

INCH-POUND

A-A-59735

16 August 2002

SUPERSEDING

MIL-H-19034B

11 January 1988

COMMERCIAL ITEM DESCRIPTION

HOSE, METALLIC

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 Government requirements for flexible corrugated carbon steel and corrosion resisting steel bulk hose without couplings for internal combustion engine air intake and exhaust applications.

2. CLASSIFICATION.

2.1 Construction. Hoses shall be classified in two types dependent upon material:

Type I - Cold rolled carbon steel.

Type II - Corrosion resisting steel (CRES) grade 316L.

3. SALIENT CHARACTERISTICS

3.1 Construction. Hose shall consist of a helical or annular corrugated pressure carrier. The pressure carrier shall be close pitch, one ply construction. Corrugation shall be formed from a continuous strip or from welded strips.

3.2 Sizes and dimensions. Sizes and dimensions shall be as shown in table I.

3.3 Operating pressure. Hose shall withstand the operating pressure specified in table I while bent to the minimum specified bend radius without leaking.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Commander, Naval Sea Systems Command, ATTN: SEA 05Q, 1333 Isaac Hull Avenue, SE, Stop 5160, Washington Navy Yard DC 20376-5160.

FSC 4720

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

TABLE I. Hose parameters.

Size (nominal inside diameter)	Outside diameter (maximum)	Center line bend radius (minimum)	Wall thickness (minimum)		Maximum operating pressure gauge	
			Carbon Steel	CRES	Carbon Steel	CRES
Inches (mm)	Inches (mm)	Inches (mm)	Inch (mm)	Inch (mm)	lb/in ² (kPa)	lb/in ² (kPa)
2 (51)	3-1/4 (82)	22 (559)	0.024 (0.61)	0.026 (0.66)	15 (103)	15 (103)
2-1/2 (64)	4 (101)	24 (610)	.024 (0.61)	.026 (0.66)	15 (103)	15 (103)
3 (76)	4-1/2 (114)	26 (660)	.028 (0.71)	.026 (0.66)	15 (103)	15 (103)
3-1/2 (89)	5-1/2 (139)	27 (686)	.031 (0.79)	.033 (0.84)	15 (103)	15 (103)
4 (102)	6 (152)	28 (711)	.033 (0.84)	.033 (0.84)	15 (103)	15 (103)
5 (127)	6-7/8 (174)	30 (762)	.037 (0.94)	.033 (0.84)	15 (103)	15 (103)
6 (152)	7-3/4 (196)	32 (813)	.054 (1.37)	.033 (0.84)	15 (103)	8 (55)
8 (203)	9-3/4 (247)	38 (965)	.054 (1.37)	.033 (0.84)	15 (103)	8 (55)
10 (254)	12 (304)	42 (1067)	.054 (1.37)	.033 (0.84)	5 (34)	5 (34)
12 (305)	14-5/8 (371)	46 (1168)	.059 (1.50)	.045 (1.14)	5 (34)	5 (34)
14 (356)	16-3/8 (415)	50 (1270)	.059 (1.50)	.045 (1.14)	5 (34)	5 (34)
16 (406)	18-5/8 (473)	56 (1422)	.059 (1.50)	.045 (1.14)	5 (34)	5 (34)

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. The product provided shall meet the salient characteristics of this Commercial Item Description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. 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 Ordering data. Acquisition should specify the following:
a. Title, number, and date of this CID.
b. Type required.
c. Size required.
d. Length required.

7.2 Key words.

Hose
Metallic
Flexible
Engine Intake
Engine Exhaust

MILITARY INTERESTS:

Custodians:

Navy - SH
Air Force - 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA/FSS

Preparing Activity:

Navy - SH
(Project 4720-0263-001)

Reviewers:

Navy - SA, YD
Air Force - 71
DLA - CC