

***USFS STANDARD FIRE ENGINE VALVES***  
***(Reference: USDA Forest Service Wildland Fire Engine Guide)***

- #1 - TANK TO PUMP - Flows water from the tank to the pump.
- #2 - PUMP TO TANK - Flows water from the pump to the tank.
- #3 - OVERBOARD DISCHARGE - Flows water from the pump to the main discharge lines.
- #4 - HOSE REEL - Flows water from the pump to the hose reel(s).
- #5 - AUXILIARY DISCHARGE - Flows water from the pump to an engine protection discharge.
- #6 - PRIMER - With the priming unit, allows the centrifugal pump to be primed.
- #7 - ADJUSTABLE PRESSURE RELIEF - Relieves excess pressure, preventing pump damage.
- #8 - OVERBOARD SUCTION - Flows water from an external source to pump.
- #9 - 40 GALLON RESERVE - Flows reserve 40 gallons to the pump.
- #10 - IN-TANK SHUT-OFF - Shuts off water in the tank to the pump.
- #11 - PUMP & PLUMBING DRAIN - Drains water from the pump and plumbing.
- #12 - PUMP COOLANT CLEAN-OUT - Flushes debris from plumbing.
- #13 - GRAVITY TANK DRAIN - Drains water tank.
- #14 – FOAM BYPASS – Water routed around foam unit (Clean water discharge).
- #15 - PUMP TRANSFER - Switches the pump to either parallel or series operation
- #16 - ENGINE COOLER - Circulates cool water from engine.
- #17 - PUMP BYPASS - Circulates water from the pump back to the tank for pump cooling.
- #18 - LOW VOLUME GRAVITY - Gravity discharge for backpack fill.
- #19 – CLEAN WATER DISCHARGE – 1.5” overboard discharge plumbed prior to the foam injection.
- #20 – FEEDER VALVE – For clean water discharge and #2 valve.