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spec sheet

Consolidated* **1811 Series**

Cost-effective, high-capacity,
flanged steel safety valve
designed for steam service.

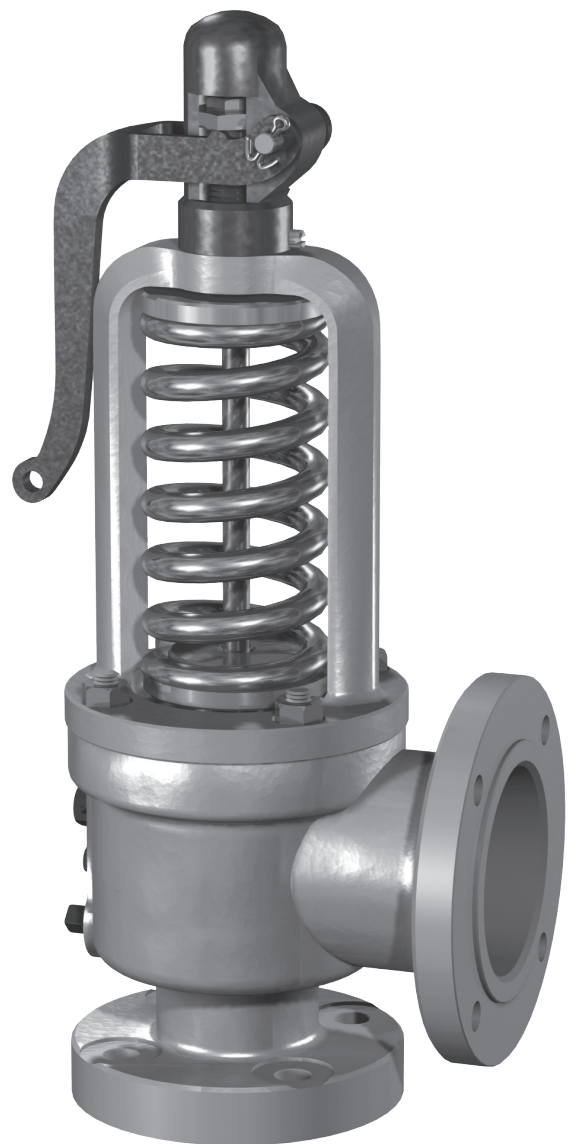


Table of Contents

Conversion Table	3
Scope of Design	5
Materials	7
Dimensions and Weights	8-10
Pressure/Temperature	11
Orifice Capacities.....	12-18
Valve Configuration Code.....	19
Ordering a 1811 Safety Valve	21

GE provides a full range of Consolidated pressure relief valve styles, sizes, options and configurations for multiple industries, applications, environments, and media. From spring-actuated to pilot-operated, each pressure relief valve is configured to offer safer process flow control in harsh environments.

Conversion Table

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

Metric values using the following conversion factors:	Conversion Factor	Metric Unit
in.	25.4	mm
lb.	0.4535924	kg
in ²	6.4516	cm ²
ft ³ /min	0.02831685	m ³ /min
gal/min	3.785412	L/min
lb/hr	0.4535924	kg/hr
psig	0.06894757	barg
ft lb	1.3558181	Nm
°F	5/9 (°F-32)	°C

Scope of Design

Flanged Inlet - Type 1811, class 300										
Inlet ²			Outlet			Type Numbers		Orifice		
ANSI Std. R.F. Flange			ANSI Std. R.F. Flange			Maximum Temperature ¹		Discharge area		Designation
Size		Class	Size		Class			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 ²			Outlet			Type Numbers		Orifice		
ANSI Std. R.F. Flange			ANSI Std. R.F. Flange			Maximum Temperature ¹		Discharge area		Designation
Size		Class	Size		Class			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 16 and 17 for selections.

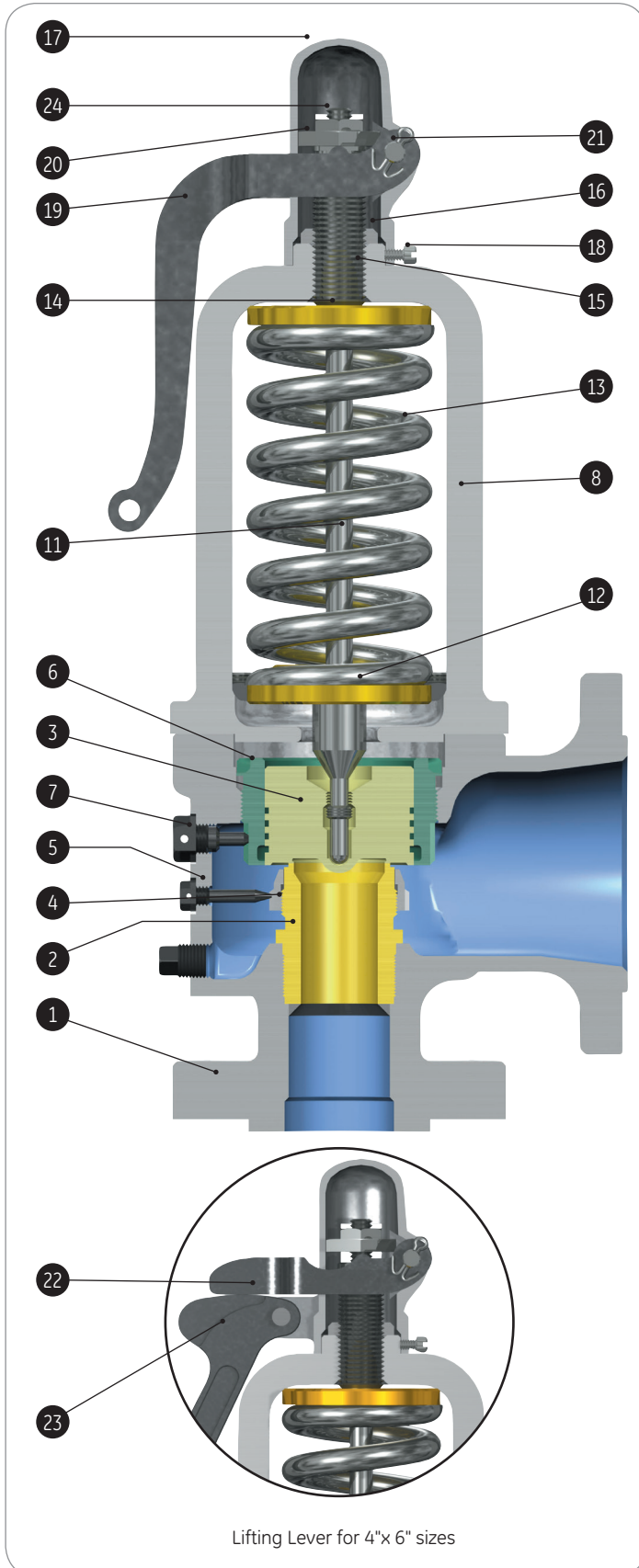
Scope of Design

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			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			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

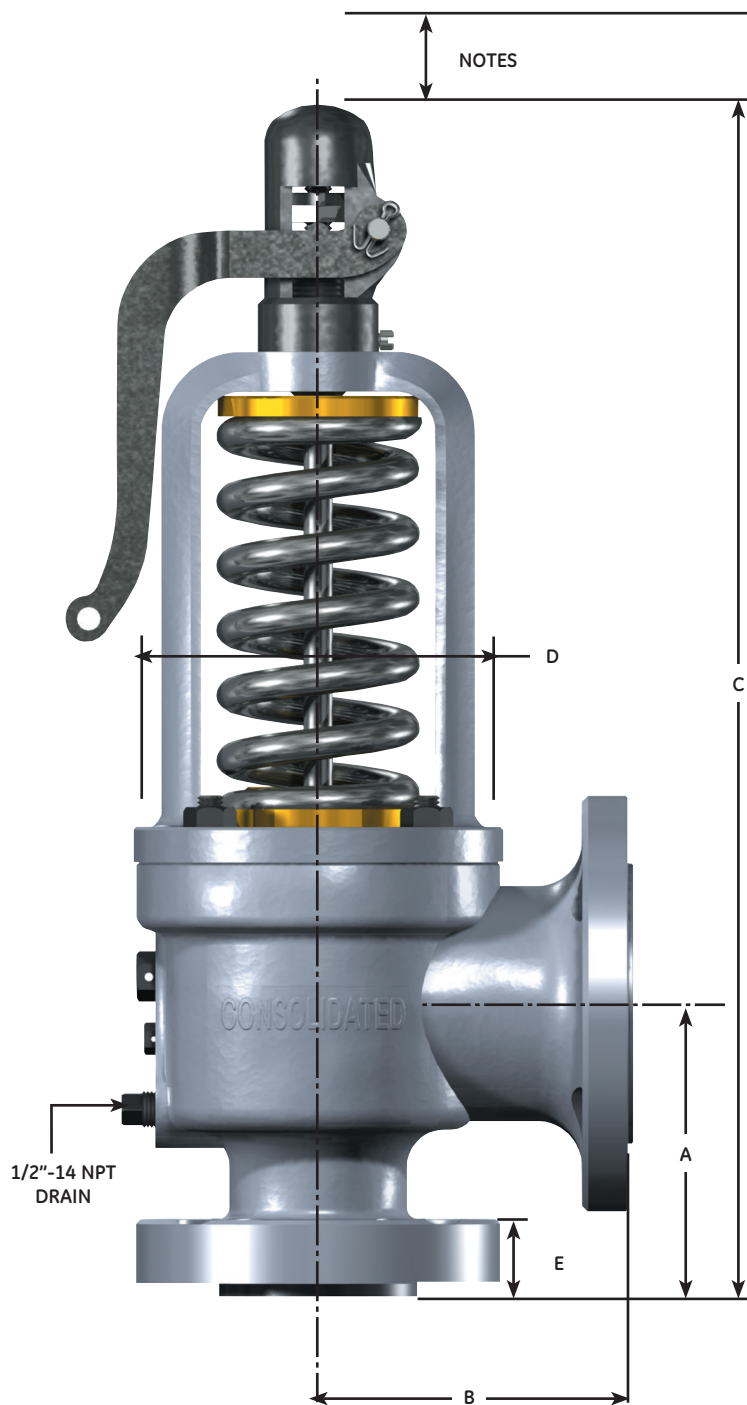
1811 Series Safety Valve



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300 and 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" and 6" Sizes)	Malleable Iron
23	Drop Lever (4" and 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 and 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 and Weights

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
		1811QD	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

Dimensions and Weights

600 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	4.68	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

Pressure/Temperature

Pressure Temperature Ratings						
Temperature		Valve Temp. Class	Class 300		Class 600	
°F	°C		Pressure		Pressure	
			Psig	barg	Psig	barg
750	398.8	1811B	320	22.06	725	49.98
950	510.0	1811D	320	22.06	640	44.12
1000	537.7	1811D	215	14.82	430	29.64

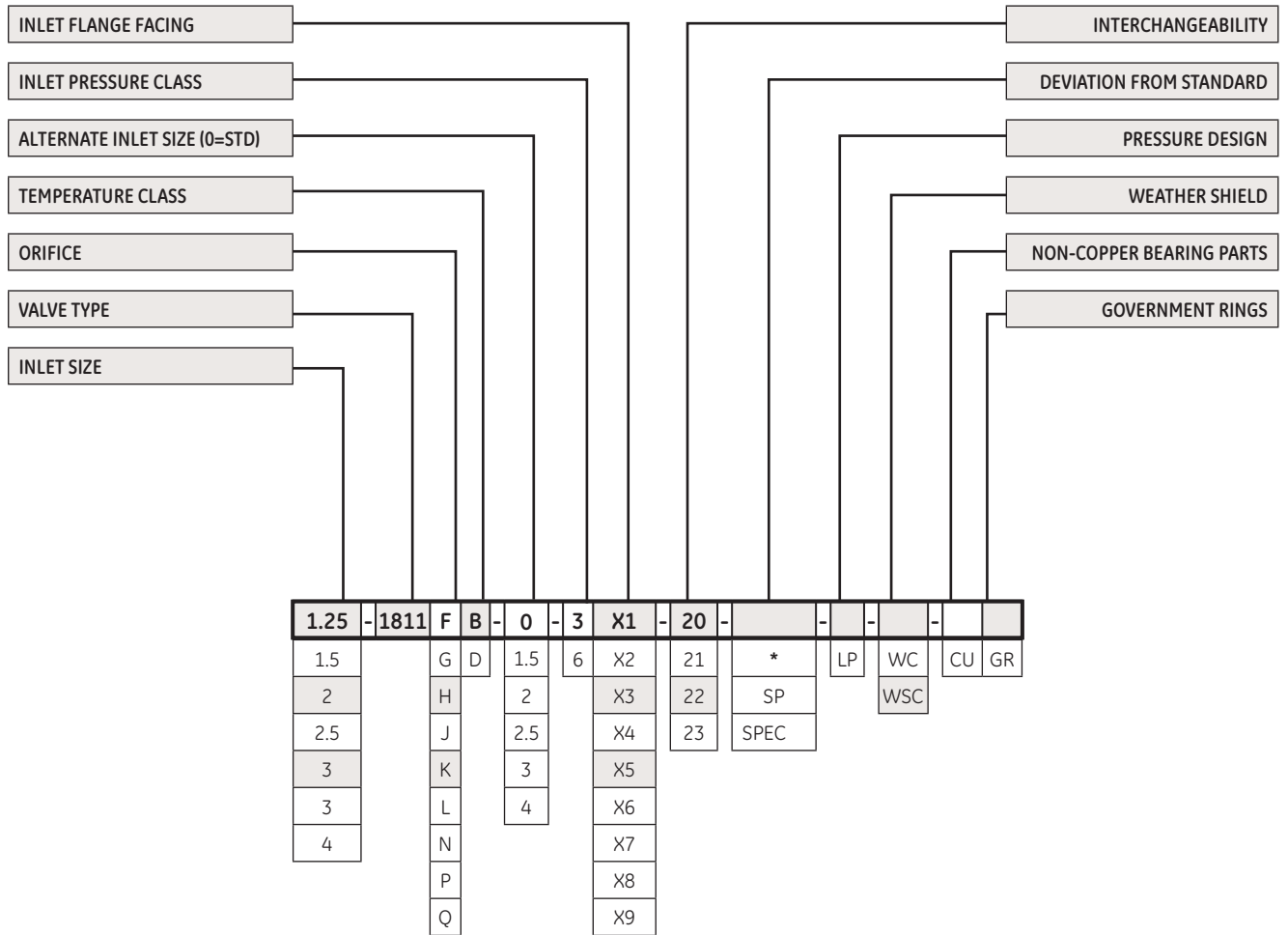
Orifice Capacities

Superheat Correction Factor ¹																	
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 ²																	
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

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

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 - Thermodisc Seat
23	Oversize Outlet - Thermodisc Seat

Weather Shield	
Designation	Description
WSC	Spring and 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
CU	Standard Non-Copper Bearing Internal Parts

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

Ordering a 1811 Series 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	_____ percent
c) Relieving Capacity	_____ lb/hr (kg/hr)
d) Buttweld Valves	
Inlet Size	
Inlet Specifications	
Outlet Size and Flange Rating	
e) Flanged Valves	
Inlet Size and Flange Rating	
Outlet Size and Flange Rating	
f) Other Type Connections Other Than	
Buttweld 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	



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