

INCH-POUND

A-A-59614/4A

18 March 2015

SUPERSEDING

A-A-59614/4

13 January 2014

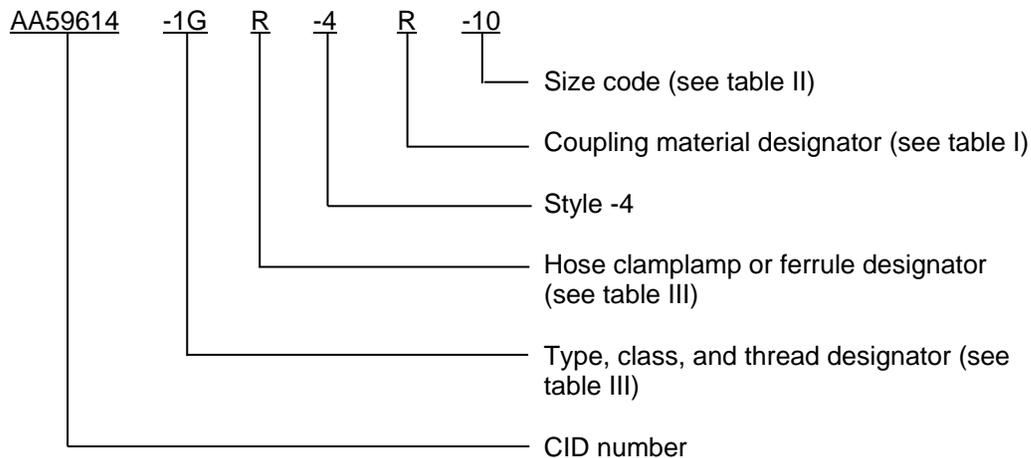
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

COUPLING ASSEMBLY, HOSE (WATER AND WATER SUCTION),
LONG SHANK WITH PIN LUG SWIVEL, STYLE 4, TYPE I

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.



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Construction. Unless otherwise specified, style 4, 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 NPT for male coupling and NPSM for the female coupling 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. Six Hose clamps or compression ferrules (outside crimp) three for each male and female section.

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

TABLE I. Coupling material.

Material designator	Material	Plating	Seal
B	Plated steel - Brass nut	Zinc	Leather
R	CRES - CRES nut	---	Leather
S	Plated steel- iron nut	Zinc	PTFE
U	CRES- iron nut	---	PTFE

Class AA couplings. When attached to hose, class AA couplings shall be able to withstand an internal hydrostatic pressure of 300 psi for size 1.250 inch, 250 psi for sizes 1.250 and 1.500 inch, 200 psi for sizes 2.000 through 4.000 inch for at least one minute without showing any signs of leakage.

TABLE II. Size codes for class AA. 1/

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

1/ The size indicates the nominal size of the coupling to fit the hose inside diameter (ID). For example, size .500 is for a coupling to fit the .500 inch nominal ID hose.

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

Type, class, and thread designator	Class (see table II)	Hose clamp type designator (see figure 2)	Compression ferrule designator (see table V)
1W	AA	A, B, C, D, E, or F	CA, R, or Z

Coupling hose threads for class AA. Coupling hose threads for class AA shall be NPT (male coupling) and NPSM (Female Coupling) in accordance with FED-STD-H28/10 also refer to A-A-59614 and table III, requires a gasket seal.

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

Hose clamps and compression ferrules. Six (6) hose clamps or compression ferrules shall be furnished for each coupling assembly.

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

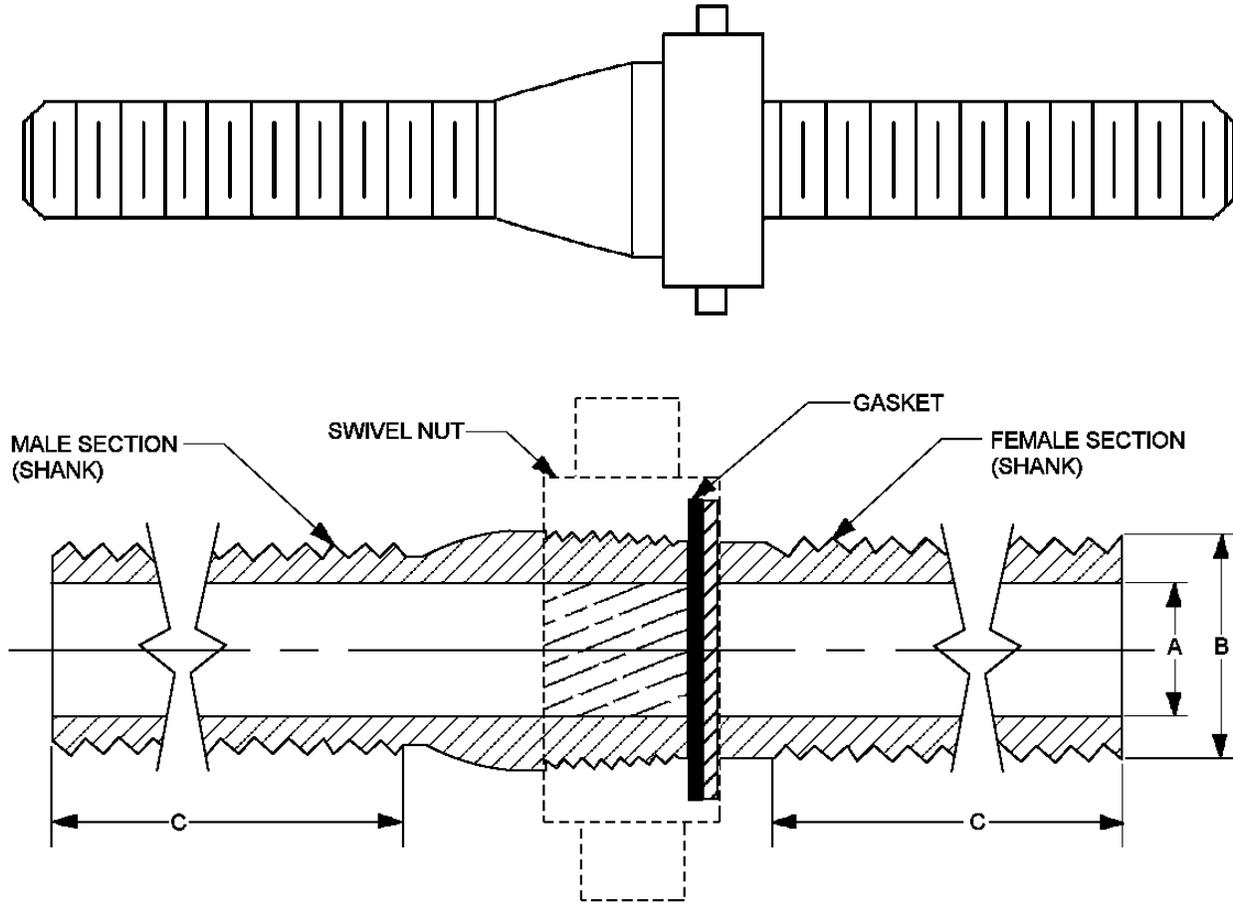
Compression ferrule. Compression ferrules shall be in accordance with A-A-59614, see table V for material designators.

TABLE V. Ferrule material designators.

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

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

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Hose size	C min.
1.250	4.125
1.500	4.125
2.000	5.000
2.500	5.000
3.000	5.000
4.000	5.000

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 3 hose clamps or ferrules.

FIGURE 1. Style 4, type I, class AA couplings.

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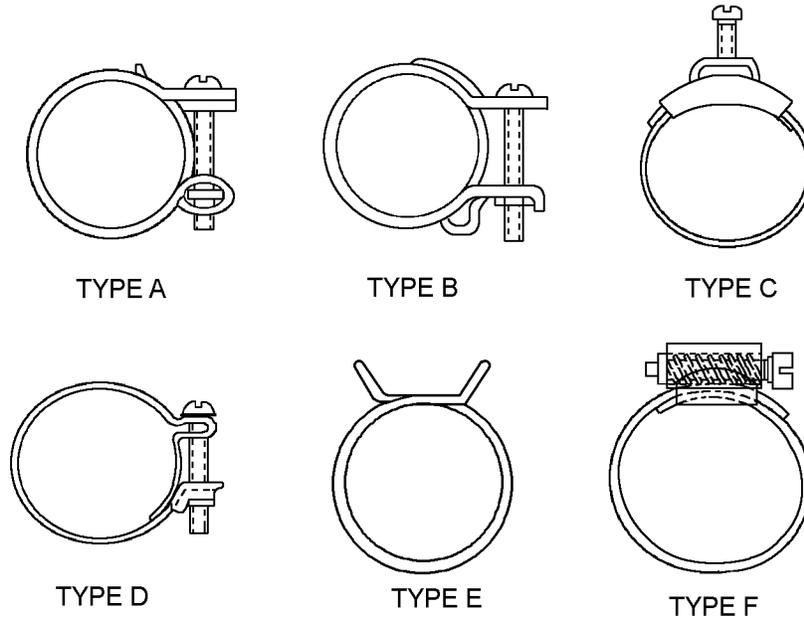


FIGURE 2. Hose clamp types.

MFR's P/N's shown are for information only to show material used to make a coupling assembly. The manufacturer PIN's shown in table VI are the individual coupling halves used to make an entire assembly. The Manufacturer at this time does not have commercial PIN's for coupling assemblies.

TABLE VI. P/N supersession data.

Hose ID size	MFG.s CAGE	NSPM female coupling PIN	Material	NPT Male coupling PIN	Material
1.250	72661	SDMP15	Plated steel- iron nut	SK16	Plated steel
1.500	72661	SDMP20	Plated steel- iron nut	SK21	Plated steel
2.000	72661	SDMP25	Plated steel- iron nut	SK26	Plated steel
2.500	72661	SDMP30	Plated steel- iron nut	SK31	Plated steel
3.000	72661	SDMP35	Plated steel- iron nut	SK36	Plated steel
4.000	72661	SDMP40	Plated steel- iron nut	SK46	Plated steel
1.250	72661	SD15	Plated steel - Brass nut	SK16	Plated steel
1.500	72661	SD20	Plated steel - Brass nut	SK21	Plated steel
2.000	72661	SD25	Plated steel - Brass nut	SK26	Plated steel
2.500	72661	SD30	Plated steel - Brass nut	SK31	Plated steel
3.000	72661	SD35	Plated steel - Brass nut	SK36	Plated steel
4.000	72661	SD40	Plated steel - Brass nut	SK46	Plated steel
1.500	72661	RSHR20	CRES - CRES nut	SK21	Plated steel
2.000	72661	RSHR25	CRES - CRES nut	RDK26	CRES
2.000	72661	RSDM35	CRES- iron nut	RDK26	CRES
3.000	72661	RSDM25	CRES- iron nut	RSK36	CRES

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 DESCRIPTION

- 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>.)

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.)

MFR's CAGE

72661

MFR's name and address

Dixon Valve & Coupling Co
800 High Street
Chestertown, MD 21620
Phone number: 877-963-4966
Sales@dixonvalve.com
<https://www.dixonvalve.com/>

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.

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 4730-2015-010)

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/>.