

(R) Aerospace Hydraulic and Pneumatic Specifications, Standards,  
Recommended Practices, and Information Reports

RATIONALE

This document is intended to be a reference list of active aerospace hydraulic and pneumatic specifications, standards, recommended practices and information reports. AIR737 was originally released in 1962. This revision F brings the document up to date with regards to an active document listing.

TABLE OF CONTENTS

1.	SCOPE.....	2
1.1	Purpose .....	2
2.	APPLICABLE DOCUMENTS.....	2
2.1	SAE Publications.....	2
2.2	U.S. Government Publications.....	2
2.3	Other Document Resources .....	2
3.	DOCUMENT LISTING .....	3
3.1	Alphabetical listing .....	3
3.2	Numerical Listing.....	15
4.	NOTES.....	21

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2012 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

**TO PLACE A DOCUMENT ORDER:** Tel: 877-606-7323 (inside USA and Canada)  
Tel: +1 724-776-4970 (outside USA)  
Fax: 724-776-0790  
Email: CustomerService@sae.org  
http://www.sae.org

SAE WEB ADDRESS:

**SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AIR737F>**

## 1. SCOPE

This SAE Aerospace Information Report (AIR) lists military and industry specifications, standards, recommended practices and information reports used in the design of aerospace hydraulic and pneumatic components and systems. It is intended as a supplement to specifications ARP4752, AS5440, and MIL-P-5518. Only those hardware standards specifically applicable to hydraulic or pneumatic components or systems are listed in this document.

### 1.1 Purpose

The purpose of this document is to provide a single document that lists active aerospace hydraulic and pneumatic specifications, standards, recommended practices and information reports.

## 2. APPLICABLE DOCUMENTS

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

### 2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

ARP4752 Aerospace – Design and Installation of Commercial Transport Aircraft Hydraulic Systems

AS5440 Hydraulic Systems, Military Aircraft, Design and Installation, Requirements For

### 2.2 U.S. Government Publications

Available from the Document Automation and Production Service (DAPS), Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6257, <http://assist.daps.dla.mil/quicksearch/>.

MIL-P-5518 Pneumatic Systems, Aircraft; Design, Installation, and Data Requirements for Department of Defense Index of Specifications and Standards

### 2.3 Other Document Resources

ANSI Publications – Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, [www.ansi.org](http://www.ansi.org).

ISO Publications – Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, [www.ansi.org](http://www.ansi.org).

### 3. DOCUMENT LISTING

#### 3.1 Alphabetical listing

8000 psi Hydraulic systems: Experience and Test Results	AIR4002
90° Swivel Nut Assembly, Adapter, Hose to Tube, Reusable, Hydraulic, Fuel and Oil Lines	MS27224
A Guide for the Selection of Quick-Disconnect Couplings for Aerospace Fluid Systems	AIR1047
Accessory Drive, Aircraft Engine Reference Chart	MS3336
Accumulator, Hydraulic, Cylindrical 3000 PSI, Aircraft	MIL-DTL-5498
Accumulator, Hydraulic, Cylindrical, Aircraft	ARP4379
Accumulator: Aircraft Flight Controls,	ARP1281
Accumulators, Ground, Hydro pneumatic Pressure	ARP763
Accumulators, Inspection of In-service Airborne	AIR4150
Actuation System Data Summary for Missiles and Launch Vehicles	AIR1855
Actuation Systems for Aircraft with Fly-by-Wire Flight Control Systems, Description of	AIR4253
Actuators, Aeronautical, Linear Utility Hydraulic	MIL-PRF-5503
Actuators, Mechanical, Geared Rotary, General Specification for	ARP4058
Adapter – Port Connection, Ring Locked	AS1986
Adapter Assembly, 45° Elbow, Swivel Flange to Hose	MS27056
Adapter Assembly, 90° Elbow, Swivel Flange to Hose	MS27058
Adapter Assembly, Flared, 45° Elbow, Tube to Hose with Swivel Nut	MS27055
Adapter Assembly, Flared, 45° Forged Elbow, Tube to Hose with Swivel Nut	MS27384
Adapter Assembly, Flared, 90° Elbow, Tube to Hose with Swivel Nut	MS27057
Adapter Assembly, Flared, 90° Forged Elbow, Tube to Hose with Swivel Nut	MS27060
Adapter Assembly, Flareless, 90° Elbow, Tube to Hose with Swivel Nut	MS27383
Adapter Assembly, Flareless, 90° Forged Elbow, Tube to Hose with Swivel Nut	MS27385
Adapter Assembly, Flareless, Straight Tube to hose with Swivel Nut	MS27381
Adapter Assembly, Reusable, Flexible Hose, Low Pressure	MIL-DTL-38726
Adapter Assembly, Straight, Swivel Flange to Hose	MS27054
Adapter, Flareless Tube to a Flared Tube	AS21900
Adapter, Flareless Tube to Flared Tube Precision Type	AS24405
Adapter, Flareless, Tube, Bulkhead and Universal to Flared Tube	AS21923
Adapter, Hose to Tube, Pipe and Flange, Reusable Hydraulic, Pneumatic, and oil Lines	MIL-DTL-5070
Adapter, Straight, Tube to Boss	AS21915
Adapter, Straight, Tube to Hose-Reusable, Hydraulic Pneumatic Fuel and Oil Lines	MS24587
Adapter Assembly, Flareless, 45° Elbow, Tube to Hose with Swivel Nut	MS27382
Aerospace – Application Guide for Hydraulic Power Transfer Units®	ARP1280
Aerospace – Design and Installation of Commercial Transport Aircraft Hydraulic Systems	ARP4752
Aerospace – Procedure for the Determination of Particulate Contamination in Hydraulic Fluids by the Control Filter Gravimetric Procedure	ARP785