Gasoline Fuel Systems
Gasoline Fuel Systems

• Divide the gasoline fuel system into three component areas:
  • Tanks and Plumbing
  • Filtration
  • Fuel Delivery System

Note the similarities to the diesel fuel system.
ABYC Gasoline Tank Requirements

Very similar to requirements for diesel tanks EXCEPT:

- NO openings are allowed below the tank top.

- Sight glasses are NOT allowed for determining fuel level.

- There will be future requirements for diurnal emissions from gasoline fuel systems. These have not been finalized yet.
Gasoline Fuel Delivery

• Carburetors

• Fuel Injection
Carburetors

- Air-Fuel Ratio
- Stoichiometric Mixture
- Venturi Effect
- Air Flow Rate
- Number of “Barrels”
- Orientation of barrels
2 BBL, Choke Plates Closed
2 BBL, Choke Plates Open
2 BBL, Throttle Plates Open
4 BBL Carburetor
4 BBL, Throttle Plates Open
Gasoline Fuel Injection

• Mostly electronic systems

• Single point (throttle body) F.I.

• Multi-Point (or Multi-Port) F.I

• Direct vs. Indirect F.I.
Gasoline Fuel Injector (Solenoid)
Next Lesson:

Cooling Systems, Exhaust Systems

Reading Assignment:
HBTW, pp. 35-40