



## Federal valve specifications for bronze and cast iron valves

### **Bronze Valve Specifications \* (below valves conform to MSS-SP-80)**

Federal Specification WW-V-51e:

Class A, Type I Covers  
125 lb. S.W.P Globe Valves

Class A, Type II Covers  
125 lb. S.W.P Angle Valves

Class A, Type IV Covers  
125 lb. S.W.P Swing Check Valves

Class B, Type I Cover  
150 lb. S.W.P. Globe Valves

Class B, Type II Covers  
150 lb. S.W.P Angle Valves

Class B, Type IV Covers  
150 lb. S.W.P Globe Valves

Federal Specification WW-V-54d:

Class A, Type I Covers  
125 lb. S.W.P. Wedge Disc, Non-Rising Stem Gate Valves

Class A, Type II Covers  
125 lb. S.W.P. Wedge Disc, Rising Stem, Inside Screw  
Gate Valves

Class A, Type III Covers  
125 lb. S.W.P. Double Disc, Rising Stem, Inside Screw  
Gate Valves

Class B, Type I Covers  
150 lb. S.W.P. Wedge Disc, Non-Rising Stem Gate Valves

Class B, Type II Covers  
150 lb. S.W.P. Wedge Disc, Rising Stem, Inside Screw  
Gate Valves

Class B, Type III Covers  
150 lb. S.W.P. Double Disc, Rising Stem, Inside Screw  
Gate Valves

## Federal valve specifications for bronze and cast iron valves

### Iron Valve Specifications \* (below valves conform to MS-SP-70)

Federal Specification WW-V-58b:

Class 1, Type I Covers  
125lb. S.W.P. Wedge Disc, OS&Y, Screwed End, Cast Iron  
Gate Valves

Class 2, Type I Covers  
250lb. S.W.P. Wedge Disc, OS&Y, Screwed End, Cast Iron  
Gate Valves

Class 1, Type I Covers  
125lb. S.W.P. Non-Rising Stem, Inside Screw Screwed  
End, Cast Iron Gate Valves

Class 2, Type I Covers  
250lb. S.W.P. Non-Rising Stem, Inside Screw, Screwed  
End, Cast Iron Gate Valves

Class 1, Type I Covers  
125lb. S.W.P. OS&Y, Flanged End, Cast iron Gate Valves

Class 2, Type I Covers  
250lb. S.W.P. OS&Y, Flanged End, Cast Iron Gate Valves

Class 1, Type I Covers  
125lb. S.W.P. Non-Rising Stem, Inside Screw, Flanged End,  
Cast Iron Gate Valves

Class 2, Type I Covers  
250lb. S.W.P. Non-Rising Stem, Inside Screw, Flanged End,  
Cast Iron Gate Valves

\* The Federal Government has now accepted MSS-SP specifications in lieu of the  
WW-V Series of specifications.

Note: WW-V-51, WW-V-54, WW-V-58 have been cancelled and replaced by the corresponding  
MSS Specifications

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### BRONZE

Federal Specification WW-V-51e Class A, Type I

Covers 125lb S.W.P. Globe Valves (MSS-SP-80)

Federal Specification WW-V-51e Class A, Type II

Covers 125lb S.W.P. Angle Valves (MSS-SP-80)

Federal Specification WW-V-51e Class B, Type I

Covers 125lb S.W.P. Swing Check Valves (MSS-SP-80).

Federal Specification WW-V-51e Class B, Type I

Covers 150lb S.W.P. Globe Valves (MSS-SP-80).

Federal Specification WW-V-51e Class C, Type II

Covers 150lb S.W.P. Angle Valves (MSS-SP-80).

Federal Specification WW-V-51e Class B, Type IV

Covers 150lb S.W.P. Swing Check Valves (MSS-SP-80).

Federal Specification WW-V-51e Class C, Type I

Covers 200lb S.W.P. Globe Valves (MSS-SP-80.)

Federal Specification WW-V-54d Class A, Type I

Covers 125lb S.W.P. Wedge Disc, Non-Rising Stem Gate Valves (MSS-SP-80).

Federal Specification WW-V-51e Class C, Type II

Covers 200lb S.W.P. Angle Valves (MSS-SP-80).

Federal Specification WW-V-51e Class C, Type IV

Covers 200lb S.W.P. Swing Check Valves (MSS-SP-80).

Federal Specification WW-V-54d Class A, Type II

Covers 125lb S.W.P. Wedge Disc, Rising Stem, Inside Screw Gate Valves (MSS-SP-80).

Federal Specification WW-V-54d Class A, Type I

Covers 125lb S.W.P. Double Disc, Rising Stem, Inside Screw Gate Valves (MSS-SP-80).

Federal Specification WW-V-54d Class B, Type II

Covers 150lb S.W.P. Wedge Disc, Non-Rising, Stem Gate Valves (MSS-SP-80).

Federal Specification WW-V-54d Class B, Type II

Covers 150lb S.W.P. Wedge Disc, Rising Stem, Inside Screw gate Valves (MSS-SP-80).

Federal Specification WW-V-54d Class B, Type II

Covers 150lb S.W.P. Double Disc, Rising Stem, Inside Screw Gate Valves (MSS-SP-80).

Federal Specification WW-V-54d Class C, Type I

Covers 200lb S.W.P. Wedge Disc, Non-Rising, Stem Gate Valves (MSS-SP-80).

Federal Specification WW-V-54d Class C, Type II

Covers 200lb S.W.P. Wedge Disc, Rising Stem, Inside Stem Gate Valves (MSS-SP-80).

Federal Specification WW-V-35d Covers 15lb S.W.P. Ball Valves

### IRON

Federal Specification WW-V-58d Class 1, Type I

Covers 125lb S.W.P. Wedge Disc, OS&Y, Screwed End, Cast Iron Gate Valves (MSS-SP-70).

Federal Specification WW-V-58d Class 2, Type I

Covers 200lb S.W.P. Wedge Disc, OS&Y, Screwed End, Cast Iron Gate Valves (MSS-SP-70).

Federal Specification WW-V-58d Class 1, Type I

Covers 125lb S.W.P. Non-Rising Stem, Inside Screw, Screwed End, Cast Iron Gate Valves (MSS-SP-70).

Federal Specification WW-V-58d Class 2, Type I

Covers 250lb S.W.P. Non-Rising Stem, Inside Screw, Screwed End, Cast Iron Gate Valves (MSS-SP-70).

Federal Specification WW-V-58d Class 1, Type I

Covers 125lb S.W.P. OS&Y Flanged End, Cast Iron Gate Valves (MSS-SP-20).

Federal Specification WW-V-58d Class 2, Type I

Covers 250lb S.W.P. OS&Y, Flanged End, Cast Iron Gate Valves (MSS-SP-70).

Federal Specification WW-V-58d Class 1, Type I

Covers 125lb S.W.P. Non-Rising Stem, Inside Screw, Flanged End, Cast Iron Gate Valves (MSS-SP-70).

Federal Specification WW-V-58d Class 2, Type I

Covers 250lb S.W.P. Non-Rising Stem, Inside Screw, Flanged End, Cast Iron Gate Valves (MSS-SP-70).

### STANDARDS -- FOR INFORMATION

#### PURPOSES ONLY

MSS-SP-67 Covers Butterfly Valves of the Single Flanged Type (Lug Wafer)

MSS-SP-67 Covers Butterfly Valves of the Flangeless Type (Water)

MSS-SP-70 Covers Cast Iron Gate Valves, Flanged and Threaded Ends

MSS-SP-71 Covers Cast Iron Swing Check Valves, Flanged and Threaded Ends

MSS-SP-80 Covers Bronze Gate, Globe Angle and Check Valves

MSS-SP-85 Covers Cast Iron Globe and Angle Valves, Flanged and Threaded Ends

A.N.S.I. Standard B1.1- The Unified Screw Threads Standard that covers manufacturing tolerances of screw threads.

A.N.S.I. Standard B1.20.1- This standards controls NIBCO pipe threads

A.N.S.I. Standard B2.4- This standard controls NIBCO hose coupling screw threads

A.N.S.I. Standard B16.18- This standard controls NIBCO valve solder cups

A.N.S.I Standard B16.1- Covers cast iron pipe flanges and flanged fittings (Class 125 and 250)

A.N.S.I. Standard B16.10- Covers face-to-face and end-to-end dimensions of ferrous valves

MILITARY Standard MIL-V-18826- Covers cast iron globe valves

MILITARY Standard MIL-V-18436- Applies to bronze and iron check valves sizes 1/2" thru 12".