Specification for Pipeline and Piping Valves

API SPECIFICATION 6D
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ERRATA 9

(including changes from Errata 1, October 2014; Errata 2, December 2014; Errata 3, February 2015; Errata 4, June 2015; Errata 5, July 2015; Errata 6, September 2015; Errata 7, June 2016; and Errata 8, August 2016)

Page 2, **Section 2**, *replace:*

ASME B31.4, *Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids*, 2013

with

ASME B31.4, *Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids*, 2012

Page 4, **Section 2**, *insert the following normative reference:*

SAE AMS 2750, *Pyrometry*

Page 18, **Section 5.13**, *4th paragraph, revise the 1st sentence to read:*

Handwheel diameter(s) shall not exceed the 40 in. (1016 mm).

Page 24, **Section 6.10**, *insert the following sentence at the end of the section:*

Records of furnace calibration and surveys shall be maintained for a period not less than five years.

Page 30, **Section 9.2**, *revise the 4th paragraph to read:*

Any visually detectable leakage during the test duration at test pressure on any external surface of the shell is cause for rejection.

Page 33, **Section 10**, *revise the 4th paragraph to read*:

See Annex L for details on where coatings/paintings are not allowed.

Page 34, **Table 7**, *revise lines 5 and 6 to read*:

5a	Body/closure/end connection material designation [a c]: material grade	On both body/closure**/**end connection and nameplate;
5b	Body/closure/end connection melt identification (e.g. cast or heat number)	On both body/closure**/**end connection only
6a	Bonnet/cover material designation [c]: material grade	On bonnet/cover
6b	Bonnet/cover melt identification (e.g. heat number)	On bonnet/cover

Page 35, **Section 11**, delete the text in the red box:

On valves whose size or shape limits the body markings, they may be omitted in the following order:

1) size,
2) rating,
3) material,
4) manufacturer name or trademark.

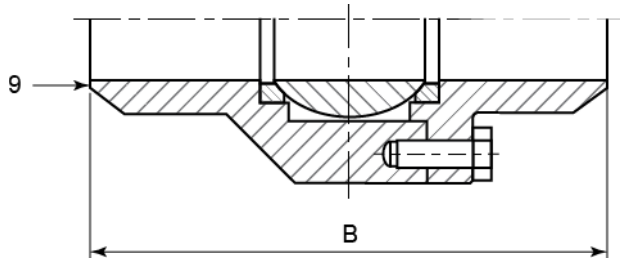
The nameplate and serial number may be omitted for valves smaller than DN 50 (NPS 2), only by agreement.

For valves with one unidirectional seat and one bidirectional seat, the directions of both seats shall be specified on a separate identification plate as illustrated in Figure 5. In Figure 5, one symbol indicates the bidirectional seat and the other symbol indicates the unidirectional seat.

Page 51, **Figure B.8**, *in the* **Key**, *revise* 6) *and* 7) *as follows*:

6) clapper disc
7) seat ring

Page 57, **Figure B.14**, *replace part* B *of the figure as follows*:



Page 64, **Table C.2***, replace header row*:

Class 350

with

Class 300

Page 81, **Figure F.2**, *replace the labels on the figures to read*:

a) Side view b) Top view

Page 82, **Section F.3.4**, *revise the paragraph to read:*

Furnaces used for continuous heat treatment shall be calibrated in accordance with procedures specified in SAE AMS-2750.

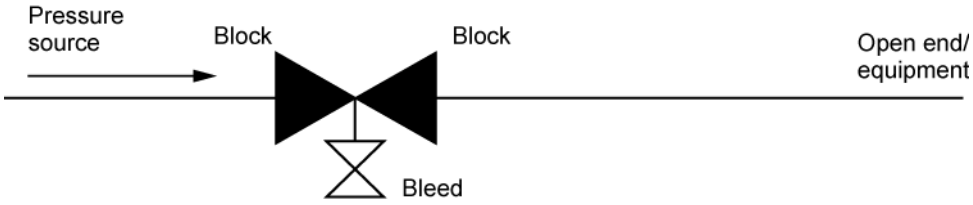
Page 83, **Section G.6**, *revise the acceptance criteria to read from:*

Acceptance shall be in accordance with ASME *BPVC*, Section VIII, Division 1, Appendix 6.

to

Acceptance shall be in accordance with ASME *BPVC*, Section VIII, Division 1, Appendix 7.

Page 100, **Figure K.6**, *replace the figure as follows:*



Page 104, **Section M.2**, *add the following row*:

40 KSI or SMYS 276 MPa (Item 10: SMYS)

Page 104, **Section M.2**, *revise the last row to read*:

(Item 15: serial number)

Page 104, **Section M.4**, *delete the following row*:

40 KSI or SMYS 276 MPa (Item 10: SMYS)

Page 110, *delete the following bibliographical reference* (moved to **Section 2**):

[16] SAE AMS 2750, *Pyrometry*

Contents

Contents

Contents

Contents

Introduction

This specification is the result of updating the requirements of API Specification 6D, 23rd Edition including Addendum 1, Addendum 2, and Addendum 3.

The revision of API 6D is developed based on input from API 6D Task Group technical experts. The technical revisions have been made in order to accommodate the needs of industry and to move this specification to a higher level of service to the petroleum and natural gas industry.

This specification is not intended to inhibit a manufacturer from offering, or the purchaser from accepting, alternative equipment or engineering solutions for the individual application. This may be particularly applicable where there is innovative or developing technology.

Specification for Pipeline and Piping Valves

1 Scope

1.1 General

This specification defines the requirements for the design, manufacturing, assembly, testing, and documentation of ball, check, gate, and plug valves for application in pipeline and piping systems for the petroleum and natural gas industries.

This specification is not applicable to subsea pipeline valves, as they are covered by a separate specification, API 6DSS.

This specification is not applicable to valves for pressure ratings exceeding Class 2500.

If product is supplied bearing the API Monogram and manufactured at a facility licensed by API, the requirements of Annex A applies.

Annexes B, C, D, E, F, G, H, I, J, K, L, M, N, and O are annexes that are used in order listed.

1.2 Conformance

1.2.1 Units of Measurement

In this specification, data are expressed in both U.S. customary (USC) and metric (SI) units.

1.2.2 Rounding

Except as otherwise required by this specification, to determine conformance with the specified requirements, observed or calculated values shall be rounded to the nearest unit in the last right-hand place of figures used in expressing the limiting value, in accordance with the rounding method of ASTM E29 or ISO 80000-1, Annex B, Rule A.

1.3 Conformance with Specification

A quality management system shall be applied to assist conformance with the requirements of this specification. The manufacturer shall be responsible for conforming with all of the applicable requirements of this specification.

It shall be permissible for the purchaser to make any investigation necessary in order to be assured of conformance by the manufacturer and to reject any material that does not conform.

1.4 Processes Requiring Validation

The following operations performed during manufacturing shall be validated, by the manufacturer, in accordance with their quality system as applicable:

— nondestructive examination (NDE)—reference 8.1;

— welding—reference Section 7;

— heat treating—reference 6.1;

— external coating/component plating that may impact product performance, by agreement.