

# **Manufacturers Standardization Society**

**1924 – 2010**



*Leadership And Service Through Standardization*

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**This publication is a historical compendium of MSS and pre-MSS activities from the early 20<sup>th</sup> century to April 16, 2010.**

#### **About MSS**

The Manufacturers Standardization Society (MSS) of the Valve and Fittings Industry is a non-profit technical association organized for development and improvement of industry, national and international codes and standards for Valves, Valve Actuators, Pipe Fittings, Valve Modification, Flanges, Pipe Hangers, and Associated Seals. Since its establishment in 1924, MSS has been dedicated to developing standards for global application in the Valve and Fittings Industry in cooperation with other standardizing bodies and regulatory authorities. MSS is an American National Standards Institute (ANSI)-accredited standards developer.

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Standard Number [Latest Version]	Standard Title	Technical Committee	Historical Editions	Original Publication and Adoption Date(s)	Year of Last Action	Last Action Taken	Comments
No Doc#-1912	Manufacturers 1912 Schedules of Flanged Fittings and Flanges	Unknown	N/A	(Oct.)1912; adopted (July)1912	Unknown	Unknown	Created by the Committee of Manufacturers on Standardization Pipe Fittings and Valves (CMSPFV), the original name of MSS. 100,000 copies were printed of the 16 page 6-3/4x10-1/2 inch circular. Some of the larger companies had their names imprinted on the cover.
No Doc#-1912-18	Design of a line of flanged fittings [Actual title is lost to time and may relate to 1912 Schedules noted above]	N/A	N/A	1912	1912-1914	Became part of American Standards	Created by the CMSPFV. This Committee collaborated (1912-1914) w/ ASME, the National Association of Master Steam and Hot Water Fitters, and the US Government to create a Joint Committee (predecessor of B16). It appears the flanged fittings document and maybe others became part of a "compromise standard" published in 1914 as "American Standard for Pipe Flanges, Fittings and their Bolting". In 1918, this group started on standards for 50 Lb steam flanges and for 800 Lb, 1200 Lb, and 3000 Lb hydraulic flanges, which were subsequently approved/published by this group. May relate to Standard Schedules for Pressure Classes noted below and 1912 Schedules mentioned above.
No Doc#-1914	American Standard Flange Dimensions for Brass Flanges	Sub-Committee on Brass Flange Standards	N/A	(Jan.)1914; adopted (Sept.)1913	Unknown	Unknown	This standard came to be known as the "1914 Brass Standards". A copy of this standard exists and it was called an American Standard before AESC/ASA/ANSI or Committee B16 was organized. This standard was later adopted as the basis for MSS SP-2 and eventually incorporated into the B16.24 American Standard.
No Doc#-bef. 1914	Standard for Cast Steel Flanges; Standard for Flanged Steel Cast Steel Fittings; and Rolled Steel or Welded Steel for High Pressure Steam	Unknown	N/A	Bef. 1914	Unknown	Unknown	Publication info on these standards is unknown. The Subcommittee on Hydraulic Flange Standards began investigating the 3 standards in 1914 and became the basis later for dimensional correspondence of class 150 and 300 steel flanges with class 125 and 250 cast iron flanges.
No Doc#-circa 1915	Standard Schedules for Pressure Classes; namely (1) 800 Lb. Hydrostatic Made from Semi-Steel and Cast Steel, (2) 1200 Lb. Hydrostatic Made from Semi-Steel and Cast Steel, and (3) 3000 Lb. Hydrostatic Made from Cast Steel Only [Note the exact names of these 3 standards are unknown]	Manufacturers Committee	Unknown	circa 1915	Unknown	Unknown	It is suggested that these were the first standards published on steel flanges, even before the ASA was organized. These standards were later approved as American Standards and published by ASME.
No Doc#-1912	Design of a line of flanged fittings (actual title is lost to time)			1912	1912-1914	Became part of American Standards	Created by the Committee of Manufacturers on Standardization Pipe Fittings and Valves, the original name of MSS. This Committee collaborated (1912-1914) w/ ASME, the National Association of Master Steam and Hot Water Fitters, and the US Government to create a Joint Committee (predecessor of B16). It appears the flanged fittings document and maybe others became part of a "compromise standard" published in 1914 as "American Standard for Pipe Flanges, Fittings and their Bolting". In 1918, this group started on standards for 50 Lb steam flanges and for 800 Lb, 1200 Lb, and 3000 Lb hydraulic flanges, which were subsequently approved/published by this group.
SP-1-1929	Pipe Plugs	108	N/A	(October)1929; adopted (March)1928	1936	Withdrawn	Promulgated originally into ASA B16e2-1936 and eventually into ASA-approved B16.14 American Standard (Published through ASME as the Sectional Committee Secretariat).
SP-2-1946 (R1949)	150 and 300 Lb. Bronze Flanges & Flanged Fittings [Originally included two standards: MSS 150 Lb. SP Bronze Flange Standard (No. SP-2a-1930) and MSS 250 Lb. SP Bronze Flange Standard (No. SP-2b-1930)] [1937 title: MSS 150, 250 and 300Lb. SP Bronze Flange and Flanged Fitting Standard] [1943 title: MSS 150 and 300 LB SP Bronze Flange and Flanged Fitting Standard]	201	1928, 1930, 1936, 1937, 1943, 1946, R1949	(March)1928	1953	Withdrawn	Promulgated into ASA-approved B16.24 American Standard (Published through ASME as the Sectional Committee Secretariat).
SP-3-1944 (R1949)	Roughing-in Dimensions for Low Pressure Radiator Valves, Union Elbows and Return-Line Vacuum Valves [1926 title: Roughing-in Dimensions for Light Radiator Valves and Union Elbows]	Unknown	1926, 1929, 1944, R1949	(Jan)1926; adopted (June)1925	1963	Withdrawn	Withdrawn for Lack of Use. This SP had also been adopted by the Heating, Piping and Air Conditioning Contractors National Association.
SP-4-1929	"MSS Steel Base-Fittings Standard" for 250, 400, 600 & 900 Lb. WSP	Unknown	1928, 1929	(Jan.)1928; adopted (Nov.)1927	1932	Withdrawn	Promulgated into ASA-approved B16.5 American Standard (Published through ASME as the Sectional Committee Secretariat). Note that a 1950 List (i.e., back cover of SP) indicates the American Standard as B16e and a 1959 list indicates B16.5-1957. Note that this SP became part of ASA-approved American Standard B16e-1939, which was also basis for B16e5-1943 American War Standard.
SP-5-1944	By-Pass Size Standard [1925 title: "MSS By-Pass & Drain Standard" for Steel Gate Valves for 250, 400, 600 & 900 Lb. WSP]	106	1925, 1937, 1944(Reprinted)	(Jan)1925; adopted (July)1924	1953	Withdrawn	Incorporated into MSS SP-45-1953.

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SP-6-2007	Standard Finishes for Contact Faces of Pipe Flanges and Connecting-End Flanges of Valves and Fittings [Original 1929-39 title: <i>Finishes for Contact Faces of Connecting-End Flanges of Ferrous Valves and Fittings</i> ]	102, 110, 201	1929, 1939, 1947, R1950, 1951, 1955, 1961, 1963, 1974, 1980, 1985, 1990, 1996, 2001	(Jan.)1930; adopted (Dec.)1929	2007	Revised	U.S. Department of Defense (DoD) Adopted 1/29/1990 (DoD Activity Symbol: YD - Navy).
SP-7	NEVER ISSUED						
SP-8-1929	Cast Iron Screwed Drainage Fittings - General Details and Center to End Dimensions [Also a 1929 Supplement]	Unknown	N/A	(May)1929; adopted (April)1929; (June)1929 Supplement	1942	Withdrawn	Promulgated into ASA-approved B16.12 American Standard (Published through ASME as the Sectional Committee Secretariat).
SP-9-2008	Spot Facing for Bronze, Iron and Steel Flanges [1929-42 title: <i>MSS Spot-Facing Standard</i> ]	102, 110, 201	1929, 1942, 1947, R1950, 1955, 1964, 1970, 1977, 1984, 1987, 1992, 1997, 2001, R2005	(Aug.)1929; adopted (July)1929	2008	Revised	The 2008 edition covers requirements for metric bolting.
SP-10-1944	MSS 125 Lb. SP Bronze Screw Pipe Fittings Standard	204 (see legend)	1930, 1932 (amended), 1941, 1943, 1944	(Sept.)1930; adopted (Sept.)1930	1949	Withdrawn	Promulgated into ASA-approved B16.15 American Standard (Published through ASME as the Sectional Committee Secretariat).
SP-11-1944	MSS 250 LB SP Bronze Screw Pipe Fittings Standard [1930 title: <i>250 LB SP Bronze Screw Fittings - General Details and Center to End Dimensions</i> ]	204 (see legend)	1930, 1944	(Sept.)1930 (effective date and adopted)	1949	Withdrawn	Promulgated originally into ASA-approved B16.17 and later into ASA-approved B16.15 American Standard (Published through ASME as the Sectional Committee Secretariat). Note that a 1950 and 1959 List indicates the American Standard as B16.17. The 1974 MSS Anniversary Issue indicated "Now in B16.15".
SP-12	NEVER ISSUED						
SP-13	NEVER ISSUED						
SP-14-1930	MSS 25 LB. W.S.P. Cast Iron Flange Standard	Unknown	N/A	(Jan.)1930; adopted (Dec.)1929	1931	Withdrawn	Promulgated into ASA-approved B16.1 American Standard (Published through ASME as the Sectional Committee Secretariat). Note that a 1950 and 1959 List indicates the American Standard as B16b2 and a notation on archival copy indicates ASA B16b2-1931. The 1974 MSS Anniversary Issue indicated "Now in B16.1".
SP-15-1930	MSS 25 LB. W.S.P. Cast Iron Flanged Fitting Standard	Unknown	N/A	(Jan.)1930; adopted (Dec.)1929	1931	Withdrawn	Promulgated into ASA-approved B16.1 American Standard (Published through ASME as the Sectional Committee Secretariat). Note that a 1950 and 1959 List indicates the American Standard as B16b2 and a notation on archival copy indicates ASA B16b2-1931. The 1974 MSS Anniversary Issue indicated "Now in B16.1".
SP-16-1937	MSS Pipe Bushings Standard - Cast Iron and Malleable Iron [1929 title: <i>"M.S.S. Pipe Bushings Standard" Cast Iron - Malleable Iron - Bronze</i> ]	108	1929, 1937, 1939(Amendment 1), 1940(Amendment 2)	Adopted (Dec.)1929; two Amendments approved 1939/1940	1949	Withdrawn	Promulgated into ASA-approved B16.14 American Standard (Published through ASME as the Sectional Committee Secretariat).
SP-17-1937	MSS Locknut Standard - Cast Iron and Malleable Iron	108	N/A	(Jan.)1938; adopted (July)1937 [Note SP used 1937 date]	1949	Withdrawn	Promulgated into ASA-approved B16.14-1949 American Standard (Published through ASME as the Sectional Committee Secretariat). Withdrawn in deference to ASA B16.14 standard.
SP-18	NEVER ISSUED						
SP-19	NEVER ISSUED						
SP-20-1946	Steam-Bronze Castings for Valves, Flanges and Pipe Fittings [Original March 1931 title: <i>Steam-Bronze Castings for Flanges, Pipe Fittings and Pressure-Containing Parts of Valves</i> ; May 1931 title: <i>Steam Bronze Castings for Flanges, Pipe Fittings and Pressure-Containing Parts of Valves</i> ]	Unknown	(March)1931, (May)1931, 1936, 1943, 1946	(March)1931 (effective and adopted)	1956	Withdrawn	Incorporated into ASTM B61 & B62 by 1946. Withdrawn in deference to ASTM standards. Note that both ASTM standards also reference SP-25.

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SP-21-1930	ASTM Specifications (A126-30) for Gray Iron Castings for Valves, Flanges and Pipe Fittings	Unknown	N/A	(July)1930; adopted (Feb.)1930	1943	Withdrawn	Originally developed by ASTM and adopted as an SP by MSS. Incorporated into ASTM A126-1942. Withdrawn in deference to ASTM standard.
SP-22-1937	Malleable Iron Castings for Flanges, Pipe fittings and Valve Parts	Unknown	1931, 1937	(July)1931 (effective and adopted)	1942	Withdrawn	Incorporated into ASTM A197-1939. Withdrawn in deference to ASTM standard.
SP-23-1943	Hardware Bronze	Unknown	1943	(April)1943	1943	Never Published	Approved in 4/1943, but never printed as superseding ASTM B140 became available at this time. This SP deferred to ASTM standard.
SP-24	NEVER ISSUED	Unknown					
SP-25-2008	Standard Marking System for Valves, Fittings, Flanges, and Unions [1934 title: <i>Product Marking System</i> ]	302	1934, 1936, 1954, 1958, 1960, 1964, 1978, R1983, R1988, 1993, 1998	(July)1935; adopted (July)1934 [Note original SP used 1934 date]	2008	Revised	Referenced in ASTM B61 & B62. Also widely referenced in ASME B16 and International standards. DoD Adopted 5/16/1988 (DoD Activity Symbol: YD - Navy). Confirmed in 2009 DoD Engineering database.
SP-26	NEVER ISSUED						
SP-27	NEVER ISSUED						
SP-28-1945	Drain Tapping Standard - Method of Designating Location of Tapped Holes in Valves and Fittings [1937 title: <i>Drain Tapping Standard</i> ]	106	1937, 1945	(July)1937; adopted (Feb.)1937	1952	Withdrawn	Incorporated into MSS SP-45-1953.
SP-29-1943	Straight Screw Threads for High Temperature Testing [Original title: <i>MSS Screw Thread Standard for High Temperature &amp; Temperature Bolting</i> ] [1943 title: <i>MSS Screw Thread Standard for Straight Screw Threads for High Temperature Bolting</i> ]	Unknown	1932, 1939, 1943	(Jan.)1932 (effective and adapted)	1945	Withdrawn	Promulgated into ASA-approved B1.4 American Standard (Published through ASME as the Sectional Committee Secretariat). Note that a 1950 and 1954 List, and a notation in a historical 1943 version, indicate the American Standard as ASA B1.4-1945. A 1959 List indicates the American Standard as B1.1-1949, Unified and American Screw Threads. The 1974 MSS Anniversary Issue indicated "Now in B1.4".
SP-30	NEVER ISSUED						
SP-31-1950	300 LB SP Malleable Iron Screw Fittings	Unknown	1932, 1934, 1944, 1950	(Oct.)1932	1951	Withdrawn	Promulgated into ASA-approved B16.3 American Standard (Published through ASME as the Sectional Committee Secretariat). Note that a 1959 List and a notation in a 1950 historical version indicate the American Standard as B16.19-1951. The 1974 MSS Anniversary Issue indicated "Now in B16.3".
SP-32-1937	MSS Ferrous Flanged Valve Center-to-Face Standard	Unknown	1931, 1937(effective 1938); Amendment 1 adopted (Oct.)1938	(July)1932; adopted (Oct.)1931	1942	Withdrawn	Promulgated into ASA-approved B16.10-1939 American Standard (Published through ASME as the Sectional Committee Secretariat).
SP-33	NEVER ISSUED						
SP-34T-1932	Service Ratings & Test Standard-Valves and Fittings	Unknown	N/A	(July)1932 (effective and adapted)	1943	Withdrawn	Issued as a temporary standard and carried prefix "T" (i.e., SP-34T-1932).
SP-35-1936	Railing Fittings - Male and Female Threads	Unknown	N/A	(Jan.)1937; adopted (June)1936 [Note SP used 1937 date]	1945	Withdrawn	Promulgated into ASA-approved B2.1-1942 American Standard (Published through ASME as the Sectional Committee Secretariat).
SP-36	NEVER ISSUED						
SP-37-1959	125 LB Bronze Gate Valves [1943 title: <i>MSS 125 LB SP Bronze Gate Valves</i> ]	Unknown	1943, 1949, R1953, 1959	(Feb.)1944; adopted (Feb.)1943	1974; 1959 (last Rev.)	Withdrawn after 1974	Last Revision (1959); Withdrawn after 1974. Incorporated into MSS SP-80 (1974).
SP-38-1955	100 LB Bronze Gate Valves	Unknown	1943, R1949, 1955	(July)1943	1960	Withdrawn December 1960	Withdrawn due to lack of Use.

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SP-39-1949	Carbon Steel Machine Bolts and Nuts for Flanged Products [1945 title: <i>MSS Specification for Carbon Steel Machine Bolts and Nuts for Flanged Products</i> ]	Unknown	1945, 1949	(June)1945	1955	Withdrawn	Incorporated into ASTM A307 Grade B (1949). Withdrawn in deference to ASTM standard.
SP-40-1946	MSS Specifications for Leaded Brass and Leaded Semi-Red Brass Castings for Valves & Pipe Fittings	Unknown	N/A	(Aug.)1946	1961	Withdrawn	Incorporated into ASTM B145 (1961). Withdrawn in deference to ASTM standard. Note that B145 was withdrawn in 1972 and replaced by B584.
SP-41-1953	Stainless Steel Castings for Valves, Flanges and Pipe Fittings [1949 title: <i>MSS Specifications for Stainless Steel Castings for Valves, Flanges and Pipe Fittings</i> ]	Unknown	1949, 1951, 1953	(March)1949	1954	Withdrawn	Incorporated into ASTM A351. Withdrawn in deference to ASTM standard. Note that the original 1949 edition was based on ASTM A296-46T; the 1951 edition conforms to ASTM A296-49T; 1953 edition conforms to ASTM A351-52T.
SP-42-2009	Corrosion Resistant Gate, Globe, Angle and Check Valves with Flanged and Butt Weld Ends (Classes 150, 300 & 600) [1949-55 title: <i>150 LB Corrosion Resistant Cast Flanged Valves, Flanges, and Flanged Fittings</i> ; 1957-59 title change: <i>150 LB Corrosion Resistant Cast Flanged Valves</i> ; 1978 title change: <i>Class 150 Corrosion Resistant Gate, Globe, Angle and Check Valves with Flanged and Butt Weld Ends</i> ; 2009 title change: <i>current title</i> .	114	1949, 1951, 1952, 1953, 1955, 1957, 1959, 1978(w/Errata), 1985, 1990, R1995, 1999, 2004	(Oct.)1949	2009	Revised	This SP previously included content of SP-51. Also note that this SP had early coverage for Class 150 valves only. The 2009 edition covers Classes 150, 300, and 600.
SP-43-2008	Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications [1950-52 title: <i>Stainless Steel Butt-Welding Fittings</i> ; 1950-57 title: <i>Stainless Steel Butt-Welding Fittings - Including Reference to other Corrosion Resistant Materials</i> ; 1959-R2001 title: <i>Wrought Stainless Steel Butt-Welding Fittings - Including Reference to other Corrosion Resistant Materials</i> ]	113	1950, 1952, 1955/1956, 1957, 1959, 1971, 1976, 1982, R1986, 1991, R1996, R2001	(Oct.)1950	2008 (2010 Errata)	Revised (Errata Sheet published 2/2010)	DoD Adopted or referenced; Confirmed in 2009 DoD Engineering database.
SP-44-2010	Steel Pipeline Flanges [1952-91 title: <i>Steel Pipe Line Flanges</i> ]	110	1952, 1953, 1955, 1970, 1972, 1975, 1981, 1982, 1985, 1990, 1991, 1996(additional Errata released in 1996), R2001, 2006	(July)1952	2009	Revised	The 2010 Revision was approved in October 2009 and published 3/3/2010 (copyrighted 2010). SP-44 dimensions were adopted by ASME B16.47 for Series A flange dimensions. Referenced in ANSI/API 6D and ISO 14313:2007. DoD Adopted or referenced; Confirmed in 2009 DoD Engineering database.
SP-45-2003 (R2008)	Bypass and Drain Connections [1953-76 title: <i>Bypass and Drain Connection Standard</i> ; 1982-R87 title: <i>By-Pass and Drain Connection Standard</i> ]	106	1953, 1971 (additional Errata released in 1971), 1976, 1982, R1987, 1992, 1998, 2003	(July)1953	2008	Reaffirmed	Formerly SP-5 and SP-28. DoD Adopted 4/26/1989 (DoD Activity Symbol: YD - Navy). Confirmed in 2009 DoD Engineering database.
SP-46-1955	Assembly of Steel Raised Face Flanges to Cast Iron, Brass, Bronze or Stainless Steel Flanges	110	N/A	(March)1955	1970	Withdrawn	Promulgated into ANSI-approved B16.5 American National Standard (Published through ASME as the Sectional Committee Secretariat).
SP-47-1956	Limiting Dimensions of Raised Face Gaskets which meet Requirements of ASA B16.5 for Class A Ratings	110	1955, 1956	(Sept.)1955	1966	Withdrawn	Promulgated into USASI-approved B16.5 USA Standard (Published through ASME as the Sectional Committee Secretariat).
SP-48-1969	Steel Butt-Welding Fittings (26" and Larger)	113	1956, 1969	(April)1956	1969	Withdrawn	Promulgated into (ASA)ANSI-approved B16.9 American [National] Standard (Published through ASME as the Sectional Committee Secretariat).
SP-49-1956	Forged Steel Screwed Fittings - 2000-3000 and 6000 Pound	105	N/A	(April)1956	1967	Withdrawn	Promulgated into USASI-approved B16.11 USA Standard (Published through ASME as the Sectional Committee Secretariat).
SP-50-1956	Forged Steel Plugs and Bushings	105	N/A	(Sept.)1956	1967	Withdrawn	Promulgated into USASI-approved B16.11 USA Standard (Published through ASME as the Sectional Committee Secretariat).
SP-51-2007	Class 150LW Corrosion Resistant Flanges and Cast Flanged Fittings [1949-R1965 title: <i>150 LB Corrosion Resistant Cast Flanges and Flanged Fittings</i> ]	110	1949, 1957, R1965, 1978, 1982, 1986, 1991, R1995, 2000, 2003	(Oct.)1949	2007	Revised	This SP was originally part of SP-42.
SP-52-1957	Cast Iron Pipeline Valves	106	N/A	(Oct.)1957	1972	Withdrawn	Incorporated into MSS SP-70 & 78.

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SP-53-1999 (R2007)	Quality Standard for Steel Castings and Forgings for Valves, Flanges, and Fittings and Other Piping Components - Magnetic Particle Examination Method [1958-71 title: <i>Quality Standard for Steel Castings for Valves, Flanges and Fittings and other Piping Components - Dry Powder Magnetic Particle Inspection Method</i> ]	304	1958, 1971, 1980, 1985, R1990, 1995, 1999, R2002	(Jan.)1957	2007	Reaffirmed	DoD Adopted or referenced; Confirmed in 2009 DoD Engineering database.
SP-54-1999 (R2007)	Quality Standard for Steel Castings and Forgings for Valves, Flanges, and Fittings and Other Piping Components - Radiographic Examination Method [1959-71 title: <i>Quality Standard for Steel Castings for Valves, Flanges and Fittings and other Piping Components - Radiographic Inspection Method</i> ]	304	1959, 1960, 1971, 1978, 1980, 1985, R1990, 1995, 1999, R2002	(Feb.)1959	2007	Reaffirmed	DoD Adopted or referenced; Confirmed in 2009 DoD Engineering database.
SP-55-2006	Quality Standard for Steel Castings for Valves, Flanges, Fittings, and Other Piping Components - Visual Method for Evaluation of Surface Irregularities [Hard-Copy ONLY] [1961-85(R1990) title: <i>Quality Standard for Steel Castings for Valves, Flanges and Fittings and other Piping Components - Visual Method</i> ]	304	1961, 1971, R1975, R1980, 1985, R1990, 1996, 2001	(April)1961	2006	Revised	Referenced in ASTM A351, ANSI/API 6D, and ISO 14313:2007. Also referenced by other ASME and API standards. DoD Adopted 6/2/1987[1998] (DoD Activity Symbol: MR - Army). Confirmed in 2009 DoD Engineering database.
SP-56	NEVER ISSUED						
SP-57	NEVER ISSUED						
SP-58-2009	Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation [1959-63 title: <i>Pipe Hangers and Supports</i> ; 1967 title: <i>Pipe Hangers and Supports - Materials and Design</i> ; 1975-2002 title: <i>Pipe Hangers and Supports - Materials, Design, and Manufacture</i> ]	403	1959, 1963, 1967, 1975, 1975(ANSI-apr'd ANS edition), 1983(ANSI-apr'd ANS edition), 1988, 1993, 2002	(Sept.)1959	2009	Revised (incl. title change and incorp. Of other material)	1975 and 1983 editions were an ANS (approved by ANSI April 1978(March 1979)/(March)1983). New SP-58-2009 includes a title change and incorporates the content of existing SP-69, 77, 89, 90 (these SPs remain active/available until withdrawn). DoD Adopted 8/8/1991 (DoD Activity Symbol: YD - Navy); Used instead of WW-H-171 in part. Confirmed in 2009 DoD Engineering database.
SP-59-1959	Steel Butt-Welding Short Radius Elbows and Returns	113	N/A	(Nov.)1959	1965	Withdrawn	Promulgated into ASA-approved B16.28 American Standard (Published through ASME as the Sectional Committee Secretariat).
SP-60-2004	Connecting Flange Joint Between Tapping Sleeves and Tapping Valves	112	1960, 1969, 1976, R1981, 1982, R1986, 1991, 1999	(June)1960	2004	Revised	
SP-61-2009	Pressure Testing of Valves [1961 title: <i>Hydrostatic Testing of Steel Valves</i> ; 1977-2003 title: <i>Pressure Testing of Steel Valves</i> ]	114 (C-304, up to circa 2000)	1961, 1977, 1985, 1992, 1999, 2003	(Feb.)1961	2009	Revised	Incorporated content of withdrawn SP-82. DoD Adopted 6/22/1989 (DoD Activity Symbol: YD - Navy). Confirmed in 2009 DoD Engineering database.
SP-62-1961	Wrought Steel Venturi Reducers	113	N/A	(Aug.)1961	1973	Withdrawn	Withdrawn due to "Lack of Use".
SP-63-1969	High Strength Wrought Welding Fittings	113	1961, 1967, 1969	(Aug.)1961	1973	Withdrawn	Incorporated into MSS SP-75.
SP-64-1961	Wrought Copper and Bronze Solder-Joint Drainage Fittings	204 (see legend)	N/A	(Oct.)1961	1967	Withdrawn	Promulgated into USASI-approved B16.29 USA Standard (Published through ASME as the Sectional Committee Secretariat).
SP-65-2008	High Pressure Chemical Industry Flanges and Threaded Stubs for Use with Lens Gaskets	110	1962, R1968, 1977, 1981, 1983, 1988, 1990, 1994, 1999, 2004	(Sept.)1962	2008	Revised	
SP-66-1964	Pressure-Temperature Ratings for Steel Butt-Welding End Valves	114	N/A	(Jan)1964	1974	Withdrawn	Promulgated into ANSI-approved B16.34-1973 American National Standard (Published through ASME as the Sectional Committee Secretariat). Note that B16.34 was originally published in 1939 as ASA B16e. Indicated in 1974 that this SP was "Officially withdrawn, but copies available to satisfy industry needs".
SP-66-1965 Supplemental	A Discussion of Design and Ratings of Steel Butt-Welding End Valves	Unknown		(March)1965			

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SP-67-2002a	Butterfly Valves	407	1964, 1966, 1970, 1976, 1976(incl. supplement), 1983, 1990, 1995, 2002	(May)1964	2002 ("a" edition)	Revised	DoD Adopted 6/29/1990 (DoD Activity Symbol: YD - Navy). Confirmed in 2009 DoD Engineering database.
SP-68-1965 (Original)	Cast Bronze Solder Joint No-Hub Adapter for Copper to Soil Pipe Connections	Unknown	N/A	(Oct.)1965	1969	Withdrawn	Promulgated into (ASA)ANSI-approved B16.23 American [National] Standard (Published through ASME as the Sectional Committee Secretariat).
SP-68-1997 (R2004)	High Pressure Butterfly Valves with Offset Design [1984-88 title: <i>High Pressure-Offset Seat Butterfly Valves</i> ]	407	1984, 1988, 1997	1984	2004	Reaffirmed	Used same number as a previous withdrawn SP-68-1965.
ANSI/MSS SP-69-2003	Pipe Hangers and Supports – Selection and Application	403	1966, 1976, 1983, 1991, 1996, 2002, 2003(MSS edition)	MSS-(July)1966; ANS-2003	2003 / 2004	Revised MSS(2003) Approved ANS(2004)	Content incorporated into Revised SP-58-2009. Still active/avail. as an ANS until withdrawn (after SP-58-2009 becomes ANS). DoD Adopted 10/16/1991 (DoD Activity Symbol: YD - Navy); Used instead of WW-H-171 in part. Confirmed in 2009 DoD Engineering database.
SP-70-2006	Gray Iron Gate Valves Flanged and Threaded Ends [1970-98 title: <i>Cast Iron Gate Valves, Flanged and Threaded Ends</i> ]	106	1970, 1976, 1984, 1990, 1998	(Feb.)1970	2006	Revised	DoD Adopted 8/23/1991 (DoD Activity Symbol: YD - Navy); Used instead of WW-V-58 (MIL Spec cancelled 11/7/1984). Confirmed in 2009 DoD Engineering database.
SP-71-2005	Gray Iron Swing Check Valves, Flanged and Threaded Ends [1970-90 title: <i>Cast Iron Swing Check Valves, Flanged and Threaded Ends</i> ]	106	1970, 1976, 1984, 1990, 1997	(Feb.)1970	2005	Revised	DoD Adopted 8/23/1991 (DoD Activity Symbol: YD - Navy). Confirmed in 2009 DoD Engineering database.
SP-72-2010	Ball Valves with Flanged or Butt-Welding Ends for General Service	401	1970, 1987, 1992, 1999	(Feb.)1970	2010	Revised	DoD Adopted 10/9/1987 (DoD Activity Symbol: YD - Navy). Confirmed in 2009 DoD Engineering database.
SP-73-2003	Brazing Joints for Copper and Copper Alloy Pressure Fittings [1970-78 title: <i>Silver Brazing Joints for Wrought and Cast Solder Joint Fittings</i> ; 1982 title: <i>Silver Brazing Joints for Wrought Copper and Copper Alloy and Cast Copper Alloy Solder Joint Pressure fittings</i> ; 1986 title: <i>Brazing Joints for Wrought and Cast Copper Alloy Solder Joint Pressure fittings</i> ; 1991-2003 title: <i>Brazing Joints for Copper and Copper Alloy Pressure Fittings</i> ]	201	1970, 1978, 1982, 1986, 1991, R1996, 2003	(Feb.)1970	2006	Withdrawn 12/31/2006	Incorporated into/Replaced by ASME B16.50 (an ANSI-approved ANS).
SP-74-1970	Cast Bronze Solder Joint Fittings for Solvent Drainage Systems	205 (see legend)	N/A	(Sept.)1970	1973	Withdrawn	Incorporated into ASME B16.32 (an ANSI-approved ANS).
SP-75-2008	Specification for High-Test, Wrought, Butt-Welding Fittings [1970-76 title: <i>Specification for High Test Wrought Welding Fittings</i> ; 1981-98 title: <i>Specification for High Test Wrought Butt Welding Fittings</i> ]	113	1970, 1970 (w/ 1971 revision), 1973, 1976, 1978 Addenda(to 1976 version), 1981, 1983, 1988, 1993, 1998, 2004	(Sept.)1970	2008	Revised	
SP-76-1970	Malleable Iron Threaded Pipe Unions, 150, 250, and 300 LBS.	108	N/A	(Sept.)1970	After 1974	Withdrawn	Incorporated into ASME B16.39 (an ANSI-approved ANS).
SP-77-1995 (R2000)	Guidelines for Pipe Support Contractual Relationships - <i>Relationships and Responsibilities of the Pipe Hanger Contractor with the Purchaser's Engineer or the Pipe Fabricator and/or Erector</i> [1971-R78 title: <i>Guide Lines for Pipe Support Contractual Relationships - Relationships and Responsibilities Between Pipe Hanger Contractor and Purchaser's Engineer or Pipe Fabricator and/or Erector</i> ]	403	1971, R1978, 1984, R1990, 1995	(Sept.)1971	2000	Reaffirmed	To be withdrawn. Content incorporated into Revised SP-58-2009. Still active/available until withdrawn.
SP-78-2005a	Gray Iron Plug Valves, Flanged and Threaded Ends [1972 title: <i>Cast Iron Plug Valves</i> ; 1971-98 title: <i>Cast Iron Plug Valves, Flanged and Threaded Ends</i> ]	106	1972, 1977, 1987, R1992, 1998, 2005	(Sept.)1972	2005("a" edition)	Revised	DoD Adopted 6/9/1987 (DoD Activity Symbol: YD - Navy); Used instead of MIL-V-12003 in part, Navy only. Confirmed in 2009 DoD Engineering database.
SP-79-2009	Socket Welding Reducer Inserts	105	1974, 1980, 1989, 1992, 1999, 1999a, 2004	(March)1974	2009	Revised	

Standard Number [Latest Version]	Standard Title	Technical Committee	Historical Editions	Original Publication and Adoption Date(s)	Year of Last Action	Last Action Taken	Comments
SP-80-2008	Bronze Gate, Globe, Angle, and Check Valves	203	1974, 1979, 1987, 1997, 2003	(Nov.)1974	2008	Revised	DoD Adopted 10/2/1987 (DoD Activity Symbol: YD - Navy); Used instead of (1) MIL-V-1187 (MIL Spec cancelled 3/9/1983); (2) MIL-V-1202 (MIL Spec cancelled 3/8/1982); (3) WW-V-51 (MIL Spec cancelled 4/5/1983); and (4) MIL-V-54 (MIL Spec cancelled 4/5/1983). Confirmed in 2009 DoD Engineering database.
SP-81-2006a	Stainless Steel, Bonnetless, Flanged Knife Gate Valves [1975 title: <i>Stainless Steel, Bonnetless, Flanged, Wafer, Knife Gate Valves</i> ]	114	1975, 1981, R1986, R1991, 1995, 2000, 2001, 2006	(Aug.)1975	2006("a" edition)	Revised	DoD Adopted 11/17/1988 (DoD Activity Symbol: YD - Navy).
SP-82-1992	Valve Pressure Testing Methods	304	1976, R1981, R1986, 1992	1976	2000/2004	Withdrawn 12/31/2004	SP-82 was replaced by SP-61. A notice in 1992 edition indicates scheduled to be withdrawn 12/31/2000. MSS CC minutes (9/22/2000) indicated SP-82 to be withdrawn at end of year. Other notes indicate 12/31/2004. SP publication back pages list SP-82 up to 2004/2005.
SP-83-2006	Class 3000 Steel Pipe Unions Socket Welding and Threaded [1976 title: <i>Carbon Steel Pipe Unions, Socket-Welding and Threaded</i> ; 1987 title: <i>Steel Pipe Unions, Socket-Welding and Threaded</i> ]	105	1976, 1987, 1995, 2001	1976	2006	Revised	DoD Adopted 4/26/1989 (DoD Activity Symbol: YD - Navy). Confirmed in 2009 DoD Engineering database.
SP-84-1990	Valves-Socket-Welding and Threaded Ends [1976-85 title: <i>Steel Valves-Socket Welding and Threaded Ends</i> ]	114	1976, 1978, 1985, 1990	1976	1996	Withdrawn 5/3/1996	Incorporated into ASME B16.34-1988 (an ANSI-approved ANS). DoD Adopted 6/29/1990 (DoD Activity Symbol: YD - Navy).
SP-85-2002	Gray Iron Globe & Angle Valves Flanged and Threaded Ends [1976-94 title: <i>Cast Iron Globe &amp; Angle Valves, Flanged and Threaded Ends</i> ]	106	1976, 1985, 1994	1976	2002	Revised	DoD Adopted 3/16/1986 (DoD Activity Symbol: YD - Navy); Used instead of MIL-V-18826 (MIL Spec cancelled 3/16/1986). Confirmed in 2009 DoD Engineering database.
SP-86-2009	Guidelines for Metric Data in Standards for Valves, Flanges, Fittings, and Actuators [1977 title: <i>MSS Guidelines for Metric Data in Standards for Valves, Flanges, and Fittings</i> ; 1981 title: <i>Guidelines for Metric Data in Standards for Valves, Flanges, and Fittings</i> ]	302	1977, 1981, 1981(w/ 1/1983 Errata), 1987, R1992, 1997, 2002	(July)1977	2009	Revised	DoD Adopted or referenced; Confirmed in 2009 DoD Engineering database.
SP-87-1991 (R 1996)	Factory-Made Butt-Welding Fittings for Class 1 Nuclear Piping Applications	113	1977, 1977(w/ 1978 Addenda), 1982, R1986, 1991, R1996	(Sept)1977	2001?	Withdrawn	Reason unclear. A 2001 Yellow Book entry indicates this SP was withdrawn and back cover of 2002 SPs (and forward) do not have this SP listed. Minutes of 8/27-28/2001 MSS BoD meeting indicates approval to withdraw SP-87 (Board unanimously approved withdraw). A 2005 Project Report indicates it is approved for withdraw, but not that it <i>WAS</i> withdrawn yet? Another note found indicates withdrawn 12-31-2007?
SP-88-2010	Diaphragm Valves [1978-93 title: <i>Diaphragm Type Valves</i> ]	406	1978, 1983, R1988, 1993, R2001	(Jan.)1978	2010	Revised	DoD Adopted 5/16/1988 (DoD Activity Symbol: YD - Navy); Used instead of MIL-V-82026 (MIL Spec cancelled 11/16/1984).
SP-89-2003	Pipe Hangers and Supports - Fabrication and Installation Practices	403	1978, 1985, 1991, 1998	1978	2003	Revised	To be withdrawn. Content incorporated into Revised SP-58-2009. Still active/available until withdrawn. DoD Adopted 10/16/1991 (DoD Activity Symbol: YD - Navy). Confirmed in 2009 DoD Engineering database.
SP-90-2000	Guidelines on Terminology for Pipe Hangers and Supports	403	1980, 1986, R1991	1980	2000	Revised	To be withdrawn. Content incorporated into Revised SP-58-2009. Still active/available until withdrawn.
SP-91-2009	Guidelines for Manual Operation of Valves	306	1980, 1984, 1990, 1992, R1996	1980	2009	Revised	
SP-92-1999	MSS Valve User Guide	306 (C-304, up to circa 2000)	1980, 1987, R1992	1980	1999	Revised	
SP-93-2008	Quality Standard for Steel Castings and Forgings for Valves, Flanges, Fittings, and Other Piping Components - Liquid Penetrant Examination Method	304	1982, 1987, R1992, 1999, R2004	(Nov.)1982	2008	Revised	
SP-94-2008	Quality Standard for Ferritic and Martensitic Steel Castings for Valves, Flanges, Fittings, and Other Piping Components - Ultrasonic Examination Method [1983-R2004 title: <i>Quality Standard for Ferritic and Martensitic Steel Castings for Valves, Flanges, and Fittings and Other Piping Components - Ultrasonic Examination Method</i> ]	304	1983, R1987, 1992, 1999, R2004	(Sept.)1983	2008	Revised	
SP-95-2006	Swage(d) Nipples and Bull Plugs	105	1986, R1991, 2000	(March)1986	2006	Revised	
SP-96-2001 (R2005)	Guidelines on Terminology for Valves and Fittings	302	1986, 1991, 1996, 2001	(Sept.)1986	2005	Reaffirmed	

Standard Number [Latest Version]	Standard Title	Technical Committee	Historical Editions	Original Publication and Adoption Date(s)	Year of Last Action	Last Action Taken	Comments
SP-97-2006	Integrally Reinforced Forged Branch Outlet Fittings - Socket Welding, Threaded, and Buttwelding Ends [1987 title: <i>Forged Carbon Steel Branch Outlet Fittings - Socket Welding, Threaded and Buttwelding Ends</i> ]	105	1987, 1995, 2001	(June)1987	2006	Revised	
SP-98-2001 (R2005)	Protective Coatings for the Interior of Valves, Hydrants, and Fittings [1987 title: <i>Protective Epoxy Coatings for the Interior of Valves and Hydrants</i> ; 1992 title: <i>Protective Coatings for the Interior of Valves and Hydrants</i> ]	112	1987, 1992, 1996, 2001	(June)1987	2005	Reaffirmed	
SP-99-1994 (R2005)	Instrument Valves	115	1987, 1989, 1994, R2001	(Oct)1987	2005	Reaffirmed	
SP-100-2009	Qualification Requirements for Elastomer Diaphragms for Nuclear Service Diaphragm Valves [1988-97 title: <i>Qualification Requirements for Elastomer Diaphragms for Nuclear Service Diaphragm Type Valves</i> ]	406	1988, 1997, 2002	(June)1988	2009	Revised	
SP-101-1989 (R2001)	Part-Turn Valve Actuator Attachment - Flange and Driving Component Dimensions and Performance Characteristics	408	1989	(July)1989	2001	Reaffirmed	Based in part on ISO 5211.
SP-102-1989 (R2001)	Multi-Turn Valve Actuator Attachment - Flange and Driving Component Dimensions and Performance Characteristics	408	1989	(July)1989	2001	Reaffirmed	Based in part on ISO 5210.
SP-103-1995 (R2000)	Wrought Copper and Copper Alloy Insert Fittings for Polybutylene Systems	201	1990, 1995, R2000	(April)1990	2005	Withdrawn 12/31/2005	Withdrawn due to publication of ASTM F1380 (Standard Specification for Metal Insert Fittings for Polybutylene (PB) Tubing), an American National Standard. Note that this ASTM standard was also withdrawn in 2008, with no replacement. Committee Chair indicated that insert fittings for use with PB tube is a system that is no longer available within North America (Class-action lawsuits for product failures lead to a stop in the manufacturing of PB tubing).
SP-104-2003	Wrought Copper Solder Joint Pressure Fittings	201	1990, 1995	(April)1990	2003	Revised	DoD Adopted 5/20/1994 (DoD Activity Symbol: DLA-CS - Defense Logistics Agency-Construction). Confirmed in 2009 DoD Engineering database.
SP-105-1996 (R2005)	Instrument Valves for Code Applications	115	1990, 1996, R2001	(July)1990	2005	Reaffirmed	
SP-106-2003	Cast Copper Alloy Flanges and Flanged Fittings Class 125, 150, and 300	201	1990, R1996	(Nov.)1990	2003	Revised	
SP-107-1991 (R2000)	Transition Union Fittings for Joining Metal and Plastic Products	201, 402	1991, R2000	(Jan.)1991	2004	Withdrawn 6/30/2004	Withdrawn due to decreased demand.
SP-108-2002	Resilient-Seated Cast-Iron Eccentric Plug Valves [1991 title: <i>Resilient Seated-Eccentric Cast Iron Plug Valves</i> ]	112	1991, 1996	(June)1991	2002	Revised	Note that a 2010 revision has been approved by C-112 and is being balloted by the Coordinating Committee as of April 2010; Expected publication in 2010.
SP-109-1997 (R2006)	Welded Fabricated Copper Solder Joint Pressure Fittings	201	1991, 1997	(Sept.)1991	2006	Reaffirmed	
SP-110-2010	Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends	401	1992, 1996	(May)1992	2010	Revised	DoD Adopted 9/30/1996 (DoD Activity Symbol: YD1 - Navy); Used instead of WW-V-35 (MIL Spec cancellation unknown, was under review 11/1997). Confirmed in 2009 DoD Engineering database.
SP-111-2001 (R2005)	Gray-Iron and Ductile-Iron Tapping Sleeves	112	1992, 1996, 2001	(Oct.)1992	2005	Reaffirmed	Note that a 2010 revision has been approved by C-112 and is being balloted by the Coordinating Committee as of April 2010; Expected publication in 2010.
SP-112-1999 (R2004)	Quality Standard for Evaluation of Cast Surface Finishes - Visual and Tactile Method	304	1993, 1999	(Jan.)1993	2004	Reaffirmed	
SP-113-2001 (R2007)	Connecting Joint between Tapping Machines and Tapping Valves	112	1994, 1999, 2001	(March)1994	2007	Reaffirmed	
SP-114-2007	Corrosion Resistant Pipe Fittings Threaded and Socket Welding Class 150 and 1000	108	1995, 2001	(May)1995	2007	Revised	
SP-115-2006	Excess Flow Valves, 1 ¼ NPS and Smaller, for Fuel Gas Service	501	1995, 1999	(July)1995	2006	Revised	Note that a 2010 revision has been approved by C-501 and is being balloted by the Coordinating Committee as of April 2010; Expected publication in 2010.
SP-116-2003	Service-Line Valves and Fittings for Drinking Water Systems	112	1996	(April)1996	2003	Revised	
SP-117-2006	Bellows Seals for Globe and Gate Valves	114	1996, 2002	(April)1996	2006	Revised	

Standard Number [Latest Version]	Standard Title	Technical Committee	Historical Editions	Original Publication and Adoption Date(s)	Year of Last Action	Last Action Taken	Comments
SP-118-2007	Compact Steel Globe & Check Valves - Flanged, Flangeless, Threaded & Welding Ends (Chemical & Petroleum Refinery Service)	114	1996, 2002	(Oct.)1996	2007	Revised	10/2009: API 602/ISO15761 is now ANSI approved and may diminish need for SP-118 (i.e., compact gate, globe, and check valves). C-114 revised for another 5 year period in 2007.
SP-119-2003	Factory-Made Wrought Belled End Socket-Welding Fittings	113	1996	(Nov.)1996	2003	Revised	Note that a 2010 revision has been approved by C-113 and is being balloted by the Coordinating Committee as of April 2010; Expected publication in 2010. This substantial revision will include a title change: "Factory-Made Wrought Belled End Pipe Fittings For Socket-Welding."
SP-120-2006	Flexible Graphite Packing System for Rising Stem Steel Valves - Design Requirements	308	1997, 2002	(March)1997	2006	Revised	
SP-121-2006	Qualification Testing Methods for Stem Packing for Rising Stem Steel Valves	308	1997, R2002	(March)1997	2006	Revised	
SP-122-2005	Plastic Industrial Ball Valves	402	1997	(Aug.)1997	2005	Revised	
SP-123-1998 (R2006)	Non-Ferrous Threaded and Solder-Joint Unions for Use with Copper Water Tube	201	1998	(Aug.)1998	2006	Reaffirmed	
SP-124-2001	Fabricated Tapping Sleeves	112	2000	2000; adopted (Aug.)1999	2001	Revised	Note that a 2010 revision has been approved by C-112 and is being balloted by the Coordinating Committee as of April 2010; Expected publication in 2010.
SP-125-2010	Gray Iron and Ductile Iron In-Line, Spring-Loaded, Center-Guided Check Valve	106	2000	(Aug.)2000	2010	Revised	DoD Adopted or referenced; Confirmed in 2009 DoD Engineering database.
SP-126-2007	Steel In-Line Spring-Assisted Center Guided Check Valves	114	2000	2000; adopted (Dec.)1999	2007	Revised	
SP-127-2001	Bracing for Piping Systems Seismic-Wind-Dynamic Design, Selection, Application	403	N/A	(Feb.)2001	2001	Created	
SP-128-2006	Ductile Iron Gate Valves	106	N/A	(Feb.)2006	2006	Created	
SP-129-2003 (R2007)	Copper-Nickel Socket-Welding Fittings and Unions	201	2003	2003; adopted (Dec.)2002	2007	Reaffirmed	
SP-130-2003	Bellows Seals for Instrument Valves	115	N/A	(Sept.)2003	2003	Created	
SP-131-2004	Metallic Manually Operated Gas Distribution Valves	501	N/A	2004; adopted (Sept.)2003	2004	Created	Note that a 2010 revision has been approved by C-501 and is being balloted by the Coordinating Committee as of April 2010; Expected publication in 2010.
SP-132-2010	Compression Packing Systems for Instrument Valves	115	2004	2004	2010	Revised	
SP-133-2005	Excess Flow Valves for Low Pressure Fuel Gas Appliances	501	N/A	2005; adopted (October)2004	2005	Created	Note that a 2010 revision has been approved by C-501 and is being balloted by the Coordinating Committee as of April 2010; Expected publication in 2010.
SP-134-2006a	Valves for Cryogenic Service Including Requirements for Body/Bonnet Extensions	114	2006	2006; adopted (Dec.)2005	2006a edition	Revised	Note that a 2010 revision has been balloted and expected to be published by 2Q2010. This substantial revision includes a Scope change involving check valves.
SP-135-2006	High Pressure Steel Knife Gate Valves	114	N/A	2006; adopted (Sept.)2005	2006	Created	
SP-136-2007	Ductile Iron Swing Check Valves	106	N/A	(Feb.)2007	2007	Created	
SP-137-2007	Quality Standard for Positive Material Identification of Metal Valves, Flanges, Fittings, and Other Piping Components	304	N/A	(May)2007	2007	Created	
SP-138-2009	Quality Standard Practice for Oxygen Cleaning of Valves & Fittings	407	N/A	2009; adopted (April)2008	2009	Created	
SP-139-2010	Copper Alloy Gate, Globe, Angle, and Check Valves for Low Pressure/Low Temperature Plumbing Applications	203	N/A	(March)2010; adopted (Feb.)2010	2010	Created	

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Data Sheet Number [Latest Revision]	Title	Technical Committee	Superseded / Withdrawn Editions	Original Publication and Adoption Date	Last Action Taken / Year	Comments
GD-1-1932	General Data - MSS 1932 Catalog of General Designs of Valves	Unknown		1932	Unknown	Confidential information for Members Only. Compiled to facilitate (a) study of the status of the industry, as it is affected by capital invested in patterns, tools and manufacturing equipment; and (b) determination of the practicality of "simplification".
GD-3-1932	General Data - Shell-Thickness Valves, Pipe Fittings	Unknown		(Sept.)1932	Unknown	This data has been compiled for the purpose of (a) promoting the use of an MSS formula for calculating basic thicknesses for the shells of pressure-containing parts of valves and fittings, and (b) illustrating the economic advantages to be gained by allowing for such deviations from any prescribed formula as may be proven safe through experience in the use of highly developed designs, produced under ample control of alloying materials and foundry technique.
GD-4-1933	General Data - Inch-Millimeter and Fraction-Decimal Conversions - Based on American Standard B48.1-1933, Inch-Millimeter Conversion for Industrial Use	Unknown		(Sept.)1933	Unknown	In order to promote accuracy uniformity in inch-millimeter and fraction-decimal conversions, the MSS has compiled GD-4.
GD-6-1936	General Data - Industrial Standardization and its Relation to "MSS"	Unknown		(Jan.)1936	Unknown	Comprehensive historical information relating to MSS, including its predecessor (1908-1924), and the industry.
GD-6a-1936	General Data - Pertinent Facts About the MSS	Unknown		(May)1936	Unknown	GD-6 discusses the increasing importance of standardization, outlines briefly the history of the Society, explains the continuing need for standardization work and mentions a few of the advantages of membership.
GD-7-1958	MSS Condensed Guide to U.S. Coast Guard Marine Engineering Regulations	Unknown	1949, (Jan.)1958[8th Ed.], other dates?	(Nov.)1949 or before	Unknown	Involves Federal Register Title 46, Chapter 1 - Subchapter F, Parts 50-58(61) Included. All data in these sheets are interpretations and opinions of the MSS Marine Committee and are to be used for reference only. They have been compiled as an index and guide in aiding MSS members to comply with the spirit and intent of the U.S. Coast Guard Rules.
DS-10-1952	General Data Sheet - Port Diameters and Wall Thicknesses 2500 LB Steel Valves and Fittings	Unknown	1952, other dates?	1952 or earlier	Unknown	The MSS developed this Data Sheet (DS) to "serve as a common basis for design of these products which are called for occasionally."
DS-11-1952	General Data Sheet - Center-to-End Dimensions for 45(degree) and 90(degree) Butt-Welding Elbows	Unknown	1952, other dates?	1952 or earlier	Unknown	Developed to record dimensions not presently shown [at that time] in American Standard B16.9-1951. They were developed by the MSS Butt-Welding Fittings Committee. There are written notations indicating that portions became part of SP-48 and other portions became part of the "new" B16.9.
DS-12-1955	General Data Sheet - Spiral-Weld Pipe Flanges and "RPM Standard" Flanges	Unknown	1955, other dates?	1955 or earlier	Unknown	
DS-13-1957	General Data Sheet - 300 LB and 600 LB Corrosion Resistant Cast Flanged Valves	Unknown	1957, other dates?	(July)1957 or earlier	Unknown	Indicated as a "Standard Practice" within its Scope.

**LEGEND:**

- (1) **Maroon** and **green** colored entries indicate that the document is no longer "active".
- (2) **Blue** colored entries indicate documents and activities of the pre-MSS, *Committee of Manufacturers on Standardization Pipe Fittings and Valves* time-period.
- (3) MSS Technical Committees 204, *Non-Ferrous Threaded Fittings* and 205, *Solder Joint Fittings* were dissolved before 1988.

## HISTORICAL INFORMATION

**Notation 1 (Origins of MSS):** MSS was originally organized under the name of Committee of Manufacturers on Standardization Pipe Fittings and Valves (1908-1924). An earlier organization, the Valve and Fittings Institute, existed until 1910 with an appointed committee on standardization (name indicated above). This aforementioned committee survived the dissolution of the parent Institute and evolved into what became MSS in 1924.

It can also be noted that in 1912, the aforementioned Committee of Manufacturers on Standardization Pipe Fittings and Valves appointed subcommittees to undertake specifications for gate valves, check valves, and indicator posts, in addition to establishing dimensions for brass and bronze valves. The founding Chairman of the Committee was Mr. Carlisle Mason (Nelson Valve Company) and the Secretary was Mr. W.H. Douglas.

**Notation 2 (The evolution of ANSI and American National Standards):** The American Engineering Standards Committee (AESC) [1918-1927] became the American Standards Association (ASA) [1928-1965], and became the United States of America Standards Institute (USASI) [1966-1967] [approving USA Standards], and finally the American National Standards Institute (ANSI) in 1969 to present [approving American National Standards].

**Additional Background:** ASA-approved standards (American Standards) were developed by a Sectional Committee (i.e., B16) operating under ASA procedures and co-sponsored by ASME, the Heating & Piping Contractors National Association [now the Mechanical Contractors Association of America (MCAA)], and MSS. ASME held the position of Secretariat and was delegated the job of publishing the results. MSS held the financial Secretary position for over 50 years. This type of Co-Secretariat and/or Co-Sponsor relationship ended years ago.

Over time ASME kept the rights to publish B16 American [National] Standards and continues to this day (see below for more detail). To add clarity, it can be noted that most MSS SPs (pre-1982) that were incorporated into B16 standards, were not ASME standards, but actually American [National] Standards that were sponsored and developed jointly through the ASA/USASI/ANSI B16 Committee at that time. For reasons lost to time, the other sponsors, including MSS, never jointly published the B16 standards they co-sponsored; however, MSS did sell B16 standards in its office up to the 1970's. **Note:** By jointly publishing a standard, all co-sponsors would share in copyright, income from sales, and public/industry credit for the effort, while still allowing for "a single source of authoritative information" because the substantive content would be the same wherever the standard is acquired.

In 1982, American Standards Committee B16 was recognized as an ASME Committee. They operate under ANSI procedures as an ANSI-approved developer and publish the resulting standards as American National Standards (ANS). MSS has long provided much of the content that provided the basis of B16 and other standards. In addition, MSS has been an ANSI member for years however was not approved to develop American National Standards until recently, so many post-1982 MSS documents were presented to ASME for incorporation into their American National Standards. Now that MSS has the ANSI Canvas Approval process (accredited as an ANSI-approved American National Standard developer), published Standard Practices do not have to go through other developers to receive ANS approval. It also gives MSS the option of jointly publishing an ANS with another ANSI-accredited developer.

### Historical MSS Standard Practice Back Cover Disclaimer from 1950:

The Manufacturers Standardization Society is an administrative co-sponsor for American Standards Association Project B16 on Pipe Flanges and Fittings. MSS Standard Practices are submitted to the ASA for approval and promulgation as American Standards after which they are withdrawn to establish a single source of authoritative information. MSS SPs which have become American Standards are listed below and are available through the MSS office also.

Obsolete MSS SP No.	MSS SP Title	ASA No.	American Standard Title
1	Pipe Plugs	B16.14-1949	Ferrous Plugs, Bushings and Locknuts with Pipe Threads
4	Steel Base Fittings	B16e-1939	Steel Pipe Flanges and Flanged Fittings. Note: This American Standard was also basis for B16e5-1943 American War Standard.
8	Cast Iron Screwed Drainage Fittings	B16.12-1942	Cast-Iron Screwed Drainage Fittings
10	125 Lb. Bronze Screw Pipe Fittings	B16.15-1947	Brass or Bronze Screwed fittings (125 Lb)
11	250 LB Bronze Screw Pipe Fittings	B16.17-1949	Brass or Bronze Screwed fittings (250 Lb)
14	25 LB [WSP] Cast-Iron Flanges	B16b2-1931	Cast-Iron Pipe Flanges and Flanged Fittings (max WSP of 25 Lb)
15	25 LB [WSP] Cast-Iron Flange Fittings	B16b2-1931	Cast-Iron Pipe Flanges and Flanged Fittings (max WSP of 25 Lb)
16	Pipe Bushings	B16.14-1949	Ferrous Plugs, Bushings and Locknuts with Pipe Threads
17	Locknuts	B16.14-1949	Ferrous Plugs, Bushings and Locknuts with Pipe Threads
29	Screw Threads for High Temperature & Temperature Bolting	B1.4-1945	Screw Threads for High-Strength Bolting
32	Ferrous Flanged Valve Center-to-Face Dimensions	B16.10-1939	Face-to-Face Dimensions of Ferrous Flanged & Welding End Valves
35	Railing Fittings- Male and Female Threads	B2.1-1945	Pipe Threads

**If you can provide any anecdotal information or corrections to this document, please contact MSS staff.**

### **MSS GENERAL CHAIRMEN AND SOCIETY PRESIDENTS**

MSS recognizes and wishes to offer profound appreciation for the many years of service, significant contributions, and professional leadership that were contributed by the following MSS General Chairmen and Society Presidents:

<u>Name</u>	<u>Representative Company</u>	<u>Service (Years)</u>
Howard Coonley*	Walworth Company	1924-1953
John P. Magos*	Crane Company	1953-1966
Carl H. Simon*	Darling Valve & Manufacturing Company	1966-1970
Harry M. Burns*	Stockham Valves & Fittings, Inc.	1970-1976
Tom C. Jester	American-Darling Valve & Manufacturing Company	1976-1979
Robert (Bob) B. Edwards	NIBCO, Inc.	1979-1982
Bert J. Milleville	Rockwell International	1982-1985
Robert (Bob) Koester	The Wm. Powell Company	1985-1988
William (Bill) G. Knecht	Anchor/Darling Valve Company	1988-1991
Robert (Bob) A. Schmidt	Ladish Company	1991-1992
Jerry Bottenfield	Clow Valve Company	1993-1997
Guy A. Jolly	Vogt Valve Company	1997-2000
Henry R. Sonderegger	Tyco Flow Control	2000-2001
	Anvil International	2001-2003
Roland L. Larkin	American Cast Iron Pipe Company	2003-2006
C. Rush McClinton	Milwaukee Valve Company	2006-2009
John V. Ballun	Val-Matic Valve & Manufacturing Corp.	2009-Current

\* Served as General Chairmen (Predecessor to the "Society President" title).

### **CHARTER MEMBERS OF MSS\***

Chapman Valve Company	Kelly & Jones Company
Crane Company	Kennedy Valve Manufacturing Company
Darling Valve & Manufacturing Company, Ltd.	Ludlow Valve Manufacturing Company
Detroit Lubricator Company	Lunkenheimer Company
Devlin Manufacturing Company	Malleable Iron Fittings Company
Eddy Valve Company	Manning, Maxwell & Moore, Inc.
Edward Valve & Manufacturing Company	Ohio Brass Company
Essex Foundry	Ohio Steel Foundry Company
The Fairbanks Company	Pittsburgh Valve, Foundry & Construction Company
S.G. Flagg & Company	The William. Powell Company
General Fire Extinguisher Company	Reading Steel Casting Company
Illinois Malleable Iron Company	Stockham Pipe & Fitting Company
Jenkins Brothers	Walworth Manufacturing Company
M.W. Kellogg & Company	R.D. Wood & Company

\* At time of official 1924 incorporation.

