



AEROSPACE INFORMATION REPORT

AIR737™

REV. G

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Superseding AIR737F

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

RATIONALE

This document has been revised following a Five-Year Review, removing cancelled documents and adding many new ones.

FOREWORD

The tables in this document were created automatically from a single database to ensure consistency and ease future updates, so the tables appear as completely revised.

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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.

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Full document details: SAE AIR737G

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Documents

Document Sharing Hub

1. SCOPE

This SAE Aerospace Information Report (AIR) lists military and industry specifications, standards, recommended practices, and information reports applicable to aerospace hydraulic and pneumatic systems and components.

1.1 Purpose

This document is intended as a supplement to AS5440, ARP4752, ARP4925, ARP6200, AS4941, AS8775, and related documents.

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 +1 724-776-4970 (outside USA), www.sae.org.

ARP4752	Aerospace - Design and Installation of Commercial Transport Aircraft Hydraulic Systems
ARP4925	Aerospace Design and Installation of Commercial Transport Helicopter Hydraulic Systems
ARP6200	Test Requirements and Means for Commercial Aircraft Hydraulic Systems
AS4941	Aerospace - General Requirements for Commercial Aircraft Hydraulic Components
AS5440	Hydraulic Systems, Military Aircraft, Design and Installation, Requirements For
AS8775	Hydraulic System Components, Aircraft and Missiles, General Specification For

2.2 U.S. Government Publications

United States Military Specifications and Standards (US MIL) - Copies of these documents are available online at <https://quicksearch.dla.mil>.

United States Department of Transportation (US DOT) - Copies of these documents are available online at <https://www.transportation.gov>.

2.3 Other Document Resources

AIA/NAS Publications - Copies of these documents are available online at <https://www.aia-aerospace.org>.

Airlines for America (A4A) Publications - Copies of these documents (MSG-3) are available online at <https://www.airlines.org>.

ANSI Accredited Publications - Copies of these documents are available online at <https://webstore.ansi.org/>.

ASTM Publications - Copies of these documents are available online at <https://www.astm.org>.

IEEE Publications - Copies of these documents are available online at <https://www.ieee.org>.

ISO Publications - Copies of these documents are available online at <https://webstore.ansi.org>.

MMPDS Handbook - Copies of the MMPDS Handbook are available online at <https://www.mmpds.org>.



Documents

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3. DOCUMENT LISTING

3.1 Alphabetical Listing by Title

See Table 1.

NOTE: (1) indicates that the document should not be used for new designs.

Table 1 - Alphabetical listing by document title

Title	Number	Publisher
"D" Ring Seal for Shock Struts Molded From MIL-P-25732 Acrylonitrile Butadiene (NBR) Material	AS28772	SAE
8000 psi Hydraulic Systems: Experience and Test Results	AIR4002	SAE
90° Swivel Nut Assembly, Adapter, Hose to Tube, Reusable, Hydraulic, Fuel and Oil Lines	MS27224	US MIL
Accessory Drive, Aircraft Engine Reference Chart	MS3336	US MIL
Accumulator, Hydraulic, Cylindrical 3000 PSI, Aircraft	MIL-DTL-5498	US MIL
Accumulator, Hydraulic, Welded Bellows, Factory Pre-Charged	ARP4378	SAE
Accumulators, Ground, Hydropneumatic Pressure	ARP763	SAE
Achieving Cleanliness Standards for Aircraft Hydraulic Systems During Manufacture	ARP5891	SAE
Actuation System Data Summary for Missiles and Launch Vehicles	AIR1855	SAE
Actuators, Aeronautical, Linear Utility Hydraulic	MIL-PRF-5503	US MIL
Actuators: Aircraft Flight Controls, Power Operated, Hydraulic, General Specification for	ARP1281	SAE
Adapter Assembly, 45° Elbow, Swivel Flange to Hose	MS27056	US MIL
Adapter Assembly, 90° Elbow, Swivel Flange to Hose	MS27058	US MIL
Adapter Assembly, Flared, 45° Elbow, Tube to Hose with Swivel Nut	MS27055	US MIL
Adapter Assembly, Flared, 90° Elbow, Tube to Hose with Swivel Nut	MS27057	US MIL
Adapter Assembly, Flared, 90° Forged Elbow, Tube to Hose with Swivel Nut	MS27060	US MIL
Adapter Assembly, Flareless, 45° Elbow, Tube to Hose with Swivel Nut	MS27382	US MIL
Adapter Assembly, Reusable, Flexible Hose, Low Pressure	MIL-DTL-38726	US MIL
Adapter Assembly, Straight, Hose to Tube, Reusable, Hydraulic, Fuel and Oil Lines	MS24587	US MIL
Adapter Assembly, Straight, Swivel Flange to Hose	MS27054	US MIL
Adapter, Hose to Tube, Pipe and Flange, Reusable Hydraulic, Pneumatic, and Oil Lines	MIL-DTL-5070	US MIL
Aerospace - "P" clamps (loop clamps) for fluid systems - Envelope dimensions	ISO 7315	ISO
Aerospace - "Q" clamps (centre-mounted clamps) for fluid systems - Dimensions	ISO 8479	ISO
Aerospace - Accumulator, Hydraulic, Cylindrical, Piston Separated	ARP4379	SAE
Aerospace - Application Guide for Hydraulic Power Transfer Units	ARP1280	SAE
Aerospace - Aramid reinforced lightweight polytetrafluoroethylene (PTFE) hose assemblies, classification 135 degrees C/20 684 kPa (275 degrees F /3 000 psi) and 135 degrees C/21 000 kPa (275 degrees F/3 046 psi) - Procurement specification	ISO 23933	ISO
Aerospace - Chlorinated Solvent Contamination of MIL-H-5606/MIL-H-83282 Vehicle Hydraulic Systems	AIR4713	SAE
Aerospace - Clamps for fluid systems - Test methods	ISO 9679	ISO
Aerospace - Cleanliness classification for hydraulic fluids	ISO 11218	ISO
Aerospace - Commercial Aircraft Hydraulic Systems	AIR5005	SAE
Aerospace - Constant displacement hydraulic motors - General specifications	ISO 9206	ISO
Aerospace - Couplings, threaded and sealed, for fluid systems - Dimensions	ISO 7320	ISO
Aerospace - Design and Installation of Commercial Transport Aircraft Hydraulic Systems	ARP4752	SAE
Aerospace - Direct Drive Servovalves	ARP4493	SAE
Aerospace - Dynamic Test Method for Determining the Relative Degree of Cleanliness of the Downstream Side of Filter Elements	ARP599	SAE
Aerospace - Electrohydrostatic actuator (EHA) - Characteristics to be defined in procurement specifications	ISO 22072	ISO



Title	Number	Publisher
Aerospace - Evaluation of Particulate Contamination in Hydraulic Fluid - Membrane Procedure	ARP4285	SAE
Aerospace - Fitting end, 24° internal cone, external thread, flareless type extra fine thread pitch inch series - Design standard	ISO 19632	ISO
Aerospace - Fluid power circuits - Components - Expression of results of cleanliness measurements	ISO 12584	ISO
Aerospace - Fluid systems - Clamp blocks for tube lines having axial alignment - Design standard and qualification testing - Metric series	ISO 7661	ISO
Aerospace - Fluid systems - Dimensions of plastic protective caps and plugs	ISO 9634	ISO
Aerospace - Fluid systems - Hydraulic system tubing	ISO 8575	ISO
Aerospace - Fluid systems - Impulse testing of hydraulic hose, tubing and fitting assemblies	ISO 6772	ISO
Aerospace - Fluid systems - Interface of 24° cone metric couplings	ISO 7319	ISO
Aerospace - Fluid systems - Metal hose assemblies	ISO 7314	ISO
Aerospace - Fluid systems - Thermal shock testing of piping and fittings	ISO 6773	ISO
Aerospace - Fluid systems - Vocabulary - Part 1: General terms and definitions related to pressure	ISO 8625-1	ISO
Aerospace - Fluid systems - Vocabulary - Part 2: General terms and definitions relating to flow	ISO 8625-2	ISO
Aerospace - Fluid systems - Vocabulary - Part 3: General terms and definitions relating to temperature	ISO 8625-3	ISO
Aerospace - Fluid systems and components - Methods for system sampling and measuring the solid particle contamination of hydraulic fluids	ISO 5884	ISO
Aerospace - Fluid systems and components - Pressure and temperature classifications	ISO 6771	ISO
Aerospace - Gaseous oxygen replenishment connection for use in fluid systems (new type) - Dimensions (Inch series)	ISO 8775	ISO
Aerospace - General Requirements for Commercial Aircraft Hydraulic Components	AS4941	SAE
Aerospace - General Requirements for Hydraulic Fuse - Quantity Measuring	AS5466	SAE
Aerospace - General Requirements for Hydraulic Relief Valves	ARP4763	SAE
Aerospace - Graphic symbols for schematic drawings of hydraulic and pneumatic systems and components	ISO 5859	ISO
Aerospace - Hose assemblies in polytetrafluoroethylene (PTFE) for use up to 232 °C and 10 500 kPa - Technical specifications and requirements	ISO 10502	ISO
Aerospace – Hydraulic filter elements – Test methods – Part 1: Test sequence	ISO 14085-1	ISO
Aerospace – Hydraulic filter elements – Test methods – Part 2: Conditioning	ISO 14085-2	ISO
Aerospace – Hydraulic filter elements – Test methods – Part 3: Filtration efficiency and retention capacity	ISO 14085-3	ISO
Aerospace – Hydraulic filter elements – Test methods – Part 4: Verification of collapse/burst pressure rating	ISO 14085-4	ISO
Aerospace – Hydraulic filter elements – Test methods – Part 5: Resistance to flow fatigue	ISO 14085-5	ISO
Aerospace – Hydraulic filter elements – Test methods – Part 6: Initial cleanliness level	ISO 14085-6	ISO
Aerospace - Hydraulic power transfer units - General specifications	ISO 22089	ISO
Aerospace - Hydraulic system tubing - Qualification tests for bent tubes	ISO 8574	ISO
Aerospace - Hydraulic tubing joints and fittings - Planar flexure test	ISO 9538	ISO
Aerospace - Hydraulic, pressure compensated, variable delivery pumps - General requirements	ISO 8278	ISO
Aerospace - Impulse Testing of Hydraulic Components	ARP1383	SAE
Aerospace - Lightning Effects on Hydraulic Transport Elements on Aircraft	AIR6185	SAE
Aerospace - Lightweight polytetrafluoroethylene (PTFE) hose assemblies, classification 400 degrees F /3 000 psi (204 degrees C/20 684 kPa) and 204 degrees C/21 000 kPa (400 degrees F/3 046 psi) - Procurement specification	ISO 8913	ISO
Aerospace - Linear hydraulic utility actuator - General specifications	ISO 18387	ISO
Aerospace – Military Type Variable Delivery, Pressure Compensated Hydraulic Pump	AS19692	SAE
Aerospace - Omega clamps (saddle clamps) for fluid systems - Dimensions	ISO 8177	ISO
Aerospace - 'P' (loop style) clamps - Procurement specification	ISO 12319	ISO
Aerospace - Part numbering for hose assemblies	ISO 11639	ISO

Title	Number	Publisher
Aerospace - Passive Side Stick Unit, General Requirements for Fly by Wire Transport and Business	ARP6001	SAE
Aerospace - Pipelines - Identification	ISO 12	ISO
Aerospace - Polytetrafluoroethylene (PTFE) hose assemblies, classification 204 °C/28 000 kPa - Procurement specification	ISO 9938	ISO
Aerospace - Pressure re-oiling connection (new type)	ISO 9939	ISO
Aerospace - Separable tube fittings for fluid systems, for 24 degree cones, for pressures up to 3 000 psi or 21 000 kPa - Procurement specification, inch/metric	ISO 7169	ISO
Aerospace - Standard-weight polytetrafluoroethylene (PTFE) hose assemblies, classification 204 °C/21 000 kPa - Procurement specification	ISO 9528	ISO
Aerospace – System Integration Factors That Affect Hydraulic Pump Life	AIR1922	SAE
Aerospace - Terminology for clamping devices	ISO 16682	ISO
Aerospace - Test Methodology for Electrohydrostatic Actuators	ARP5879	SAE
Aerospace - Test methods for polytetrafluoroethylene (PTFE) inner-tube hose assemblies - Part 1: Metallic (stainless steel) braid	ISO 8829-1	ISO
Aerospace - Test methods for polytetrafluoroethylene (PTFE) inner-tube hose assemblies - Part 2: Non-metallic braid	ISO 8829-2	ISO
Aerospace - Tube fittings for fluid systems, 5 000 psi (35 000 kPa) - Qualification specification	ISO 19631	ISO
Aerospace - Tubing - Outside diameters and thicknesses - Metric dimensions	ISO 2964	ISO
Aerospace - Vehicle Management Systems - Flight Control Design, Installation and Test of, Military Unmanned Aircraft, Specification Guide For	ARP94910	SAE
Aerospace - Visual Inspection Standard for Elastomeric Sealing Elements Other than O-Rings	AS5752	SAE
Aerospace Active Inceptor Systems for Aircraft Flight and Engine Controls	ARP5764	SAE
Aerospace Auxiliary Power Sources	AIR744	SAE
Aerospace Design and Installation of Commercial Transport Helicopter Hydraulic Systems	ARP4925	SAE
Aerospace Fluid Power - Contamination Sensitivity - Considerations for Establishing Test Procedures for Flight Control Actuators	ARP5941	SAE
Aerospace Fluid Power - FAA Regulatory History - Transport Airplane Hydraulic Systems	AIR5696	SAE
Aerospace Fluid Power - Hydraulic Filter Elements - Method for Evaluating Dynamic Efficiency With Cyclic Flow	ARP4205	SAE
Aerospace Fluid Power – Materials and Characteristics of Flight Control Servoactuators of Various Aircraft	AIR4066	SAE
Aerospace Fluid Power - Waste Reduction Practices for Used Phosphate Ester Aviation Hydraulic Fluid	AIR5277	SAE
Aerospace Fluid Power Electrohydrostatic Module, Design, Performance and Test Recommendations	ARP6154	SAE
Aerospace fluid systems - Elastomer seals - Storage and shelf life	ISO 27996	ISO
Aerospace fluid systems - O-rings, inch series: Inside diameters and cross sections, tolerances and size-identification codes - Part 1: Close tolerances for hydraulic systems	ISO 16031-1	ISO
Aerospace fluid systems - O-rings, inch series: Inside diameters and cross-sections, tolerances and size-identification codes - Part 2: Standard tolerances for non-hydraulic systems	ISO 16031-2	ISO
Aerospace fluid systems - Test methods for tube/fitting assemblies	ISO 10583	ISO
Aerospace fluid systems - Vocabulary - Part 4: Control/actuation systems	ISO 8625-4	ISO
Aerospace fluid systems and components - Variable displacement hydraulic motors - General specifications	ISO 22181	ISO
Aerospace fluid systems and components - Vocabulary - Part 1: Hose assemblies	ISO 8153-1	ISO
Aerospace fluid systems and components - Vocabulary - Part 2: Fittings and couplings	ISO 8153-2	ISO
Aerospace Fly-by-Light Actuation Systems	AIR4982	SAE
Aerospace Hydraulic and Pneumatic Specifications, Standards, Recommended Practices, and Information Reports	AIR737	SAE
Aerospace Hydraulic Fluids Physical Properties	AIR1362	SAE

Title	Number	Publisher
Aerospace Hydraulic Pump Controls	AIR5872	SAE
Aerospace Hydraulics and Actuation Lessons Learned	AIR4543	SAE
Aerospace Microscopic Sizing and Counting of Particulate Contamination for Fluid Power Systems	AS598	SAE
Aerospace Military Aircraft Hydraulic System Characteristics	AIR1899	SAE
Aerospace Rod Scraper Gland Design Standard	AS4088	SAE
Aerospace Series - AC induction electric motor driven, variable delivery, hydraulic pumps - General requirements	ISO 18170	ISO
Aerospace series - Fluid, hydraulic, phosphate ester-base, fire resistant - Technical specification	ISO 9940	ISO
Aerospace series - O-ring grooves - Dimensions	ISO 23748	ISO
Aerospace series - Pipe coupling 8°30' - Dynamic beam seal end for elbows, tees and crosses - Geometric configuration	ISO 22433	ISO
Aerospace series - Pipe coupling 8°30' - Dynamic beam seal end for ferrule, welded - Geometric configuration	ISO 22431	ISO
Aerospace series - Pipe coupling 8°30' - Thread end - Geometric configuration	ISO 22436	ISO
Aerospace series - Titanium tube for 35 MPa operating pressure — Part 1: Inch series	ISO 18487-1	ISO
Aerospace Size Standard for O-Rings	AS568	SAE
Aerospace Size Standard for Oversize O-Rings	AS5798	SAE
Aerospace Systems Electrical Bonding and Grounding for Electromagnetic Compatibility and Safety	ARP1870	SAE
Aerospace, Slipper Seals, Selection for Fluid Power Applications	AIR1244	SAE
Aerospace-Hydraulic Switching Valve, Pressure or Pilot Operated	ARP4741	SAE
Aerospace-Particle Count Data Conversion and Extrapolation	AIR877	SAE
Aerospace-Solenoid Valve, Hydraulic, Three Way, Two Position, Direct Acting	ARP4945	SAE
Air in Aircraft Hydraulic Systems	AIR5829	SAE
Airborne Hydraulic and Control System Survivability for Military Aircraft	AIR1083	SAE
Aircraft - Connections for checking hydraulic systems by ground appliances - Threaded type	ISO 3174	ISO
Aircraft - Connections for starting engines by air	ISO 2026	ISO
Aircraft - Environmental test procedures for airborne fluid system components - Resistance to fire in designated fire zones	ISO 23935	ISO
Aircraft - Gravity filling orifices	ISO 102	ISO
Aircraft - Ground air-conditioning connections	ISO 1034	ISO
Aircraft - Ground pressure testing connections for pressure cabins	ISO 11	ISO
Aircraft - High pressure air charging valves	ISO 1023	ISO
Aircraft - High temperature convoluted hose assemblies in polytetrafluoroethylene (PTFE)	ISO 7313	ISO
Aircraft - Hydraulic components - Marking to indicate fluid for which component is approved	ISO 3323	ISO
Aircraft - Hydraulic tubing joints and fittings - Rotary flexure test	ISO 7257	ISO
Aircraft - Joints for connecting crew members' regulator masks to oxygen sources	ISO 5887	ISO
Aircraft - Liquid oxygen replenishment couplings - Mating dimensions	ISO 1465	ISO
Aircraft - Pressure refuelling connections	ISO 45	ISO
Aircraft - Pressure re-oiling connection	ISO 451	ISO
Aircraft - Tubing tolerances - Inch series	ISO 12573	ISO
Aircraft Actuation System Failure-Detection Methods	AIR5273	SAE
Aircraft ducting and piping - Profile dimensions for flanges of V-band couplings	ISO 2563	ISO
Aircraft Flight Control Systems Descriptions	AIR4094	SAE
Aircraft Hydraulic Start Motor	AS714	SAE
Aircraft Hydraulic Starter/Pumps	AS838	SAE
Aircraft Survivability	MIL-HDBK-2069	US MIL
Aircraft Survivability Terms	MIL-HDBK-2089	US MIL
Aircraft water-methanol pressure connections	ISO 485	ISO
Aluminum Alloy Tubing, Hydraulic, Seamless, Drawn, Round 1.0Mg - 0.60Si - 0.28Cu - 0.20Cr (6061-T4) Solution Heat Treated and Naturally Aged	AMS4081	SAE



Title	Number	Publisher
Aluminum Alloy Tubing, Hydraulic, Seamless, Drawn, Round 1.0Mg - 0.60Si - 0.28Cu - 0.20Cr (6061-T6) Solution and Precipitation Heat Treated	AMS4083	SAE
Aluminum Alloy, Seamless Drawn Tubing 1.0Mg - 0.60Si - 0.28Cu - 0.20Cr (6061-T6) Solution and Precipitation Heat Treated	AMS4082	SAE
American National Standard Dictionary for Technologies of Electromagnetic Compatibility (EMC), Electromagnetic Pulse (EMP), and Electrostatic Discharge (ESD)	IEEE C63.14	IEEE
Anodic Coatings for Aluminum and Aluminum Alloys	MIL-A-8625	US MIL
Anti Blow-By Design Practice for Cap Seals	AIR1243	SAE
Application Guide for Aerospace Hydraulic Motors	ARP4940	SAE
Application of Tungsten Carbide Coatings on Ultra High Strength Steels, High Velocity Oxygen / Fuel Process	AMS2448	SAE
Arresting Hook Installation, Land-Based Aircraft	ARP1538	SAE
Basic Requirements For Fiber Reinforced Plastic Type 3FC Composite Cylinders	DOT FRP-1	US DOT
Basic Requirements For Fully Wrapped Carbon-Fiber Reinforced Aluminum Lined Cylinder	DOT CFFC	US DOT
Body, Cluster Fitting, One Way, Flare	MS21953	US MIL
Body, Cluster Fitting, One Way, Internal Boss	MS21946	US MIL
Body, Cluster Fitting, Three Way Flareless	AS21945	SAE
Body, Cluster Fitting, Three Way, Internal Boss	MS21960	US MIL
Body, Cluster Fitting, Two Way 180° Flare	MS21955	US MIL
Body, Cluster Fitting, Two Way 180° Internal Boss	MS21958	US MIL
Body, Cluster Fitting, Two Way 90° Flare	MS21954	US MIL
Body, Cluster Fitting, Two Way 90° Internal Boss	MS21959	US MIL
Bolt, Cluster Fitting, Single Port Through Flare	MS21950	US MIL
Bolt, Cluster Fitting, Single Port-Flare (1)	MS21949	US MIL
Bolt, Universal Fitting	NAS551	AIA/NAS
Bonding, Electrical, and Lighting Protection, for Aerospace Systems	MIL-STD-464	US MIL
Bracket, Support Clamp	AS7431	SAE
Brake Control Systems, Antiskid, Aircraft Wheels Instructions for Preparation of Specifications for	MIL-B-8075	US MIL
Brake Systems, Wheel, Aircraft, Design of	MIL-B-8584	US MIL
Bubble-Point Test Method	ARP901	SAE
Calculations and Background Information Used to Specify the Dimensions in AS6235	AIR7358	SAE
Calculations to Determine Dimensions for Backup Rings to AS5781, AS5782, AS5860, AS5861	AIR6082	SAE
Cap or Plug – Protective, Plan Tube or Hole (1)	NAS816	AIA/NAS
Cap, Protective, Electrical Connector (1)	NAS813	AIA/NAS
Cap, Protective, Flared Fitting (1)	NAS814	AIA/NAS
Cap, Protective, Flared Fitting (1)	NAS817	AIA/NAS
Cap, Protective, Flared Tube and Hose Assembly (1)	NAS812	AIA/NAS
Capability Guidelines for Computer Controlled Test Equipment for Hydraulic Components	ARP4904	SAE
Caps and Plugs, Protective, Dust and Moisture Seal	NAS847	AIA/NAS
Chemical Conversion Coatings on Aluminum and Aluminum Alloys	MIL-DTL-5541	US MIL
Clamp Assembly, Saddle-Type, Cushion, General Specification For	NASM85449	AIA/NAS
Clamp Selection and Installation Guide	ARP1897	SAE
Clamp, Loop, Cushion, General Specification For	MIL-DTL-85052	US MIL
Cleanliness Requirements for Parts Used in Hydraulic Systems (1)	NAS1638	AIA/NAS
Coating, Thermal Spray High Velocity Oxygen/Fuel Process	AMS2447	SAE
Coatings, Electroless Nickel, Special Applications	MIL-DTL-32119	US MIL
Coiled Tubing - Corrosion Resistant Steel, Hydraulic Applications, Aerospace	ARP584	SAE
Coiled Tubing - Titanium Alloy, Hydraulic Applications, Aerospace	ARP4146	SAE
Cold Gas Systems, Missile or Projectiles Design, Installation, Tests and Requirements for	ARP1625	SAE
Commercial Aircraft Hydraulic System Sizing	ARP6277	SAE
Companion Document to MIL-STD-1916	MIL-HDBK	SAE

Title	Number	Publisher
Comparison of Hydraulic System Cleanliness Procedures and Requirements for Ten Aerospace Companies	AIR1918	SAE
Compendium of Gas Properties	AIR4093	SAE
Compressed non-breathing air for use in aircraft	ISO 2434	ISO
Compressor Units, Air/Gas, General Requirements for	AS26805	SAE
Connectors, Electrical, Circular Threaded, AN Type, General Specification	AS50151	SAE
Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect (Bayonet, Threaded and Breech Coupling), Environment Resistant, Removable Crimp and Hermetic Solder Contacts, General Specification for	MIL-DTL-38999	US MIL
Connectors, General Purpose, Electrical, Miniature Circular, Environment Resisting, 200 Degrees C Maximum Temperature (1)	NAS1599	AIA/NAS
Contamination Classification for Hydraulic Fluids	AS4059	SAE
Coupling Assemblies, Non-Locking Probe Style, Self-Aligning, Self-Sealing Disconnects	AS4251	SAE
Coupling Assembly, Hydraulic Self Sealing, Quick Disconnect	AS1709	SAE
Coupling Assembly, Hydraulic, Self-Sealing, Quick Disconnect, General Specification For	MIL-DTL-25427	US MIL
Coupling Assembly, Self-Sealing, One Side Only, Hydraulic	AS1896	SAE
Cumulative Damage Analysis for Hydraulic Hose Assemblies	SAE J1927 / 198810	SAE
Definition of Commonly Used Day Types (Atmospheric Ambient Temperature Characteristics Versus Pressure Altitude)	AS210	SAE
Definition, Recognition, Troubleshooting, and Repair of Aircraft Hydraulic System External Leakage	ARP6175	SAE
Degradation Limits of MIL-PRF-5606, MIL-PRF-83282, and MIL-PRF-87257 Hydraulic Fluids Used in Hydraulic Test Stands	AIR810	SAE
Description of Actuation Systems for Aircraft With Fly-By-Wire Flight Control Systems	AIR4253	SAE
Descriptions of Systems Integration Test Rigs (Iron Birds) For Aerospace Applications	AIR5992	SAE
Design Guidelines for Aircraft Mechanical Control Systems and Components	ARP5770	SAE
Design of Tubing Installations for Aerospace Hydraulic Systems	ARP994	SAE
Detail Specification Hose Assembly, Polytetrafluoroethylene, High Temperature, Medium Pressure, General Specification for	MIL-DTL-25579	US MIL
Determination of Hydraulic Pressure Drop	ARP24	SAE
Development Process - Aerospace Fly-By-Wire Actuation System	ARP5007	SAE
Dielectric Testing	MIL-STD-202	US MIL
Dissimilar Metals	MIL-STD-889	US MIL
Drive - Accessory, (127) 5.000 BC Round, QAD, Design Standard for	AS969	SAE
Drive - Accessory, (203.2) 10.000 BC Round, QAD, Design Standard for	AS971	SAE
Drive - Accessory, 8.000 BC Round, QAD, Design Standard For	AS970	SAE
Drive - Studded, Accessory, (127) 5.000 BC Round, Design Standard for	AS963	SAE
Drive - Studded, Accessory, (203.2) 8.000 BC Round, Design Standard for	AS965	SAE
Drive - Studded, Accessory, (254) 10.000 BC Round, Design Standard for	AS967	SAE
Drive - Studded, Accessory, 2.653 BC Square, Design Standard for	AS959	SAE
Drive - Studded, Accessory, 5.000 BC Square, Design Standard for	AS961	SAE
Duty Cycle Considerations for Electrohydrostatic Actuators	ARP6025	SAE
Elastomer Compatibility Considerations Relative to Elastomeric Selection	AIR786	SAE
Elastomer: Fluorocarbon (FKM) Rubber High-Temperature - Fluid Resistant Low Compression Set / 70 to 80 Type A Hardness For Products in Fuel Systems and Specific Engine Oil Systems	AMS3216	SAE
Electrical Power, Aircraft, Characteristics and Utilization of	MIL-STD-704	US MIL
Electrohydraulic Mechanical Feedback Servoactuators	ARP988	SAE
Electrohydraulic Servovalves	ARP490	SAE
Electroless Nickel Coatings	AMS-C-26074	SAE
Electroless Nickel Plating Low Phosphorus	AMS2405	SAE
Electromagnetic Interference Characteristics, Requirements for Equipment	MIL-STD-461	US MIL
Electronic Equipment, General Guidelines for	MIL-HDBK-454	US MIL
Environmental Engineering Considerations and Laboratory Test	MIL-STD-883C	US MIL

Title	Number	Publisher
Evaluating Effectiveness of Filter Element Cleaning Methods	ARP725	SAE
Face Seal Gland Design, Static, O-Ring and Other Seals for Aerospace Hydraulic and Pneumatic Applications	AS6235	SAE
Filter and Disposable Element, Fluid Pressure, Hydraulic, 3 Micron Absolute, General Specification For	MIL-PRF-81836	US MIL
Filter and Filter Elements, Fluid Pressure, Hydraulic Line, 15 Micron Absolute and 5 Micron Absolute, Type II Systems, General Specification for	MIL-DTL-8815	US MIL
Filter and Filter Elements, Fluid Pressure, Hydraulic Line, 15 Micron Absolute and 5 Micron Absolute, Type II Systems, General Specification for (1)	MIL-F-8815	US MIL
Filter Element Cleaning Methods	AIR787	SAE
Filter Patch Testing Procedures for Aerospace Hydraulic Non-Rotating Equipment	ARP1302	SAE
Filter Unit, Fluid, Pressure MXU-408/M, Absolute 5 Micron, Hydraulic (1)	MIL-F-27656	US MIL
Fine Wire Mesh for Filter Elements	AIR888	SAE
Finishes, Coatings, And Sealants For The Protection Of Aerospace Weapons Systems	MIL-STD-7179	US MIL
Fire Protection Design Handbook for U.S. Navy Aircraft Powered by Turbine Engines	MIL-HDBK-221	US MIL
Fire Resistant Phosphate Ester Hydraulic Fluid for Aircraft	AS1241	SAE
Fire Testing of Flexible Hose, Tube Assemblies, Coils, Fittings, and Similar System Components	AS1055	SAE
Fire Testing of Fluid Handling Components for Aircraft Engines and Aircraft Engine Installations	AS4273	SAE
Fitting - Installation of Flared Tube, Straight Threaded Connectors, Design Standard for	MS21344	US MIL
Fitting Assembly, Ring Locked, Adapter, Flareless to Port, Extra Fine Threads, 5080 psi	AS5550	SAE
Fitting End, Bulkhead, Flared Tube Connection, Design Standard	AS4396	SAE
Fitting End, Flared, Tube Connection, Design Standard	AS4395	SAE
Fitting End, Standard Dimensions for Bulkhead Flareless Tube Connections	AS33515	SAE
Fitting End, Standard Dimensions for Flareless Tube Connection and Gasket Seal	AS33514	SAE
Fitting, Adapter, Port, Reducer	AS5172	SAE
Fitting, Adapter, Union, Flared to Boss	AS933	SAE
Fitting, Bushing, Port, Reducer	AS5173	SAE
Fitting, Connector, Multiple Fluid Pressure Line, Tee	AS5165	SAE
Fitting, Plug, Tube End, Flared	AS5168	SAE
Fitting, Port Plug and Bleeder	AS5169	SAE
Fitting, Sleeve, Flared	AS5176	SAE
Fitting, Tee, Internal Straight Thread Port	AS5192	SAE
Fitting, Tetrafluoroethylene, Hose, High Temperature, Medium Pressure, General Requirements for	MIL-DTL-27272	US MIL
Fitting, Union and Reducer, Flared	AS5174	SAE
Fitting, Union, Tube, .375 Bulkhead	AS5406	SAE
Fittings, 24 Degree Cone Flareless, Fluid Connection, 3000 psi	AS18280	SAE
Fittings, Axially Swaged Tube with Flareless Separable, Fluid System for Operating Pressures up to and Including 5080 psi (35 000 kPa), Specification for	AS5958	SAE
Fittings, Catalog of Flared, Flareless, Pipe Threaded, Port, Hose, and Other Type Tube Standard Connectors	AIR310	SAE
Fittings, Corrosion Resistant Steel, High Temperature, High Pressure (3000 PSI), Hydraulic And Pneumatic (Detail Specification)	MIL-DTL-83296	US MIL
Fittings, Installation in Straight Threaded Boss	AS758	SAE
Fittings, Installation of Flareless Tube – Straight Threaded Connectors	AS33566	SAE
Fittings, Tube, Fluid Systems, Separable, Beam Seal, 3000/4000 psi, General Specification for	AS85421	SAE
Fittings, Tube, Fluid Systems, Separable, High Pressure Dynamic Beam Seal, 5000/8000 psi, General Specification for	AS85720	SAE
Flange - Accessory, 10.000 BC Round, Design Standard for	AS968	SAE
Flange - Accessory, 2.653 BC Square, Design Standard for	AS960	SAE
Flange - Accessory, 5.000 BC Round, Design Standard for	AS964	SAE
Flange - Accessory, 5.000 BC Square, Design Standard For	AS962	SAE

Title	Number	Publisher
Flange - Accessory, 8.000 BC Round, Design Standard for	AS966	SAE
Flight Control Actuators - Dynamic Seals, Collection of Duty Cycle Data	ARP4895	SAE
Flight Critical Control Valves, Military Aircraft	ARP5796	SAE
Fluid power systems - O-rings - Part 1: Inside diameters, cross-sections, tolerances and designation codes	ISO 3601-1	ISO
Fluid power systems - O-rings - Part 2: Housing dimensions for general applications	ISO 3601-2	ISO
Fluid power systems - O-rings - Part 3: Quality acceptance criteria	ISO 3601-3	ISO
Fluidic Technology	ARP993	SAE
Fluorocarbon (FKM) Rubber High-Temperature-Fluid Resistant Low Compression Set 85 To 95	AMS3218	SAE
Fluorocarbon Elastomer (FKM) High Temperature / HTS Oil Resistant / Fuel Resistant Low Compression Set / 70 to 80 Hardness, Low Temperature Tg -22 °F (-30 °C) For Seals in Oil / Fuel / Specific Hydraulic Systems	AMS7287	SAE
Flying Qualities of Piloted Aircraft	MIL-STD-1797	US MIL
Flying Qualities of Piloted V/STOL Aircraft	MIL-F-83300	US MIL
Fuses, Aircraft Automatic Quantity-Measuring, Hydraulic (1)	MIL-DTL-5508	US MIL
Gas Actuators (Linear and Vane Rotary Type)	ARP777	SAE
Gas Motor	ARP719	SAE
Gas Power Servos and Reaction Control Systems	ARP739	SAE
Gaseous breathing oxygen supplies for aircraft	ISO 2046	ISO
Gasket, Metallic, Encased, Annular, Copper	AS35769	SAE
General Gland Design Criteria for Static and Dynamic O-Ring Seal Applications Specifically for Engines and Engine Control Systems	ARP1231	SAE
General Requirements for Hydraulic Fuse - Flow Rate	AS5467	SAE
General Requirements for Hydraulic System Reservoirs	AS5586	SAE
General Requirements for the Design and Testing of Civil Type Pressure Compensated, Variable Delivery Hydraulic Pumps	AS595	SAE
Gland Design Criteria and Dimensions for Dynamic Radial O-Ring Seal Applications Specifically for Engine and Engine Control Systems Operating at 1500 psi Max	ARP1233	SAE
Gland Design Criteria and Dimensions for Static Radial O-Ring Seal Applications Without Anti-Extrusion Devices Specifically for Engine and Engine Control Systems	ARP1232	SAE
Gland Design, Computation of Seal Squeeze and Gland Volume	ARP4727	SAE
Gland Design, O-Ring and Other Elastomeric Seals, Static Applications	AS5857	SAE
Gland Design, O-Ring and Other Seals	AS4716	SAE
Gland Design, Packings, Hydraulic, General Requirements For (1)	MIL-G-5514	US MIL
Gland Design: Nominal 3/8 Inch Cross Section for Compression-Type Seals	AS4832	SAE
Gland Design: Scraper, Landing Gear, Installation	AS4052	SAE
Graphic Symbols for Aircraft Hydraulic and Pneumatic Systems	AS1290	SAE
Grease, Aircraft, General Purpose Wide Temperature Range, NATO Code G-395	MIL-PRF-81322	US MIL
Grinding of HVOF Sprayed Tungsten Carbide Coatings Applied to High Strength Steels	AMS2449	SAE
Ground Support Equipment Hydraulic Systems, Design and Installation, Recommended Practices For	ARP4943	SAE
Guidelines and Methods for Conducting the Safety Assessment Process on Civil Airborne Systems and Equipment	ARP4761	SAE
Guidelines for Development of Civil Aircraft and Systems	ARP4754	SAE
Handbook of Hydraulic Metric Calculations	AIR1657	SAE
Handling and Installation Practice for Aerospace Hose Assemblies	AIR1569	SAE
High Pressure Pneumatic Compressors Users Guide For Aerospace Applications	AIR4994	SAE
Hose Assemblies Polytetrafluoroethylene, Aramid Fiber Reinforced, 5000 and 8000 psi, General Specification For	MIL-H-85800	US MIL
Hose Assemblies, Convolute Polytetrafluoroethylene Metallic Reinforced, High Temperature Medium Pressure, Aircraft	AS620	SAE
Hose Assembly and Tubing, Polytetrafluoroethylene, Cleaning Methods for	AS611	SAE
Hose Assembly, 3000 psi, PTFE, Flared, 45° to 45°, Heavyweight	AS630	SAE
Hose Assembly, 3000 psi, PTFE, Flared, 45° to 90°, Heavyweight	AS631	SAE
Hose Assembly, 3000 psi, PTFE, Flared, 90° to 90°, Heavyweight	AS632	SAE