

Process Valve Qualification Procedure

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Process Valve Qualification Procedure

1 Scope

This recommended practice (RP) provides recommendations for evaluation of a manufacturer's valve construction and quality management system for the purpose of determining a manufacturer's capability to provide new valves manufactured in accordance with the applicable standards listed in Section 2. Testing per this RP that does not have an established requirement in the applicable standard is for information only.

Qualification of valves under this RP is "manufacturing facility specific" and does not cover valves manufactured by other manufacturing facilities, whether owned by the same manufacturer or a third party.

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, except that new editions may be used on issue and shall become mandatory upon the effective date specified by the publisher or 12 months from the date of the revision (where no effective date is specified).

API RP 578, *Material Verification Program for New and Existing Alloy Piping Systems*

API 594, *Check Valves: Flanged, Lug, Wafer, and Butt-welding*

API 598, *Valve Inspection and Testing*

API 599, *Metal Plug Valves—Flanged, Threaded and Welding Ends*

API 600, *Bolted Bonnet Steel Gate Valves for Petroleum and Natural Gas Industries*

API 602, *Steel Gate, Globe and Check Valves for Size DN 100 and Smaller for the Petroleum and Natural Gas Industries*

API 603, *Corrosion-resistant, Bolted Bonnet Gate Valves—Flanged and Welding End*

API 607, *Fire Test for Quarter-turn valves and Valves Equipped with Nonmetallic Seats*

API 608, *Metal Ball Valves—Flanged, Threaded, and Butt-welding Ends*

API 609, *Butterfly Valves—Double Flanged, Lug- and Wafer-type*

API 623, *Steel Globe Valves-Flanged and Butt-welding Ends, Bolted Bonnets*

API 624, *Type Testing of Rising Stem Valves Equipped with Flexible Graphite Packing for Fugitive Emissions*

API 641, *Type Testing of Quarter Turn Valves for Fugitive Emissions*

ASME B1.1¹, *Unified Inch Screw Threads (UN & UNR Thread Form)*

ASME B16.5, *Pipe Flanges and Flanged Fittings NPS 1/2 through NPS 24 Metric/Inch Standard*

¹ ASME International, 3 Park Avenue, New York, New York 10016-5990, www.asme.org.