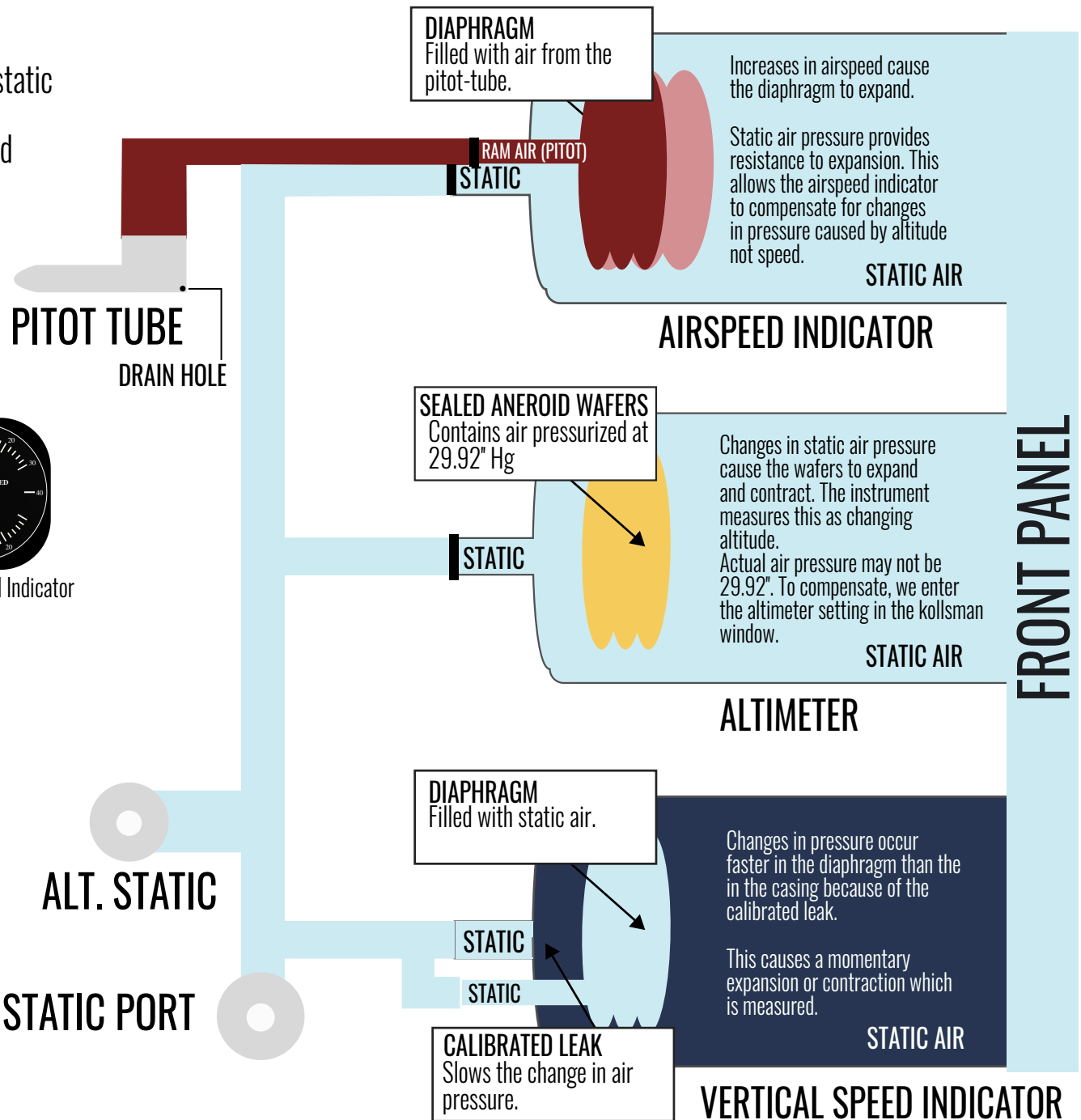


PITOT-STATIC INSTRUMENTS

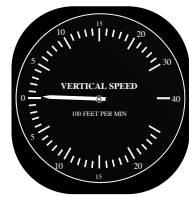
Pitot-static instruments work by comparing static air pressure from the static ports to either ram air pressure from the pitot-tube (airspeed indicator), standard atmospheric pressure of 29.92" Hg (altimeter), or static air pressure from several seconds prior (vertical speed indicator).



Airspeed Indicator



Altimeter



Vertical Speed Indicator

PITOT-STATIC FAILURES

Blocked pitot tube

Airspeed will indicate lower than normal or zero.

Blocked static port

Altimeter will freeze and VSI will show zero. Airspeed will increase in climb and decrease in a descent.

Blocked pitot tube and static port

All three instruments will be frozen.