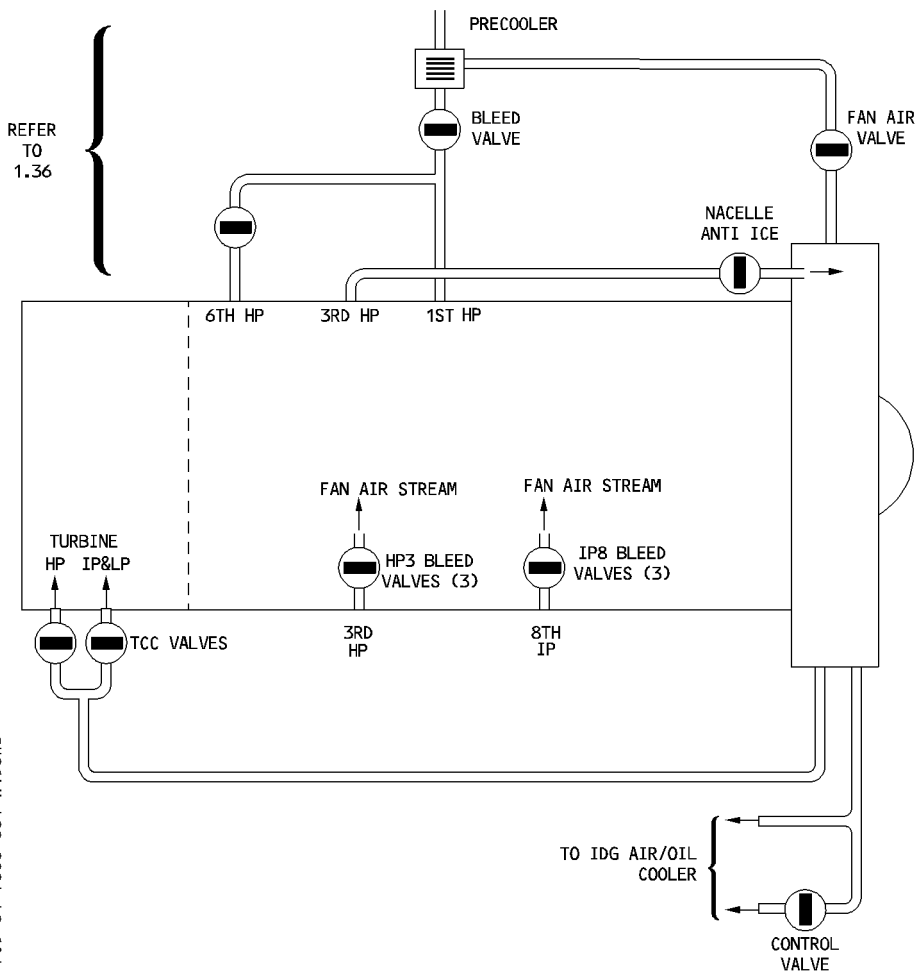


GENERAL

The air bleed system is provided for various aircraft uses.

It is used for :

- Pneumatic system (Refer to 1.36)
- Cooling the engine compartment and the turbine
- Cooling the engine and IDG oil
- Engine stability.



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COOLING

TURBINE CASE COOLING (TCC)

The TCC system is controlled by the FADEC to improve engine performance by controlling the intermediate pressure turbine blade tip clearance, and cooling the high pressure, intermediate pressure and low pressure turbine cases.

The TCC valves are controlled by the FADEC to modulate air flow depending on flight conditions.

The valves are fully open in cruise for optimal engine performance.

IDG COOLING

Fan air is used to cool the IDG oil through the air/oil cooler. A bypass valve opens when oil is too cold and cannot flow easily through the cooler.

ENGINE STABILITY

Two air bleed systems provide greater compressor stability in different flight phases. The volume of airflow through the intermediate pressure and low pressure compressors is regulated by three intermediate pressure stage 8, and three high pressure stage 3, bleed valves controlled by the FADEC. At low engine speed, the bleed valves are open to prevent engine stall.