

MIL-F-20627B  
AMENDMENT 3  
19 December 1983  
SUPERSEDING  
AMENDMENT 2  
12 February 1976

MILITARY SPECIFICATION

FILTER ASSEMBLY AND FILTER ELEMENTS, FLUID  
PRESSURE (FOR ENGINES WITH LIQUID FUEL  
INJECTION SYSTEMS)

This amendment forms a part of Military Specification MIL-F-20627B dated 30 October 1962, and is approved for use by all Departments and Agencies of the Department of Defense.

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\* 2.1, under "SPECIFICATIONS, MILITARY": Delete reference to "MIL-F-16884" and add:

"MIL-C-7024 - Calibrating Fluid, Aircraft Fuel System Components."

2.1, under "STANDARDS, MILITARY": Add:

"MIL-STD-414 - Sampling Procedures and Tables for Inspection By Variables for Percent Defective."

PAGE 2

3.2.1.5: Add: "The filter case center tube shall include a device that will positively locate the installed element concentric with the filter case within plus or minus 0.125 inch. This centering device shall be made a permanent, non-removable part of the filter and shall be of such a design and have efficient clearance that the filter element will not be damaged when installed over the filter case center tube nor interfere with element operation."

PAGE 3

3.3.3: Delete and substitute:

"3.3.3 Differential pressure (element). When tested in accordance with 4.5.5, the elements shall be capable of withstanding a differential gage pressure of 100 ~~lb/in<sup>2</sup>~~ without evidence of permanent deformation or other damage."

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\* 4.2(b) and (1): Delete and substitute:

"(b) Calibration test fluid. Calibration test fluids required in the test methods shall conform to the following:

(1) Calibration fluid fuel oil in accordance with MIL-C-7024."

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4.4.2.3: Delete and substitute:

"4.4.2.3 Sampling for tests. Sample filter elements shall be selected from each lot in accordance with MIL-STD-414 at inspection level II as specified in 4.5.3 and at inspection level I as specified in 4.5.4. For each of these tests, the AQL shall be one percent defective. Preparation procedures as specified for media migration tests are not applicable to sampling tests. If so elected by the manufacturer, filter elements shall be batch or pot tested, that is, any number of elements may be installed in a multiple element filter vessel and tested simultaneously."

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Add as paragraph 4.5.4.2.1:

"4.5.4.2.1 Alternate method of contaminant feed. Solids contaminant may be added as a slurry, consisting of 4 gm AC Fine Dust and approximately 100 mL of test fuel. The slurry shall be Introduced ahead of the Moyno pump at 5 minute intervals until a minimum of 200 grams of contaminant has been added."

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\* 6.3 and 6.4: Delete and substitute 6.3 and 6.3.1:

"6.3 With respect to products requiring qualification, awards will be made only for products which are, at the time set for opening of bids, qualified for inclusion in Qualified Products List QPL-20627 whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. The activity responsible for the Qualified Products List is the Naval Sea Systems Command, Department of the Navy, Washington, DC 20362 and information pertaining to qualification of products may be obtained from that activity. Application for Qualification tests shall be made in accordance with "Provisions Governing Qualification SD-6" (see 6.3.1).

6.3.1 Copies of "Provisions Governing Qualification SD-6" may be obtained upon application to Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120."

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LAST PAGE

\* Specification Analysis Sheet: Delete and substitute address:

"COMMANDER  
NAVAL SEA SYSTEMS COMMAND (SEA 55Z3)  
DEPARTMENT OF THE NAVY  
WASHINGTON, DC 20362"

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, correction, 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 based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodians:

Army - AR  
Navy - SH  
Air Force - 99

Preparing activity:

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User activities:

Navy - MC  
Army - ME