



KINGSTON

Manufacturing reliable industrial valves for industry since 1908.

118CSS

Kingston Safety Valve

Model 118CSS

ASME Code High Flow Safety Valve
Brass, Stainless Steel Ball



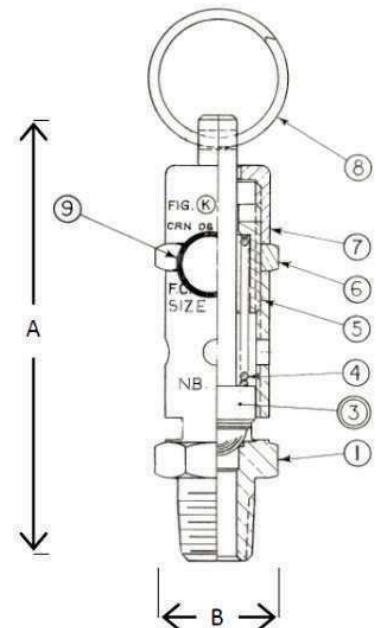
Features

- High Flow Capacity
- Precision Machined Hard Seat
- Stainless Steel Ball & Spring
- Pull Ring for Manual Testing
- ASME Certified-Stamped UV + NB
- Registered in All Canadian Provinces & Territories
- Maximum Temperature 400 °F
- Set Pressure Range 25-300 PSIG

Model	Inlet Size	Orifice	Dimensions (inches)		Set Pressure Range (PSIG)	Approx. Ship Wt.	Max Temp. (°F)	Figure/Part No.
			Height (A)	Hex (B)				
118CSS	1/4" NPT	0.295	3-3/16"	5/8"	25-300	3oz.	400 °F	118CSS-2-000
	3/8" NPT	0.359	3-9/16"	3/4"		5 oz.		118CSS-3-000
	1/2" NPT	0.359	3-13/16"	7/8"		9 oz.		118CSS-4-000
	3/4" NPT	0.578	5-7/16"	1 - 1/2"		1 lb. 2 oz.		118CSS-5-000
	1" NPT	0.578	5-3/4"	1 - 5/6"		1 lb. 5 oz.		118CSS-6-000

Materials

No.	Part Name	Materials
1	Body	Brass
2	Seal	Vinyl
3	Stem Assembly	Brass Stem, Stainless Steel Ball
4	Spring	Stainless Steel
5	Adjusting Screw	Brass
6	Lock Nut	Brass
7	Cap	Brass
8	Pull Ring	Stainless Steel



Kingston Model 118CSS Kingston Safety Valve

Flow Capacity Information

Fig. 118C - 1/4", 3/8" & 1/2"

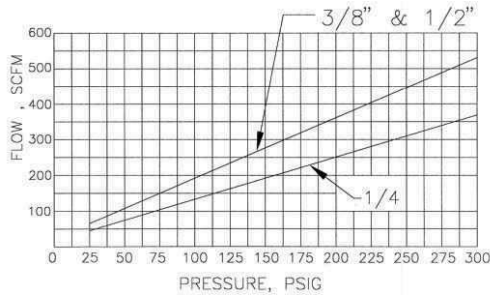
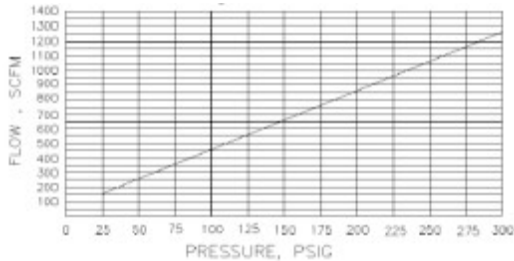


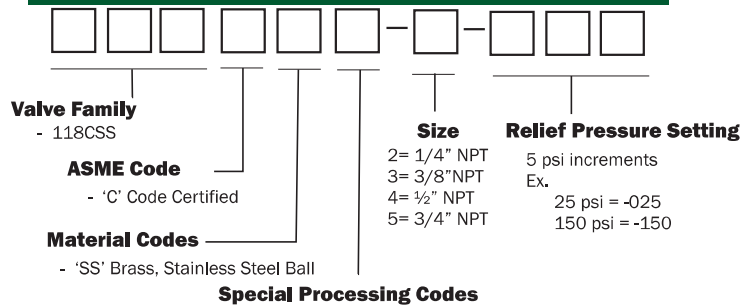
Fig. 118C - 3/4" & 1"



SET PRESSURE	STAMPED CAPACITY CFM					SET PRESSURE	STAMPED CAPACITY CFM				
psi	1/4"	3/8", 1/2"	3/4"	1"		psi	1/4"	3/8", 1/2"	3/4"	1"	
25	45	65	155	155		165	210	302	720	720	
30	51	73	175	175		170	216	311	740	740	
35	57	82	195	195		175	222	319	760	760	
40	63	9	215	215		180	228	328	781	781	
45	69	99	236	236		185	233	336	801	801	
50	75	107	256	256		190	239	344	821	821	
55	80	116	276	276		195	245	353	841	841	
60	86	124	296	296		200	251	361	861	861	
65	92	133	316	316		205	257	370	882	882	
70	98	141	336	336		210	263	378	902	902	
75	104	150	357	357		215	269	387	922	922	
80	110	158	377	377		220	275	395	942	942	
85	116	167	397	397		225	281	404	962	962	
90	122	175	417	417		230	286	412	982	982	
95	128	184	437	437		235	292	421	1003	1003	
100	133	192	458	458		240	298	429	1023	1023	
105	139	201	478	478		245	304	438	1043	1043	
110	145	209	498	498		250	310	446	1063	1063	
115	151	217	518	518		255	316	455	1083	1083	
120	157	226	538	538		260	322	463	1104	1104	
125	163	234	559	559		265	328	472	1124	1124	
130	169	243	579	579		270	334	480	1144	1144	
135	175	251	599	599		275	339	488	1164	1164	
140	181	260	619	619		280	345	497	1184	1184	
145	186	268	639	639		285	351	505	1202	1202	
150	192	277	659	659		290	357	514	1225	1225	
155	198	285	680	680		295	363	522	1245	1245	
60	204	294	700	700		300	369	531	1265	1265	

Ordering Information

Kingston Safety Relief Valve Part Number Codes



Product Notes

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

Factory standard seat tightness for hard 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 hard seat valves this is typically occurs at pressure at or above 80% of nameplate set pressure.

At very low set pressure (20 psig 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.

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