

INCH-POUND

A-A-59614/2A

18 March 2015

SUPERSCEDING

A-A-59614/2

13 January 2014

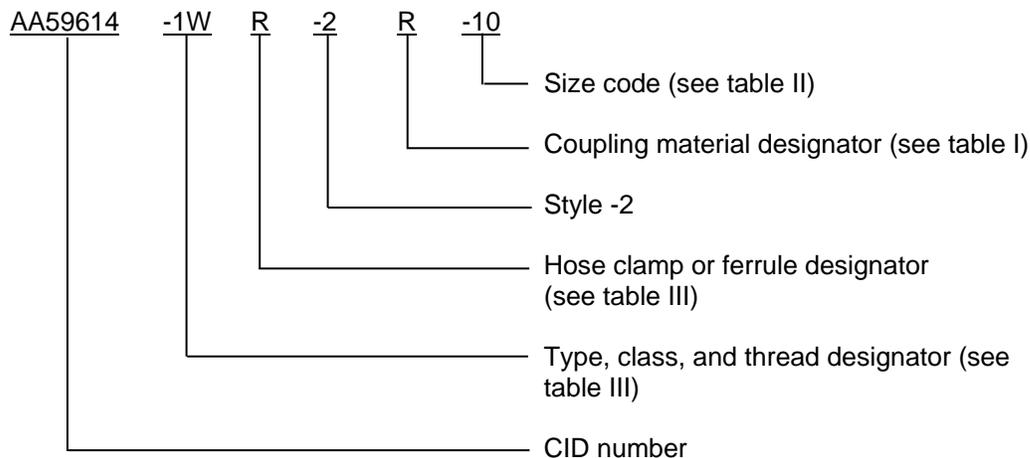
COMMERCIAL ITEM DESCRIPTION  
SPECIFICATION SHEET

COUPLING ASSEMBLY, HOSE (WATER AND WATER SUCTION),  
SHORT SHANK WITH PIN LUG SWIVEL, TYPE I, STYLE 2

The General Services Administration has authorized the use  
of this commercial item description for all federal agencies.

The complete requirements for procuring the hose coupling assemblies described herein shall consist of  
this document and the latest issue in effect of A-A-59614.

CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This commercial item description (CID)  
specification sheet uses a classification system which is included in the PIN as shown in the following  
example (see NOTES).



SALIENT CHARACTERISTICS.

Interface and physical dimensions. Coupling assemblies supplied to this CID specification sheet shall  
meet the general requirements specified in A-A-59614 and be as specified herein (see figure 1).

Tightening provisions. The male and female sections shall have pin lugs.

AMSC N/A

FSC 4730



A-A-59614/2A

Construction. Unless otherwise specified, style 2, type I, coupling components shall consist of the following (see figure 1):

- a. Female section.
- b. Swivel nut for female section.
- c. Male section.
- d. Threads NH, NPSH, or NSPM in accordance with A-A-59614.
- e. Gasket recess in swivel (recess may be omitted provided the standard commercial gasket does not fall out when the two sections are disconnected).
- f. Two hose clamps or compression ferrules (outside crimp) one for each male and female section.

Materials. Coupling parts shall be cast or machined from aluminum, copper alloy (brass), iron, corrosion resistant steel (CRES), steel, or zinc-base alloy, see table I.

TABLE I. Coupling material.

Material designator	Material	Plating
A	Aluminum shank w/brass pin lug swivel	---
B	Copper alloy (brass)	---
F	Iron shank - Iron nut	Zinc
G	Iron shank - Brass nut	Zinc
R	CRES	---
S	Steel	Zinc
Z	Zinc-base alloy	Zinc

Class AA couplings. When attached to hose, class AA couplings shall be able to withstand a hydrostatic proof pressure test of 125 psi for size 1.500 and 100 psi for all other sizes, for at least one minute without showing any signs of leakage.

TABLE II. Size codes for class AA. <sup>1/</sup>

PIN size code	Class AA size
-08	1.000
-10	1.250
-12	1.500
-16	2.000
-20	2.500
-24	3.000
-32	4.000
-48	6.000

<sup>1/</sup> The size indicates the nominal size of the coupling to fit the hose inside diameter (ID). For example, size 1.500 is for a coupling to fit the 1.500 inch nominal ID hose.

TABLE III. PIN codes for type, class, thread, hose clamp or compression ferrule.

Type, class, and thread designator <u>1/</u>	Class (see table II)	Thread type	Hose clamp type designator (see figure 2)	Compression ferrule designator (see table V)
1W	AA	NH	A, B, C, D, E, or F	CA, R, or Z
1WS	AA	NPSH <u>2/</u> <u>3/</u>		
1WN	AA	NPSM		
1BW	AA	NH		
1BWS	AA	NPSH		

1/ The "B" designator is for pin lugs on both male and female coupling halves. Not applicable for aluminum shank w/brass pin lug swivel.

2/ Material codes B and F only. Pin lugs on both male and female sections.

3/ 1.00 inch fittings have a hex nut design.

Coupling hose threads for class AA. Coupling hose threads for class AA shall be either NH, NSPM in accordance with FED-STD-H28/10, or NPSH in accordance with ASME B1.20.1 also refer to A-A-59614 and table III, requires a gasket seal.

**NOTE:** NH, NPSH, and NSPM threads are not interchangeable.

Hose clamps. Hose clamps shall be in accordance with A-A-52506, see figure 2 for hose clamp types and designators.

Hose clamps and ferrules. Two (2) hose clamps or compression ferrules shall be furnished for each coupling assembly.

Hose clamps and compression ferrules installation. Hose clamps or ferrules shall not extend closer than .062 inches to the end of the shank.

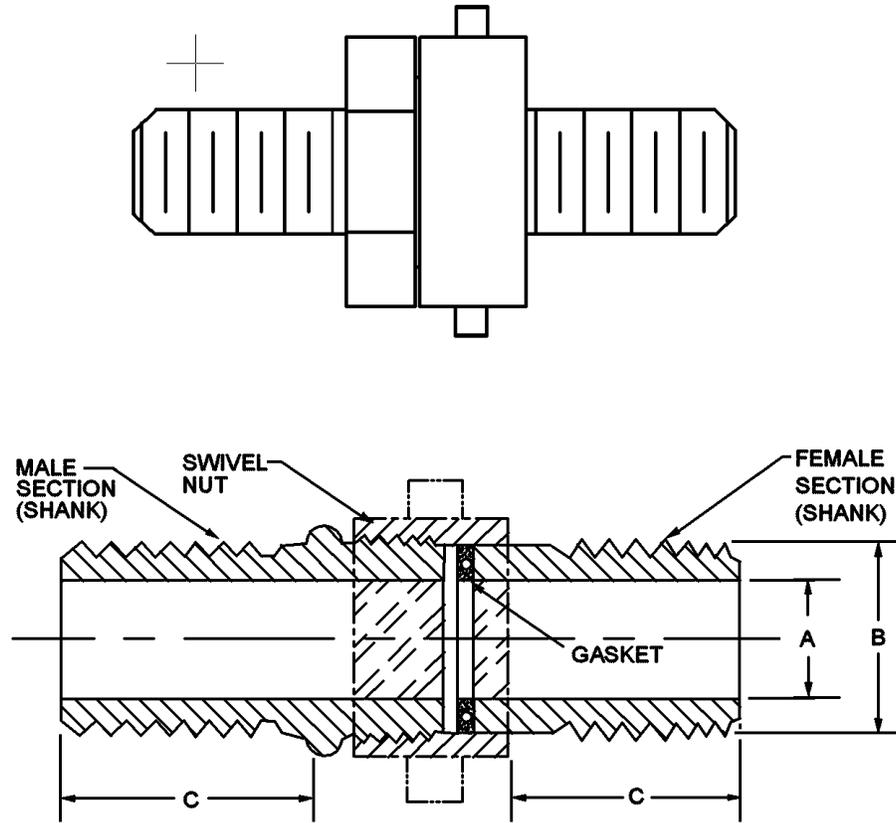
Compression ferrule. Compression ferrules shall be in accordance with A-A-59614, see table V for material designators.

TABLE V. Compression ferrule material designators.

Designator	Material
CA	Copper alloy (brass)
R	Corrosion resistant steel (CRES)
Z	Zinc-coated steel

Pin dimensions. The pin height and diameter shall be as required to accommodate the appropriate standard spanner wrench.

Tightening provisions. Wrenching surfaces may be octagon or hexagon and shall be located on the male coupling half when applicable.



Hose size	C min.
1.500	1.625
2.000	2.000
2.500	2.500
3.000	3.125
4.000	3.750
6.000	4.625

NOTES.

1. Dimension A shall be sized so as not to restrict the free flow of the hose attached.
2. Dimension B shall be as required to accommodate the hose specified.
3. Dimension C shall be as required to meet the pull-off and leakage requirements and to accommodate the required hose clamp(s) or ferrule(s).

FIGURE 1. Style 2, type I, class A or AA couplings.

A-A-59614/2A

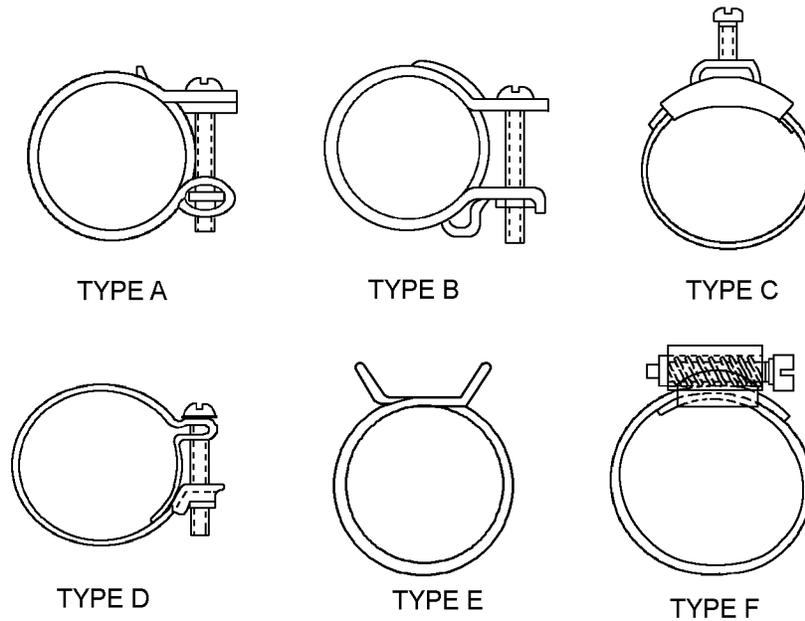


FIGURE 2. Hose clamp types.

NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See classification information for PIN format example.

Source of documents.

COMMERCIAL ITEM DESCRIPTIONS

- A-A-52506 - Clamps, Hose
- A-A-59614 - Coupling Assembly, Hose (Garden, Water, and Water Suction)

STANDARDS

- FED-STD-H28/10 - Screw-Thread Standards for Federal Services Section 10 Hose Coupling and Fire Hose Coupling Screw Threads

(Copies of these documents are available online at <http://quicksearch.dla.mil>.)

Other Publications

ASME INTERNATIONAL

- ASME B1.20.1 - Pipe Threads, General Purpose (Inch)

(Copies of these documents are available online at <http://www.asme.org> or from the ASME International, Three Park Avenue, New York, NY 10016-5990.)

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

<u>MFR's CAGE</u>	<u>MFR's name and address</u>
1U339	Labarge Products, Inc. 2900 Brannon Avenue St. Louis, MO 63139 Phone number: 1-314-776-2900 Fax number: 1-314-776-6444 <a href="mailto:sales@whsmithco.com">sales@whsmithco.com</a> <a href="http://www.labargepro.com">www.labargepro.com</a>
30659	Moon American Inc. 167-B SW Cutoff Worcester, MA 01604 Phone number: 1-508-798-8887 Fax number: 1-508-798-7839 <a href="mailto:sales@moon-american.com">sales@moon-american.com</a> <a href="http://www.moon-american.com">www.moon-american.com</a>
72661	Dixon Valve & Coupling Co 800 High Street Chestertown, MD 21620 Phone number: 877-963-4966 <a href="mailto:Sales@dixonvalve.com">Sales@dixonvalve.com</a> <a href="https://www.dixonvalve.com/">https://www.dixonvalve.com/</a>

Part number (P/N) supersession data. These CID specification sheet PINs supersede the following MFR's P/N's as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

A-A-59614/2A

TABLE VI. CID PIN to MFG P/N supersession data.

CID PIN	MFG CAGE	MFG's PIN <sup>1/</sup>	Size	Material
AA596141WS*-2A-16	72661	CAB150	2.000	Aluminum with brass nut
AA596141WS*-2A-20	72661	CAB 200	2.500	Aluminum with brass nut
AA596141WS*-2A-24	72661	CAB 250	3.000	Aluminum with brass nut
AA596141WS*-2A-32	72661	CAB 300	4.000	Aluminum with brass nut
AA596141WS*-2A-48	72661	CAB 400	6.000	Aluminum with brass nut
AA596141WS*-2B-10	72661	CBB125	1.250	Brass
AA596141WS*-2B-12	72661	CCB150	1.500	Brass
AA596141WS*-2B-16	72661	CCB 200	2.000	Brass
AA596141WS*-2B-20	72661	CCB 250	2.500	Brass
AA596141WS*-2B-24	72661	CCB 300	3.000	Brass
AA596141WS*-2B-32	72661	CCB 400	4.000	Brass
AA596141WS*-2F-08	72661	S33	1.000	Iron
AA596141WS*-2F-12	72661	S63	1.500	Iron
AA596141WS*-2F-16	72661	S78	2.000	Iron
AA596141WS*-2F-20	72661	S93	2.500	Iron
AA596141WS*-2F-24	72661	S111	3.000	Iron
AA596141WS*-2F-32	72661	S123	4.000	Iron
AA596141WS*-2F-40	72661	S168	5.000	Iron
AA596141WS*-2F-48	72661	S183	6.000	Iron
AA596141WS*-2G-08	72661	SB33	1.000	Iron with brass nut
AA596141WS*-2G-12	72661	SB63	1.500	Iron with brass nut
AA596141WS*-2G-16	72661	SB78	2.000	Iron with brass nut
AA596141WS*-2G-24	72661	SB93	3.000	Iron with brass nut
AA596141WS*-2G-32	72661	SB123	4.000	Iron with brass nut
AA596141WS*-2G-40	72661	SB168	5.000	Iron with brass nut
AA596141WS*-2G-48	72661	SB183	6.000	Iron with brass nut

<sup>1/</sup> The manufacturer's P/N shall not be used for acquisition to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph of A-A-59614.

Part number (P/N) supersession data. These CID PINs supersede the following Federal specification part numbers as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE VII. P/N supersession data.

PIN	Superseded P/N	MFR's CAGE	MFR's P/N <sup>1/</sup>	NSN
AA596141WSZ-2F-20	WWC624-1W-2-20	72661	S93	4730-00-926-4234

<sup>1/</sup> The manufacturer's P/N shall not be used for procurement to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements see A-A-59614.

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

MILITARY INTERESTS:

Custodians:

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

Review activities:

Navy - SA  
Air Force - 71

CIVIL AGENCY COORDINATING ACTIVITY:

GSA-FSS

Preparing activity:  
DLA - CC

(Project 4730-2015-008)

NOTE: The activities listed above were interested in this document as 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/>.