



1811 Series

Consolidated® Safety Valve





Table of Contents

Features & Benefits	1811.1
Scope of Design	1811.3
Materials	1811.5
Dimensions & Weights	1811.6
Orifice Capacities	1811.8
How to Order a 1811 Safety Valve	1811.15
Valve Configuration Code	1811.16

Conversion Table

All the USCS values are converted to Metric values using the following conversion factors:

USCS Unit	Conversion Factor	Metric Unit
in.	25.4	mm
lb.	0.4535924	kg
in ²	6.4516	cm ²
ft ³ /min	0.2831685	m ³ /min
gal/min	3.785412	L/min
lb/hr	0.4535924	kg/hr
psig	0.6894757	barg
ft lb	1.3558181	Nm
°F	5/9 (°F-32)	°C

CONSOLIDATED TYPE 1811 safety valve is a cost effective, high capacity, flanged steel safety valve designed for steam service.



INLET SIZES	1.25" (31.75 mm) through 6" (152.4 mm) flanged
INLET RATINGS	ANSI Class 300 & 600
OUTLET SIZES	1.5" (38.1 mm) through 8" (203.2 mm) flanged
OUTLET RATINGS	ANSI Class 150
ORIFICE SIZES	Ten sizes: F through Q
TEMPERATURE RANGE	-20°F (-28.9°C) to 1000°F (537.8°C)
MATERIALS	Alloy and carbon steel cast body with stainless steel trim is standard.
CERTIFICATION	ASME B & PVC Section I and VIII
BLOWDOWN	4%
BACK PRESSURE LIMIT	20% of Set Pressure

! CAUTION

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

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



Features & Benefits

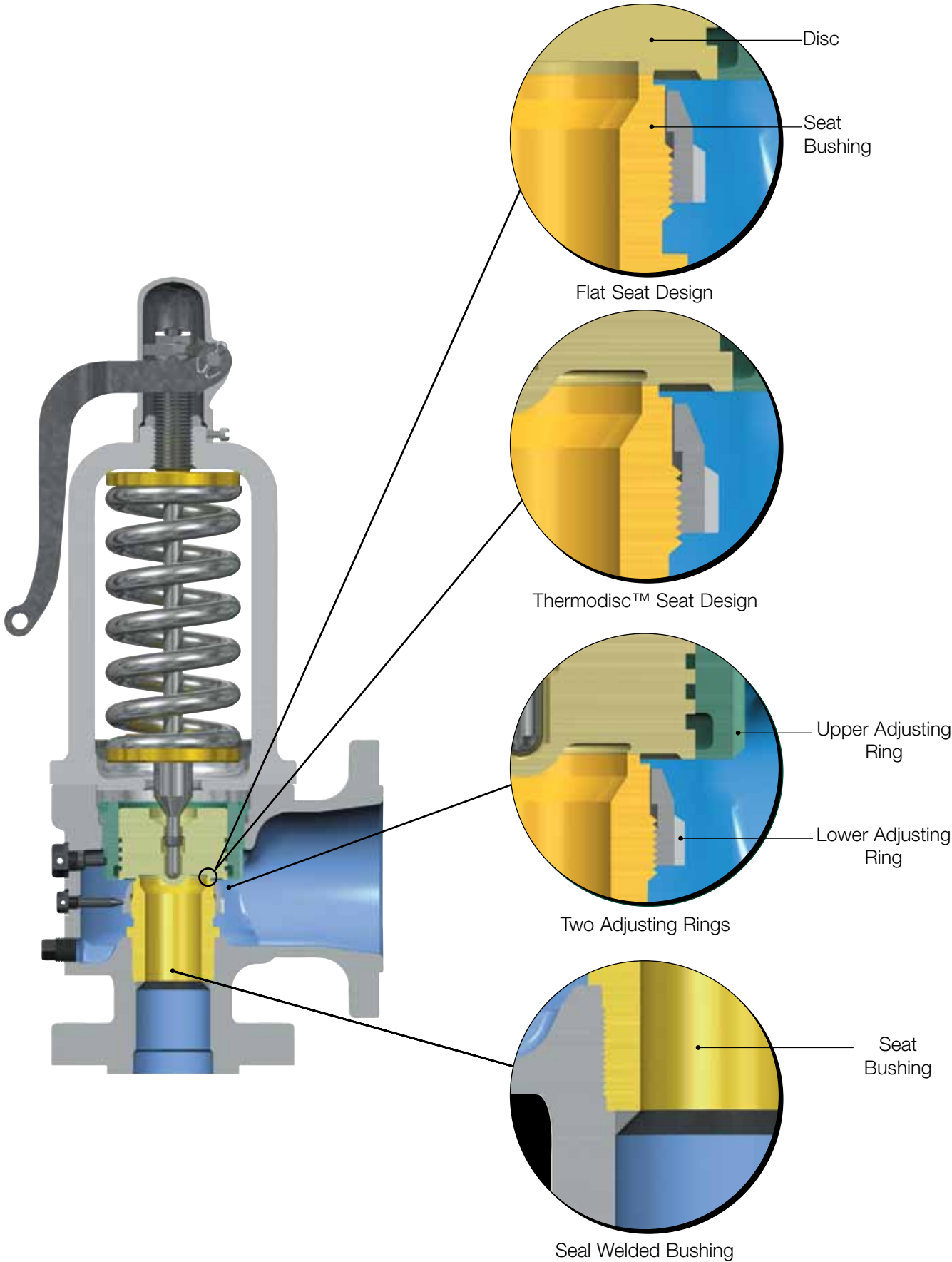
- A variety of pressure/temperature classes, orifice sizes and inlet/outlet combinations provide a flexible selection of safety valves to meet industrial needs at the lowest cost.
- Low spindle bearing point and concentric spindle loading virtually eliminates the natural tendency for the disc to assume 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's performance characteristics needed to meet steam system conditions which vary at each installation. Sharp, clean opening assures long valve seat life and reduced maintenance cost. Consistent opening and closing pressures contribute to efficient steam system operation.

Maximum Set Pressure*

Temperature			Pressure Class			
°F	°C	Valve Temp. Class	300		600	
			psig	barg	psig	barg
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 ANSI B16.34, 1996 edition, paragraph 2.1.
 * For set pressures higher than those listed, factory approval is required.

Features & Benefits (Contd.)



Scope of Design

Flanged Inlet - Type 1811, class 300

Inlet (Note 2)			Outlet			Type Numbers		Orifice		
ANSI Std. R.F. Flange			ANSI Std. R.F. Flange			Maximum Temperature (Note 1)		Discharge area		Designation
Size		Class	Size		Class	750°F (399°C)	1000°F (538°C)	in ²	cm ²	
in.	mm		in.	mm						
1.25	31.8	300	1.50	38.1	150	1811FB	1811FD	.307	1.981	F
1.25	31.8	300	1.50	38.1	150	1811GB	1811GD	.503	3.245	G
1.50	38.1	300	2.50	63.5	150	1811HB	1811HD	.785	5.065	H
1.50	38.1	300	2.50	63.5	150	1811JB	1811JD	1.287	8.303	J
2.00	50.8	300	3.00	76.2	150	1811KB	1811KD	1.840	11.871	K
2.50	63.5	300	4.00	101.6	150	1811LB	1811LD	2.853	18.406	L
3.00	76.2	300	4.00	101.6	150	1811MB	1811MD	3.600	23.226	M
4.00	101.6	300	6.00	152.4	150	1811NB	1811ND	4.340	28.000	N
4.00	101.6	300	6.00	152.4	150	1811PB	1811PD	6.380	41.161	P
6.00	152.4	300	8.00	203.2	150	1811QB	1811QD	11.050	71.290	Q

Flanged Inlet - Type 1811, class 600

Inlet (Note 2)			Outlet			Type Numbers		Orifice		
ANSI Std. R.F. Flange			ANSI Std. R.F. Flange			Maximum Temperature (Note 1)		Discharge area		Designation
Size		Class	Size		Class	750°F (399°C)	1000°F (538°C)	in ²	cm ²	
in.	mm		in.	mm						
1.25	31.8	600	1.50	38.1	150	1811FB	1811FD	.307	1.981	F
1.25	31.8	600	1.50	38.1	150	1811GB	1811GD	.503	3.245	G
1.50	38.1	600	2.50	63.5	150	1811HB	1811HD	.785	5.065	H
1.50	38.1	600	2.50	63.5	150	1811JB	1811JD	1.287	8.303	J
2.00	50.8	600	3.00	76.2	150	1811KB	1811KD	1.840	11.871	K
2.50	63.5	600	4.00	101.6	150	1811LB	1811LD	2.853	18.406	L
3.00	76.2	600	4.00	101.6	150	1811MB	1811MD	3.600	23.226	M
4.00	101.6	600	6.00	152.4	150	1811NB	1811ND	4.340	28.000	N
4.00	101.6	600	6.00	152.4	150	1811PB	1811PD	6.380	41.161	P
6.00	152.4	600	8.00	203.2	150	1811QB	1811QD	11.050	71.290	Q

Notes

1. To determine the maximum allowable pressure at a given temperature refer to the appropriate pressure/temperature table.
2. Available with ANSI B16.5 flange facings. See page 1811.16 & 1811.17 for selections.

Scope of Design (Contd.)

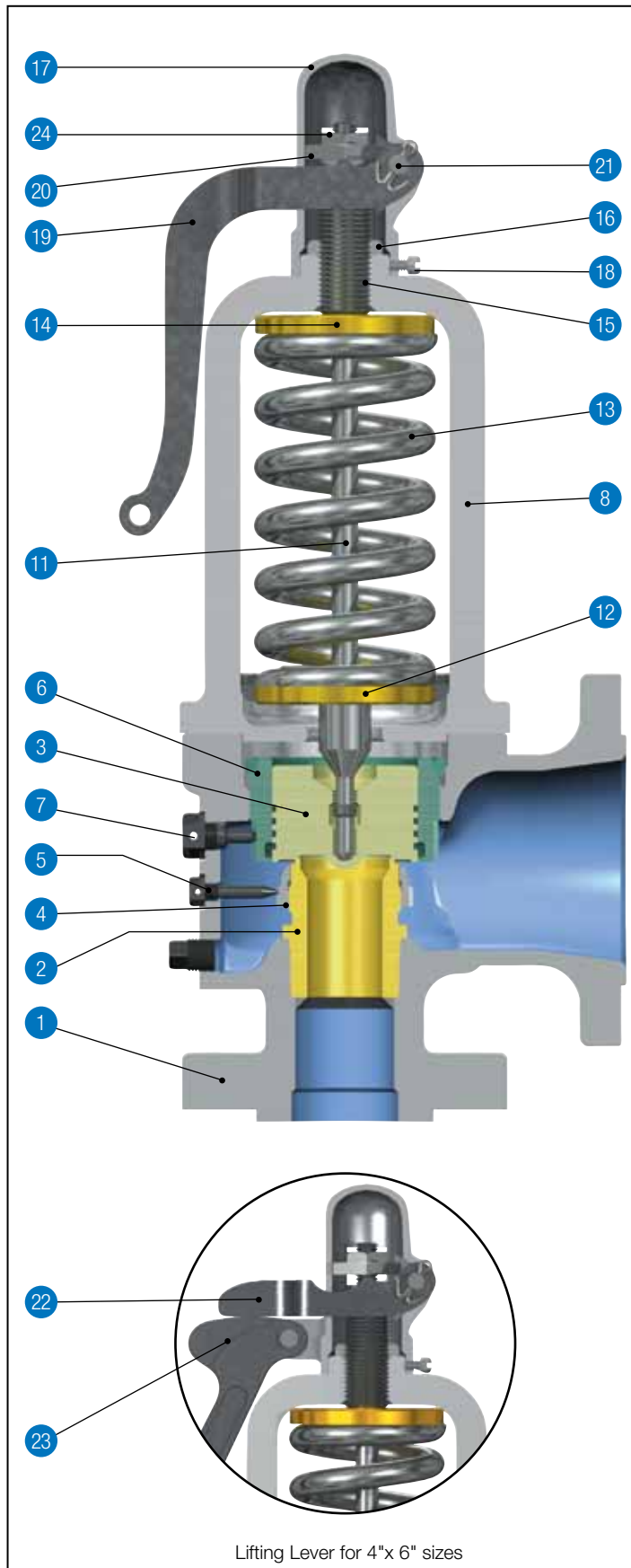
Flanged Inlet - Type 1811, class 300 alternate inlet and outlet sizes for replacement valves only

Inlet			Outlet			Type Numbers		Orifice		
ANSI Std. R.F. Flange			ANSI Std. R.F. Flange			Maximum Temperature		Discharge area		Designation
Size		Class	Size		Class	750°F (399°C)	1000°F (538°C)	in ²	cm ²	
in.	mm		in.	mm						
1.50	38.1	300	1.50	38.1	150	1811FB	1811FD	.307	1.981	F
2.00	50.8	300	1.50	38.1	150	1811FB	1811FD	.307	1.981	F
1.50	38.1	300	1.50	38.1	150	1811GB	1811GD	.503	3.245	G
2.00	50.8	300	1.50	38.1	150	1811GB	1811GD	.503	3.245	G
2.00	50.8	300	2.50	63.5	150	1811HB	1811HD	.785	5.065	H
2.50	63.5	300	2.50	63.5	150	1811HB	1811HD	.785	5.065	H
2.00	50.8	300	2.50	63.5	150	1811JB	1811JD	1.287	8.303	J
2.50	63.5	300	2.50	63.5	150	1811JB	1811JD	1.287	8.303	J
2.00	50.8	300	4.00	101.6	150	1811KB	1811KD	1.840	11.871	K
2.50	63.5	300	4.00	101.6	150	1811KB	1811KD	1.840	11.871	K
2.50	63.5	300	4.00	101.6	150	1811KB	1811KD	1.840	11.871	K
3.00	76.2	300	3.00	76.2	150	1811KB	1811KD	1.840	11.871	K
3.00	76.2	300	4.00	101.6	150	1811KB	1811KD	1.840	11.871	K
2.50	63.5	300	6.00	152.4	150	1811LB	1811LD	2.853	18.406	L
3.00	76.2	300	6.00	152.4	150	1811LB	1811LD	2.853	18.406	L
3.00	76.2	300	6.00	152.4	150	1811LB	1811LD	2.853	18.406	L
4.00	101.6	300	6.00	152.4	150	1811LB	1811LD	2.853	18.406	L
3.00	76.2	300	6.00	152.4	150	1811MB	1811MD	3.600	23.226	M

Flanged Inlet - Type 1811, class 600 alternate inlet and outlet sizes for replacement valves only

Inlet			Outlet			Type Numbers		Orifice		
ANSI Std. R.F. Flange			ANSI Std. R.F. Flange			Maximum Temperature		Discharge area		Designation
Size		Class	Size		Class	750°F (399°C)	1000°F (538°C)	in ²	cm ²	
in.	mm		in.	mm						
1.50	38.1	600	1.50	38.1	150	1811FB	1811FD	.307	1.981	F
2.00	50.8	600	1.50	38.1	150	1811FB	1811FD	.307	1.981	F
1.50	38.1	600	1.50	38.1	150	1811GB	1811GD	.503	3.245	G
2.00	50.8	600	1.50	38.1	150	1811GB	1811GD	.503	3.245	G
2.00	50.8	600	2.50	63.5	150	1811HB	1811HD	.785	5.065	H
2.50	63.5	600	2.50	63.5	150	1811HB	1811HD	.785	5.065	H
2.00	50.8	600	2.50	63.5	150	1811JB	1811JD	1.287	8.303	J
2.50	63.5	600	2.50	63.5	150	1811JB	1811JD	1.287	8.303	J
2.00	50.8	600	4.00	101.6	150	1811KB	1811KD	1.840	11.871	K
2.50	63.5	600	4.00	101.6	150	1811KB	1811KD	1.840	11.871	K
2.50	63.5	600	4.00	101.6	150	1811KB	1811KD	1.840	11.871	K
3.00	76.2	600	3.00	76.2	150	1811KB	1811KD	1.840	11.871	K
3.00	76.2	600	4.00	101.6	150	1811KB	1811KD	1.840	11.871	K
2.50	63.5	600	6.00	152.4	150	1811LB	1811LD	2.853	18.406	L
3.00	76.2	600	6.00	152.4	150	1811LB	1811LD	2.853	18.406	L
3.00	76.2	600	6.00	152.4	150	1811LB	1811LD	2.853	18.406	L
4.00	101.6	600	6.00	152.4	150	1811LB	1811LD	2.853	18.406	L
3.00	76.2	600	6.00	152.4	150	1811MB	1811MD	3.600	23.226	M

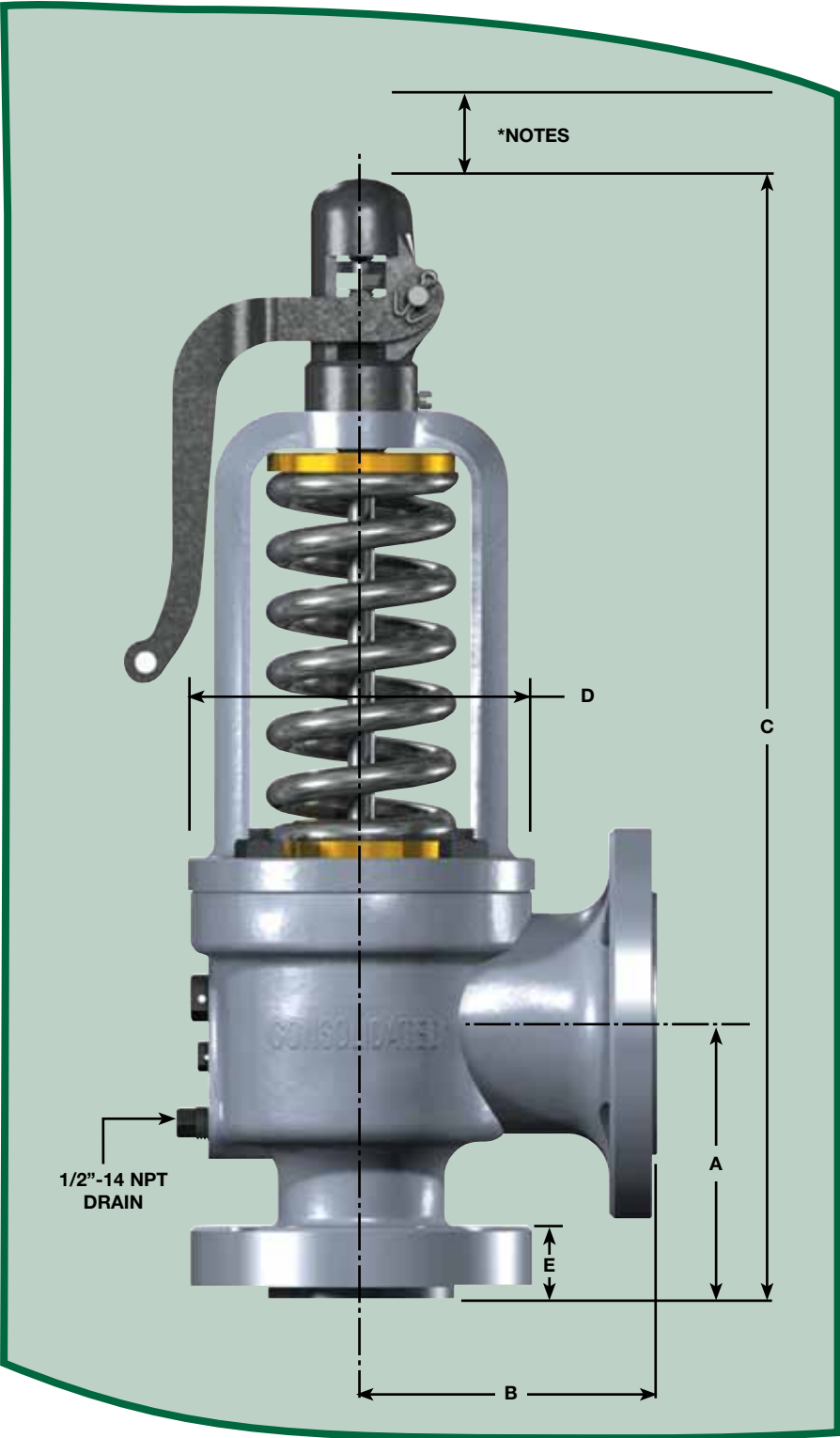
Materials



300 & 600 ANSI Class

Ref. No.	Nomenclature	Material
1	Base	
	1811B	ASME SA216 WCC Carbon Steel
	1811D	ASME SA217 WC6 Alloy Steel
2	Seat Bushing	410 Stainless Steel
3	Disc	410 Stainless Steel
4	Lower Adjusting Ring	304 Stainless Steel
5	Lower Adjusting Ring Pin	416 or 410 Stainless Steel
6	Upper Adjusting Ring	
	1811B	Leaded Nickel Silver
	1811D	Monel
7	Upper Adjusting Ring Pin	616 Stainless Steel
8	Yoke	ASME SA216 WCC Carbon Steel
9	Base Stud (Not Shown)	ASME SA193 B7 Alloy Steel
10	Stud Nut (Not Shown)	ASME SA194 2H Carbon Steel
11	Spindle	410 Stainless Steel
12	Bottom Spring Washer	Carbon Steel
13	Spring	Alloy Steel
14	Top Spring Washer	Carbon Steel
15	Compression Screw	Brass
16	Compression Screw Locknut	Brass
17	Cap	
	(F – J Orifice)	Ductile Iron
	(K – Q Orifice)	Malleable Iron
18	Cap Set Screw	Carbon Steel
19	Lever	Malleable Iron
20	Release Nut	Carbon Steel
21	Lever Pin	
	(F – J Orifice)	Stainless Steel
	(K – Q Orifice)	Carbon Steel
22	Top Lever (4" & 6" Sizes)	Malleable Iron
23	Drop Lever (4" & 6" Sizes)	Malleable Iron
24	Release Locknut	Carbon Steel
	Base Pipe Plug (Not Shown)	Carbon Steel
	Cotter Pins (Not Shown)	Brass
	Weather Shield (Not Shown)	Carbon Steel

Dimensions & Weights



- *Notes:**
1. When using the EVT-I or the Hydroset device, 15" (381 mm) clearance is required.
 2. When using the EVT-II, 17" (431.8 mm) clearance is required. When using the assisted closing device, an additional 8" (203.20 mm) clearance is required.

Dimensions & Weights (Contd.)

300 ANSI Class																
Inlet Size		Valve Type	A		B		C		D		E		Dismantling Height		Approximate Weight	
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb.	kg
1.25	31.8	1811FB	4.41	111.9	4.19	106.4	14.38	365.1	4.63	117.5	1.06	27.0	16.63	422.3	35	16
		1811FD	5.00	127.0	4.19	106.4	15.00	381.0	4.63	117.5	1.31	33.4	17.00	431.8	35	16
1.25	31.8	1811GB	4.41	111.9	4.19	106.4	14.38	365.1	4.63	117.5	1.63	41.4	16.63	422.3	35	16
		1811GD	5.00	127.0	4.19	106.4	15.00	381.0	4.63	117.5	1.31	33.4	17.00	431.8	35	16
1.50	38.1	1811HB	4.75	120.7	4.88	123.8	15.88	403.2	5.81	147.6	1.13	28.6	18.25	463.6	45	20
		1811HD	5.75	146.1	4.88	123.8	16.88	428.6	5.81	147.6	1.44	36.5	19.25	489.0	45	20
1.50	38.1	1811JB	4.75	120.7	4.88	123.8	15.88	403.2	5.81	147.6	1.13	28.6	18.25	463.6	45	20
		1811JD	5.75	146.1	4.88	123.8	16.88	428.6	5.81	147.6	1.44	36.5	19.25	489.0	45	20
2.00	50.8	1811KB	5.25	133.4	5.56	141.3	19.63	498.5	6.50	165.1	1.31	33.4	22.50	571.5	80	36
		1811KD	6.25	158.8	5.56	141.3	20.63	523.9	6.50	165.1	1.56	39.7	23.50	596.9	80	36
2.50	63.5	1811LB	6.13	155.6	6.56	166.7	21.00	533.4	7.63	193.7	1.44	36.5	23.88	606.4	112	51
		1811LD	7.50	190.5	6.56	166.7	22.31	566.7	7.63	193.7	1.81	46.1	25.25	641.4	112	51
3.00	76.2	1811MB	6.50	165.1	6.44	163.5	23.63	600.1	7.88	200.0	1.56	39.7	26.75	679.5	125	57
		1811MD	6.50	165.1	6.44	163.5	23.63	600.1	7.88	200.0	1.56	39.7	26.75	679.5	125	57
4.00	101.6	1811NB	7.25	184.2	7.44	188.9	26.00	660.4	8.75	222.3	1.56	39.7	29.13	739.8	160	73
		1811ND	7.69	195.3	7.44	188.9	26.38	669.9	8.75	222.3	1.81	46.1	29.56	750.9	160	73
4.00	101.6	1811PB	7.44	188.9	8.19	208.0	28.38	720.7	10.25	260.4	1.56	39.7	32.13	816.0	195	88
		1811PD	7.69	195.3	8.19	208.0	28.63	727.1	10.25	260.4	1.81	46.1	32.38	822.3	195	88
6.00	152.4	1811QB	9.88	250.8	9.38	238.1	36.25	920.8	12.38	314.3	1.75	44.5	41.38	1050.9	375	170
			10.31	262.0	9.38	238.1	36.75	933.5	12.38	314.3	2.19	55.6	41.88	1063.6	375	170

600 ANSI Class																
Inlet Size		Valve Type	A		B		C		D		E		Dismantling Height		Approximate Weight	
inch	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb.	kg
1.25	31.8	1811FB	4.41	111.9	4.19	106.4	14.38	365.1	4.68	118.7	1.06	27.0	16.68	423.5	35	16
		1811FD	5.00	127.0	4.19	106.4	15.00	381.0	4.68	118.7	1.31	33.4	17.00	431.8	35	16
1.25	31.8	1811GB	4.41	111.9	4.19	106.4	14.38	365.1	4.68	118.7	1.06	27.0	16.68	423.5	35	16
		1811GD	5.00	127.0	4.19	106.4	15.00	381.0	4.68	118.7	1.31	33.4	17.00	431.8	35	16
1.50	38.1	1811HB	4.75	120.7	4.88	123.8	15.88	403.2	5.19	131.8	1.13	28.6	18.25	463.6	45	20
		1811HD	5.75	146.1	4.88	123.8	16.88	428.6	5.19	131.8	1.44	36.5	19.25	489.0	45	20
1.50	38.1	1811JB	4.75	120.7	4.88	123.8	17.68	448.9	5.19	131.8	1.13	28.6	20.50	520.7	45	20
		1811JD	5.75	146.1	4.88	123.8	18.68	474.3	5.19	131.8	1.44	36.5	21.50	546.1	45	20
2.00	50.8	1811KB	5.25	133.4	5.56	141.3	21.68	550.5	6.50	165.1	1.31	33.4	24.68	626.7	80	36
		1811KD	6.25	158.8	5.56	141.3	22.68	575.9	6.50	165.1	1.56	39.7	25.68	652.1	80	36
2.50	63.5	1811LB	6.13	155.6	6.31	160.4	24.50	622.3	7.93	201.3	1.44	36.5	27.50	698.5	112	51
		1811LD	7.50	190.5	6.31	160.4	25.88	657.2	7.63	193.7	1.81	46.1	28.88	733.4	112	51
3.00	76.2	1811MB	6.50	165.1	6.44	163.5	26.00	660.4	7.88	200.0	1.56	39.7	29.13	739.8	125	57
		1811MD	6.50	165.1	6.44	163.5	26.00	660.4	7.88	200.0	1.56	39.7	29.13	739.8	125	57
4.00	101.6	1811NB	7.69	195.3	7.44	188.9	28.50	723.9	8.75	222.3	1.81	46.1	32.38	822.3	160	73
		1811ND	7.69	195.3	7.44	188.9	28.50	723.9	8.75	222.3	1.81	46.1	32.38	822.3	160	73
4.00	101.6	1811PB	7.69	195.3	8.19	208.0	32.75	831.9	10.25	260.4	1.81	46.1	37.25	946.2	195	88
		1811PD	7.69	195.3	8.19	208.0	32.75	831.9	10.25	260.4	1.81	46.1	37.25	946.2	195	88
6.00	152.4	1811QB	10.31	262.0	9.38	238.1	39.13	993.8	12.38	314.3	2.19	55.6	44.13	1120.8	375	170
		1811QD	10.31	262.0	9.38	238.1	39.13	993.8	12.38	314.3	2.19	55.6	44.13	1120.8	375	170

Orifice Capacities (Contd.)

Superheat Correction Factor																	
Total Temperature (°F)	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Flowing Pressure	Superheat Correction Factor K_{sh}																
psia*																	
50	0.987	0.957	0.930	0.905	0.882	0.861	0.841	0.823	0.805	0.789	0.774	0.759	0.745	0.732	0.719	0.708	0.696
100	0.998	0.963	0.935	0.909	0.885	0.864	0.843	0.825	0.807	0.790	0.775	0.760	0.746	0.733	0.720	0.708	0.697
150	0.984	0.970	0.940	0.913	0.888	0.866	0.846	0.826	0.808	0.792	0.776	0.761	0.747	0.733	0.721	0.709	0.697
200	0.979	0.977	0.945	0.917	0.892	0.869	0.848	0.828	0.810	0.793	0.777	0.762	0.748	0.734	0.721	0.709	0.698
250	-	0.972	0.951	0.921	0.895	0.871	0.850	0.830	0.812	0.794	0.778	0.763	0.749	0.735	0.722	0.710	0.698
300	-	0.968	0.957	0.926	0.898	0.874	0.852	0.832	0.813	0.796	0.780	0.764	0.750	0.736	0.723	0.710	0.699
350	-	0.968	0.963	0.930	0.902	0.877	0.854	0.834	0.815	0.797	0.781	0.765	0.750	0.736	0.723	0.711	0.699
400	-	-	0.963	0.935	0.906	0.880	0.857	0.836	0.816	0.798	0.782	0.766	0.751	0.737	0.724	0.712	0.700
450	-	-	0.961	0.940	0.909	0.883	0.859	0.838	0.818	0.800	0.783	0.767	0.752	0.738	0.725	0.712	0.700
500	-	-	0.961	0.946	0.914	0.886	0.862	0.840	0.820	0.801	0.784	0.768	0.753	0.739	0.725	0.713	0.701
550	-	-	0.962	0.952	0.918	0.889	0.864	0.842	0.822	0.803	0.785	0.769	0.754	0.740	0.726	0.713	0.701
600	-	-	0.964	0.958	0.922	0.892	0.867	0.844	0.823	0.804	0.787	0.770	0.755	0.740	0.727	0.714	0.702
650	-	-	0.968	0.958	0.927	0.896	0.869	0.846	0.825	0.806	0.788	0.771	0.756	0.741	0.728	0.715	0.702
700	-	-	-	0.958	0.931	0.899	0.872	0.848	0.827	0.807	0.789	0.772	0.757	0.742	0.728	0.715	0.703
750	-	-	-	0.958	0.936	0.903	0.875	0.850	0.828	0.809	0.790	0.774	0.758	0.743	0.729	0.716	0.703
800	-	-	-	0.960	0.942	0.906	0.878	0.852	0.830	0.810	0.792	0.774	0.759	0.744	0.730	0.716	0.704
850	-	-	-	0.962	0.947	0.910	0.880	0.855	0.832	0.812	0.793	0.776	0.760	0.744	0.730	0.717	0.704

*Notes:

1. For capacity on superheated steam, multiply saturated steam capacity by correction factor.
2. Convert set pressure from (psig) to (psia) flowing pressure.

* PSIA flowing =
 [set pressure psig x overpressure] + 14.7

How to Order a 1811 Safety Valve

How to Order a 1811 Safety Valve

Please Specify:

Type of Application

- a) Boiler Drum
- b) Superheater
- c) Reheater
- d) Other _____ (identify)

Applicable ASME Code

- a) Section I - Power Boiler
- b) Section VIII - Pressure Vessels
 - Single Valve System _____
 - Multiple Valve System _____

System Parameters (For drum, superheater, or reheater)

- a) Design Pressure _____ psig (barg)
- b) Design Temperature _____ °F (°C)
- c) Operating Pressure _____ psig (barg)
- d) Operating Temperature _____ °F (°C)

Valve Specifications

- a) Valve Set Pressure _____ psig (barg)
- b) Allowable Overpressure on Valve _____ %
- c) Relieving Capacity _____ lb/hr (kg/hr)

d) Butt weld Valves

- Inlet Size _____
- Inlet Specifications _____
- Outlet Size & Flange Rating _____

e) Flanged Valves

- Inlet Size & Flange Rating _____
- Outlet Size & Flange Rating _____

f) Other Type Connections Other Than

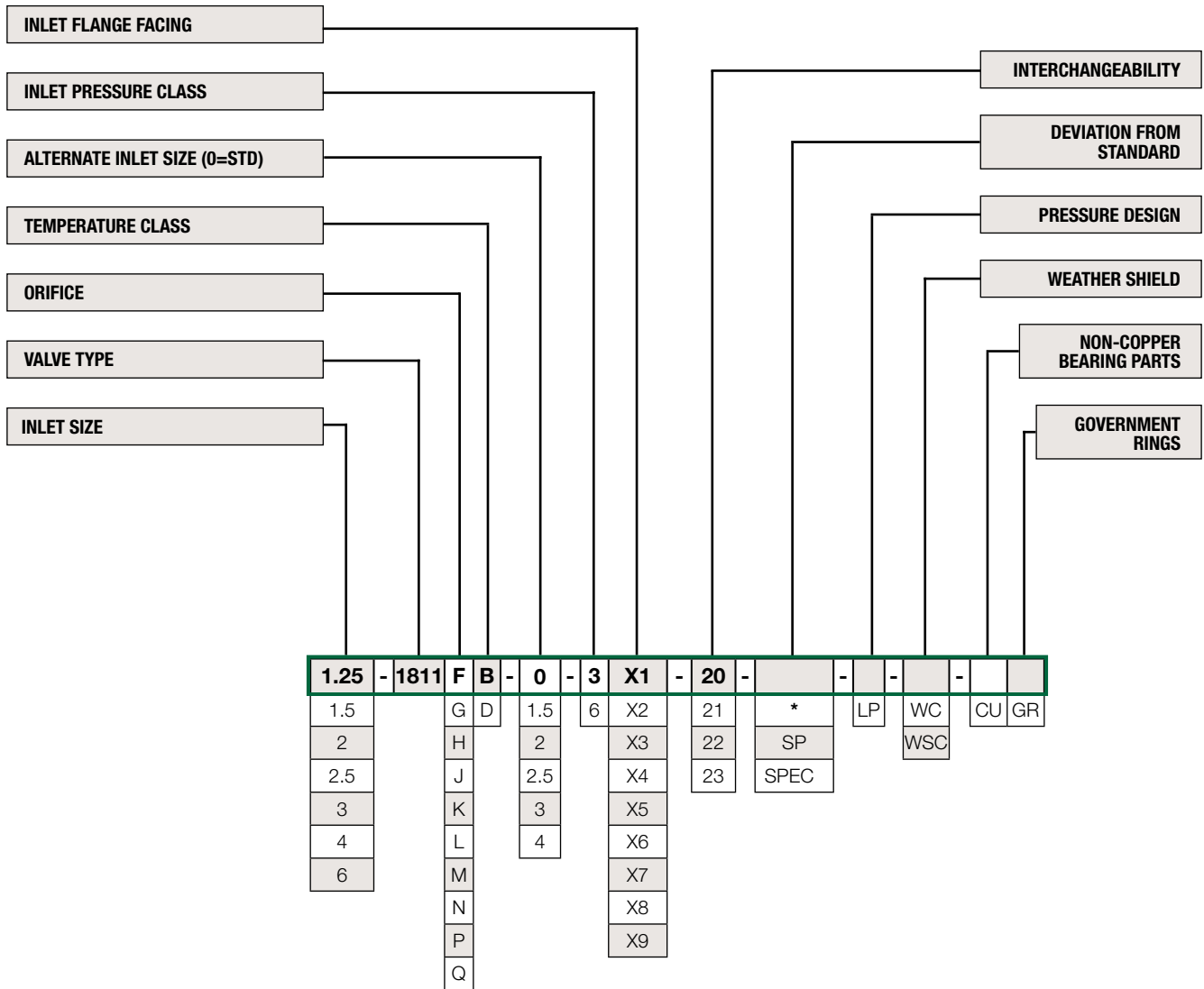
- Butt weld or Flange _____

g) Special Codes or Standards

Valve Supplemental Data

- a) Gag Required
- b) Weathershield Required
- c) Hydrostatic Test Plug Required
- d) Special Cleaning
- e) Special Boxing
- f) Export Boxing
- g) Special Painting

Valve Configuration Code



Standard Valve Connection				
Inlet Size		Orifice	Area	
in.	mm		in ²	cm ²
1.25	31.7	F	.307	1.981
1.25	31.7	G	.503	3.245
1.50	38.1	H	.785	5.065
1.50	38.1	J	1.287	8.303
2.00	50.8	K	1.840	11.871
2.50	63.5	L	2.853	18.406
3.00	76.2	M	3.600	23.226
4.00	101.6	N	4.340	28.000
4.00	101.6	P	6.380	41.161
6.00	152.4	Q	11.050	71.290

Valve Configuration Code (Contd.)

Alternate Inlet Size

Inlet		Outlet		Orifice
in.	mm	in.	mm	
1.50	38.1	1.50	38.1	F
2.00	50.8	1.50	38.1	F
2.50	63.5	1.50	38.1	G
2.00	50.8	1.50	38.1	G
2.00	50.8	2.50	63.5	H
2.50	63.5	2.50	63.5	H
2.00	50.8	2.50	63.5	J
2.50	63.5	2.50	63.5	J
2.00	50.8	4.00	101.6	K
2.50	63.5	3.00	76.2	K
2.50	63.5	4.00	101.6	K
3.00	76.2	3.00	76.2	K
3.00	76.2	4.00	101.6	K
2.50	63.5	6.00	152.4	L
3.00	76.2	4.00	101.6	L
3.00	76.2	6.00	152.4	L
4.00	101.6	6.00	152.4	L
3.00	76.2	6.00	152.4	M

Highlighted Cells Indicate Standard Size Connections

Inlet Flange Facing

Designation	Facing
X1	Raised Face Serrated
X2	Raised Face Smooth
X3	Ring Joint
X4	Large Tongue
X5	Large Groove
X6	Small Tongue
X7	Small Groove
X8	Large Female
X9	Large Male

Interchangeability Number

Designation	Description
20	Std Outlet - Flat Seat
21	Oversize Outlet - Flat Seat
22	Std Outlet - Thermdisc Seat
23	Oversize Outlet - Thermdisc Seat

Weather Shield

Designation	Description
WSC	Spring & Lifting Gear Cover
WC	Spring Cover Only

Temperature Class

Designation	Range
B	To 750°F (398.89°C)
D	To 1000°F (537.78°C)

Pressure Class

Designation	Class
3	300# ANSI
6	600# ANSI

Material Trim

Designation	Trim
	Standard
CU	Non-Copper Bearing Internal Parts

Pressure Design

Designation	Pressure Range
	Set ≥ 125 psig (86.18 barg) (All Orifice)
LP	5 To 124 psig (0.34 To 8.54 barg) (F, G, & H Only)

