250 psi ~~or 5%~~ **whichever is less.**

Table 5: The table shall be changed as indicated by the red markup:

Table 5-Tensile Testing Specimen Location

Raw Material	Testing Location
Bar OD < 6 in.	1 in. below surface
Bar OD ≥ 6 in.	1 in. below surface and also at or below connection gauge point
Tube	Mid-wall

Section 5.3.2.4: The second paragraph shall be changed as indicated by the red markup below:

Non-metallic seal systems are available for operation over a temperature range of 14 °F to 194 °F. Design validation testing shall be conducted with the valve and the test fluid at these temperature extremes, unless the purchaser specifies otherwise. Pressure testing shall be performed ~~in accordance with 5.3.2.3~~ at both low- and high-temperatures, using suitable testing fluids for extreme temperature conditions.

Sections 5.3.2.4.1, 5.3.2.4.2 and 5.3.2.4.3: The sections shall be added:

5.3.2.4.1 Temperature Test at Pressure from Below

Pressure shall be applied to the functional lower end of the valve (normally the pin end) with the valve in the closed position and atmospheric pressure on the upper end.

Low- and high-pressure tests shall be conducted. The low-pressure test shall be at 250 psi and the high-pressure test shall be at the maximum working pressure rating with minimum holding times of 5 minutes. Open and close the valve after the high-pressure test to release any trapped pressure in cavities of valve.

5.3.2.4.2 Temperature Test at Pressure from Above

Pressure shall be applied to the functional upper end of the valve (normally the box end) with the valve in the closed position and atmospheric pressure on the lower end.

Low- and high-pressure tests shall be conducted. The low-pressure test shall be at 250 psi and the high-pressure test shall be at the maximum working pressure rating with minimum holding times of 5 minutes. Open and close the valve after the high-pressure test to release any trapped pressure in cavities of valve.

5.3.2.4.3 Stem-seal External Pressure Temperature Test

Pressure shall be applied to the outside of the valve (e.g. through a high-pressure sleeve mounted over the stem seal area) with the valve in the half-open position.

Low- and high-pressure tests shall be conducted. The low-pressure test shall be at 250 psi and the high-pressure test at a minimum of 2000 psi with minimum holding times of 5 minutes.