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

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

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.

Covering valves of the nominal pipe sizes (DN):

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

Corresponding to the nominal pipe sizes (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 C illustrates a bolted bonnet gate valve for the purpose of establishing standard nomenclature for valveparts.

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

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