

MIL-V-25675B  
 AMENDMENT 5  
16 DECEMBER 1987  
 SUPERSEDING  
 AMENDMENT 4  
 2 MAY 1972

## MILITARY SPECIFICATION

VALVES, CHECK, MINIATURE, HYDRAULIC,

AIRCRAFT AND MISSILE

This amendment forms a part of MIL-V-25675B, dated  
 13 May 1968, and is approved for use by all Departments  
 and Agencies of the Department of Defense.

PAGE 1

- \* 2.1 Delete "first sentence" and add: "Government documents".
- \* Add: 2.1.1 Specifications and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.
- \* Under SPECIFICATIONS, FEDERAL, delete "PPP-B-566", "PPP-B-591", "PPP-B-621", "PPP-B-636", "PPP-B-676", titles thereto and add: "PPP-B-636 Box, Shipping, Fiberboard"

Under SPECIFICATIONS, MILITARY, delete "MIL-E-5272" and title thereto. Add:  
 "MIL-H-83282 Hydraulic Fluid, Fire Resistant, Synthetic Hydrocarbon Base,  
 Metric,  
 NATO Code Number H-537."

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- \* Under STANDARDS, MILITARY, add: "MIL-STD-810 Environmental Test Method and Engineering Guidelines; and "MIL-STD-2073-1 DOD Material Procedure For Development And Application Of Packaging Requirements."
- \* 2.2 Delete and add: "2.2 Other publications. The following document(s) form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted shall be those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issue of documents not listed in the DODISS shall be the issue of the nongovernment documents which is current on the date of the solicitation.

Add boxed paragraph to bottom center of page:

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Oklahoma City Air Logistics Center/MMEDO, Tinker AFB OK 73145-5990 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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American Society For Testing And Materials (ASTM)

ASTM D3951 Packaging, Commercial

(Application for copies should be addressed to: ASTM, 1916 Race St, Philadelphia PA 19103.)

(Nongovernment standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)''

- \* Add: "2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained."
- \* 3.3 Add new sentence "Interference or press fit components shall not be the sole means for securing poppet spring and poppet in the valves. A possible means for securing these parts will be used."'

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3.4.1 Delete and add:

"3.4.1 Immersion. Valves containing nonmetallic materials shall conform to all performance requirements specified herein after being immersed for 72 hours in a fluid conforming to MIL-H-83282, or other fluid acceptable to the contracting activity, at a temperature of 450 +5<sup>0</sup>F (see 4.5.4)."

3.4.3 Delete the second sentence and add: "Starting with a system pressure of 3,000 psi and 200 percent rated flow (as defined by MS24423 and MS24593) in the test setup shown on figure 1, each cycle shall consist of subjecting the valve to surge flows for a minimum of 5 seconds in the free-flow direction and a minimum of 5 seconds in the reverse-flow direction (see 4.6.3)."

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- \* Add: "3.9 Recycled and reclaimed materials. Recycled and reclaimed materials shall be encouraged to the maximum extent possible without jeopardizing the intended end use of the item.
- \* Add: "4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material."

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4.3.1.1 Line 3 delete "'moving and nonmoving members"' and add: "all structural members."

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4.3.1.2 Line 3 delete \*'moving members" and add: "all structural members."

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4.5.1 Lines 2 and 3 delete "shall be as specified by the contracting activity " and add: "shall conform to MIL-H-83282 or other fluid acceptable to the contracting activity."

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4.6.3: (a) In the third sentence delete 1 "29 gpm" and add: "200 percent rated flow.\*'

(b) Delete the fourth sentence.

(C) In the fifth sentence after the words "'flow pattern"\* insert "described below".

(d) Subparagraph (b), last sentence: Delete and add: "The directional control valve handle shall be permitted to remain in this position until the hydraulic pressure drops from a minimum of 3,000 psi to the specified precharge in the accumulator or for a minimum time period of 5 seconds."

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Figure 1, In upper right-hand view delete "29 GPM" and add: "'200 PERCENT RATED FLOW."

PAGE 12

4.6.11 Line 13 delete "450+10°F" and add: "95° +15°F".

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Table V, In step 1, line 5, delete "Procedure XIV of MIL-E-5272"" and add: "MIL-STD-810, figure 514.1-IV, curve S, or figure 514.1-V, curve S."

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\* Delete Section 5 in its entirety and add:

Add :

"5. PACKAGING

5.1 Preservation. Preservation shall be level A, C, or Industrial, IAW MIL-STD-2073-1, as specified (see 6.2)

5.1.1 Level A.

5.1.1.1 Cleaning. Valves shall be cleaned in accordance with process C-1 or MIL-P-116.

5.1.1.2 Drying. Valves shall be dried in accordance with process D-4 of MIL-P-116.

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5.1.1.3 Preservation application. Preservative shall not be used.

5.1.1.4 Unit packaging. Unless otherwise specified by the contracting activity, each valve shall be packaged in quantity unit packs of one each in accordance with Method IA-8 of MIL-P-116. Each valve shall be placed in a PPP-B-636 Fiberboard container weather resistant, with sufficient cushioning material between bag and unit container of a type, density, and thickness to insure shock transmission does not exceed peak values in G's established for the valves when completed packs are subjected to the rough handling drop tests of MIL-P-116.

5.1.2 Level C. Each valve shall be clean, dry, and individually packaged in a manner that will afford adequate protection against corrosion, deterioration, and physical damage during shipment from supply source to the first receiving activity.

5.1.3 Industrial. The Industrial preservation of valve shall be in accordance with ASTM D3951.

5.2 Packing. Packing shall be level A, B, C, or Industrial as specified (see 6.2).

5.2.1 Level A. Valves packaged as specified in 5.1.1 shall be packed in shipping containers conforming to PPP-B-601, Styles A or B, Class overseas, unless otherwise specified by the contracting activity. Insofar as practical, exterior shipping container shall be of uniform shape, size, minimum tare and cube consistent with the protection required.

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5.2.2 Level B. Valves packaged as specified in 5.1.1 shall be packed in shipping containers conforming to PPP-B-636, class weather-resistant, unless otherwise specified by the contracting activity. Other requirements as specified in 5.2.1 apply.

5.2.3 Level C. Packing shall be applied which affords adequate protection during domestic shipment from the supply source to the first receiving activity for immediate use. This level shall conform to applicable carrier rules and regulations.

5.2.4 Industrial. The packaged valves shall be packed in accordance with ASTM D3951.

5.3 Marking. In addition to any other markings required by the contract or order (see 6.2), interior and exterior containers shall be marked in accordance with MIL-STD-129.

- \* 6.3 Delete "last sentence" and add: "The activity responsible for the Qualified Products List is OC-ALC/MMEDO, Tinker AFB OK 73145-5990, and information Pertaining to qualification of products may be obtained from that activity."

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- \* Delete "6.4" and "6.5."

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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 based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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