

SEBIM[®] PILOT OPERATED PRESSURE RELIEF VALVES





MAIN STREAM LINES OVERPRESSURE PROTECTION



RCS RHR OVERPRESSURE PROTECTION



RCS RHR OR SMR MAIN STREAM LINES OVERPRESSURE PROTECTION

PRG 3000 - SUPER COMPACT SINGLE SAFETY VALVE

Sizes: DN 100 – DN 400 (4" - 16")

Pressure: From 1 to 40 MPa (145 to 5800 PSI)

Temperature: High Temperature Applications up to 600°C (1100° F)

Pressure Class: ASME Class 150# – 2500# or customized

Applications

- On all type of nuclear reactors (PWR, BWR, CANDU PHWR, RBMK LWGR, HTGR, ...)
- RCS / RHR overpressure protection
- Qualified for Inside & outside reactor containment
- Safety functions during accidental conditions (Feed & bleed ...)

Features and Benefits

- Excellent operation whatever the type of medium: steam, gas , liquid or two phases
- Prevent LOCA (Loss of Coolant Accident): Possibility to use the unique feature to guarantee a reliable closing (Emergency Shut Off (ESO))



CTSV 3000 - COMPACT TANDEM SAFETY VALVES

Sizes: DN 100 – DN 400 (4" - 16")

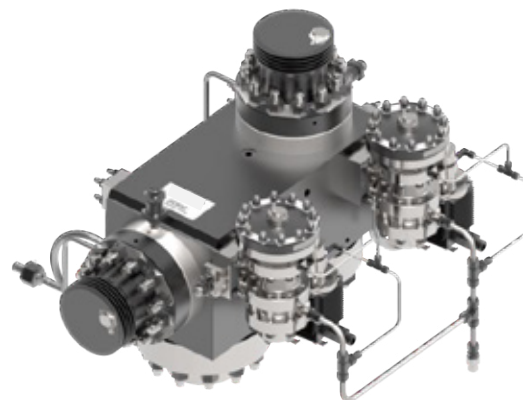
Pressure: From 1 to 40 MPa (145 to 5800 PSI)

Temperature: High Temperature Applications up to 600°C (1100° F)

Pressure Class: ASME Class 150# – 2500# or customized

Applications

- On all type of nuclear reactors (PWR, BWR, CANDU PHWR, RBMK LWGR, HTGR, ...)
- High & low pressure overpressure protection on steam, water, gas or mixture lines
- Qualified for Inside & outside reactor containment
- Safety functions during accidental conditions (Feed & bleed, ...)



PRG 2000 - TANDEM SAFETY VALVES

Since 1981, SEBIM™ RCS tandem has been installed in a large number of Nuclear Power Plants worldwide, with reactors from 600 MW up to 1450 MW including the 58 French PWR reactors



DSM 3000 - SMALL SIZE REACTOR SAFETY VALVE

Sizes: DN 15 – DN 65 (1/2" – 2"1/2)

Pressure: From 1 to 20 MPa (145 to 2900 PSI)

Temperature: High Temperature Applications up to 600°C (1100° F)

Pressure Class: ASME Class 150# – 2500# or customized

Applications

- On all type of nuclear reactors (PWR, BWR, CANDU PHWR, RBMK LWGR, HTGR, ...)
- SMR primary and secondary coolant safety valves
- Qualified for inside & outside reactor containment
- Safety functions during accidental conditions (Feed & bleed ...)

Features and Benefits

- Leak tightness up to the set-pressure minimises the mechanism's rate of ageing



SCGVG 3000 – SUPER COMPACT STEAM GENERATOR SAFETY VALVE

Sizes: DN 100 – DN 400 (4" - 16")

Pressure: From 1 to 20 MPa (145 to 2900 PSI)

Temperature: High Temperature Applications up to 600°C (1100° F)

Pressure Class: ASME Class 600# – 2500# or customized

Applications

- Steam generator safety valves for PWR, VVER, EPR & CANDU,
- Flow rate up to 1600t/h (Saturated steam)

Features and Benefits

- Forged body carbon steel - Special material upon request
- Leak tightness up to the set-pressure minimises the mechanism's rate of ageing
- Soft opening/closing decreases load on surrounding equipment



COMMON FEATURES AND BENEFITS OF SEBIM™ PRODUCTS

- Accuracy of pilot set pressure value with repeatability better than 1%
- Low or high pressure in-situ test during operation for preventive maintenance
- Perfect stability even when flow capacities are well below the maximum rate
- No erosion of sealing faces, no chattering and reduced maintenance
- Non-flowing pilot valve minimises mechanism's rate of ageing
- Proven perfect reliability
- Compact design, reduced size and weight
- Interfaces (upstream & downstream pipes) customized to special constrain
- Improved Leak tightness compared to spring loaded safety valves

SERVICES AND TRAINING

- Worldwide support for onsite service, annual outage and maintenance
- Life extension upgrade and expansion
- Training for WPI France valves servicing
- Training for expert in system design



SPECIAL TOOLS

- Mobil Adjustment and Testing System (MATS) use latest version of software and highest equipment standard in order to maintain our piloted safety valves
- Operational setting verification can be done on line with or without pressure in the protected system
- Set pressure checking report is done automatically



- The Sebim® products equip more than 160 nuclear reactors worldwide Each product fits to the relevant standards & regulation and is qualified accordingly (Including RCC-M, ASME, OTT, IEEE, NNSA, ESPN...).



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