

# Emerson Pressure Relief Valve Solutions

## Advanced, Reliable and Efficient Overpressure Protection for Power Plants

Emerson is a trusted leader in the power generation industry with a comprehensive portfolio of automation products and services including its Ovation™ distributed control system and pressure relief technologies. Both operate within the PlantWeb™ digital ecosystem to enable measurable performance improvement in the areas of production, reliability and safety. With over 140 years of experience in the design, production and service of pressure relief valves, Emerson's broad range of overpressure protection solutions are internationally recognized through brands such as Anderson Greenwood, Crosby, Kunkle and Sempell. Our pressure relief valves are applicable to all types of power generating assets including conventional fossil, nuclear, combined cycle, hydroelectric and solar photovoltaic plants.



### Reliability and Safety

Emerson's rigorous testing capabilities simulate actual plant conditions to ensure safe, compliant and reliable pressure relief valve performance.



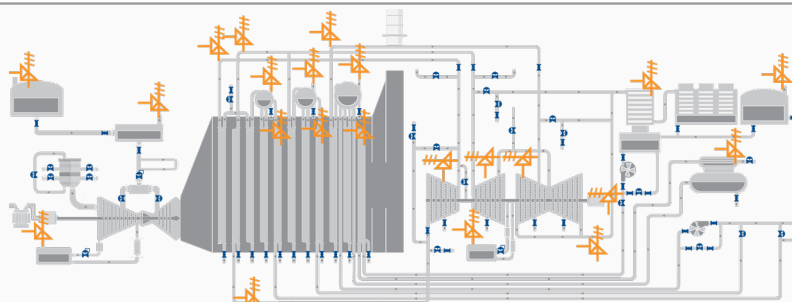
### Industry Leadership

Trusted around the globe, Emerson offers the most comprehensive range of pressure relief valves designed for power generation applications.



### Comprehensive Support

Every Emerson-supplied pressure relief valve is manufactured by a dedicated team with unmatched engineering and technical expertise.



*A typical combined cycle power plant relies on numerous pressure relief valves for safe operation of HRSG, balance-of-plant, combustion turbine and steam turbine processes.*

# Proven and Supported Overpressure Protection

## Pressure Relief Valves for Critical Power Generation Applications

### Crosby



Series  
HSJ



Series  
HCA-I



Series  
JOS

### Kunkle



Series  
6000



Series  
900

### Anderson Greenwood



Series 5200  
Pilot Operated



Series  
200



Safety  
Selector Valve

Emerson provides customized solutions to help power generators meet their unique challenges and requirements, including the installation and maintenance of:

- **Boiler safety valves** to protect the drum, superheater, reheater and economizer
- **Balance-of-plant valves** to improve asset efficiency in boiler feedwater, deaerator, condensate pumps, gas pipelines, flash tanks and others
- **Pilot and direct spring valve technology** for steam, air/gas and liquid as well as other medias

As part of Emerson's PlantWeb digital ecosystem, our pressure relief valves can be monitored wirelessly through the Ovation control system, providing advanced detection of leaks as well as other cycling- or flow-related issues.

Emerson pressure relief valves are certified to a range of regional and global safety standards including ASME Sections I, IV, and VIII; European Standards ISO 4126 and PED; Chinese SELO; Russian CUTR; CRN; ISO 9001; UL and FM.



Unlike other safety valves, Emerson's **Anderson Greenwood Safety Selector valve** is specifically designed to meet ASME Code Case 2254 for Section I boiler protection. This pressure relief valve changeover device provides a safe and efficient method of switching from an active to a standby valve while maintaining system overpressure protection.

The benefits of installing an Anderson Greenwood Safety Selector valve include:

- Less than 3% pressure drop to pressure relief valve inlet, no oversizing required
- Low installation costs
- Compact, lightweight design
- Pressure relief valve field testing and pressure bleed
- Foolproof, safe and easy switching
- Easy-to-see active pressure relief valve indicator