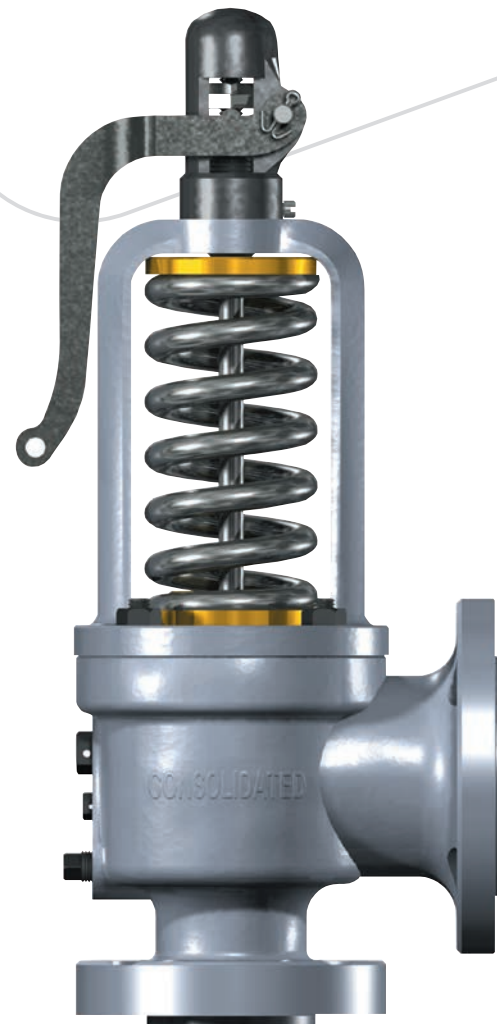


# Consolidated™ 1811 Series Safety Valve

The Consolidated 1811 Series Safety Valve is a cost-effective, high-capacity, flanged steel safety valve designed for steam service.

## Features & Benefits

- A variety of pressure/temperature classes, orifice sizes and inlet/outlet combinations provide a flexible selection of safety valves to meet industrial needs at the lowest cost.
- Low spindle bearing point and concentric spindle loading virtually eliminate the natural tendency for the disc to assume a horizontal position during the opening and closing cycle of the valve.
- The mechanical flexibility of the *Thermodisc*™ allows the system pressure to assist in sealing the contact surface between the valve seat and Thermodisc.
- Seal welding the seat bushing into the base assures no leakage of steam past the threaded area of the seat bushing.
- Dual ring adjustments allow fine tuning of the safety valve performance characteristics needed to meet the steam system conditions that vary at each installation. A sharp, clean opening assures long valve seat life and reduced maintenance costs. Consistent opening and closing pressures contribute to efficient steam system operation.



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### Note:

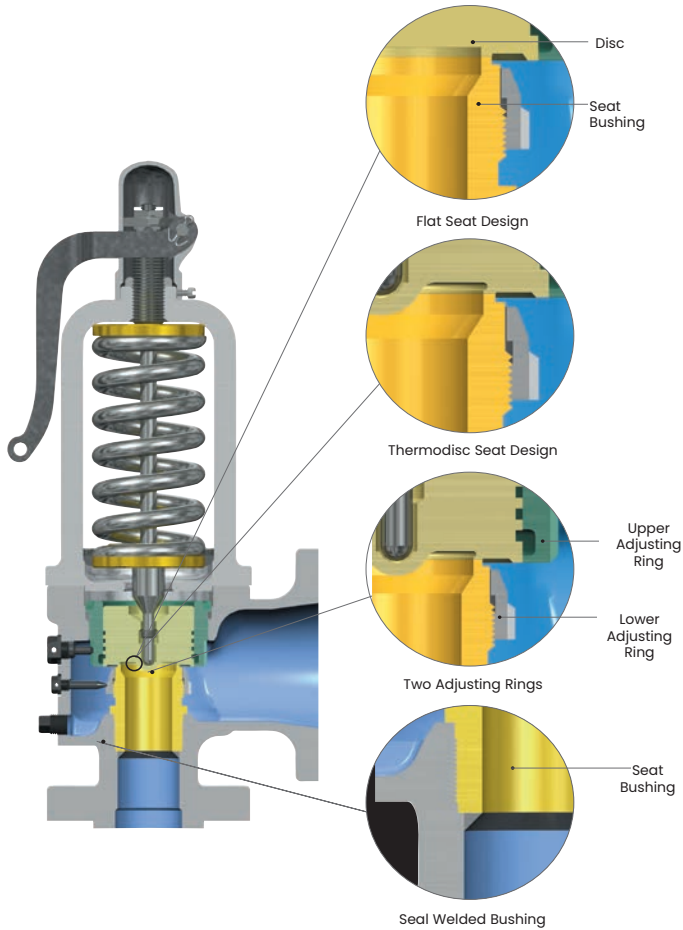
Because the 1811 Series valve is not totally enclosed, upon actuation the system media will escape from the following locations:

1. The valve outlet that is the main discharge area.
2. The open yoke, which will also allow a small amount of steam to exhaust vertically.
3. The drain hole at the base of the valve.

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# Specifications



<b>Inlet Sizes</b>	1.25" (31.75 mm) through 6" (152.4 mm) flanged
<b>Inlet Ratings</b>	ASME Class 300 & 600
<b>Outlet Sizes</b>	1.5" (38.1 mm) through 8" (203.2 mm) flanged
<b>Outlet Ratings</b>	ASME Class 150
<b>Orifice Sizes</b>	Ten sizes: F through Q
<b>Temperature Range</b>	-20°F to 1000°F (-28.9°C to 537.8°C)
<b>Materials</b>	Alloy and carbon steel cast body with stainless steel trim is standard.
<b>Certifications</b>	ASME B&PVC Section I and VIII
<b>Blowdown</b>	4 percent
<b>Back Pressure Limit</b>	20 percent of Set Pressure

Maximum Set Pressure <sup>1,2</sup>						
Temperature			Pressure Class			
°F	°C	Valve Temp Class	300		600	
750	399	1811B	320	22.06	725	49.99
950	510	1811D	320	22.06	640	44.12
1000	538		215	14.82	430	29.65

- For intermediate temperatures, interpolation is permitted per ASME B16.34, 1996 edition, paragraph 2.1.
- For set pressures higher than those listed, factory approval is required.