Steel Globe Valves—Flanged and Butt-welding Ends, Bolted Bonnets

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Suggested revisions are invited and should be submitted to the Standards Department, API, 200 Massachusetts Avenue, NW, Suite 1100, Washington, DC 20001, standards@api.org.

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1 Scope

This API standard specifies the requirements for a heavy-duty series of bolted bonnet steel globe valves for petroleum refinery and related applications where corrosion, erosion, and other service conditions would indicate a need for heavy wall sections and large stem diameters.

This standard sets forth the requirements for the following globe valve features:

— bolted bonnet;

— pressure seal bonnet;

— outside screw and yoke;

— rotating rising stems and nonrotating rising stems;

— rising handwheels and nonrising handwheels;

— straight pattern, y-pattern, right-angle;

— stop-check (nonreturn type globe valves in which the disc may be positioned against the seat by action of the stem but is free to rise as a check valve due to flow from under the disc when the stem is in a full or partially open position);

— plug, narrow, conical, ball, or guided disc;

— metallic seating surfaces;

— flanged or butt-welding ends.

It covers valves of the nominal pipe sizes NPS:

— 2, $2^1/_2$, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24;

corresponding to nominal pipe sizes DN:

— 50, 65, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600;

applies for pressure class designations:

— 150, 300, 600, 900, 1500, 2500.

2 Normative References

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any addenda) applies.

API Standard 598, *Valve Inspection and Testing*

API Standard 602, *Gate, Globe, and Check Valves for Sizes DN 100 (NPS 4) and Smaller for the Petroleum and Natural Gas Industries*