

INCH-POUND

MS14304B

31 July 2015

SUPERSEDING

MS14304A

22 February 1982

DETAIL SPECIFICATION SHEET

COUPLING, CAPS, PLUGS, & BUSHINGS, PIPE THREADED, PRESSURE CLASS 3000 & 6000

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
ASME B16.11.

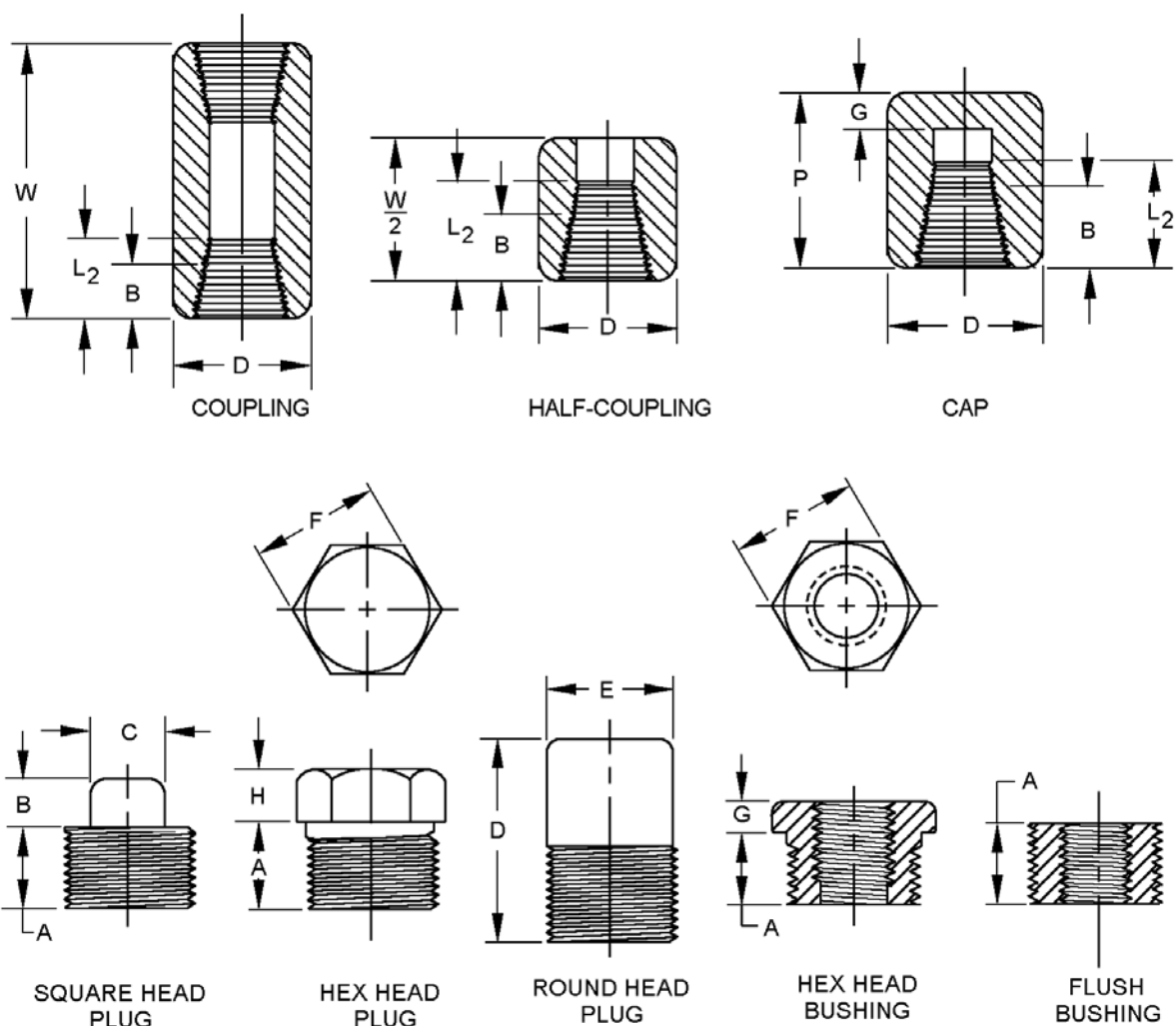


FIGURE 1. Design and dimensions.

AMSC N/A

FSC 4730



REQUIREMENTS:

Dimensions are in inches and are given in ASME B16.11 under the tables for steel threaded fittings and steel plugs and bushings.

Carbon steel fittings shall be electrodeposited zinc coated when specified by the MS part number. The zinc coating shall conform to ASTM B633 Type I Class SC3 and shall be applied after machining and threading operations.

Material finish: The material and finish of the fitting are identified by a single digit as specified in table I.

TABLE I. Fitting material and finish.

Code Number	Material and Finish (if applicable)
1	Carbon Steel (ASTM A105/A105M or ASTM A181/A181M Class 70), not zinc coated
2	Carbon Steel (ASTM A105/A105M or ASTM A181/A181M Class 70), zinc coated
3	4-6% Chromium – 1/2% Molybdenum (ASTM A182/A182M Grade F5)
4	1 1/4% Chromium – 1/2% Molybdenum (ASTM A182/A182M Grade F11)
5	2 1/4% Chromium – 1% Molybdenum (ASTM A182/A182M Grade F22)
6	304 Stainless Steel (ASTM A182/A182M Grade F304)
7	316 Stainless Steel (ASTM A182/A182M Grade F316)

Pressure class and kind of fitting: The kind of fittings and pressure class of the fitting are identified by a single alphabetic character as specified in table II.

TABLE II. Fitting kind and pressure class identifier.

Kind of Fitting	Pressure Class Rating	
	Class 3000	Class 6000
Cap, pipe	A	B
Coupling, pipe	C	D
Outlet, pipe (half-coupling)	E	F
Plug, pipe (round head)	H	
Plug, pipe (square head)	J	
Plug, pipe (hex head)		P
Bushing, pipe (flush)		R
Bushing, pipe (hex head)		T

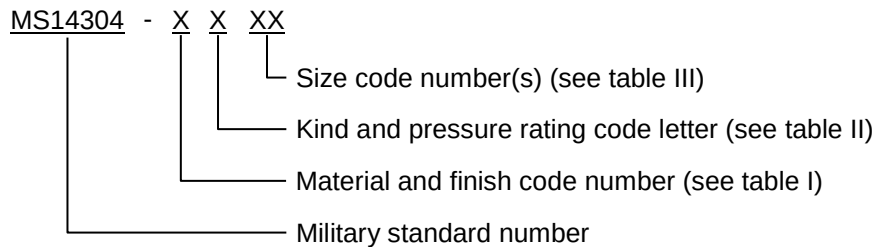
Nominal pipe size: The nominal pipe size of the fitting is identified by two digits as shown in table III except for bushings where the size code number will contain four digits (the first two digits for the larger nominal pipe size and the last two digits for the small, nominal pipe size).

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TABLE III. Fitting nominal pipe size identifier.

Size Code	Nominal pipe size	Size Code	Nominal pipe size
02	1/8 Inch	20	1-1/4 Inch
04	1/4 Inch	24	1-1/2 Inch
06	3/8 Inch	32	2 Inch
08	1/2 Inch	40	2-1/2 Inch
12	3/4 Inch	48	3 Inch
16	1 Inch	64	4 Inch

Part or identifying number (PIN): The MS part number consists of the MS number with a dash after it, the material and finish code number, the kind and pressure rating code letter, and the size code number(s) as follows:



Examples of a PIN:

MS14304-2A16 is for a zinc coated, carbon steel, 1 inch, class 3000 pipe cap.

Referenced documents shall be of the issue in effect on date of invitations for bids or request for proposal.

For design feature purposes, this standard takes precedence over procurement documents referenced herein.

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.

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.

Reference documents. In addition to ASME B16.11 this document references the following:

ASTM B633
 ASTM A105/A105M
 ASTM A181/A181M
 ASTM A182/A182M

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CONCLUDING MATERIAL

Custodians:

Army - AT
Navy - MC
Air Force - 99

Preparing activity:

DLA - CC

(Project 4730-2015-052)

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>.