

INCH-POUND

A-A-59614B

18 March 2015

SUPERSEDING

A-A-59614A

12 January 2014

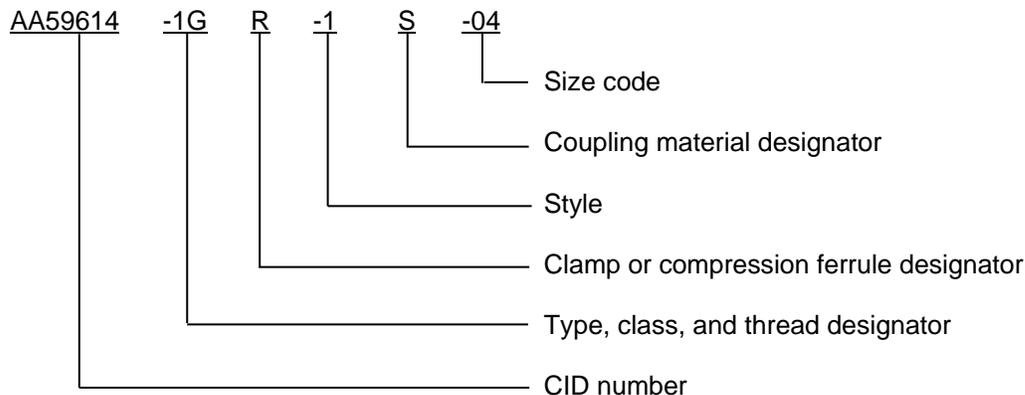
## COMMERCIAL ITEM DESCRIPTION

### COUPLING ASSEMBLY, HOSE (GARDEN, WATER, AND WATER SUCTION)

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

1. SCOPE. This commercial item description (CID) covers the general requirements for couplings used with garden, water, and water suction hose. Requirements for specific coupling assemblies are covered in the individual CID specification sheets. Coupling assemblies covered by this CID are intended for commercial/industrial applications.

2. CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This CID uses a classification system which is included in the PIN as shown in the following example (see 7.1).



See applicable specification sheets for type, class, thread, style, and size information.

Comments, suggestions, or questions on this document should be addressed to: DLA Land and Maritime, Attn: VAI, P.O. Box 3990, Columbus, Ohio, 43218-3990 or emailed to [FluidFlow@dla.mil](mailto:FluidFlow@dla.mil). Since contact information can change, you may want to verify the currency of this address information using ASSIST Online Database at <https://assist.dla.mil>.

AMSC N/A

FSC 4730



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2.1 Type, threads, class, styles, and size. The coupling assemblies are of the following types, classes, styles, and sizes as specified in 2.2, 2.3, and 2.4.

2.2. Type I - Male section shall have either lugs or wrench flats, female swivel shall have rocker lugs, pin lugs, or knurled. Male and female ends are ribbed shank, requires either hose clamps (see 3.8) or ferrules (see 3.9).

Style 1 - Short shank with octagon or hex swivel, see A-A-59614/1.

Style 2 - Short shank with pin lug swivel, see A-A-59614/2.

Style 3 - Long shank with octagon or hex swivel, see A-A-59614/3.

Style 4 - Long shank with pin lug swivel, see A-A-59614/4.

2.2.1 Type I, class A or AA threads, see 3.11:

Coupling hose threads shall be either NH (American Standard Fire Hose Coupling Thread, National Hose Thread, National Standard Thread), or NPSH (American Standard Straight Pipe for Hose Coupling, National Pipe Straight Hose) in accordance with FED-STD-H28/10 or NPSM (Straight Mechanical Pipe Thread) in accordance with ASME B1.20.1.

NOTE: NH, NPSH, and NPSM threads are not interchangeable, see 3.11.

2.2.2 Type I classes:

Class A - Garden hose, see table I for available hose sizes. All threads shall be 3/4 garden hose thread (GHT). Class A is not applicable to A-A-59614/2.

Class AA - Water hose, see table I for hose available sizes. Threads shall be NH, or NPSM.

TABLE I. Size codes for type I, class A and AA. 1/

PIN size code	Class A size	Class AA size
-04	.500	—
-05	.625	—
-06	.750	.750 2/
-08	—	1.000
-10	—	1.250
-12	—	1.500
-16	—	2.000
-20	—	2.500
-24	—	3.000
-28	—	3.500
-32	—	4.000
-34	—	4.500
-40	—	5.000
-48	—	6.000

1/ The size indicates the nominal size of the coupling to fit the hose with that inside diameter (ID). For example, size 1.500 is for a coupling to fit the 1.500 inch nominal ID hose of A-A-59657.

2/ Class AA -06 size only threads can be 3/4 GHT, NH, NPSH or NPSM.

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2.3 Type II - Octagon, ridged, or knurled (swivel nut only), requires either hose clamps (see 3.8) or compression ferrules (see 3.9).

Style 5 - Expansion shank, see A-A-59614/5.

Style 6 - Compression ferrule, see A-A-59614/6.

2.3.1 Threads for type II, class A, see 3.11:

Threads for class A shall be 3/4 GHT or NHR (Garden Hose rolled) in accordance with FED-STD-H28/10 or NH (cut).

Threads for class A shall be NHR (rolled) in accordance with FED-STD-H28/10 when design of the coupling is of thin material that will not permit cut-threads and still meet the pull and proof tests of A-A-59614, see 3.12.

Couplings designed of thick material:

Female section, swivel nut, threads shall be NH threads.

Male shank threads shall be NH (cut or cast) threads.

2.3.2 Threads for type II, class A:

Swivel nut, female section, threads shall be NHR or NH threads.

Male shank threads shall be NH (cut or cast) threads.

2.3.3 Type II classes:

Class A - Garden hose, see table II for available sizes.

TABLE II. Size codes for type II, class A. <sup>1/</sup>

PIN size code	Class A size
-04	.500
-05	.625
-06	.750

<sup>1/</sup> The size indicates the nominal size of the coupling to fit the hose with that inside diameter (ID). For example, size 1.500 is for a coupling to fit the 1.500 inch nominal ID hose of A-A-59657.

2.4 Type III - Rocker lugs pin lugs, or long handle swivel requires expansion rings (see 3.7). Note lugs may be located on swivel nut only or both male and female section when specified.

Style 7 - Rocker lug swivel, see A-A-59614/7.

Style 8 - Pin lug swivel, see A-A-59614/8.

Style 9 - Long handle swivel, see A-A-59614/9.

2.4.1 Threads type III class B, see 3.11:

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Threads shall be either NH or NPSH in accordance with FED-STD-H28/10.

NOTE: NH and NPSH threads are not interchangeable, see 3.11.

2.4.2 Type III, classes:

Class B - Water suction hose, see table III for available sizes.

NOTE: These coupling assemblies require details about the hose being used. User must specify the hose jacket type, Single jacket collapsible hose "SJ" Double jacketed collapsible hose "DJ", Hard rubber hose "HR", Soft suction hose SS, or Hard suction hose "HR", and the outside diameter (OD) of the hose. A coupling that is designed for a hose with a nominal ID of 1.50 inches may have an OD of 1.94, 2.03 inches etc. depending on the construction of the hose. This is required so the correct bowl can be selected when assembling the hose assembly.

TABLE III. Size codes for type II, class B. 1/

PIN size code	Class B size
-12	1.500
-16	2.000
-20	2.500
-24	3.000
-28	3.500
-32	4.000

1/ The size indicates the nominal size of the coupling to fit the hose with that inside diameter (ID). For example, size 1.500 is for a coupling to fit the 1.500 inch nominal ID hose of A-A-59657.

Special tooling. Internally expanded couplings requires special tooling to attach couplings to hose. All coupling shall come complete with expansion rings, swivel and tail washers.

3. SALIENT CHARACTERISTICS.

3.1 Interface and physical dimensions. Coupling assemblies supplied to this CID shall be as specified on the applicable CID specification sheet.

3.2 CID specification sheet. The family of coupling assemblies shall be in accordance with the requirements specified herein and the applicable CID specification sheet. In the event of a conflict between this general CID and the applicable CID specification sheet, the latter shall govern.

3.3 Materials. Materials used shall be as specified herein. However, materials not specified herein shall be of a quality that will enable the coupling assembly to meet the requirements of this CID.

3.4 Interchangeability. Parts having the same classification under a specific contract shall be functionally and dimensionally interchangeable.

3.5 Design. Couplings shall consist of the various components specified in the individual CID sheets. Components of the coupling shall not be mixed in the sense of dissimilar metals that will be subject to galvanic corrosion when the coupling sections are connected and a flow is produced through the hose and coupling assembly see 3.12.1.

3.6 Swivel nuts. Swivel nuts shall be of the same material as the male and female sections or of other suitable material that is compatible with and will not cause galvanic action in the coupling and shall meet the requirements of the specification sheet.

3.7 Expansion rings. Expansion rings for type III couplings shall be made from seamless copper alloy (brass) tubing. Expansion rings shall be sized for the particular application specified to prevent pull-off and leakage.

3.8 Hose clamps for type I couplings. Hose clamps shall be in accordance with A-A-52506 types A through F.

3.9 Ferrules. Ferrules for type I, styles 1 and 2, or type II couplings shall be made from sheet, tubing, or locking straps of copper alloy (brass), stainless steel, or zinc-coated steel.

3.10 Gaskets. Gaskets shall be made of natural or synthetic rubber, a combination of these materials or polyvinyl chloride. Gaskets shall be of nominal size for the specific coupling and shall be the standard commercial size and shall not fall out of the coupling when the two sections are disconnected.

3.11 Thread descriptions. Threads shall be of the following types:

a. Type I and type III couplings threads shall be of the following types:

- (1) NH threads in accordance with FED-STD-H28/10.
- (2) NPSH threads in accordance with FED-STD-H28/10.
- (3) NPSM threads in accordance with ASME B1.20.1.

b. Threads for type II, class A couplings shall be of the following types:

- (1) GHT for specified sizes.
- (2) NHR is for standard garden hose coupling threads where the design utilizes thin walled material which is formed to the desired thread. These coupling are made of thin material that will not permit cut-threads.
- (3) Threads shall be NH (cut) on the swivel nut for the female section and NH (cut or cast) on the male shank for type II, class A couplings designed of thick material.

3.12 Performance requirements.

3.12.1 Hose. Coupling assemblies are intended to be used with water hose in accordance with A-A-59567 at pressures up to 150 psig, garden hose in accordance with A-A-59270 at pressures to 75 psig, and water suction hose in accordance with A-A-59566 up to 100 psi and at zero psi absolute.

3.12.2 All couplings shall be able to withstand a 150 lb load pull for at least one minute.

3.12.3 Couplings shall meet the hydrostatic proof pressure requirements specified in the individual slash sheets for the hoses listed in [3.12.1](#).

3.12.4 Type II, class B couplings shall meet the hydrostatic proof pressure and vacuum requirements specified in A-A-59614/7, A-A-59614/8, or A-A-59614/9 as applicable using water suction hose A-A-59566, see [3.12.1](#).

3.13 Finish. All cast surfaces shall be free of burrs. Type I castings shall be a uniform annular groove around the periphery of the shanks.

3.13.1 Steel couplings. Steel couplings shall be zinc coated, after threading.

3.14 Workmanship. Couplings shall be processed in such a manner as to be uniform in quality and shall be free from other defects that will affect life, serviceability, or appearance.

3.15 Recycled, recovered, environmentally preferable, or biobased materials. Recycled, recovered, environmentally preferable, or biobased materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.15 Marking. Packaging for the couplings supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN. (NOTE: The part number marked on the unit pack shall be the CID PIN.)

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

7.2 Environmentally preferable material. Environmentally preferable materials should be used to the maximum extent possible to meet the requirements of this specification. As of the dating of this document, the U.S. Environmental Protection Agency (EPA) is focusing efforts on reducing 31 priority chemicals. The list of chemicals and additional information is available on their website <http://www.epa.gov/osw/hazard/wastemin/priority.htm>. Included in the EPA list of 31 priority chemicals are cadmium, lead, and mercury. Use of these materials on the list should be minimized or eliminated unless needed to meet the requirements specified herein (see Section 3).

7.3 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these coupling assemblies to DLA Land and Maritime under the Parts Management Advisory Team (PMAT), CAGE code 58536 should be used.

7.4 Source of documents.

COMMERCIAL ITEM DESCRIPTION

A-A-59270	-	Hose and Hose Assemblies, Non-Metallic (Rubber, Plastic)
A-A-52506	-	Clamps, Hose
A-A-59614/1	-	Coupling Assembly, Hose (Garden, Water, and Water Suction), Short Shank with Octagon or Hex Swivel, Type I, Style 1

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- A-A-59614/2 - Coupling Assembly, Hose (Garden, Water, and Water Suction), Short Shank with Pin Lug Swivel, Type I, Style 2
- A-A-59614/3 - Coupling Assembly, Hose (Garden, Water, and Water Suction), Long Shank with Octagon or Hex Swivel, Type I, Style 3
- A-A-59614/4 - Coupling Assembly, Hose (Water and Water Suction), Long Shank with Pin Lug Swivel, Style 4, Type I
- A-A-59614/5 - Coupling Assembly, Hose (Garden and Water), Expansion Shank, Type II, Style 5
- A-A-59614/6 - Coupling Assembly, Hose (Garden and Water), Compression Ferrule or Hose Clamp, Type II, Style 6
- A-A-59614/7 - Coupling Assembly, Hose (Water and Water Suction), Rocker Lug Swivel, Type III, Style 7
- A-A-59614/8 - Coupling Assembly, Hose (Water and Water Suction), Pin Lug Swivel, Type III, Style 8
- A-A-59614/9 - Coupling Assembly, Hose (Water and Water Suction), Long Handle Swivel, Type III, Style 9
- A-A-59657 - Hose and Hose Assemblies, Rubber (Yarn or Fabric Reinforced) Water Service
- A-A-59566 - Hose, Rubber, and Hose Assemblies, Rubber, Smooth Bore, Water Suction and Discharge

## FEDERAL STANDARD

- FED-STD-H28/10 - Hose Coupling and Fire Hose Coupling Screw Threads

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

## FEDERAL REGULATIONS

- FAR - Federal Acquisition Regulations (FAR)

(Copies of this document are available online at <http://www.acquisition.gov/comp/far/index.html>.)

## 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.)

7.5 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Type, style, class, and thread of coupling required (see 2.1).
- c. Size of couplings required (see 2.1).
- d. Material required for coupling.
- e. Packaging requirements.

7.6 Government users. To acquire information on obtaining these couplings from the Government inventory system, contact DLA Land and Maritime, ATTN: VAI, P.O. Box 3990, Columbus, OH 43218-3990, or telephone (614) 692-0565.

7.7 Subject term (key words) listing.

Compression ferrule  
Expansion ring  
Hex  
Knurled  
Long handles  
Octagon  
Pin lug  
Ribbed shank  
Rocker lug  
Swivel nut

7.8 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 4730-2015-006)

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/>.