Quality Standard for Steel Castings Used in Standard Class Steel Valves

Sampling Method for Evaluating Casting Quality

Standard Practice
Developed and Approved by the Manufacturers Standardization Society of the Valve and Fittings Industry, Inc.
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SP-9-2013 Spot Facing for Bronze, Iron, and Steel Flanges

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SP-42-2013 Corrosion-Resistant Gate, Globe, Angle, and Check Valves with Flanged and Butt Weld Ends (Classes 150, 300 & 600)

SP-43-2013 Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications

SP-44-2010 Steel Pipeline Flanges (incl. 2011 Errata Sheet)

SP-45-2003 (R 2008) Bypass and Drain Connections

SP-51-2012 Class 150LW Corrosion Resistant Flanges and Cast Flanged Fittings

SP-53-2012 Quality Standard for Steel Castings and Forgings for Valves, Flanges, Fittings, and Other Piping Components – Magnetic Particle Examination Method

SP-54-2013 Quality Standard for Steel Castings and Forgings for Valves, Flanges, Fittings, and Other Piping Components – Radiographic Examination Method


SP-60-2012 Connecting Flange Joints between Tapping Sleeves and Tapping Valves

SP-61-2013 Pressure Testing of Valves

SP-65-2012 High Pressure Chemical Industry Flanges and Threaded Stubs for Use with Lens Gaskets

SP-67-2011 Butterfly Valves

SP-68-2011 High Pressure Butterfly Valves with Offset Design

SP-70-2011 Gray Iron Gate Valves, Flanged and Threaded Ends

SP-71-2011 Gray Iron Swing Check Valves, Flanged and Threaded Ends (incl. 2013 Errata Sheet)

SP-72-2010a Ball Valves with Flanged or Butt-Welding Ends for General Service

SP-75-2008 Specification for High-Test, Wrought, Butt-Welding Fittings

SP-78-2011 Gray Iron Plug Valves, Flanged and Threaded Ends

SP-79-2011 Socket-Welding Reducer Inserts

SP-80-2013 Bronze Gate, Globe, Angle, and Check Valves

SP-81-2013 Stainless-Steel or Stainless-Steel-Lined, Bonnetless, Knife Gate Valves with Flanged Ends

SP-83-2006 Class 3000 Steel Pipe Unions Socket Welding and Threaded

SP-85-2011 Gray Iron Globe & Angle Valves, Flanged and Threaded Ends

SP-86-2009 Guidelines for Metric Data in Standards for Valves, Flanges, Fittings, and Actuators (incl. 2011 Errata Sheet)


SP-88-2010 Diaphragm Valves

SP-91-2009 Guidelines for Manual Operation of Valves

SP-92-2012 MSS Valve User Guide

SP-93-2008 Quality Standard for Steel Castings and Forgings for Valves, Flanges, Fittings, and Other Piping Components – Liquid Penetrant Examination Method


SP-95-2006 Swaged Nipples and Bull Plugs

SP-96-2011 Guidelines on Terminology for Valves and Fittings

SP-97-2012 Integrally Reinforced Forged Branch Outlet Fittings – Socket Welding, Threaded, and ButtWelding Ends

SP-98-2012 Protective Coatings for the Interior of Valves, Hydrants, and Fittings

SP-99-2010 Instrument Valves

SP-100-2009 Qualification Requirements for Elastomer Diaphragms for Nuclear Service Diaphragm Valves


SP-102-1989 (R 2001) Multi-Turn Valve Actuator Attachment – Flange and Driving Component Dimensions and Performance Characteristics

SP-104-2012 Wrought Copper Solder-Joint Pressure Fittings

SP-105-2010 Instrument Valves for Code Applications

SP-106-2012 Cast Copper Alloy Flanges and Flanged Fittings: Class 125, 150, and 300

SP-108-2012 Resilient-Seated Cast Iron Eccentric Plug Valves

SP-109-2012 Weld-Fabricated Copper Solder-Joint Pressure Fittings (incl. 2012 Errata Sheet)

SP-110-2012 Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends (incl. 2010 Errata Sheet)

SP-111-2012 Gray-Iron and Ductile-Iron Tapping Sleeves

SP-112-2010 Quality Standard for Evaluation of Cast Surface Finishes – Visual and Tactile Method. This SP must be used with a 10-surface, three dimensional Cast Surface Comparator, which is a necessary part of the standard. Additional Comparators available separately.

SP-113-2012 Connecting Joints between Tapping Machines and Valves

SP-114-2007 Corrosion Resistant Pipe Fittings Threaded and Socket Welding Class 150 and 1000 (ANSI-approved American National Standard)

SP-115-2010 Excess Flow Valves, 1/2 NPS and Smaller, for Fuel Gas Service

SP-116-2011 Service-Line Valves and Fittings for Drinking Water Systems

SP-117-2011 Bellows Seals for Globe and Gate Valves

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SP-120-2011 Flexible Graphite Packing System for Rising Stem Valves – Design Requirements

SP-121-2006 Qualification Testing Methods for Stem Packing for Rising Stem Steel Valves

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SP-134-2012 Valves for Cryogenic Service, including Requirements for Body/Bonnet Extensions

SP-135-2010 High Pressure Knife Gate Valves

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SP-137-2013 Quality Standard for Positive Material Identification of Metal Valves, Flanges, Fittings, and Other Piping Components

SP-138-2009 Quality Standard Practice for Oxygen Cleaning of Valves & Fittings

SP-139-2010 Copper Alloy Gate, Globe, Angle, and Check Valves for Low Pressure/Low Temperature Plumbing Applications

SP-140-2012 Quality Standard Practice for Preparation of Valves and Fittings for Silicone-Free Service

SP-141-2012 Multi-Turn and Check Valve Modifications

SP-142-2012 Excess Flow Valves for Fuel Gas Service, NPS 1/4 through 12

SP-143-2012 Live-Loaded Valve Stem Packing Systems

SP-144-2013 Pressure Seal Bonnet Valves

SP-145-2013 Metal Ball Valves for Low Pressure/Low Temperature Plumbing Applications

SP-146-2014 High Pressure, Lug- and Wafer-Type, Iron and Ductile Iron Knife Gate Valve


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