

INCH-POUND

A-A-59614A

12 January 2014

SUPERSEDING

A-A-59614

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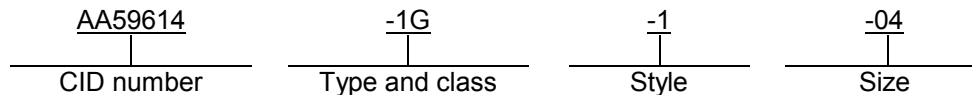
## COMMERCIAL ITEM DESCRIPTION

## 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 sheet for type and class, style, and size information.

2.1 Type, Class, Styles and Size. The coupling assemblies are of the following types, classes, styles, and sizes as specified below (see 7.1):

Type I - Ribbed shank.

Style 1 - Short shank with octagon or hex swivel.

Style 2 - Short shank with pin lug swivel.

Style 3 - Long shank with octagon or hex swivel.

Style 4 - Long shank with pin lug swivel.

Class A - Garden hose.

Sizes - .50, .625, and .75 inch (nominal).

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>.

A-A-59614A

Class AA - Water hose.

Sizes - .75, 1.00, 1.25, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00, and 6.00 inches (nominal).

Type II - Expansion shank or compression ferrule.

Style 5 - Expansion shank.

Style 6 - Compression ferrule.

Class A - Garden hose.

Sizes - .50, .625, and .75 inch (nominal).

Class AA - Water hose.

Sizes - .50, .625, .75, and 1.00 inch (nominal).

Type III - Expansion ring.

Style 7 - Rocker lug swivel.

Style 8 - Pin lug swivel.

Style 9 - Long handle swivel.

Class AA - Water hose.

Sizes - 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00, and 6.00 inches (nominal).

Class B - Water suction hose.

Sizes - 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00, and 6.00 inches (nominal).

### 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 specification sheet. 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 7.6).

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.

## A-A-59614A

3.7 Expansion rings. Unless otherwise specified (see 7.5), 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 Ferrules. Unless otherwise specified (see 7.5), ferrules for styles 1 and 2, type I and for type II couplings shall be made from sheet, tubing, or locking straps of copper alloy (brass), stainless steel, or zinc-coated steel.

3.9 Gaskets. Unless otherwise specified (see 7.5), 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.

3.10 Threads. Threads as specified (see 7.5), shall be NH or NPSH of FED-STD-H28/10 for type I and type III couplings. Threads for type II, class A couplings shall be NHR (rolled) of FED-STD-H28/10 when design of the coupling is of thin material that will not permit cut-threads and still meet the requirements of 3.11. 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 and for type II, class AA couplings.

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

3.12 Finish. All non-mating surfaces shall be made smooth by grinding, polishing, shot blasting, sand blasting, or wire brushing and shall be free of burrs. All mating and gasket surfaces shall be 125  $\mu$ m rms finish or smoother. On all castings, the external corrugations shall be a uniform annular groove around the periphery of the shanks and shall have a clean parting line.

3.12.1 Zinc-base alloy couplings. Zinc-based alloy couplings shall have zinc corrosion-resisting coating. When zinc corrosion-resisting can not meet the intended performance requirement, corrosion-resisting coating of chromium, cadmium, or chromate can be used at the option of the manufacturer, after threading.

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

3.13 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.

3.14 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable 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. 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

A-A-59614A

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. Environmentally 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 DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.4 Source of documents.

FEDERAL STANDARD

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

(Copies of these documents are available online at <https://assist.dla.mil/quicksearch/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

FEDERAL REGULATIONS

FAR - Federal Acquisition Regulations (FAR)

(Copies of this document are available online at <http://www.acquisition.gov/comp/far/index.html> from the U.S. Government Printing Office, 732 North Capital Street, NW, Washington D.C. 20401-0001.)

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

- a. CID document number, revision, and CID PIN.
- b. Type, style, and class of coupling required (see 2.1).
- c. Size of couplings required and particular hose application (see 2.1).
- d. Material required for coupling.
- e. Gasket recess required.
- f. Whether clamps or ferrules required for class A and AA couplings.
- g. Type of shank and ferrule required.

A-A-59614A

- h. Wrench surface required.
- i. Different expansion ring required.
- j. Different ferrules required.
- k. Different gasket required.
- l. Threads required.
- m. When coupling only is required, specify intended application and type and size hose to be used.
- n. Packaging requirements.

7.6 Hose. Coupling assemblies are intended to be used with water hose conforming to ZZ-H-601 at pressures up to 150 psig, garden hose conforming to A-A-59270 at pressures to 75 psig and water suction hose conforming to ZZ-H-561 at zero psi absolute.

7.7 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.

7.8 Subject term (key words) listing.

Ferrule  
Gasket  
Nut

7.9 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.

A-A-59614A

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 4730-2013-082)

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/>.