

MIL-C-19179B
AMENDMENT 3
23 May 1990
SUPERSEDING
AMENDMENT 2
6 February 1984

MILITARY SPECIFICATION

COUPLING ASSEMBLY, QUICK-DISCONNECT, FUEL

This amendment forms a part of Military Specification MIL-C-19179B, dated 22 March 1963, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

2.1, under "SPECIFICATIONS, FEDERAL": Delete reference to "P-S-661".

Under "SPECIFICATIONS, FEDERAL": Add:

- "P-D-680 - Dry Cleaning Solvent.
- QQ-C-390 - Copper Alloy Castings (Including Cast Bar).
- QQ-N-286 - Nickel-Copper-Aluminum Alloy, Wrought.
- TT-S-735 - Standard Test Fluids, Hydrocarbon."

PAGES 1 and 2

2.1, under "SPECIFICATIONS, MILITARY": Delete reference to "MIL-S-3136", "MIL-S-3950", "MIL-J-5161", "MIL-P-6906", "MIL-S-7742", "MIL-P-7936", "MIL-B-16522", "MIL-S-21195", and "MIL-D-70327".

2.1, under "SPECIFICATIONS, MILITARY": Add:

- "DOD-D-1000 - Drawings, Engineering and Associated Lists.
- MIL-S-8879 - Screw Threads, Controlled Radius Root With Increased Minor Diameter; General Specification for.
- MIL-S-83731 - Switches, Toggle, Unsealed and Sealed Toggle, General Specification for."

AMSC N/A

FSC 4730

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PAGE 2

2.1, under "STANDARDS, MILITARY": Delete and substitute:

"STANDARDS**MILITARY**

- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-130 - Identification Marking of US Military Property.
- MIL-STD-143 - Standards and Specifications, Order of Precedence for the Selection of.
- MIL-STD-794 - Parts and Equipment, Procedures for Packaging of.
- MIL-STD-889 - Dissimilar Metals.
- MS16625 - Rings, Retaining, Internal, Basic (Tapered Section Type).
- MS16656 - Switch, Toggle, Single Pole, Single Throw.
- MS20995 - Wire, Safety or Lock.
- MS26549 - Nipple, Quick Disconnect, 2-1/2 Inch, Pressure Fuel Servicing, Flange Type.
- MS26550 - Coupling, Quick Disconnect, 2-1/2 Inch, Pressure Fuel Servicing, Nozzle to Hose.
- MS26551 - Strainer, 2-1/2 Inch, Pressure Fuel Servicing.
- MS26552 - Nipple, Quick Disconnect, 2-1/2 Inch, Pressure Fuel Servicing, Open Flow, Wrench Type.
- MS26553 - Nipple, Quick Disconnect, 2-1/2 Inch, Pressure Fuel Servicing, With Check Valve, Wrench Type.
- MS29512 - Packing, Preformed, Hydrocarbon Fuel Resistant, Tube Fitting, "O" Ring.
- MS29513 - Packing, Preformed, Hydrocarbon Fuel Resistant, "O" Ring.
- MS29520 - Envelope Dimensions, Nozzle, Pressure Fuel Servicing Locking, Aircraft, Type D-1.
- MS33540 - Safety Wiring and Coiter Pinning, General Practices for.
- MS33588 - Nuts, Self-Locking, Aircraft, Design and Usage; Limitations of.
- MS35058 - Switch, Toggle One Pole, Sealed Toggle."

2.2: Delete in its entirety and substitute:

"2.2 Other publications. The following document forms a part of this specification to the extent specified herein. The issues of the documents which are indicated as DoD adopted shall be the issue listed in the current DoDISS and the supplement thereto, if applicable.

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

AMS 4631 - Aluminum Bronze Rods, Bars, and Forgings
90.5Cu-7.5Al-1.9S.

(Application for copies should be addressed to the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096.)"

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PAGE 3

* 3.1: Delete and substitute:

"3.1 First article. When specified (see 6.2), a sample shall be subjected to first article inspection (see 6.3) in accordance with 4.2.1."

3.3.1, lines 9 and 10: Delete "Standard MS33586" and substitute "MIL-STD-889".

Table I, column 1: Delete "NAS-669 (b)" and substitute "MS16625".

Under note (b), line 2: Delete "NAS-669" and substitute "MS16625".

Under note (c), line 1: Delete "NAS-669-225" and substitute "MS16625-1218".

3.3.2, lines 3 and 4: Delete "Specification MIL-J-5161".

Line 4: Delete "MIL-S-3136" and substitute "TT-S-735".

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Figure 1, under "Strainer Retaining Ring": Delete "NAS PART NO. 669-225" and substitute "MS16625-1218".

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Table II, lines 1 through 11: Delete and substitute:

"TABLE II. Metal requirements for components.

MS Part no.	Name	Material specification		
			Alloy	Temper
MS26549-1	Nipple	QQ-A-601	356	T6
		QQ-A-596	356	T6
		QQ-A-367	2014	T6
MS26549-2	Nipple	QQ-C-390		
MS26550-1	Coupling body	Same as for MS26549-1		
	Other metal parts	See 3.3.1		
MS26550-2	Coupling	Same as for MS26550-1		
MS26550-3	Coupling body	QQ-C-390		
	Ball	QQ-N-286 NiCu		
	Spring	QQ-W-423 Cres, type 302		
	Cam	AMS 4631 Aluminum Bronze		
	Other metal parts	QQ-C-390, alloy 958		
		Bronze or NiCu, as approved		"

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3.4: Delete sentences 3, 4 and 5 and substitute: "The coupling shall incorporate a primary and secondary lock. The secondary lock shall be visible in order to show that a positive lock has been attained. Both shall be easily operable by personnel wearing heavy winter gloves."

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3.6, lines 2 and 3: Delete "Specification MIL-S-7742" and substitute "MIL-S-8879".

3.8: Delete and substitute:

"3.8 Switches. For couplings containing electrical switches, the switch installation shall be explosion-proof, covered by a rubber boot and shielded by a protective guard. Switches shall be single pole single throw and shall be in accordance with MS16656 or MS35058 except that it shall be dimensioned so that the top of the switch toggle shall not extend above the switch guard to prevent abrasion of the rubber boot. The boot shall completely cover the switch lever to the mounting plate to prevent moisture from entering the mounting hole. A guard, similar to that shown on MS26550 shall protect the switch from external damage."

3.10, lines 7 and 8: Delete "Specification MIL-D-70327" and substitute "DOD-D-1000".

3.12 Delete and substitute:

"3.12 Identification of product."

3.12.1 Delete and substitute:

"3.12.1 Markings. Assemblies and parts shall be clearly and permanently identified by steel stamping or a permanently attached nameplate in accordance with MIL-STD-130. The following information shall be provided on each coupling and nipple.

Coupling (or nipple as applicable)
MS part no.
Manufacturers part no.
Manufacturers name or trademark
Serial no."

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* 4.1.1(a): Delete "Qualification" and substitute "First article".

* 4.2: Delete "Qualification" and substitute "First article".

* 4.2.1: Delete and substitute:

"4.2.1 Sampling instructions. The first article test samples shall consist of six complete assemblies of each manufacturer's part number upon which first article is desired. Three of these assemblies shall have been tested by the manufacturer in accordance with this specification prior to being forwarded to the testing activity. An opportunity shall be given the cognizant Government Inspector to witness the test, and his signature shall appear on the test report. These assemblies shall be accompanied by one complete set of detail and assembly drawings and a complete test report showing results of the manufacturer's tests. The drawings shall be in accordance with DOD-D-1000. The test report shall indicate conformance to all requirements of this specification, referring specifically to the applicable paragraphs in the specifications. Each first article test sample shall be plainly identified by securely attached tags clearly and durably marked with the following information, and shall be forwarded to the testing activity designated in the letter of authorization from the activity responsible for first article (6.3).

Sample for First article inspection.

(Submitted by _____ (name)
_____ (date)

for First article tests in accordance with the requirements of MIL-C-19179B (date) under authorization (reference letter authorizing the tests.)

Coupling, Assembly, Quick-Disconnect, Fuel
Manufacturer's Part No.
Name of manufacturer."

* 4.2.1.2, first sentence: Delete "Qualification" and substitute "first article".

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* Table III, title: Delete "Qualification" and substitute "First article".

* Table III, footnote 1: Delete "qualification" and substitute "First article".

* 4.2.2: Delete "Qualification" and substitute "First article".

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4.4.2, line 3: Delete "MIL-S-3136" and substitute "TT-S-735".

Line 5: Delete "Specification P-S-661" and substitute "P-D-680".

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5.1.1, line 5: Delete "Specification MIL-P-7936" and substitute "MIL-STD-794".

* 6.2: Add: "(d) First article inspection (see 3.1)."

* 6.3: Delete and substitute:

"6.3 First article. When first article inspection is required, the contracting officer should provide specific guidance to offerors whether the item should be a first article sample, and the number of items to be tested as specified in 4.2.1. The contracting officer should also include specific instructions in acquisition documents regarding arrangements for examinations, approval of first article test results, and disposition of first articles. Invitations for bids should provide that the Government reserves the right to waive the requirements for samples for first article inspection to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract. Bidders should not submit alternate bids unless specifically requested to do so in the solicitation."

* 6.3.1: Delete.

NOTE: The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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Review activity:
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