Corrosion-resistant, Bolted Bonnet Gate Valves—Flanged and Butt-welding Ends

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1 Scope

1.1 This standard specifies the requirements for corrosion-resistant bolted bonnet gate valves meeting the requirements of Standard Class, ASME B16.34 and having full port openings for use in process piping applications. This standard sets forth the requirements for the following gate valve features:

- bolted bonnet;
- outside screw and yoke;
- rising stems;
- non-rising handwheels;
- single or double gate;
- wedge or parallel sealing;
- metallic seating surfaces;
- flanged or butt-welding ends.

Corresponding to nominal pipe size DN:

- 15; 20; 25; 32; 40; 50; 65; 80; 100; 150; 200; 250; 300; 350; 400; 450; 500; 600.

It covers valves of the nominal pipe size NPS:

- 1/2; 3/4; 1; 1 1/4; 1 1/2; 2; 2 1/2; 3; 4; 6; 8; 10; 12; 14; 16; 18; 20; 24.

Applies to pressure class designations:

- 150; 300; 600.

1.2 Annex B illustrates a bolted bonnet gate valve for the purpose of establishing standard nomenclature for valve parts.

1.3 The dimensions in metric (SI) units are standard; customary units are shown for reference.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

API Standard 598, *Valve Inspection and Testing*

API Standard 600, *Steel Gate Valves—Flanged and Butt-welding Ends, Bolted Bonnets*