



AEROSPACE INFORMATION REPORT

AIR825™/3

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Gaseous Oxygen and Oxygen Equipment, Introductory

RATIONALE

AIR825/3 has been reaffirmed to comply with the SAE five-year review policy.

TABLE OF CONTENTS

1.	SCOPE.....	3
2.	REFERENCES.....	3
2.1	Applicable Documents	3
2.1.1	SAE International Publications.....	3
2.2	Definitions	3
3.	OXYGEN.....	4
3.1	Gaseous Oxygen	4
3.2	Chemical Oxygen.....	4
3.3	Liquid Oxygen	4
3.4	On Board Oxygen Generator Systems (Molecular Sieve).....	4
3.5	Other On Board Generating Technologies	4
4.	OXYGEN SYSTEMS.....	4
4.1	Fixed Oxygen Systems	4
4.1.1	Supply	5
4.1.1.1	High Pressure Cylinders	5
4.1.1.2	Low Pressure Cylinders	5
4.1.1.3	Cylinder Filling.....	5
4.1.1.3.1	On Board Oxygen Generation	5
4.1.2	Supply System Accessories and Components.....	5
4.1.2.1	Cylinder Valves	6
4.1.2.2	Safety Devices	6
4.1.2.3	Cylinder Pressure Gauges.....	6
4.1.2.4	Remote Pressure Gauges	6
4.1.2.5	Warning Devices	6
4.1.2.6	In-Line Fuse	7
4.1.2.7	Check Valves for Crew	7
4.1.2.8	High Pressure Lines.....	7
4.1.2.9	High Pressure Fittings.....	8
4.1.2.10	Low Pressure Lines	8
4.1.2.11	Low Pressure Fittings	8
4.1.3	System Pressure Regulator	8

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For more information on this standard, visit
<https://www.sae.org/standards/content/AIR825/3/>

Documents

Document Sharing Hub

4.1.4 Dispensing Oxygen..... 9

4.1.4.1 Flight Deck Crew Oxygen Dispensing Systems 9

4.1.4.2 Passenger Oxygen Dispensing Systems..... 9

4.1.5 Fire Safety 9

4.2 Rotor Burst Protection..... 10

4.3 Portable Oxygen Systems 10

4.3.1 Gaseous Portable Oxygen Unit 10

5. NOTES 10

1. SCOPE

This Aerospace Information Report provides a general discussion on gaseous breathing oxygen and oxygen equipment for use on commercial aircraft. Other types of oxygen systems are mentioned to assist in this discussion. For detailed information on systems other than gaseous, reference the appropriate section of AIR825.

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 the 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 International 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.

AIR 825/4	Chemical Oxygen Systems
AIR 825/5	Liquid Oxygen Systems
AIR 825/6	On Board Oxygen Generating Systems (Molecular Sieve)
AIR 825/8	Continuous Flow Oxygen Systems
AIR 825/9	Demand Oxygen Systems
AIR 825/12	Oxygen System Integration and Performance Precautions
AIR 825/13	Guide for Evaluating Combustion Hazards in Aircraft Oxygen Systems
AS1046B	Minimum Standard for Portable Gaseous, Oxygen Equipment
AS 1066B	Minimum Standards for Valve, High Pressure Oxygen, Cylinder Shut Off, Manually Operated
AS1225A	Oxygen System Fill/Check Valve
ARP1532	Aircraft Oxygen System Lines, Fabrication, Test and Installation
ARP4287	Automatic Presentation of Supplemental Oxygen Masks
AS8010	Aviator's Breathing Oxygen Purity Standard

2.2 Definitions

Oxygen Cylinder: Pressure vessel to store breathing gas (oxygen) under pressure. Such equipment is available in various sizes and designed according to EIGA, ICC or DOT specifications.

Cylinder Valves: A device installed on the end of the pressure vessel to control or shutoff the flow of the gas.

ICC: Interstate Commerce Commission. The ICC was an independent agency of the U.S. government that was established in 1887 and one of the function of the agency was to regulate the manufacture and transportation of pressurized vessels. The ICC's safety functions were transferred to the Dept. of Transportation in 1966.