

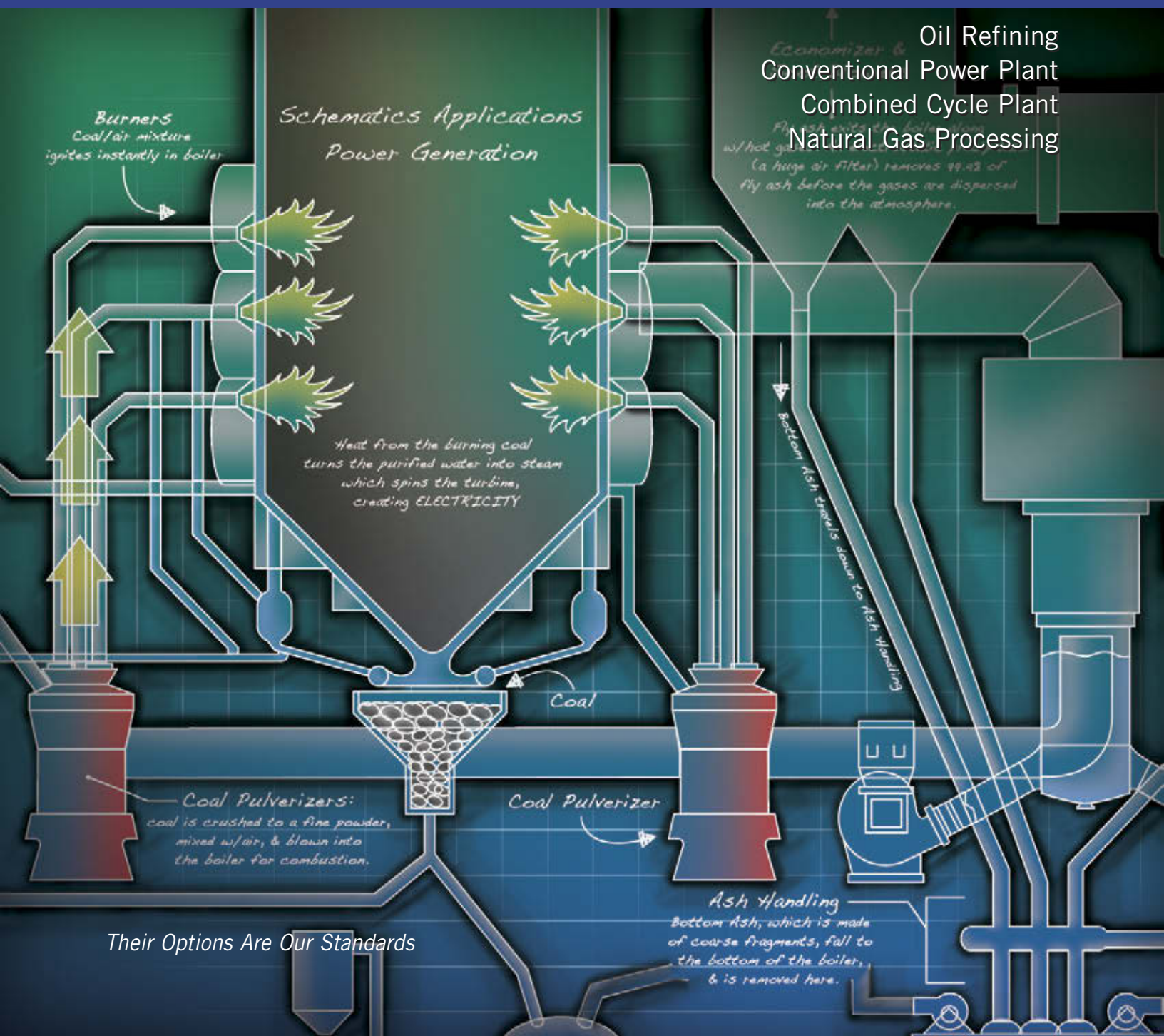
Valve Applications for Processing,
Refining and Power Generation



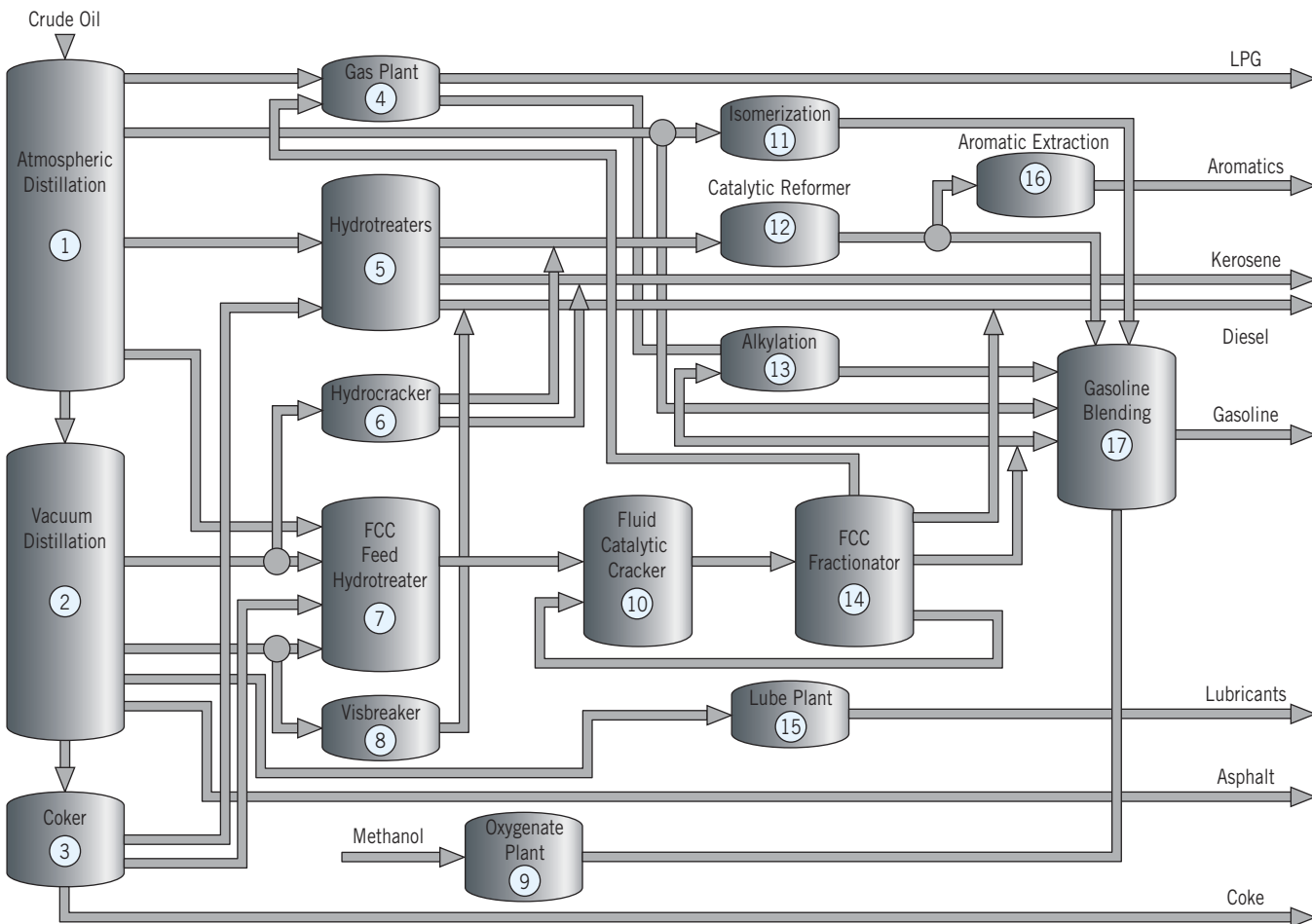
AGFT COMPANY

By Union Tech

Valve Application Schematics



Their Options Are Our Standards



Oil Refining Application, Applicable Valves and Operational Systems

1. Atmospheric Distillation

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

2. Vacuum Distillation

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

3. Coker

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

4. Gas Plant

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

5. Hydrotreaters

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

6. Hydrocracker

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

7. FCC Feed Hydrotreater

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

8. Visbreaker

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

9. Oxygenate Plant

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

10. Fluid Catalytic Cracker

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

11. Isomerization

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

12. Catalytic Reformer

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

13. Alkylation

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

14. FCC Fractionator

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

15. Lube Plant

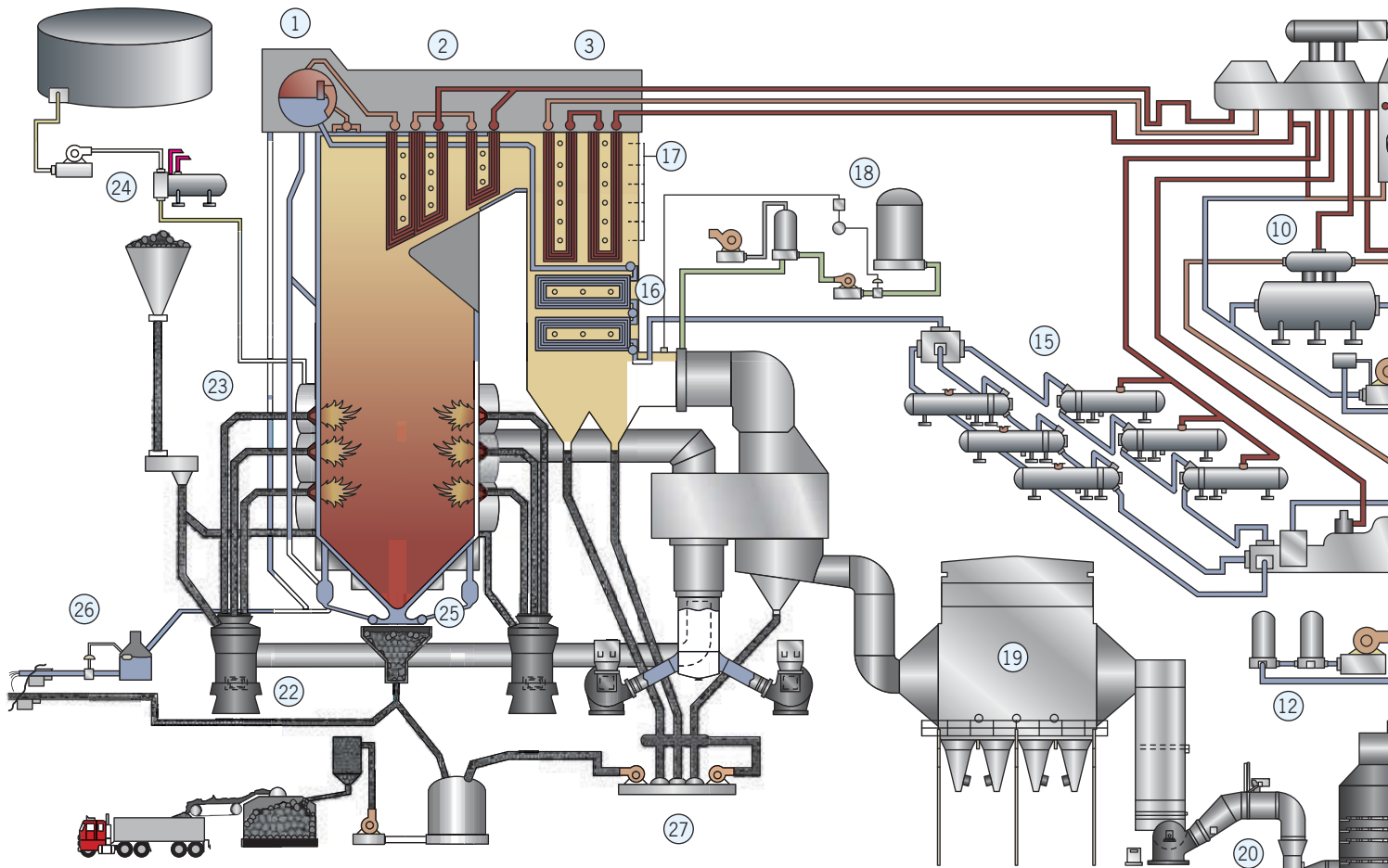
- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

16. Aromatic Extraction

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection

17. Gasoline Blending

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Gauges
- Pressure Relief Valves:
Pilot Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical
Service Valves
- Steam Traps
- Tank Protection



Conventional Power Plant Application, Applicable Valves and Operational Systems

1. Drum

- Blowdown Valves
- Check Valves
- Drain Valves
- Elbow Down Valves
- Isolation Valves
- Liquid Level Valves & Gauges
- Safety Valves
- Vent Valves

2. Superheater

- Check Valves
- Control Valves
- Desuperheaters
- Electronic Level Detection
- Electronic Relief Valves
- HP By-pass Station
- Safety Valves
- Vent Valves

3. Reheater

- Check Valves
- Control Valves
- Desuperheaters
- Drain Valves
- Electronic Relief Valves
- HRH By-pass Station
- Isolation Valves
- Isolation Device
- Safety Valves
- Vent Valves

4. Steam Turbine With Condenser

- Desuperheaters
- Extraction/Induction Check Valves
- Liquid Level Valves & Gauges
- Main Steam Isolation
- Pilot Operated Safety Relief Valves
- Safety Relief Valves
- Start-up/By-pass Valves
- Turbine Drain Valves
- Turbine Protection Valves
- Vent Valves

5. Cooling Water Circulation

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves

6. Water Intake & Treatment

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves

7. Condensate Pumps

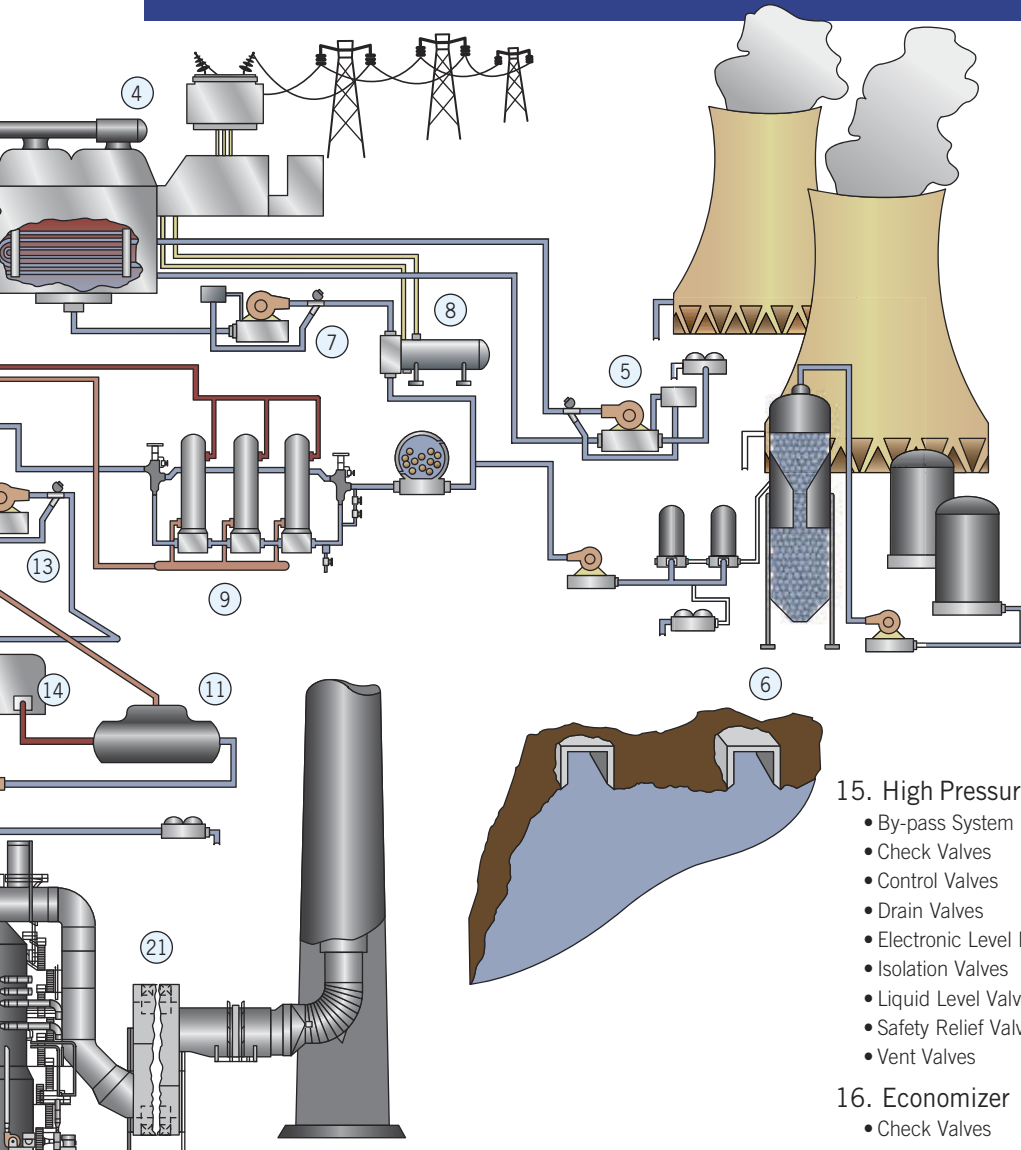
- Check Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves

8. Heat Exchanger

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves
- Vent Valves

9. Low Pressure Heaters

- By-pass System
- Check Valves
- Control Valves
- Drain Valves
- Electronic Level Detection
- Isolation Valves
- Liquid Level Indicators
- Safety Relief Valves
- Vent Valves



- 10. Deaerator**
- Check Valves
 - Control Valves
 - Drain Valves
 - Isolation Valves
 - Liquid Level Valves & Gauges
 - Safety Relief Valves
 - Vent Valves

- 11. Evaporator**
- Check Valves
 - Drain Valves
 - Isolation Valves
 - Liquid Level Valves & Gauges
 - Safety Relief Valves
 - Vent Valves

- 12. Make-up Water**
- Check Valves
 - Drain Valves
 - Isolation Valves
 - Liquid Level Valves & Gauges
 - Pump Protection Valves
 - Safety Relief Valves

- 13. Boiler Feed Booster Pumps**
- Check Valves
 - Drain Valves
 - Isolation Valves
 - Pump Protection Valves
 - Safety Relief Valves

- 14. BFWP Turbine**
- Check Valves
 - Desuperheater
 - Drain Valves
 - Isolation Valves
 - Pump Protection Valves
 - Pilot Operated Safety Relief Valves
 - Safety Relief Valves
 - Start-up Control Valves
 - Turbine Protection Valves
 - Vent Valves

- 15. High Pressure Heaters**
- By-pass System
 - Check Valves
 - Control Valves
 - Drain Valves
 - Electronic Level Detection
 - Isolation Valves
 - Liquid Level Valves & Gauges
 - Safety Relief Valves
 - Vent Valves

- 16. Economizer**
- Check Valves
 - Drain Valves
 - Isolation Valves
 - Safety Valves
 - Vent Valves

- 17. Soot Blowers**
- Check Valves
 - Control Valves
 - Drain Valves
 - Isolation Valves
 - Safety Valves
 - Vent Valves

- 18. SCR Storage & Injection**
- Check Valves
 - Control Valves
 - Drain Valves
 - Isolation Valves
 - Liquid Level Valves & Gauges
 - Pump Protection Valves
 - Pilot Operated Safety Relief Valves
 - Safety Relief Valves
 - Safety Selector Valves

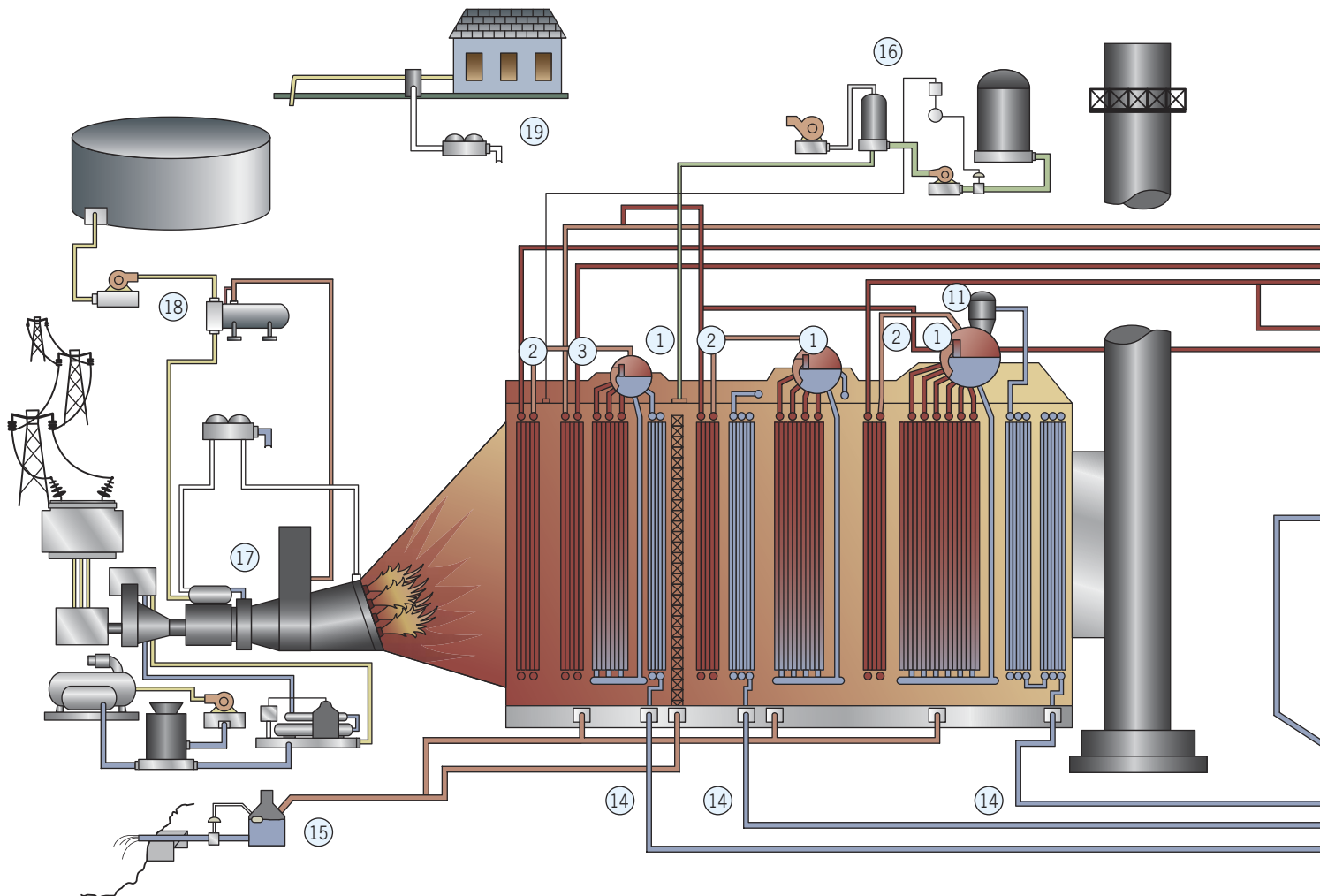
- 19. Bag House**
- Isolation Valves
- 20. Scrubber**
- Isolation Valves
- 21. Precipitator**
- Isolation Valves
- 22. Coal Pulverizers**
- Isolation Valves
- 23. Burners**
- Isolation Valves
- 24. Fuel Storage and Distribution**
- Check Valves
 - Detonation & Flame Arresters
 - Drain Valves
 - Emergency Vent
 - Gauge Hatches & Manhole Covers
 - Internal Tank Valves & Operators
 - Isolation Valves
 - Liquid Level Valves & Gauges
 - Pilot Operated Pressure/Vacuum Valves
 - Safety Relief Valves
 - Tank Blanketing Regulators

- 25. Mud Drums**
- Blow-off Valves
 - Continuous Blowdown Valves
 - Drain Valves

- 26. Flash Tank**
- Check Valves
 - Discharge Control Valves
 - Drain Valves
 - Liquid Level Valves & Gauges
 - Safety Relief Valves

- 27. Ash Handling**
- Control Valves
 - Isolation Valves
 - Pilot Operated Safety Relief Valves
 - Transport Valves

- 1. Thru 27.**
- Actuators
 - Enclosures
 - Hand Valves & Manifolds
 - Steam Traps



Combined Cycle Plant Application, Applicable Valves and Operational Systems

1. Drum (HP, IP, LP)

- Blowdown Valves
- Check Valves
- Drain Valves
- Elbow Down Valves
- Electronic Relief Valves
- Isolation Valves
- Liquid Level Valves & Gauges
- Safety Valves
- Vent Valves

2. Superheater (HP, IP, LP)

- Check Valves
- Control Valves
- Desuperheaters
- Drain Valves
- Electronic Level Detection
- Electronic Relief Valves
- HP By-pass Station
- Safety Valves
- Vent Valves

3. Reheater

- Check Valves
- Control Valves
- Desuperheaters
- Drain Valves
- Electronic Relief Valves
- HRH By-pass Station
- Isolation Valves
- Isolation Device
- Safety Valves
- Vent Valves

4. Steam Turbine With Condenser

- Desuperheaters
- Extraction/Induction Check Valves
- Liquid Level Valves & Gauges
- Main Steam Isolation
- Pilot Operated Safety Relief Valves
- Safety Relief Valves
- Start-up/By-pass Valves
- Turbine Drain Valves
- Turbine Protection Valves
- Vent Valves

5. Cooling Water Circulation

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves

6. Water Intake & Treatment

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves

7. Condensate Pumps

- Check Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves

8. Heat Exchanger

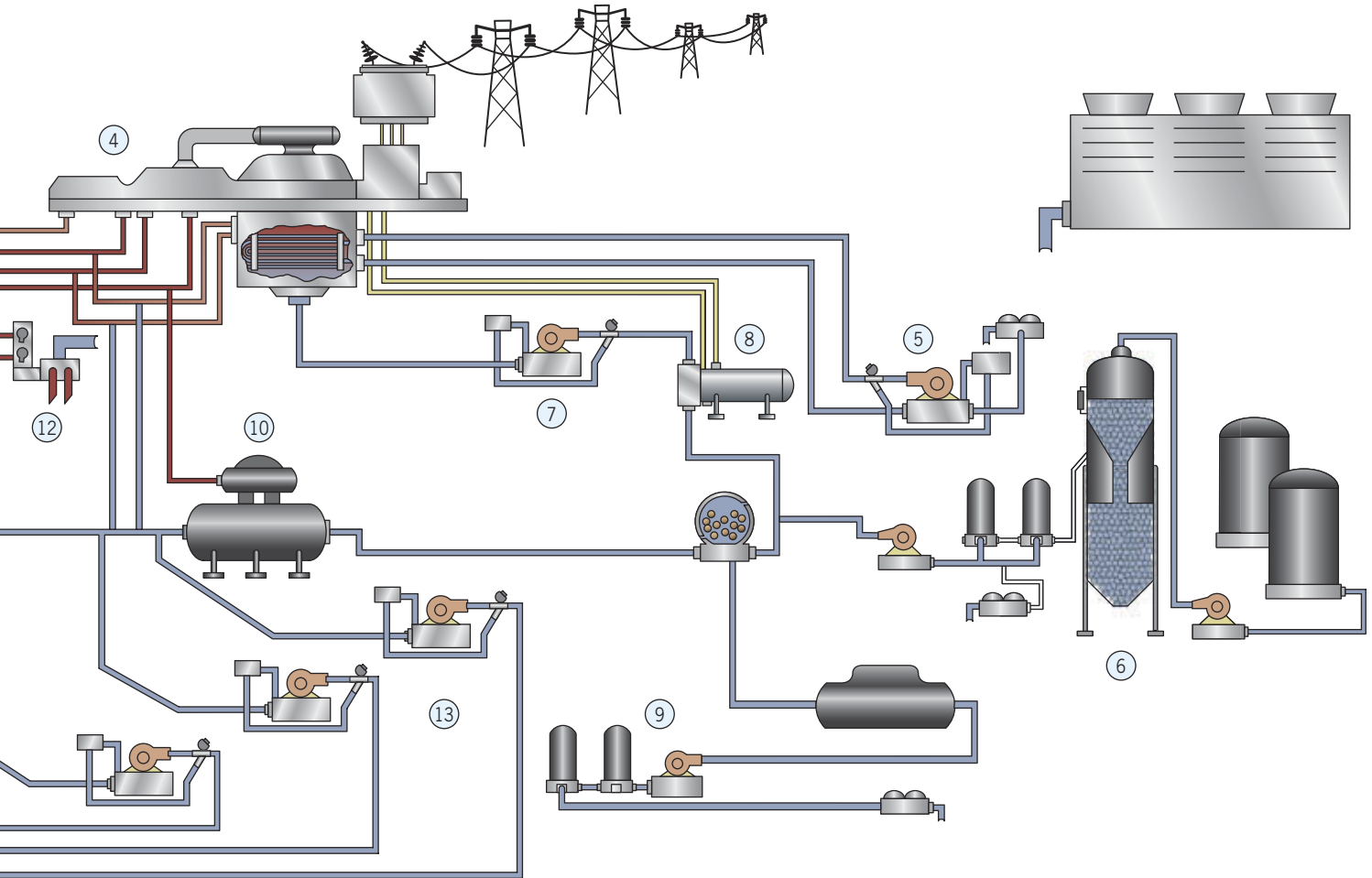
- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves
- Vent Valves

9. Make-up Water

- Check Valves
- Drain Valves
- Isolation Valves
- Liquid Level Valves & Gauges
- Pump Protection Valves
- Safety Relief Valves

10. Deaerator

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Safety Relief Valves
- Vent Valves



11. LP Drum Deaerator

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Liquid Level Valves & Gauges
- Safety Relief Valves
- Vent Valves

12. Process & Export Steam

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Safety Relief Valves
- Vent Valves

13. Feed Water Storage & Distribution (HP, IP, LP)

- By-Pass System
- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Liquid Level Valves & Gauges
- Pump Protection Valves

14. Economizers (HP, IP, LP)

- Check Valves
- Drain Valves
- Isolation Valves
- Safety Valves
- Vent Valves

15. Flash Tank

- Check Valves
- Discharge Control Valves
- Drain Valves
- Isolation Valves
- Liquid Level Valves & Gauges
- Safety Relief Valves

16. SCR Storage & Injection

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Liquid Level Valves
- Pump Protection Valves
- Pilot Operated Safety Relief Valves
- Safety Relief Valves
- Safety Selector Valves

17. Combustion Turbine

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Pump Protection Valves
- Safety Relief Valves

18. Fuel Storage & Distribution

- Check Valves
- Detonation & Flame Arresters
- Gauge Hatches & Manhole Covers
- Internal Tank Valves & Operators
- Liquid Level Valves & Gauges
- Pilot Operated Pressure/Vacuum Valves
- Safety Relief Valves
- Tank Blanketing Regulators

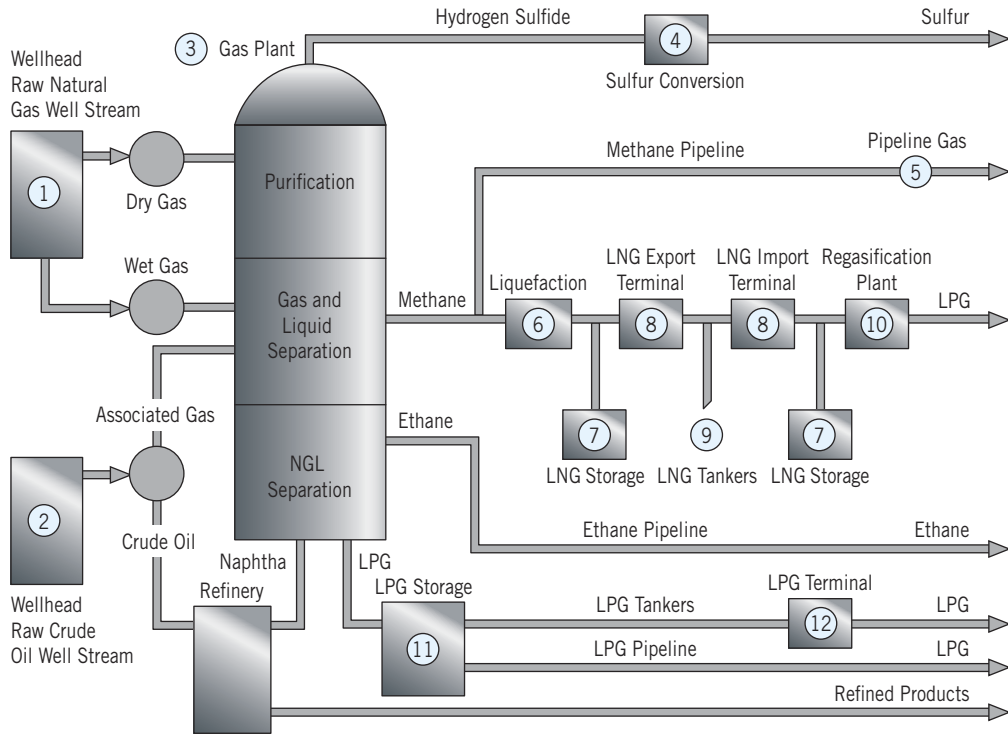
19. Gas Pipeline (Custody Transfer Station)

- Check Valves
- Control Valves
- Drain Valves
- Isolation Valves
- Pilot Operated Safety Relief Valves
- Safety Relief Valves

1. Thru 19.

- Actuators
- Enclosures
- Hand Valves & Manifolds
- Steam Traps

Natural Gas Processing



8. LNG Export/Import Terminal

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Indicating Systems
- Pressure Relief Valves: Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Tank Protection

9. LNG Tankers

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Indicating Systems
- Pressure Relief Valves: Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Tank Protection

10. Regasification

- Actuators & Control Systems
- Check Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Indicating Systems
- Pressure Relief Valves: Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical Service Valves

11. LPG Storage &

12. LPG Terminal

- Actuators & Control Systems
- Check Valves
- Control Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Indicating Systems
- Pressure Relief Valves: Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Tank Protection

Natural Gas Processing Application, Applicable Valves and Operational Systems

1. Wellhead-Natural Gas

- Instrumentation Products

2. Wellhead-Crude Oil

- Instrumentation Products

3. Separation

- Actuators & Control Systems
- Check Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Indicating Systems
- Pressure Relief Valves: Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Tank Protection

4. Sulfur Conversion

- Actuators & Control Systems
- Check Valves
- Instrumentation Products
- Isolation Valves
- Pressure Relief Valves: Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Severe & Critical Service Valves
- Tank Protection

5. Pipeline Gas

- Actuators & Control Systems
- Check Valves
- Instrumentation Products
- Isolation Valves
- Pressure Relief Valves: Pilot & Spring Operated
- Safety Selector Valves
- Severe & Critical Service Valves

6. Liquefaction

- Actuators & Control Systems
- Check Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Indicating Systems
- Pressure Relief Valves: Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves

7. LNG Storage

- Actuators & Control Systems
- Check Valves
- Instrumentation Products
- Isolation Valves
- Liquid Level Indicating Systems
- Pressure Relief Valves: Pilot & Spring Operated
- Pump Protection Products
- Safety Selector Valves
- Tank Protection

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