

INCH-POUND

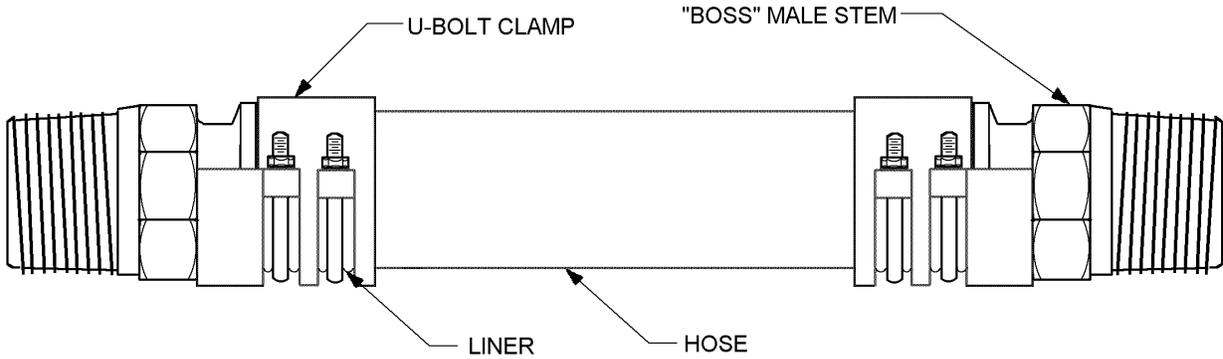
MIL-DTL-29210/2  
21 June 2010

DETAIL SPECIFICATION SHEET

HOSE ASSEMBLY, IRON, BRASS, AND CRES CONNECTORS, RUBBER,  
METAL LINED, WIRE REINFORCED, 1.250, 1.500, AND 2.000 INCH HOSE,  
250 PSIG, SATURATED STEAM SERVICE

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  
MIL-DTL-29210.



NOTE: .750 inch (19.05 mm) hose clamp may be a single type U-Bolt design.

FIGURE 1. Hose assembly configuration.

MIL-DTL-29210/2

REQUIREMENTS

Hose assemblies described herein shall be manufactured with BOSS male stem fittings as specified herein and hose in accordance with MIL-DTL-29210.

Hose shall be in accordance with MIL-DTL-29210.

All hose assemblies shall be subjected to the individual inspections as specified in MIL-DTL-29210.

Hose assembly working pressure 250 psi (1.7 MPa) at 406°F (208°C).

Hose ID designators shall be as specified in table I.

TABLE I. Hose size code number. 1/ 2/

Hose size code number	Hose size ID inches (mm)
125	1.250 (31.75)
150	1.500 (38.10)
200	2.000 (50.80)

1/ Dimensions are in inches.

2/ Metric equivalents are given for information only.

Hose reinforcement wires shall be in accordance with MIL-DTL-29210. Designators shall be as specified in table II.

TABLE II. Reinforcement wire.

Code	Material
B	Brass plated high tensile carbon steel
S	Corrosion resistant steel (CRES)
Z	Zinc-plated high tensile carbon steel wire

Hose assembly configurations shall be as specified on figure 1.

Material for male stem, see table II for material designators:

Malleable iron in accordance with ASTM A47/A47M, grade 32510, or ductile iron in accordance with ASTM A536, grade 60-40-18 or grade 65-45-12, and shall be protected with a corrosion-resisting coating to withstand 90 hours of salt spray testing in accordance with ASTM B117. Gray iron castings in accordance with ASTM A48/A48M shall not be acceptable.

Brass in accordance with ASTM B61 or alloys C92200 or C90300 in accordance with ASTM B271, ASTM B505/B505M or ASTM B584.

Corrosion resistant steel (CRES) alloy 316 in accordance with SAE-AMS-5653.

MIL-DTL-29210/2

TABLE III. Male stem material designators.

Material designator	Material
M	Malleable iron
B	Brass
S	CRES

Nipple: The nipple shall be a "BOSS" Male Stem, see table IV for size designators.

Threads shall be NPT in accordance with ASME B1.20.1.

TABLE IV. Male stem hose and thread sizes. 1/ 2/

Male stems Designator	Male stems hose size inch (mm)	Thread size NPT
-20-20	1.250 (31.75)	1 ¼ - 11.5
-24-24	1.500 (38.10)	1 ½ - 11.5
-32-32	2.000 (50.80)	2 - 11.5

1/ Dimensions are in inches.

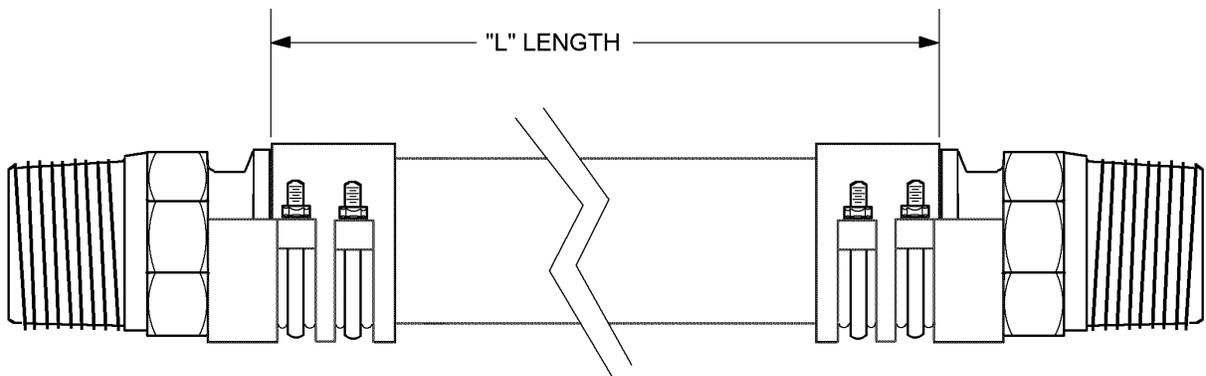
2/ Metric equivalents are given for information only.

U-Bolt:

Casting, if used, for U-bolt shall be malleable iron in accordance with ASTM A47/A47M, grade 32510.

The U-bolt bolts shall be factory set at the manufactures torque value.

Hose assembly length. The hose assembly length is calculated as specified on figure 2.



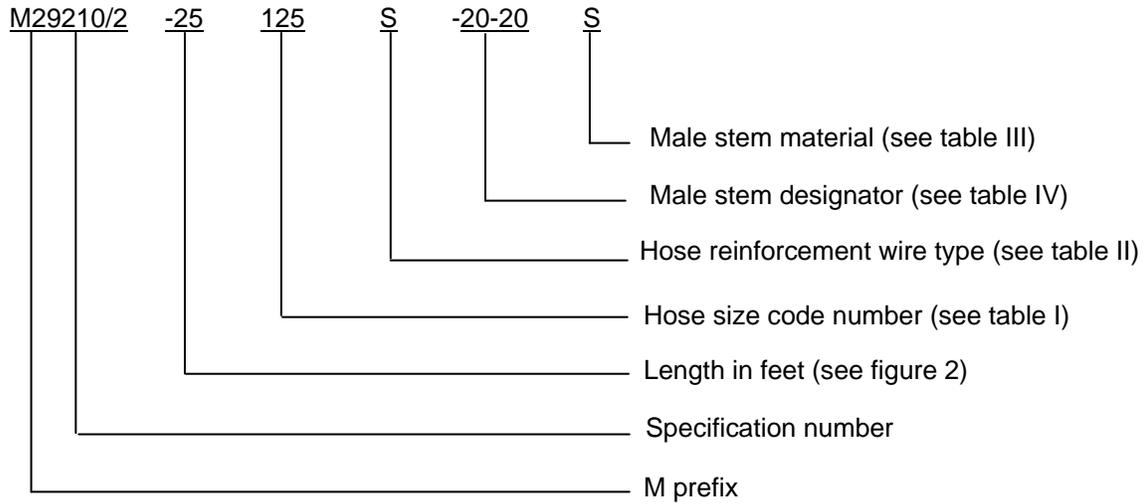
NOTES:

1. Lengths of hose "L" are represented by feet (25, 50, 75, and 100).
2. Hose length tolerance shall be in accordance with MIL-DTL-29210.
3. Figure is for illustration purposes only and is not meant to restrict designs.

FIGURE 2. Hose assembly dimensions.

MIL-DTL-29210/2

Part or Identifying Number (PIN) example:



M29210/2-25100MM indicates - Hose assembly 25 feet long, 1.250 inch hose ID, male fittings with brass reinforcement wires, both hose stems are for 1.250 inch hose with 1.250 inch NPT threads with CRES male stem.

Intended use: Temporary services from docks or barges to ships 250 psi, saturated steam service at a temperature of up to 406°F.

Referenced documents. In addition to MIL-DTL-29210, this document references the following:

- |               |                 |
|---------------|-----------------|
| ASME B1.20.1  | ASTM B117       |
| ASTM A47/A47M | ASTM B271       |
| ASTM A48/A48M | ASTM B505/B505M |
| ASTM A536     | ASTM B584       |
| ASTM B61      | SAE-AMS-5653    |

CONCLUDING MATERIAL

Custodians:  
Army - AT  
Navy - SH  
Air Force - 99  
DLA - CC

Preparing activity:  
DLA - CC  
(Project 4720-2009-027)

Review activities:  
Navy - MC, 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.daps.dla.mil>.