

Boiler Safety Valves



Crosby Style HSJ

Full nozzle safety valve for saturated and superheated steam service.

The Style HSJ is the work-horse for medium pressure boilers.

- It is also certified for economizer applications when a spring loaded safety valve is preferred.
- Two control rings design FLEXIDISC® seat to ensure a flat and tight seal.
- High flow coefficient of discharge for most economical valve selection.
- Certified per ASME I.



Crosby Style HE IsoFlex®

The HE is a high capacity safety valve, specifically designed for boiler drum service, saturated steam applications.

- The backpressure-assist combined with the IsoFlex® seat design provides premium operation and seat tightness on these highly critical applications.
- Seat tightness 93% of set pressure.
- Two control rings design.
- Backpressure-assist closing feature and patented educator control to ease adjustments.
- Weld end valves shipped as two assemblies to minimize installation time and labor.
- Certified per ASME I.

Crosby Style HCI IsoFlex®

The HCI provides exacting protection for boiler drums and super-heaters, reheaters or any other high pressure steam applications.

- Available with restricted lift for full flexibility according to the needs of the application.
- Seat tightness 93% of set pressure or higher.
- Two control rings design.
- IsoFlex® seat design technology.
- Weld end valves shipped as two assemblies to minimize installation time and labor.
- Restricted lift from 100% to 30% (HCI-R).
- Full flexibility to balance the relieving capacity requirements between the boiler valves.
- Certified per ASME I.



Sempell

Sources:



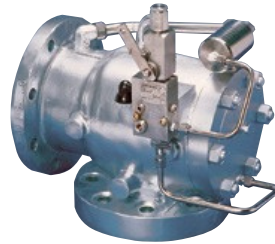
Emerson Product Brochure:
Pressure Relief Valves Product Overview



Crosby Style HCA IsoFlex®

Super-critical boilers need particular design considerations for their very demanding pressure protection. The HCA has been specifically developed for super-critical steam applications, building on the extensive experience and tests accumulated by our engineers.

- Seat tightness 93% of set pressure or higher.
- Two control rings design.
- IsoFlex® seat design technology.
- Weld end valves shipped as two assemblies to minimize installation time and labor.
- Restricted lift to match exactly the capacity required to flow.
- Certified per ASME I.



Anderson Greenwood Series 727

With a full metal seat configuration both in the main valve and the pilot, the Series 727 is a unique pop action pilot operated safety valve to handle any hot gas or process steam application.

- Full metal configuration.
- Dampening functions to increase life cycle.
- Adjustable blowdown 3 to 15%.
- Manifolded dual pilot configuration available for ease of maintenance and operation.
- Field test connection, and complete scope of accessories and configurations.



Anderson Greenwood Series 5200

Developed specifically to address economizer applications requiring premium performance on both steam and hot water mixed phase. Being a fully modulating pilot operated safety valve, the Series 5200 is the ideal solution to this difficult application.

- Metal seat tightness to 96% of set.
- Non-lowering full modulating pilot.
- Unique condensate trap to handle changing service conditions between steam and water.
- Field test connection, and complete scope of accessories and configurations.
- Certified per ASME I.



Sempell Type SOH / SOT

These Controlled Safety Pressure Relief Systems (CSPRS) use an actuator to provide perfectly controlled performance in pressure protection in full compliance of EN and TRD requirements.

- These valves can be fully customized to perfectly suit the requirements of the application for seat tightness, overpressure and blowdown performances.
- Helical spring (Type SOH) or disc spring (Type SOT) for larger valves.
- Combined with STE4 electro-pneumatic control unit or STE5 pneumatic control unit, with redundancies and in-line checks.
- TÜV type-tested to PED & EN4126-5.



Sempell Type EPRV

This power-actuated relief valve provides venting capacity as required for ASME I boilers.

- The SEP valve is pneumatically actuated by the STE8 control unit for total control of the performances of the valve.
- Forged body construction.
- Helical or disc spring.
- Adjustable small opening and closing pressure difference.
- Adjustments and checks possible without lowering the system pressure.
- Easy in-line maintenance.
- Certified per ASME I.