## Standards & Regulations List

<table>
<thead>
<tr>
<th>Standard ID</th>
<th>Revision</th>
<th>Standard Title</th>
<th>Description</th>
<th>Type</th>
<th>Jurisdiction</th>
<th>Applicable Regions</th>
<th>Standard Status</th>
<th>Status &amp; Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>API622</td>
<td>3rd Ed. - October 2018</td>
<td>Type Testing of process Valve Packing for Fugitive Emissions</td>
<td>Packing Type Test, VOC Emissions, High Temperature Block Valves</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>Active</td>
<td>Major changes: Fugitive Emission test - Leakage limit 100 PPMV - no adjustment allowed, 1/8&quot; packing test added.</td>
</tr>
<tr>
<td>API624</td>
<td>1st Ed. February, 2014</td>
<td>Type Testing of Packing Metal Valves Equipped with Flexible Graphite Packing for Fugitive Emissions</td>
<td>Valve Type Test, VOC Emissions</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>2nd ed. in revision - ballot phase</td>
<td></td>
</tr>
<tr>
<td>API829</td>
<td>2nd Edition - July 2005 (DISCLOTEC)</td>
<td>Test for Evaluation of Valve Stem Packing (for Steel Gate Valve)</td>
<td>Packing fire test qualification. Packing is installed in a gate valve used as the testing jig (standard has been superseeded)</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>Withdrawn</td>
<td>Obsoleted after Second Edition - July 1998. See as irrelevant as API-607 can be used to evaluate packing fire resistant as well.</td>
</tr>
<tr>
<td>API941</td>
<td>1st Ed. - October 2016</td>
<td>Quarter-turn Valve Type Testing for Fugitive Emissions</td>
<td>Valve Type Test, VOC Emissions</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>Active</td>
<td></td>
</tr>
<tr>
<td>API954</td>
<td>8th ed. July 2017</td>
<td>Check Valves: Flanged, Lug, Wafer and Butt-welding</td>
<td>Covers design, material, face-to-face dimensions, pressure-temperature ratings, and examination, inspection, and test requirements for two types of check valves</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>Active</td>
<td></td>
</tr>
<tr>
<td>API960</td>
<td>13th ed. Jan., 2015</td>
<td>Steel Gate Valves—Flanged and Butt-welding Ends, Bored Bonnets</td>
<td>Valve standard covering design, material, dimensions, ratings, examination and inspection, and test requirements</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>14th Ed - pre-ballot phase</td>
<td></td>
</tr>
<tr>
<td>API962</td>
<td>10th ed. May 2015</td>
<td>Gate, Globe, and Check Valves for Steel DN 100 (NPS 4) and Smaller</td>
<td>Valve standard covering design, material, dimensions, ratings, examination and inspection, and test requirements</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>11th Ed - pre-ballot phase</td>
<td></td>
</tr>
<tr>
<td>API963</td>
<td>9th Ed. October 2016</td>
<td>Corrosion-resistant, Bored Bonnet Gate Valves</td>
<td>Valve standard covering design, material, dimensions, ratings, examination and inspection, and test requirements</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>Active</td>
<td>Revision covering requirements for Low E performance and integrating a qualification test</td>
</tr>
<tr>
<td>API967</td>
<td>4th Ed. October 2018</td>
<td>Reconditioning of Metallic Gate, Globe, and Check Valves</td>
<td>Recommended practice providing guidelines for reconditioning heavy wall carbon steel, ferritic alloy, stainless steel, and nickel alloy gate, globe, and check valves for ASME pressure classes up to 2500. The guidelines apply to flanged and butt weld cast or forged valves.</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>Active</td>
<td></td>
</tr>
<tr>
<td>API968</td>
<td>1st Ed. - September 2013</td>
<td>Steel Globe Valves—Flanged and Butt-welding Ends, Bored Bonnets</td>
<td>Valve standard covering design, material, dimensions, ratings, examination and inspection, and test requirements</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>2nd Ed. in revision / ballot phase</td>
<td>Requirement of API-624.</td>
</tr>
<tr>
<td>API968</td>
<td>5th Ed. November 2012</td>
<td>Metal Ball Valves—Flanged, Threaded and Welding Ends</td>
<td>Valve standard covering design, material, dimensions, ratings, examination and inspection, and test requirements for metallic ball valves</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>8th ed. in revision / ballot phase</td>
<td></td>
</tr>
<tr>
<td>API969</td>
<td>8th Ed. Feb. 2016</td>
<td>Butterfly Valves: Double-flanged, Lug-and-Wafer Type</td>
<td>Valve standard covering design, material, dimensions, ratings, examination and inspection, and test requirements</td>
<td>Industry</td>
<td>World wide</td>
<td>Primarily U.S. and petro-chemical industries</td>
<td>Active</td>
<td></td>
</tr>
<tr>
<td>DIN EN 16752</td>
<td>Nov-15</td>
<td>Specification for a Test Method for Packings for Rotary Applications</td>
<td>Test procedure for pump packing</td>
<td>Industry</td>
<td>Europe and North America</td>
<td>Active</td>
<td>FSA/ESA developed test procedure</td>
<td></td>
</tr>
<tr>
<td>ASME B73.1 and ASME B73.2</td>
<td>B73.1 - 2012, B73.2 - 2016</td>
<td>ASME B73.1 for horizontal and suction pumps and ASME B73.2 for vertical in the centrifugal pumps both for chemical process provide dimensional interchangeability requirements</td>
<td>Industry</td>
<td>U.S.</td>
<td>U.S. and Chemical processing industries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM F2087 - 2007 (revised)</td>
<td>Standard Specification for Packing, Fiberglass, Braided, Rope, and Wick</td>
<td>This specification covers the general requirements and test procedures for braided, rope, and wick fiberglass packing used for boiler, furnace, and other high temperature sealing services up to 1200°F (649°C).</td>
<td>Industry</td>
<td>World wide</td>
<td>Superseded</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM F2087 - 13</td>
<td>Standard Specification for Packing, Fiberglass, Braided, Rope, and Wick</td>
<td>This specification covers the general requirements and test procedures for braided, rope, and wick fiberglass packing used for boiler, furnace, and other high temperature sealing services up to 1200°F (649°C).</td>
<td>Industry</td>
<td>World wide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM F2168-02 (revised)</td>
<td>Standard Specification for Packing Material, Graphite, Corrugated Ribbon or Textured Tape, and Die-formed Ring</td>
<td>This specification covers various type classes, and grades of flexible graphite material in which valve media temperatures are limited to a maximum of 1000°F (538°C).</td>
<td>Industry</td>
<td>World wide</td>
<td>Superseded</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM F2168 - 13</td>
<td>Standard Specification for Packing Material, Graphite, Corrugated Ribbon or Textured Tape, and Die-formed Ring</td>
<td>This specification covers various type classes, and grades of flexible graphite material in which valve media temperatures are limited to a maximum of 1000°F (538°C).</td>
<td>Industry</td>
<td>World wide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note: Standards and regulations are subject to change at any time. FSA will update the list as needed. But please refer to the appropriate standards group to confirm the most current version of the standards you are interested in.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>Year</td>
<td>Description</td>
<td>Scope</td>
<td>Date of Superseeding</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>------</td>
<td>-------------</td>
<td>-------</td>
<td>---------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BS 4371</td>
<td>June 1991</td>
<td>Specification for fibrous gland packings</td>
<td>Industry U.K.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSI/FCI 91-1</td>
<td>2010</td>
<td>Standard for Qualification of Control Valve Stem Seals to Meet EPA-Emission Guidelines for Volatile Organic Compounds</td>
<td>Industry U.S.</td>
<td>Similar in scope and extent to ISA-SP-93, but with variations on allowable stem seal adjustments, mechanical and thermal cycles, and allowable leakage rates classes.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO 15848-1</td>
<td>June 2015</td>
<td>Classification system and qualification procedures for type testing of valves</td>
<td>International</td>
<td>Amended 03-2017: ISO 15848-1/2016/Amd 1:2017</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO 15848-2</td>
<td>June 2015</td>
<td>Production acceptance test of valves</td>
<td>International</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO 3069</td>
<td>November 2000</td>
<td>Dimensions of cavities</td>
<td>Industry Europe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSS SP-120</td>
<td>June 2017</td>
<td>Flexible graphite packing system for rising stem steel valves (design requirements)</td>
<td>Industry U.S.</td>
<td>Supersedes MSS-SP-120-2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BAM</td>
<td>2004</td>
<td>German approval for articles to be used in oxygen applications</td>
<td>National Germany</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC 1935/2004</td>
<td>2004</td>
<td>Food safety — safe packaging</td>
<td>E.U.</td>
<td>An E.U. working group is working on alignment of all individual water approvals in the E.U.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>