

AEROSPACE STANDARD	AS7997™		REV. A	
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Motors, Aircraft Hydraulic, Constant Displacement General Specification For FSC 1650				

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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This document has been taken directly from U.S. Military Specification MIL-M-7997C and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-M-7997C. Any part numbers established by the original specification remain unchanged.

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- 1. SCOPE:
- 1.1 Scope:

This Specification covers constant displacement hydraulic motors, generally remotely mounted, using hydraulic fluid under pressure as the energy transfer medium for driving various accessories. Hydraulic motors shall be suitable for use in aircraft hydraulic systems conforming to and as defined in MIL-H-5440 and MIL-H-8891 as applicable.

1.2 Classification:

Aircraft constant displacement hydraulic motors shall be of the following types and classes, as specified (see 6.2):

	Range	Rated	
Type II	65°F (-54°C) to +160°F (71°C) 65°F (-54°C) to +275°F (135°C) 65°F (-54°C) to +390°F (200°C)	110°F (43°C) 225°F (107°C) 350°F (178°C)	
Class 1500. 1500 psi (103 Bar) rated inlet pressure Class 3000. 3000 psi (207 Bar) rated inlet pressure Class 4000. 4000 psi (276 Bar) rated inlet pressure			
Category A. Secondary. Secondary flight controls, winches, gun drives, constant speed drives, transfer packages, etc.			
Category B	Primary. Primary flight controls slats, etc. See Para 4.6.15 for primary motor endurance test r	utility and	