

PNEUMATIC

GENERAL

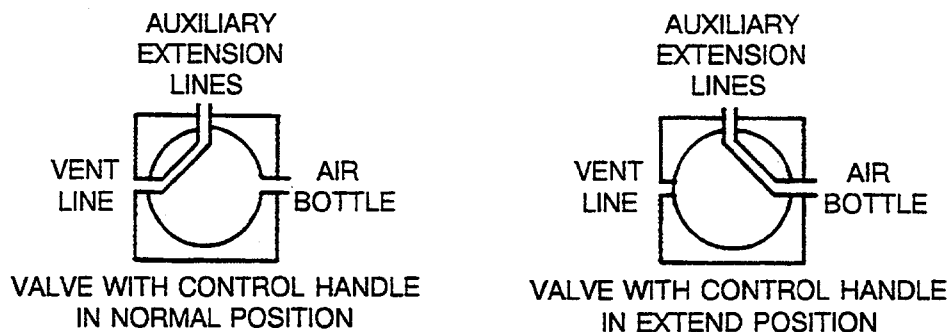
An air bottle which provides for emergency extension of the landing gear and/or emergency braking is located on the right side of the forward pressure bulkhead. The bottle is properly serviced at 1800-2050 PSI and can be checked on preflight by a gauge visible in the right forward baggage compartment. A relief valve on the bottle will rupture at 4000 PSI if the bottle becomes overpressurized.

The bottle has outlets to the vent line, the gear auxiliary extension line, and the brake air pressure line. In normal system configuration the landing gear auxiliary extension line is connected to the vent line through the position of the control valve.

When the collar-type knob on the EMERGENCY GEAR RELEASE PULL T-handle shaft is pulled, a valve is repositioned to direct air from the bottle through the auxiliary extension lines to the extend side of the landing gear actuators.

Emergency braking is controlled through a manually operated three-way pressure regulating valve. Air from the bottle is connected directly to the inlet port of the valve by the brake air pressure line. The outlet port is connected to the brakes and, when the emergency brake handle is in NORMAL position, is vented to an exhaust line. When the emergency brakes are applied, the vent is closed, the inlet port opens and high pressure air is applied to the brakes. Releasing the emergency brake handle opens the vent, relieving pressure. This allows modulation of the system to obtain the desired braking force. Each time the handle is cycled some air pressure is vented overboard, reducing the emergency bottle supply.

EMERGENCY AIR BOTTLE CONTROL VALVE



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Figure 2-16