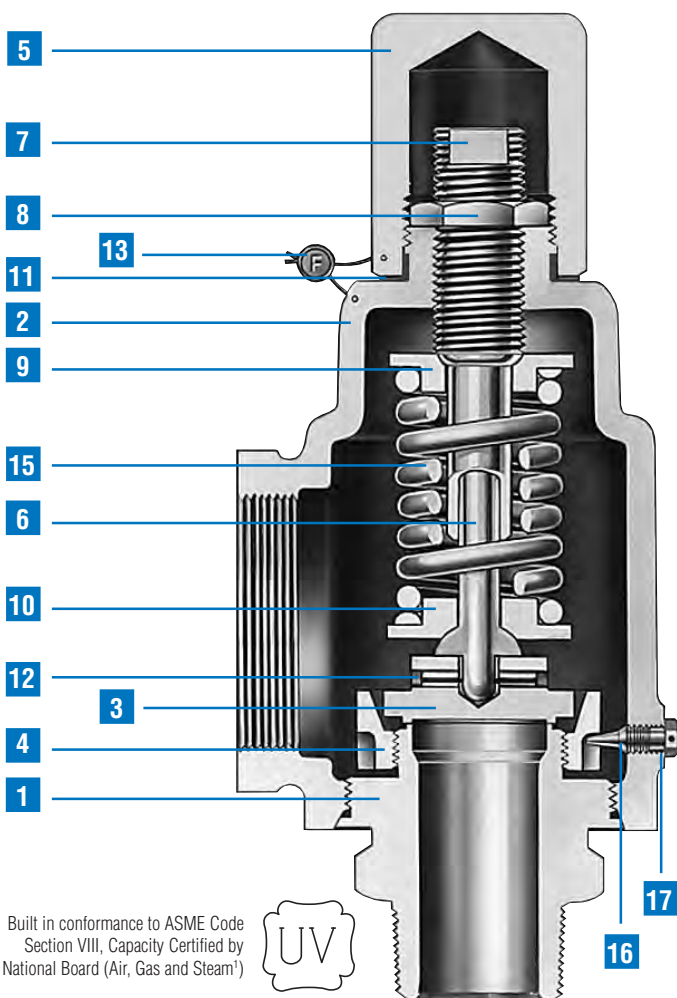


Series 2850

Pressure Relief Valves for Air, Steam, Vapor & Liquid Service



- Built in conformance to ASME Code Section VIII for Air, Steam, and Vapor Service.
- Set pressures to 300 psig.
- Stainless steel body and trim.



Built in conformance to ASME Code Section VIII, Capacity Certified by National Board (Air, Gas and Steam*)

Bill of Materials

Item No.	Part Name	Material 2850 & 2852
1	Body	SA-479 Type 316 St. St. or SA-351 Gr. CF8M St. St.
2	Bonnet	SA-216 Gr. WCB Carbon Steel
3	Disc	316 St. St.
4	Blow Down Ring	Stainless Steel
5	Cap	Carbon Steel
6	Stem	Stainless Steel
7	Spring Adj. Screw	Stainless Steel
8	Jam Nut	Stainless Steel
9	Spring Button (Upper)	Stainless Steel
10	Spring Button (Lower)	Stainless Steel
11	Cap Gasket	Stainless Steel
12	Grooved Pin	Stainless Steel
13	Wire Seal	Stainless Steel Wire/Lead Seal
14	Nameplate (not shown)	Stainless Steel
15	Spring	See Selection Table
16	Blow Down Ring Lock Screw	Stainless Steel.
17	Blow Down Ring Lock Screw Gasket	316 St. St.

General Notes:

1. Test lever required for air, steam, and hot water (above 140°F) service. For packed lever, add PKD to the Type Number. Example: 2850-PKD. For test gag, add W/TG.
2. For 1/2" x 1" size, see 1890 Series Catalog.
3. Also suitable for liquid service where ASME Code certification is not required.

Selection Table MNPT INLET X FNPT OUTLET

Type Number	Maximum Set Pressure, psig				Inlet Temp Range °F	Maximum Back Pressure psig at 100°F	Materials	
	Inlet	3/4	1	1-1/2			Body/ Bonnet	Spring
	Outlet	1	1-1/2	2				
2850	300	300	300	300	-20 to +400	50	316 St. St./ Carbon Steel	316 St. St.
2852	300	300	300	300	+400 to +750			Chrome Alloy Rust Proofed



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Capacity Tables: ASME PRESSURE VESSEL CODE (UV)

NON-CODE

AIR 10% OVERPRESSURE Capacities in Standard Cubic Feet Per Minute at 60° F			
Set Pressure (psig)	3/4"	1"	1-1/2"
15	94	161	375
20	108	185	433
40	168	288	674
60	231	396	926
80	294	504	1179
100	357	612	1431
120	420	720	1684
140	483	828	1936
160	546	936	2189
180	609	1044	2441
200	672	1152	2694
220	735	1260	2946
240	798	1368	3199
250	830	1422	3325
260	862	1476	3451
280	925	1584	3704
300	988	1692	3956

STEAM 10% OVERPRESSURE Capacities in Lbs. Per Hour at Saturation Temperature			
Set Pressure (psig)	3/4"	1"	1-1/2"
15	263	451	1054
20	303	520	1216
40	472	810	1893
60	650	1113	2602
80	827	1416	3312
100	1004	1720	4021
120	1181	2023	4730
140	1358	2327	5440
160	1535	2630	6149
180	1712	2933	6859
200	1889	3237	7568
220	2066	3540	8277
240	2243	3844	8987
250	2332	3995	9341
260	2420	4147	9696
280	2597	4450	10406
300	2775	4754	11115

WATER 25% OVERPRESSURE Capacities in U.S. Gallons Per Minute at 70° F			
Set Pressure (psig)	3/4"	1"	1-1/2"
15	10	18	40
20	11	20	45
40	17	30	67
60	21	36	82
80	24	42	95
100	27	47	106
120	29	52	116
140	32	56	125
160	34	60	134
180	36	63	142
200	38	67	150
220	40	70	157
240	41	73	164
250	42	74	168
260	43	76	171
280	45	79	177
300	46	81	184

Notes:

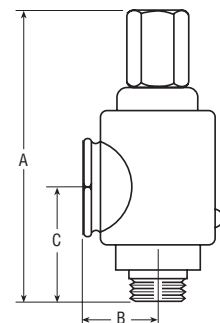
1. Capacities for Air & Steam at 30 psig and below are based on 3 psi overpressure.

Effective Orifice Areas (Sq. In.)		
Inlet Size	Liquids Only	Vapors Gases & Steam
3/4	0.098	0.164
1	0.173	0.281
1 1/2	0.390	0.657

Note: For sizing purposes, the coefficients of discharge K_d are 0.953 for air, gas and vapor; 0.64 for liquids.

Dimensions & Weights (MNPT x FNPT)				
Size	A (max.) All Cap Constructions	B	C	Approx. Weight (lbs.)
3/4 x 1	8	1 11/16	2 5/8	3 1/2
1 x 1 1/2	9 1/16	1 15/16	3	5
1 1/2 x 2	11 15/16	2 7/16	3 11/16	11

Note: All dimensions are in inches.



Farris Engineering

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