



# Consolidated\* 1700 Series Safety Valve

GE's Consolidated\* Maxiflow\* high pressure safety valves are premium products that are installed on a majority of power generating stations worldwide to protect boilers from overpressure conditions.

<b>Inlet Sizes</b>	1-1/2" through 6" in either flanged or weld neck design
<b>Inlet Ratings</b>	ANSI Class 600 through 4500
<b>Outlet Sizes</b>	3" through 10" flanged
<b>Outlet Ratings</b>	ANSI Class 150 and 300
<b>Orifice Sizes</b>	Eleven sizes: 1 through RR
<b>Temperature Range</b>	-20°F to 1120°F
<b>Materials</b>	Alloy and carbon steel cast body with stainless steel trim is standard. Special alloys are available for specific applications.
<b>Certification</b>	ASME B & PVC Section I and VIII
<b>Blowdown</b>	3%
<b>Back Pressure Limit</b>	25% of Set Pressure

Consolidated pressure relief valves have been leaders in the industry since 1879, thus offering over a century of experience in design, engineering and product manufacture. GE's history of dependable and reliable valve service assures that today's products and designs are consistent with the industry's current requirements. Rigid manufacturing standards controlled by an ASME approved Quality Assurance Program and a certified/registered ISO 9001 Quality Assurance Program ensure that each valve will be manufactured in accordance with established design criteria and tested for functional performance. This quality-controlled manufacturing and testing program assures that each valve manufactured will provide long and reliable service.

Evidence of this quality is a Green Tag\* certification attached to the valve following final test and inspection.

Our Green Tag certification serves as a reminder that each Consolidated valve meets or exceeds the stringent performance and overpressure protection requirements set forth by the ASME.

Consolidated ASME Code Sections I and VIII Spring Loaded Pressure Relief Valves have been flow tested in accordance with the applicable ASME Code rules for the establishment of rated capacities and are listed in The National Board of Boiler and Pressure Vessel Inspectors publication "Pressure Relieving Device Certifications."

Additionally, the symbol also represents our Green Tag Centers. These centers are fully certified by GE as Consolidated valve assembly and repair facilities. They also meet or exceed the standards of the ASME and the National Board. Contact the authorized Green Tag Center in your local area to fill your immediate needs for Consolidated pressure relief valves.



## Valve Selection

Determine the required orifice designation by using the appropriate capacity table in the Consolidated 1700 Valve Technical Specifications. Using the required set pressure, select the capacity that exceeds the relieving capacity requirements and note the orifice size and designation.

If applicable, correct the capacity for superheat conditions. Refer to the superheat correction table in the Consolidated 1700 Valve Technical Specifications. Multiply the saturated capacity by the correct superheat correction factor. The correct capacity must meet or exceed the capacity requirements.

Locate the valve type in the appropriate scope of design section and complete the valve selection. Review the required weights, dimensions, materials, and connections.