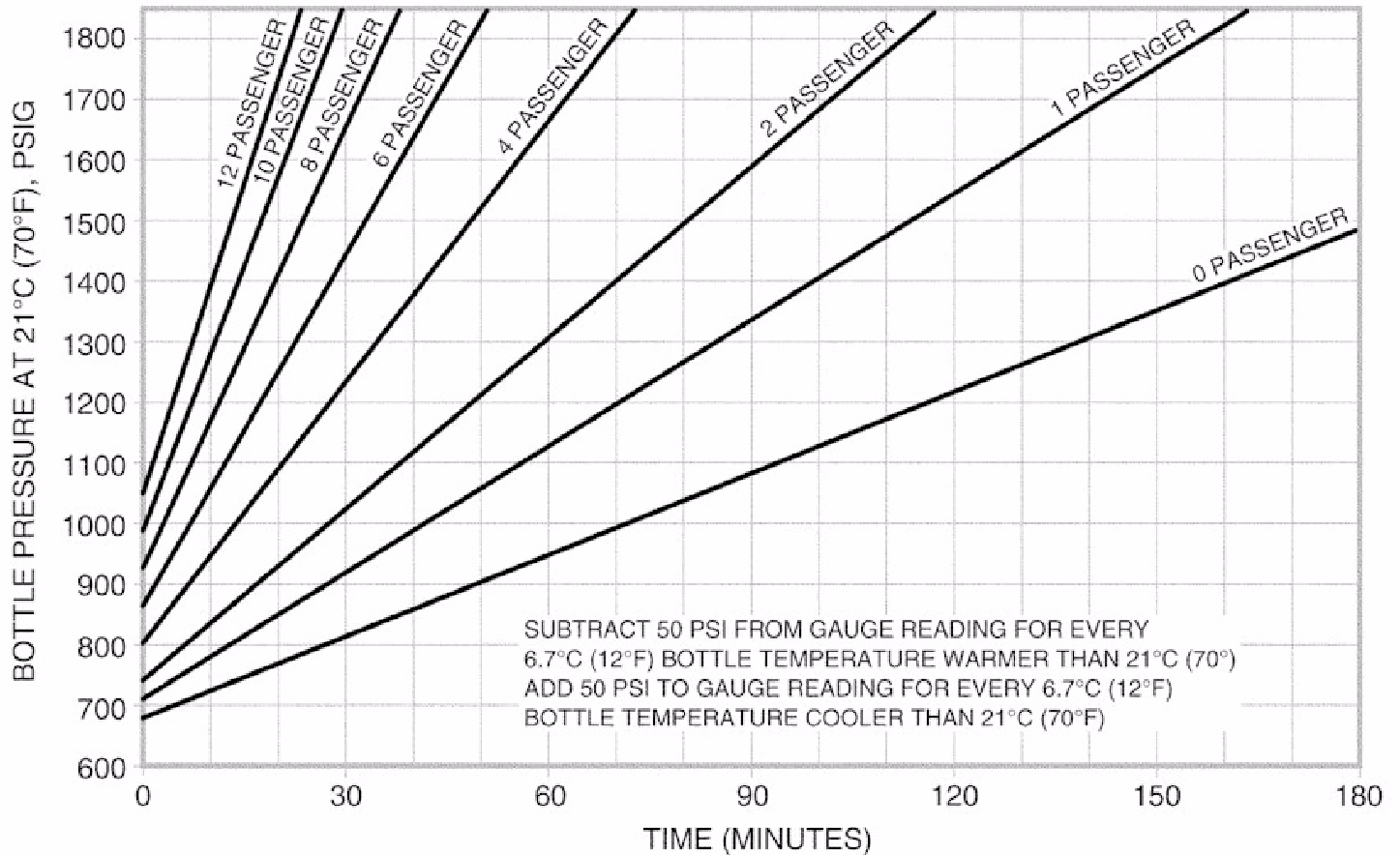


OXYGEN DURATION CHART & REQUIREMENTS

OXYGEN DURATION OF 76 CU. FT. BOTTLE

A40991



OXYGEN SUPPLY CHART EROS CREW OXYGEN MASK WITH 76-CUBIC FOOT CYLINDER WITH PASSENGER OXYGEN SEQUENCE REGULATOR

AVAILABLE TIME IN MINUTES								
CABIN ALTITUDE	1 COCKPIT	2 COCKPIT	2 COCKPIT, 2 CABIN	2 COCKPIT 4 CABIN	2 COCKPIT, 6 CABIN	2 COCKPIT, 8 CABIN	2 COCKPIT, 10 CABIN	2 COCKPIT, 12 CABIN
8000	1295	647	237	145	104	82	67	57
10,000	1487	743	250	151	108	84	69	58
15,000	1487	743	256	156	111	87	71	60
20,000	1167	584	240	151	110	87	71	61
25,000	634	317	181	127	98	79	67	58
27,000	732	366						
29,000	806	403						
31,000	906	453						
33,000	1023	512						
35,000	1153	577						
37,000	1312	656						
39,000	1599	800						

Oxygen Requirements:

FAR 135

* Above 25,000' mask on and used if one pilot leaves the cockpit.

* Above 35,000' one pilot with mask.

FAR 91/91K

* Above 35,000' mask on and used if one pilot leaves the cockpit.

* Above 41,000' one pilot with mask.

Pressurized Aircraft: Above 25,000' 10 minute supply for each occupant.
(FAR 135.157)

Eros Masks (Crew): Certified for 43,000'

Passenger Masks: Certified for 25,000'

Time of Useful Consciousness

* The time of useful consciousness can be reduced 30 to 50 percent when the decompression is rapid because of the sudden outward flow of oxygen from the body's tissue.

FL 430+ USAF 9-12 sec.

FL 400 USAF 15-20 sec.
 ALPA 15-20 sec.

FL 350 USAF 0.5-1 min.
 ALPA 30-40 sec.

FL 300 USAF 1.5-2 min.
 ALPA 50-60 sec.

FL 250 USAF 3-5 min.
 ALPA 1-2 min.

FL 180 20-30 min.

USAF's Aerospace Physiology (ATC Study Guide/Workbook P-V4A-AP-SW)
ALPA Airline Pilots Association

Signs of Hypoxia

- Rapid Breathing
- Cyanosis (*bluing discoloration of lips/finger nails*)
- Poor Coordination
- Lethargy
- Executing Poor Judgment

Symptoms of Hypoxia

- Fatigue
- Drowsiness
- Dizziness
- Headache
- Mental & Muscle Fatigue
- Nausea
- Breathlessness
- Hot & Cold Flashes
- Tingling
- Visual Impairment
- Euphoria

COLD WEATHER PROCEDURES

- When the aircraft has been exposed to prolonged (two hours or longer) ground temperatures below -10° C (+14° F), to ensure deployment of passenger oxygen masks, the cabin must be warmed to at least +10° C (+50° F) before flight above FL250.

AFM Page 2-23 / 3-107

- If the aircraft will be exposed to prolonged (two hours or longer) ground temperatures below 0° C (+32° F) remove the Crew Oxygen Masks

AFM 3-129