

Kingston Safety & Relief Valves

# Kingston Model 114

ASME Code Section VIII Safety Valve  
Brass, Soft Seat



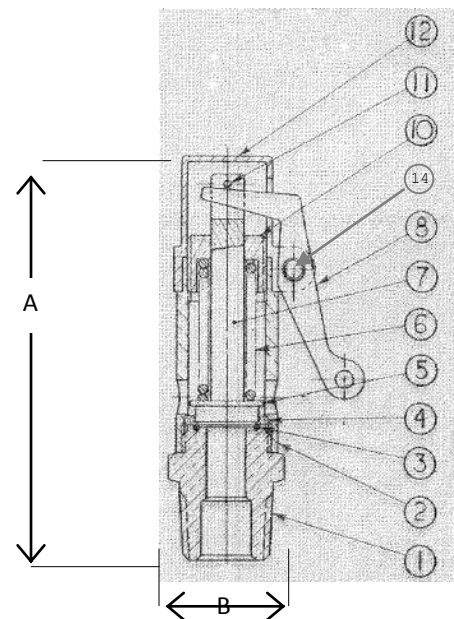
## Features:

- Viton O-ring Provides Soft Seat Performance
- Precision Machined Hard, Positive Stop
- ASTM B-16 Brass Construction
- Lever for Manual Testing
- Sizes: 1/4", 3/8", 1/2", 3/4" & 1" NPT
- ASME/NB Certified - Stamped UV + NB
- Temperature Range: -20°F to 400°F
- Sect. VIII Air Set Pressure Range 25-300 PSIG
- Registered in All Canadian Provinces & Territories
- Every Safety Valve Factory Set and Tested

Model	Available Sizes	Orifice	Figure/Part No	Dimensions (inches)		Set Pressure Range PSIG	Approximate Ship Weight	Max Temp
				Height (A)	Hex (B)			
114	1/4 NPT	.219	114-2-000	3 1/4	5/8	25-300	4 oz	400°F
	3/8 NPT	.265	114-3-000	3 1/4	3/4	25-275	5 oz.	
	1/2 NPT	.312	114-4-000	3 7/8	7/8	25-275	8 oz.	
	3/4 NPT	.437	114-5-000	4 1/2	1 1/2	25-250	14 oz.	
	1 NPT	.625	114-6-000	4 15/16	1 5/16	25-250	1 lb 8 oz.	

## Materials

No.	Part Name	Materials
1	Base	Brass (ASTM—B16)
2	Body	Brass (ASTM—B16)
3	O' Ring	Viton
4	Seat Washer	Brass (ASTM—B16)
5	Stem Washer	Brass (ASTM—B16)
6	Spring	M.W. / SST 302
7	Stem	Brass (ASTM—B16)
8	Lever	CRS AISI-1010 ASTM-A109
9	Seal	Vinyl
10	Adj. Screw	Brass (ASTM—B16)
11	Roll Pin	Carbon Steel/R/C 46-53
12	Cap	Brass (ASTM—B16)
14	Cap Screw	Brass (ASTM—B16)



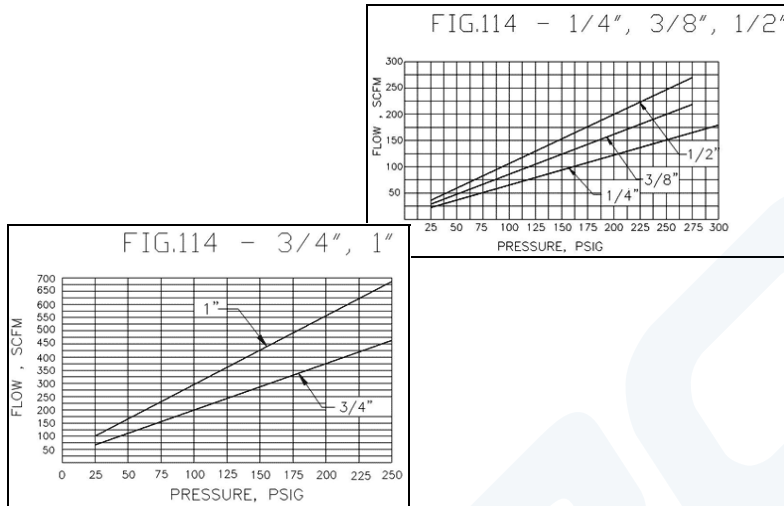
www.KingstonValves.com

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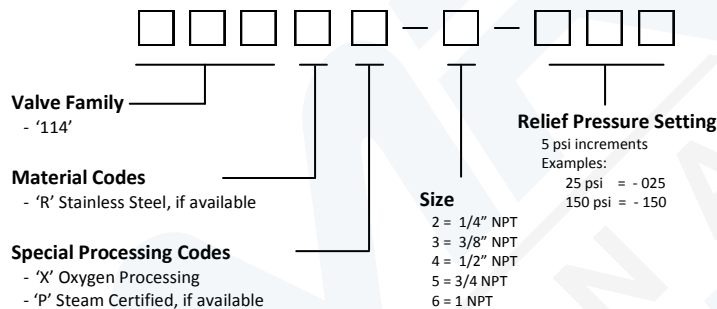
# Kingston Model 114 Safety Relief Valve

## Flow Capacity Information



SET PRESSURE	STAMPED CFM					SET PRESSURE	STAMPED CFM				
psi	1/4"	3/8"	1/2"	3/4"	1"	psi	1/4"	3/8"	1/2"	3/4"	1"
25	22	29	36	68	100	165	102	135	167	314	465
30	25	33	41	76	113	170	105	139	171	323	478
35	28	37	45	85	126	175	108	143	176	332	491
40	31	41	50	94	139	180	111	147	181	340	504
45	33	44	55	103	152	185	113	151	185	349	517
50	36	48	59	112	165	190	116	154	190	358	530
55	39	52	64	120	178	195	119	158	195	367	543
60	42	56	69	129	191	200	122	162	199	376	556
65	45	59	73	138	204	205	125	166	204	384	569
70	48	63	78	147	217	210	128	170	209	393	582
75	51	67	83	156	230	215	131	173	214	402	595
80	53	71	87	164	243	220	133	177	218	411	608
85	56	75	92	173	256	225	136	181	223	420	621
90	59	78	97	182	269	230	139	185	228	428	634
95	62	82	101	191	283	235	142	189	232	437	647
100	65	86	106	200	296	240	145	192	237	446	661
105	68	90	111	208	309	245	148	196	242	455	674
110	71	94	115	217	322	250	151	200	246	464	687
115	73	97	120	226	335	255	154	204	251		
120	76	101	125	235	348	260	156	207	256		
125	79	105	129	244	361	265	159	211	260		
130	82	109	134	252	374	270	162	215	265		
135	85	113	139	261	387	275	165	219	270		
140	88	116	143	270	400	280	168				
145	91	120	148	279	413	285	171				
150	93	124	153	288	426	290	174				
155	96	128	157	296	439	295	176				
160	99	132	162	305	452	300	179				

## Ordering Information



## Product Notes

All Kingston Safety Valves are manufactured under a quality control system accepted by the National Board of Boiler and Pressure Vessel Inspectors.

Code valves are capacity certified by the National Board, manufactured in accordance with ASME Code, set and sealed at the factory.

Set pressure can deviate from the marked by  $\pm 2$  psig at or below 70 psig set pressures and  $\pm 3\%$  psig above 70 psig.

Factory standard seat tightness for soft seat valves: no audible leakage at 10% below nameplate set. It is normal for spring-operated safety valves to exhibit leakage or simmer/warn, as the system operating pressure approaches the set pressure. For soft seat valves this typically occurs at pressures at or above 90% of nameplate set pressure.

At very low set pressures (20 psi and below), the ratio of the downward spring force as compared to the upward pressure force is very small. In these cases it may be impossible to achieve seat tightness.

Soft seat valves will typically provide a higher degree of seat tightness than metal, hard seats. Factory standard seat tightness does not ensure bubble-tight seal regardless of material.

Final application design and integration of Kingston Products are the sole responsibility of the end user.

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