

The Type A-14 Pressure-Demand Regulator is essentially the A-12A regulator modified to permit adjustable spring-loading of the diaphragm so that positive pressure can be supplied. The demand valve spring is controlled manually by turning the pressure control knob, or dial, on the face of the regulator.

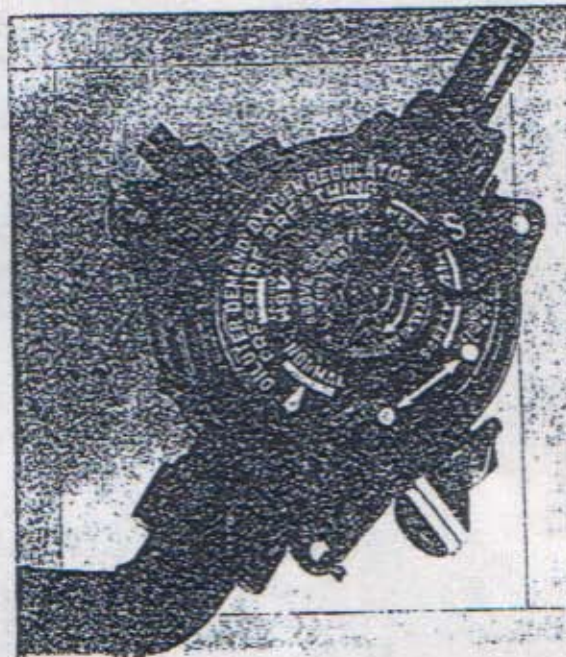
In non-pressurized aircraft the dial is set with reference to flight altitudes. In pressurized aircraft the dial is set with reference to cabin altitude. Advance the dial adjustment until you have reached the altitude.

Up to 30,000 feet, set the pressure control knob at NORMAL and the diluter lever at NORMAL OXYGEN. Use the regulator exactly as you would a straight demand regulator.

Between 30,000 and 40,000 feet, set the dial at SAFETY. This supplies oxygen to your mask at a pressure above that of the surrounding air, especially for protection against leakage of air into the mask.

At 40,000 feet and above, use the following dial settings:

| CABIN ALTITUDE WITH | DIAL SETTING |
|--|--------------|
| 40,000 feet PRESSURE | 41M |
| 41,000 feet DEMAND | 41M |
| 42,000 feet DEMAND | 43M |
| 43,000 feet MASK | 43M |
| 44,000 feet MASK | 45M |
| 45,000 feet MASK | 45M |
| Above 45,000 feet | 45M above |
| 48,000 feet - Absolute (for emergency use only) ceiling! | |



The flow indicator and pressure gage are not included in the regulator but are installed separately. Also, the Type A-14A has no special emergency valve. The pressure control knob can be used, however, to obtain an increased flow of oxygen. This is useful in the event of serious and uncorrectable mask leakage, but it should be done with caution under other circumstances. The use of this knob will result in greatly increased consumption, particularly at altitudes of 30,000 feet and below. When the use of oxygen is discontinued be sure that the regulator dial once again is set on NORMAL.

The Automatic Pressure-Demand Regulators include the features of the Type A-14 regulator. However, the pressure gage and flow meter are integral parts of the regulator.