

INCH-POUND

MS14315D  
1 November 2015  
SUPERSEDING  
MS14315C  
W/AMENDMENT 1  
11 August 2011

DETAIL SPECIFICATION SHEET

BUSHINGS, PIPE, BRASS OR BRONZE, THREADED  
(OUTSIDE HEAD, INSIDE HEAD, AND FACE)  
CLASS 250

This specification is approved for use by all Departments and  
Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and  
WW-P-460.

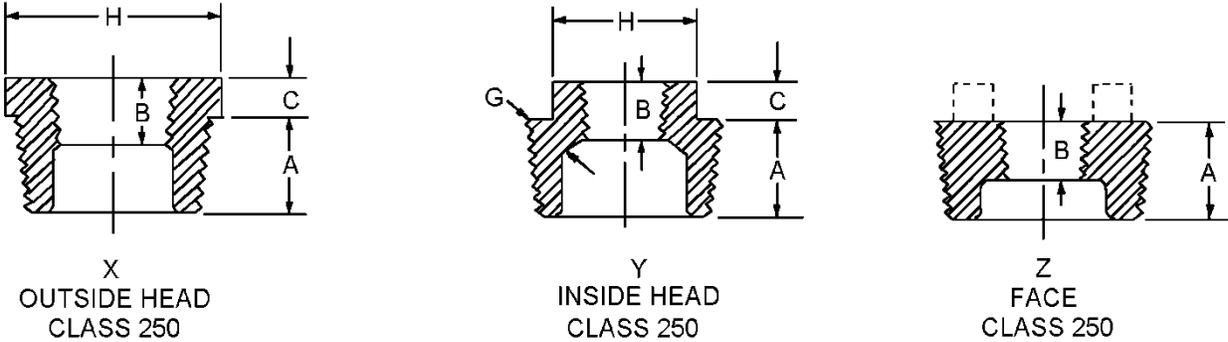


FIGURE 1. Bushing dimensions and configurations.



MS14315D

Dash number	Nominal pipe size fractional (inch)	Nominal pipe size decimal (inch)	Nominal pipe size metric (mm)
-1	1/4 X 1/8	.250 X .125	6.35 X 3.18
-2	3/8 X 1/4	.375 X .250	9.53 X 6.35
-3	3/8 X 1/8	.375 X .125	9.53 X 3.18
-4	1/2 X 3/8	.500 X .375	12.70 X 9.53
-5	1/2 X 1/4	.500 X .250	12.70 X 6.35
-6	1/2 X 1/8	.500 X .125	12.70 X 3.18
-7	3/4 X 1/2	.750 X .500	19.05 X 12.70
-8	3/4 X 3/8	.750 X .375	19.05 X 9.53
-9	3/4 X 1/4	.750 X .250	19.05 X 6.35
-10	1 X 3/4	1.000 X .750	25.40 X 19.05
-11	1 X 1/2	1.000 X .500	25.40 X 12.70
-12	1 X 3/8	1.000 X .375	25.40 X 9.53
-13	1 X 1/4	1.000 X .250	25.40 X 6.35
-14	1 1/4 X 1	1.250 X 1.000	31.75 X 25.40
-15	1 1/4 X 3/4	1.250 X .750	31.75 X 19.05
-16	1 1/4 X 1/2	1.250 X .500	31.75 X 12.70
-17	1 1/4 X 3/8	1.250 X .375	31.75 X 9.53
-18	1 1/2 X 1 1/4	1.500 X 1.250	38.10 X 31.75
-19	1 1/2 X 1	1.500 X 1.000	38.10 X 25.40
-20	1 1/2 X 3/4	1.500 X .750	38.10 X 19.05
-21	1 1/2 X 1/2	1.500 X .500	38.10 X 12.70
-22	2 X 1 1/2	2.000 X 1.500	50.80 X 38.10
-23	2 X 1 1/4	2.000 X 1.250	50.80 X 31.75
-24	2 X 1	2.000 X 1.000	50.80 X 25.40
-25	2 X 3/4	2.000 X .750	50.80 X 19.05
-26	2 X 1/2	2.000 X .500	50.80 X 12.70
-27	2 1/2 X 2	2.500 X 2.000	63.50 X 50.80
-28	2 1/2 X 1 1/2	2.500 X 1.500	63.50 X 38.10
-29	2 1/2 X 1 1/4	2.500 X 1.250	63.50 X 31.75
-30	2 1/2 X 1	2.500 X 1.000	63.50 X 25.40
-31	3 X 2 1/2	3.000 X 2.500	76.20 X 63.50
-32	3 X 2	3.000 X 2.000	76.20 X 50.80
-33	3 X 1 1/2	3.000 X 1.500	76.20 X 38.10
-34	3 X 1 1/4	3.000 X 1.250	76.20 X 31.75
-35	4 X 3	4.000 X 3.000	101.60 X 76.20
-36	4 X 2 1/2	4.000 X 2.500	101.60 X 63.50
-37	4 X 2	4.000 X 2.000	101.60 X 50.80
-38	4 X 1 1/2	4.000 X 1.500	101.60 X 38.10

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Dimensions including A, B, C, G, and H shall be in accordance with ASME B16.15.

FIGURE 1. Bushing dimensions and configurations - Continued.

# MS14315D

## Requirements

### Material:

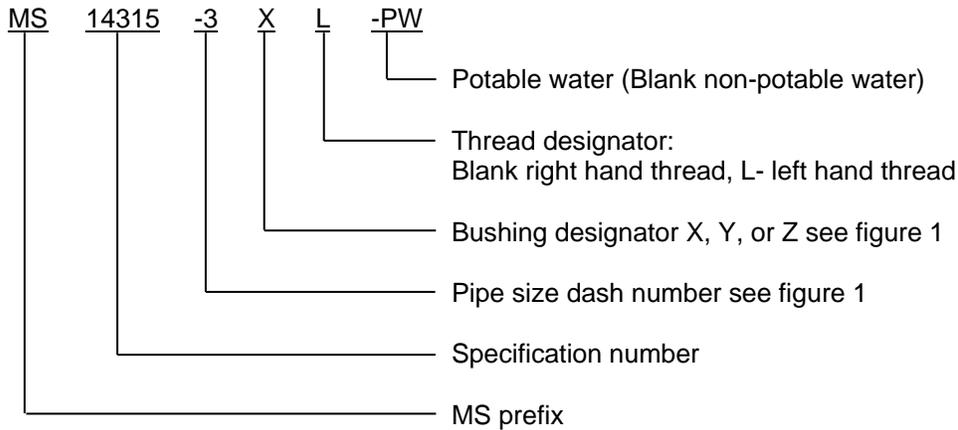
Non-potable water: Brass or bronze (lead) in accordance with ASME-B16.15.

Potable water: Brass alloys C89510 or C89520 in accordance with ASTM B584 or C89550 in accordance with Copper Development Association Inc.

Threads: In accordance with ASME-B16.15.

Protective coating: None.

PIN: The PIN consists of the MS prefix, specification number, dash number for size, bushing designator, right hand thread designator (Blank), non-potable water (Blank) or potable water dash letters (-PW). When left-hand threads are required, add the letter "L" to the PIN.



### Examples:

MS14315-24X represents a 2 inch Nominal Pipe Size (NPS) X 1 inch NPS outside head bushing, non-potable.

MS14315-24X-PW represents a 2 inch NPS X 1 inch NPS outside head bushing, potable water.

MS14315-35ZL represents a 4 inch NPS X 3 inch NPS face bushing, left hand threads, non-potable water.

MS14315-35ZL-PW represents a 4 inch NPS X 3 inch NPS face bushing, left hand threads, potable water.

### Legacy information:

Class 125 was changed to 250 to harmonize with ASME B16.15.

Corrected -4 and -5, both were calling out 1/2 inch NPS X 3/8 inch NPS. Changed -4 to callout 1/2 inch NPS X 3/8 inch NPS and -5 to 1/2 inch NPS X 1/4 inch NPS.

Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

## MS14315D

Referenced documents shall be of the issue in effect on date of invitations for bid.

Brass fittings for potable water use may be substituted for non-potable water brass fittings. Non-potable brass fittings shall not be substituted for potable water fittings.

January 4, 2014, Federal Public Law 111-380 prohibits the sale of plumbing fixtures with a wetted surface area containing more than a weighted average of 0.25% lead.

Marking: In accordance with ASME-B16.15, additional marking for potable water fittings shall be as described below.

Potable water fittings. Brass bushings for potable water systems shall be certified and marked as specified:

Many State plumbing codes require the use of products that are in compliance with NSF/ANSI standards 61 and 372. NSF/ANSI Standard 372 is a certification process by which independent laboratories verify that the plumbing product is in compliance with the requirements of the 2011 Reduction of Lead in Drinking Water Act. Products will bear the mark of the laboratory that has independently certified that the product meets the standard. EPA published a brochure to assist the public with identifying the various marks that indicate a product has been certified as lead free to the new requirement of the Act: "How to Identify Lead-Free Certification Marks for Drinking Water System & Plumbing Materials." You can access the document at <http://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100LVYK.txt>.

Non-potable water fittings. Brass bushings not for potable water systems shall be tagged:

NOT FOR USE IN POTABLE WATER SYSTEMS.

The tag shall be removable by the end item user.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

Referenced documents. In addition to WW-P-460, this document references the following:

- Reduction of Lead in Drinking Water Act
- ASME-B16.15
- ASTM B584
- NSF/ANSI standards 61
- NSF/ANSI Standard 372

MS14315D

CONCLUDING MATERIAL

Custodians:

Army - AT  
Navy - MC  
Air Force - 99  
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-2015-068)

Review activities:

Army - AR, CE, EA  
Navy - SA  
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.