



AEROSPACE RECOMMENDED PRACTICE

ARP4287™

REV. A

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Superseding ARP4287

(R) Supplemental Oxygen Devices
with Automatic or Manual Presentation

RATIONALE

ARP4287A has been reaffirmed to comply with the SAE Five-Year Review policy.

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Documents
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1. SCOPE

This SAE Aerospace Recommended Practice (ARP) provides design, operation, construction, test and installation recommendations for equipment that automatically presents supplemental oxygen masks to cabin occupants in the event of loss of cabin pressure. It specifically covers automatic presentation for transport category aircraft that operate above 30 000 ft (9144 m) altitude. It also provides guidance for similar equipment used in non-transport category aircraft, or aircraft operated below 30 000 ft (9144 m) altitude.

2. REFERENCES

2.1 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.

2.1.1 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.

AIR825/3	Introductory Gaseous Oxygen and Oxygen Equipment
AS916	Oxygen Flow Indicators
AIR1133	Chemical Oxygen Equipment
AIR1169	Bibliography of References Pertaining to the Effects of Oxygen on Ignition and Combustion of Materials
ARP1176	Oxygen Systems and Component Cleaning and Packaging
AS1304	Continuous Flow Chemical Oxygen Generators
AIR1390	Convenient Location of Oxygen Masks for Both Crew and Passengers of Aircraft
ARP1398	Testing of Oxygen Equipment
AIR5742	Packaging and Transportation of Oxygen Equipment
AS8010	Aviators Breathing Oxygen Purity Standard
AS8025	Passenger Oxygen Mask

2.1.2 RTCA Documents

Available from RTCA, Inc., 1150 18th Street, NW, Suite 910, Washington, DC 20036, Tel: 202-833-9339, www.rtca.org.

RTCA/DO-160 Environmental Conditions and Test Procedures for Airborne Equipment

2.1.3 Military Documents

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-PRF-27210 Oxygen, Aviator's Breathing, Liquid And Gas

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Aerospace Technical Report.

2.2.1 FAA Publications

Available from Federal Aviation Administration, 800 Independence Avenue, SW, Washington, DC 20591, Tel: 866-835-5322, www.faa.gov.

14 CFR Part 21 Certification Procedures for Products and Parts

14 CFR Part 23 Airworthiness Standards: Normal, Utility, Acrobatic and Commuter Category Airplanes

14 CFR Part 25 Airworthiness Standards: Transport Category Airplanes

14 CFR Part 91 General Operating and Flight Rules

14 CFR Part 121 Operating Requirements: Domestic, Flag and Supplemental Operations

14 CFR Part 135 Operating Requirements: Commuter and On Demand Operations and Rules Governing Persons On Board Such Aircraft

FAA TSO C64a Oxygen Mask Assembly, Continuous Flow, Passenger (see 3.10)

FAA TSO-C64b Passenger Oxygen Mask Assembly, Continuous Flow

2.2.2 EASA Publications

Available from European Aviation Safety Agency, Postfach 10 12 53, D-50452 Koeln, Germany, Tel: +49-221-8999-000, www.easa.eu.int.

CS-25 EASA Certification Specification for Large Aeroplanes

ETSO - C64b Oxygen Mask Assembly, Continuous Flow, Passenger

2.3 Definitions

2.3.1 SUPPLEMENTAL OXYGEN MASKS

Devices that supply supplemental oxygen to the cabin occupants. In 14 CFR Part 25, the supplemental oxygen delivery device is called "oxygen dispensing unit". The most commonly used oxygen dispensing unit is an oronasal mask (the term "mask" is used in this document for simplicity). However this term is also intended to include any other device that satisfies the oxygen dispensing requirement.

2.3.2 CABIN OCCUPANTS

Passengers and flight attendants. This document does not apply to supplemental oxygen equipment used by crew members on the flight deck.