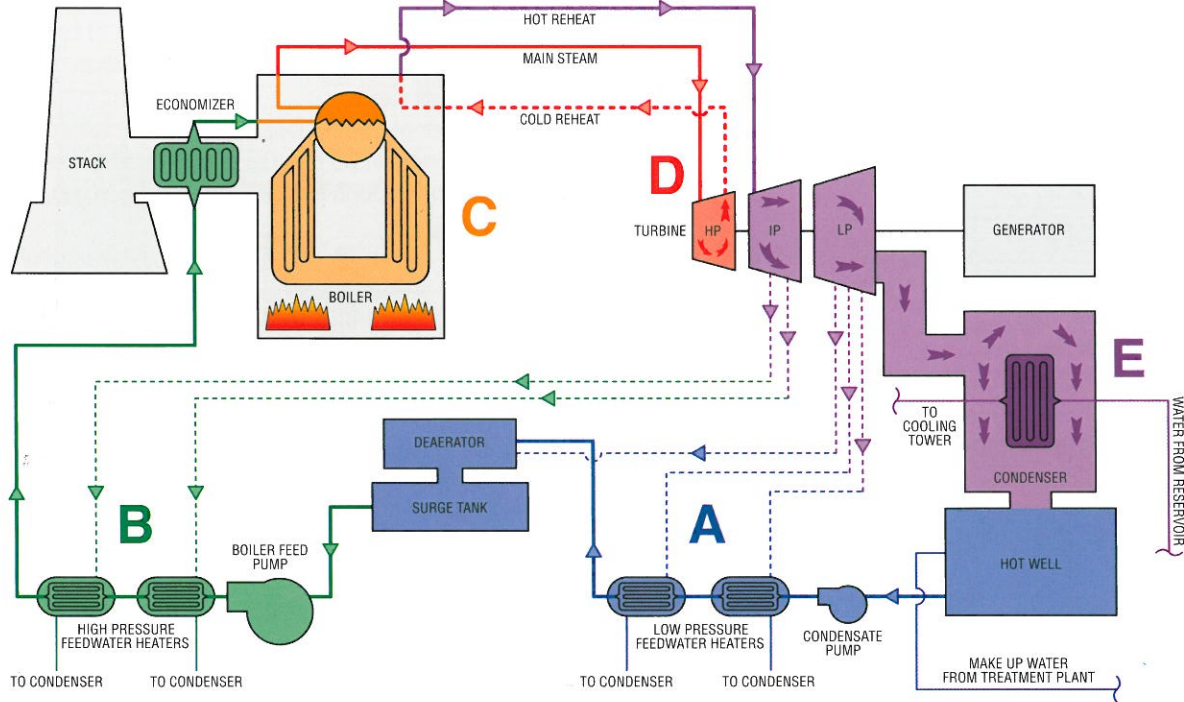


# MOGAS Valve Installations

## Typical Fossil Fueled Power Plant

### Water/Steam Flow Loop



#### A Condensate System

- Deaerator Vent / Instrument Isolation
- Isolation Valves on Bypass Lines
- Extraction Steam Drain / Orifice Isolation
- Feedwater Heater Drain / Vent
- Shell Side Instrument Isolation

#### B HP Feedwater

- BFP Discharge Isolation
- BFP Shell or Case Drain
- BFP Minimum Flow Isolation
- BFP Warming Line Isolation / Drain
- Reheat / Superheat Spray Isolation
- Feedwater Heater Isolation / Bypass
- Bypass Valves
- Shell Side Vent / Instrument Isolation
- Tube Side Drain / Instrument Isolation
- Economizer Drain

#### C Boiler System

- Drum Blowdown Root Valve / Isolation Vents
- Drum Instrument Isolation
- Sight-Glass Isolation / Drain
- Water Wall Drain / Vent / Instrument Isolation
- Tandem Blowdown
- Mass Boiler Blowdown
- Primary Superheat Drain / Vent / Instrument Isolation
- Secondary Superheat Drain / Vent / Instrument Isolation
- Reheat Drain / Vent / Instrument Isolation
- Superheat Spray Isolation
- Superheater Spray Automated Blocking
- Reheater Spray Isolation Blocking

#### D HP Turbine Steam Supply and Extraction Systems

- Supply & Extraction Systems
- Main Steam Drain / Root Drain
- Main Steam Before & After Seat Drain / Root Drain
- Main Steam Lead Drain / Root Drains
- Turbine Bypass Isolation
- Bypass Valves

#### E IP & LP Turbine Steam Supply and Extraction Systems

- Supply Extraction Systems
- Hot Reheat Drain / Root Drain
- Hot Reheat at the CRV Drain / Root Drain
- IP & LP Turbine Extraction Drain / Orifice Isolation

### Auxiliary Systems

#### Sootblower Piping System

- Sootblowing Header Isolation / Blocking
- Sootblower Regulator Automated Isolation
- Blocking Valves after the Control Valves
- Sootblower System Crossover Header Isolation
- Sootblower Bank Isolation
- Individual Sootblower Isolation
- Air Heater Sootblower Steam Supply Line Shutoff
- Sootblower Thermal Drains / Bypass

#### HP & LP Steam Supply System to the BFP Turbine

- Main Steam Supply Isolation Valve
- HP BFP Steam Supply Drain / Root Drain
- HP BFP Below & Above Seat Drain / Root Drain
- Isolation Valves on the Bypass Lines
- Extraction Steam Supply to LP BFP Turbine Drains
- LP BFP Below & Above Seat Drain

#### Inerting Steam System

- Inert Steam Inlet to Pulverizer Blocking / Automated Isolation
- Steam Supply to Inerting System Pressure Regulator Isolation
- Extraction Steam Supply Line to the Inerting Steam Header Drain
- Isolation Valves on the Bypass Lines
- Inerting System Steam Header Thermal Drain