

INCH-POUND

MIL-A-5498D  
AMENDMENT 1  
1 June 1993

MILITARY SPECIFICATION

ACCUMULATORS, HYDRAULIC,  
CYLINDRICAL 3000 PSI,  
AIRCRAFT

This amendment forms a part of MIL-A-5498D, dated  
11 April 1988, and is approved for use by all  
Departments and Agencies of the Department of Defense.

PAGE 1

Delete "1.2" entirely and add "1.2 Part number. When this document is used  
for procurement of accumulators, part numbers will be in accordance with (IAW)  
those shown in Table II."

Under SPECIFICATIONS, FEDERAL, add "PPP-B-601 Boxes, Wood, Cleated Plywood".

Beneficial comments block line 3 delete "MMDO" and add "TICIA." Also delete  
"self-addressed."

PAGE 2

Under SPECIFICATIONS, MILITARY, delete "MIL-I-6866".

Under STANDARDS, MILITARY, add "MIL-STD-6866 Inspection, Liquid Penetrant."

PAGE 3

3.3.1 Line 1 delete "Specification sheet MIL-A-5498/1" and add "Figure 3 and  
Table II."

PAGE 4

3.6.1 Line 3 delete "M5498/1 (and dash number)" and add "Part number as taken  
from Table II."

PAGE 5

4.5 Line 1 delete "4.6" and add "4.7." Also change

AMSC N/A

1 of 5

FSC 1650

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

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"4.7.1" to "4.9.1"  
"4.7.2" to "4.9.2"  
"4.7.3" to "4.9.3"  
"4.7.4" to "4.9.4"  
"4.7.5" to "4.9.5"  
"4.7.6" to "4.9.6"  
"4.7.7" to "4.9.7"  
"4.7.8" to "4.9.8"  
"4.7.9" to "4.9.9"  
"4.7.10" to "4.9.10.1"

4.6 Change "4.7.8" to "4.9.8"  
"4.7.6.1" to "4.9.6.1"  
"4.7.5.1" to "4.9.5.1"  
"4.7.4" to "4.9.4"

4.8 Line 3 delete "MIL-A-5498" and add "Section 5 of this specification."

PAGE 7

4.9.5.1 Lines 8, 9, and 10, change "M5498/1-1" to "M5498-1", "M5498/1-3" to "M5498-3", and "M5498/1-6" to "M5498-6."

4.9.6 Line 2 change "4.7.6.1" to "4.9.6.1", "4.7.6.2" to "4.9.6.2", and "4.7.6.3" to "4.9.6.3."

4.9.6.1 Lines 5, 6, and 7 change "M5498/1-1" to "M5498-1", "M5498/1-3" to "M5498-3" and "M5498/1-6" to "M5498-6."

4.9.6.3 Line 2 change "4.7.6.2" to "4.9.6.2."

PAGE 8

4.9.8 Line 3 delete "MIL-I-6866" and add "MIL-STD-6866."

4.9.9 Line 1 change "4.7.10" to "4.9.10."

Delete section 5 entirely and add:

"5. PACKAGING

5.1 Preservation. Preservation shall be Level A, C, or Industrial in accordance (IAW) MIL-STD-2073-1 or ASTM D3951, as specified (see 6.3).

5.1.1 Level A.

5.1.1.1 Cleaning. Accumulators shall be cleaned IAW process C-1 of MIL-P-116.

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5.1.1.2 Drying. Accumulators shall be dried IAW process D-1 of MIL-P-116.

5.1.1.3 Preservative application. Preservative shall not be used.

5.1.1.4 Unit packaging. Unless otherwise specified by the contracting activity, each accumulator shall be packaged in weather resistant container, with sufficient cushioning material between bag and unit container of a type, density, and thickness to ensure shock transmission does not exceed peak values in G's established for the accumulator when completed packs are subjected to the rough handling drop tests of MIL-P-116.

5.1.2 Level C. Each accumulator shall be cleaned, dried, 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 the accumulator shall be IAW with ASTM D3951.

5.2 Packing. Packing shall be level A, B, C, or Industrial as specified (see 6.3).

5.2.1 Level A. Accumulator 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.

5.2.2 Level B. Accumulators 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 accumulator shall be packed IAW ASTM D3951.

5.3 Marking. In addition to any other markings required by the contract or order (see 6.3), interior and exterior containers shall be marked IAW MIL-SID-129.

Under 6. NOTES add: "(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)"

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6.3 Line 1 delete entirely and add "Acquisition requirements. Acquisition documents should specify the following:." Also line 3 delete entirely and add "(b) Part number as taken from Table II."

PAGE 10

6.4 Line 3 delete "(QPL NO.)" and add "QPL-5498." Lines 9 and 10 delete "(insert name and address of preparing activity)" and add "Oklahoma City Air Logistics Center/TICLA, Tinker AFB OK 73145-3037.)"

6.6 Delete entirely and add "6.6 Subject term (key word) listing. Accumulator, Fragmentation, Gas, Hydraulic fluid, Hydraulic system and Piston."

PAGE 13

Figure 3 delete "AND10050" and add "MS33649". Also delete "AND10050-5 and add "MS33649-5".

PAGE 15

TABLE II delete entirely and add new:

TABLE II. DIMENSIONS

PART NO	GAS VOL CU IN		TUBE SIZE REF	A +/- .062	B +/- .062	C +.000 -.031	D	E +.000 -.016	G MAX	H +.000 -.016
	MAX	MIN								
M5498-1	27	23	0.50	12.500	3.938	4.625	2.250	1.375	2.812	1.125
M5498-2	54	46	0.50	20.375	3.938	12.500	2.250	1.375	2.812	1.125
M5498-3	54	46	0.50	12.500	4.438	3.625	3.187	1.375	3.812	1.125
M5498-4	108	92	0.50	20.375	4.438	11.500	3.187	1.375	3.812	1.125
M5498-5	216	184	0.50	36.125	4.438	27.250	3.187	1.375	3.812	1.125
M5498-6	216	184	0.75	20.000	5.438	9.125	4.750	1.750	5.500	1.500
M5498-7	416	384	0.75	33.375	5.438	22.500	4.750	1.750	5.500	1.500

NOTE: THE GAS VOLUME IN THE TABLE DENOTES THE TOTAL GAS VOLUME OF THE ACCUMULATOR WITH THE PISTON BOTTOMED ON THE FLUID END OF THE ACCUMULATOR.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, THE TOLERANCES ARE +/-0.031.

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Custodians:

AIR FORCE	-99
NAVY	-AS
ARMY	-AV

Preparing Activity:

AIR FORCE	71
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Project Number:

1650-0505