



AEROSPACE STANDARD

AS18802

Issued 1998-01
Reaffirmed 2013-08

Fuel and Oil Lines, Aircraft, Installation of

RATIONALE

AS18802 has been reaffirmed to comply with the SAE five-year review policy.

NOTICE

This document has been taken directly from U.S. Military Specification MIL-I-18802A, Amendment 1, 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-I-18802A, Amendment 1. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Any material relating to qualified product lists has not been adopted by SAE. This material was part of the original military specification and is reprinted here for historic reference only.

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 © 2013 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 values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS18802>

1. SCOPE:

1.1 Scope:

This specification covers the requirements for installation of fuel and oil lines in aircraft, except those lines furnished as part of the engine.

2. APPLICABLE DOCUMENTS:

- 2.1 The following documents, of the issue in effect on date of invitations for bids, form a part of this specification, to the extent specified herein:

SPECIFICATIONS

Federal

- | | |
|----------|--|
| WW-T-787 | Tubing, Aluminum-Alloy, Round, Square, Rectangular and other Shapes, Seamless Drawn, 5052 |
| WW-T-789 | Tubing, Aluminum-Alloy, Round, Square, Rectangular and other Shapes, Seamless Drawn, 6061 and 6062 |

Military

- | | |
|-------------|---|
| MIL-B-5087 | Bonding, Electrical (for aircraft) |
| MIL-T-5578 | Tank, Fuel, Aircraft, Self-Sealing |
| MIL-T-5579 | Tank, Self-Sealing Oil, Aircraft |
| MIL-T-6396 | Tank, Fuel, Oil, Water-Alcohol, Aircraft, Non-Self-Sealing, Removable, Internal |
| MIL-S-7742 | Screw Threads, Standard, Optimum Selected Series: General Specification for |
| MIL-T-8606 | Tubing, Steel, Corrosion-Resistant (18-8 Stabilized) |
| MIL-D-8706 | Design Data for Aircraft |
| MIL-H-8794 | Hose, Rubber, Hydraulic, Pneumatic, Fuel and Oil Resistant |
| MIL-H-8795 | Hose Assemblies, Hydraulic, Pneumatic, Fuel and Oil Resistant |
| MIL-F-18280 | Fittings, Flareless, Fluid Connection |
| MIL-T-18847 | Tank, Fuel, Aircraft, Auxiliary External, Design and Installation of |
| MIL-C-22263 | Coupling, Fuel Line, Flexible, 125 PSI |
| MIL-H-25579 | Hose Assembly, Tetrafluoroethylene, High Temperature, Power Plant, Aircraft |
| JAN-A-669 | Anti-Seize-Compound, White-Lead-Base, General Purpose (for Threaded Fittings) |

2.1 (Continued):

STANDARDS

Military

MIL-STD-143	Specifications and Standards, Order of Precedence for the Selection of
MS 21919	Clamp, Cushioned, Tube Support, Loop-Type, Aircraft
MS 28740	Fitting End, Hydraulic, Pneumatic, Fuel and Oil Hose
MS 28741	Hose Assembly, Detachable End Fittings, Medium Pressure
MS 33514	Fitting End, Standard Dimensions for Flareless Tube Connections and Gasket Seal
MS 33515	Fitting End, Standard Dimensions for Bulkhead Flareless Tube Connections
MS 33583	Tubing End, Standard Dimensions for Double Flare
MS 33584	Tubing End, Standard Dimensions for Flared
MS 33586	Metals, Definitions of Dissimilar
MS 33611	Tube Bend Radii
MS 33656	Fitting End, Standard Dimensions for Flared
MS 33657	Fitting End, Standard Dimensions for Bulkhead Flared Tube Connections
MS 33786	Fitting Installations, Flared Tube and Hose, Swivel

Air Force-Navy Aeronautical

AND 10064	Fittings, Installation of Flared Tube Straight Threaded Connectors
AND 10104	Tubing, Steel, Corrosion-Resistant, Round, Standard Dimensions for
AND 10375	Colors, Fluid Line Identification
AN 735	Clamp, Loop-Type Bonding

(When requesting specifications, standards, publications and drawings refer to both title and number. Copies of this specification and applicable specifications may be obtained upon application to the Commanding Officer, Naval Aviation Supply Depot, Code CDS, 5801 Tabor Avenue, Philadelphia 20, Pennsylvania.)

3. REQUIREMENTS:

3.1 Components:

The approval and installation of components under this specification apply to static components as distinguished from such other components as pumps, valves, strainers, filters, filler units, filler caps, fuel c.g. control units, fuel transfer pressure regulators, fuel tank pressure control units. Static components will generally include lines, fittings and tanks.