

KUNKLE SAFETY AND RELIEF PRODUCTS

MODELS 1 AND 2 BRASS SAFETY VALVES

ASME Section VIII, Air/Gas or Steam, "UV" National Board Certified



Model 1

Model descriptions

Model 1 - Top Outlet
Model 2 - Side Outlet

Options

- Vibration dampener on lift lever (variation 02).
- Nickel plating for use on institutional equipment (variation 03).

Features

- Compact assembly allows for minimum space requirements.
- Precision lapped, metal-to-metal beveled seat provides premium shut-off.
- Warn ring for precise opening, with minimum preopen or simmer.
- Top or side outlet available.
- Each Kunkle valve is tested and inspected for pressure setting and leakage.

Technical data

Pressure and Temperature Limits

5 to 250 psig
-60° to 406°F

Code:

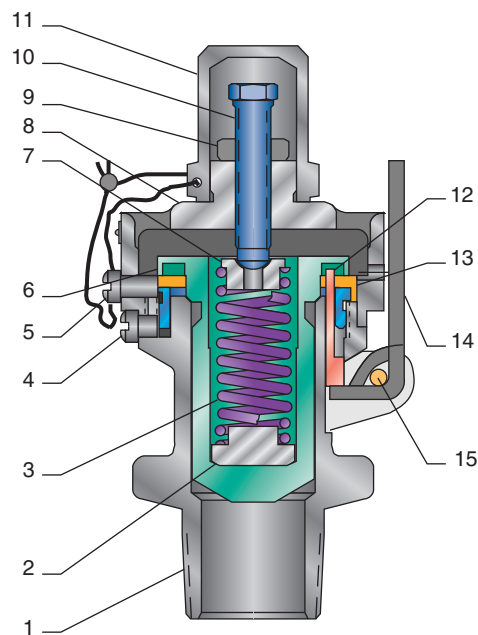


Applications

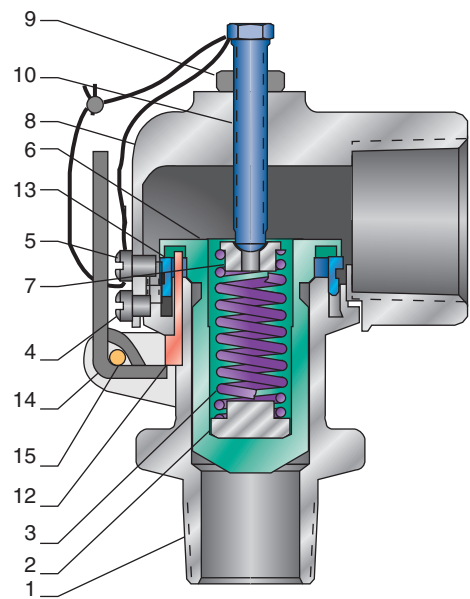
- Air and non-hazardous gas service.
- Air/Gas Compressors - portable or stationary.
- Pressure Vessels - including tanks, receivers, intercoolers, aftercoolers.
- Steam turbines, kettles, other steam-processing equipment.

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Parts and Materials



Model 1 (top outlet)



Model 2 (side outlet)

Models 1 and 2		
No.	Part Name	1 and 2
1	Body	Brass SB283-485
2	Bottom Spring Step	Brass B16
3	Spring	SS A313-T631, 17-7
4	Body Lock Screw	SS Commercial
5	Regulator Ring Lock Screw	SS Commercial
6	Disc	Brass SB283-485
7	Top Spring Step	Brass B16
8	Bonnet	Brass SB283-485 or Bronze SB584-84400
9	Jam Nut	SS 18-8
10	Compression Screw	Brass B16
11	Cap	Brass B16
12	Lift Pin	Brass B16
13	Regulator Ring	Brass B16
14	Lever	Steel 1070
15	Rivet	Nickel Plated Commercial Brass

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Capacities for Non-code ¹ and ASME Section VIII Air, (SCFM) at 60°F			Capacities for Non-code ¹ and ASME Section VIII Steam, (lb/h) at Saturated Steam Temperature		
Set Pressure (psig)	1/2" and 3/4"	1"	Set Pressure (psig)	1/2" and 3/4"	1"
5	27	46	5	84	142
10	37	64	10	115	195
15	47	80	15	133	226
20	54	92	20	152	258
25	60	103	25	170	289
30	67	114	30	187	320
35	74	126	35	207	353
40	80	137	40	225	385
45	87	148	45	243	417
50	93	159	50	261	448
55	99	170	55	278	478
60	105	180	60	295	507
65	111	191	65	311	535
70	116	200	70	327	563
75	122	210	75	342	590
80	127	219	80	357	616
85	132	228	85	371	641
90	137	237	90	385	666
95	142	246	95	399	690
100	146	254	100	411	713
105	151	262	105	424	735
110	155	269	110	436	757
115	159	277	115	448	777
120	163	284	120	459	797
125	167	291	125	469	816
130	171	297	130	480	835
135	174	303	135	489	852
140	178	309	140	499	869
145	181	315	145	508	885
150	184	320	150	516	900
155	187	326	155	524	915
160	189	330	160	532	928
165	192	335	165	539	941
170	194	339	170	546	953
175	197	343	175	552	964
180	199	347	180	558	975
185	201	350	185	564	985
190	202	354	190	569	993
195	204	357	195	574	1002
200	206	359	200	578	1009
205	207	361	205	582	1015
210	208	363	210	585	1021
215	207	361	215	589	1026
220	208	363	220	591	1030
225	210	365	225	594	1034
230	210	367	230	596	1036
235	211	368	235	597	1038
240	212	369	240	599	1039
245	213	370	245	599	1039
250	214	370	250	600	1039

Note:

1. No code stamp of "NB" on nameplate below 15 psig set.

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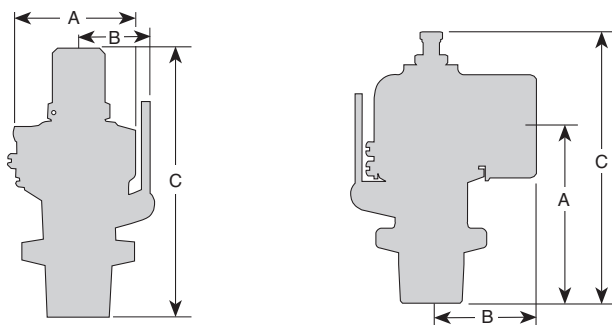
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Specifications

Dimensions

Model	Inlet Size, in MNPT	Outlet Size, in FNPT	Dimensions, in			Min/Max Pressure (psig)	Min/Max Temperature (°F)	Approximate Weight (lb)
A	B	C						
1	1/2 and 3/4	N/A	1.59	0.94	3.37	5/250	-60/406	3/4
1	1	N/A	2.22	1.25	4.47	5/250	-60/406	1 3/4
2	1/2 and 3/4	3/4	2.31	1.19	3.75	5/250	-60/406	1
2	1	1	3.09	1.82	5.00	5/250	-60/406	2 1/4

Dimensions are for reference only.



Model Number/Order Guide

Model Number Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Example	0	0	0	1	—	C	0	1	—	K	C	0	1	2	5
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Model

0001
0002

Inlet Size

C - 1/2"
D - 3/4"
E - 1"

Variation

- 01 - Catalog standard (C and D inlet size only)
- 02 - Vibration dampener (Model 1 only)
- 03 - Nickel plate (D inlet size only)

Design Revision

Indicates non-interchangeable revision.
Dash (-) if original design.

Valve Service

- K - Air/Gas ASME Section VIII
- L - Steam ASME Section VIII
- N - Non-code Air/Gas (<15 psig)
- P - Non-code Steam (<15 psig)

Spring Material

C - Steel or Stainless Steel

Set Pressure

5 psig (0005) through 250 psig (0250)



VALVES & CONTROLS

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