AEROSPACE STANDARD

AS916™ REV. C

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Superseding AS916B

(R) Oxygen Flow Indication

RATIONALE

The aim of this revision is to define performance for flow indication to oxygen dispensing equipment according to airworthiness requirements of CS/FAR 25.1449, and to cover existing designs of previous document revisions, focused on pneumatic devices, as well electrical/electronic devices.

Due to the evolution of technology, this standard has been renamed from Oxygen Flow Indicators to Oxygen Flow Indication in order to cover all mutual means for indication of oxygen flow.

TABLE OF CONTENTS

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1. SCOPE

This SAE Aerospace Standard (AS) defines the overall requirements applicable to oxygen flow indication as required by Airworthiness Requirements of CS/FAR 25.1449 to show that oxygen is being delivered to the dispensing equipment. Requirements of this document shall be applicable to any type of oxygen system technology and encompass “traditional” pneumatic devices, as well electric/electronic indication.

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.

AIR825 Oxygen Equipment for Aircraft

AIR5742 Packaging and Transportation of Oxygen Equipment

ARP1176 Oxygen System and Component Cleaning

AS861 Minimum General Standards for Oxygen Systems

AS1224 Continous Flow Aviation Oxygen Masks (for Non-Transport Category Aircraft)

AS8025 Passenger Oxygen Mask

AS8026 Crewmember Demand Oxygen Mask for Transport Category Aircraft

AS8027 Crewmember Oxygen Regulators, Demand

2.2 Other Publications

EUROCAE ED 14/RTCA/DO 160: Environmental Conditions and Test Procedures for Airborne Equipment, applicable as specified.

2.3 Airworthiness Requirements

Following airworthiness requirements should be considered as top-level requiremens applicable to various design solutions and system performance:

- EASA/CS 25.1449: Means for determining use of oxygen.
- FAA/14 CFR Part 25.1449: Means for determining use of oxygen.

In addition, FAA/EASA airworthiness requirements of paragraph 25.1309 should be taken into account to assess if the design and performance of the system will be compliant with safety targets.