

# Series 120 Safety Valves

## Series 120 - 126

Our Series 120 air/gas and steam safety valve is designed for safety and pressure relief for light and medium capacity applications where a smaller sized valve is needed. The series 120 valves have a higher capacity than our Series 130. Many are manufactured to meet specific field and OEM applications.

ASME and National Board Certified for Section VIII as well as CRN Certifications.



**Usages:** High quality smaller valve, Compressors, Receivers, Gas lines, Steam lines, Air and Gas receivers, Piping system/tanks, Steam cleaners, sterilizers, Autoclaves

**Features:**

- Fixed blow-down
- Brass/bronze construction
- Metal-to-metal seating
- Rugged, yet economical
- Stainless steel springs
- Factory set and sealed
- Excellent seat tightness

**Options:**

- Stainless body and disk
- Polishing and chrome plating
- Oxygen cleaning
- Variety of inlets/outlets and lift levers or pull ring
- Many configurations (not shown)
- Oxygen cleaning
- BSPT connections

Set pressures below 15 PSI (1.03 Bar) and above 200 PSI (17.2 bar) are NON-Code.

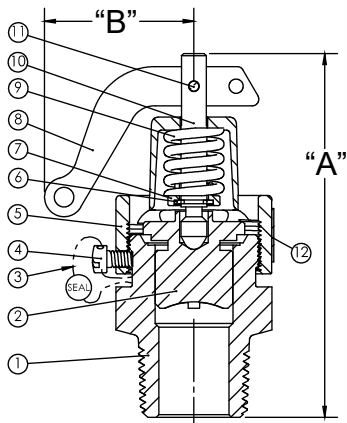
Maximum back-pressure is 10% of set pressure or 50 PSI (3.45 Bar) whichever is less.

Lifting Device as required by the ASME,  
ASME Section VIII: UG136(3)

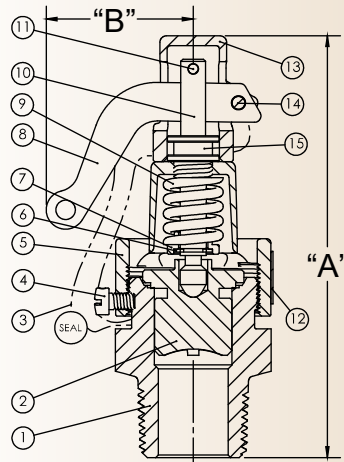
Each pressure relief valve on air, water at the valve inlet that exceeds 140°F (60°C), excluding over-pressure or relief events, or steam service shall have a substantial lifting device which when activated will release the seating force on the disc when the pressure relief valve is subjected to a pressure of at least 75% of the set pressure of the valve.



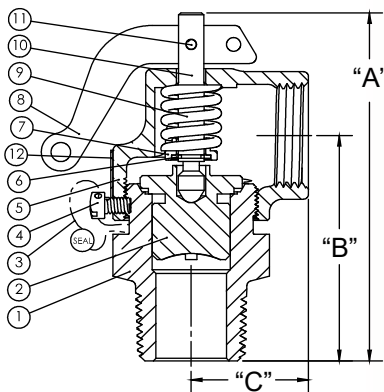
CRN



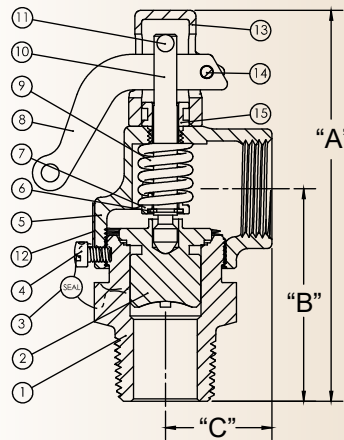
Series 120



Series 121

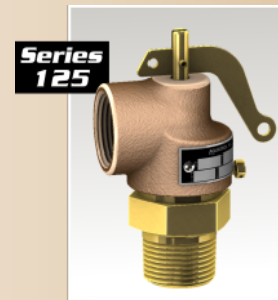


Series 125



Series 126

<b>Series 120 thru 126</b>			
Item	Description	Brass Option	Stainless Option
1	Body	B16	316 Stainless
2	Disc	Bronze	316 Stainless
3	Seal Wire	Steel/Lead	Steel/Lead
4	Lock Screw	B16	B16
5	Bonnet	Bronze	Bronze
6	Support	Stainless	Stainless
7	Spring Plate	Brass	Brass
8	Lift Lever	Plated Steel	Plated Steel
9	Spring	Stainless	Stainless
10	Spring Post	B16	B16
11	Lift Pin	B16	B16
12	Nameplate	Stainless	Stainless
13	Hood	Bronze	Bronze
14	Lever Pin	B16	B16
15	Hood Mount	B16	B16



<b>Series 120 thru 126</b>								
Series	Inlet	Outlet	Seat	Dimensions Inches - (mm)			Max. Set PSI - (Barg)	Weight Lbs - (Kg)
				A	B	C		
120	1/2"	Top	3/4"	3-1/2" (89)	-	1-1/2" (38)	200 (13.8)	.5 (.23)
120	3/4"	Top	3/4"	3-1/2" (89)	-	1-1/2" (38)	200 (13.8)	.6 (.28)
120	1"	Top	3/4"	3-1/2" (89)	-	1-1/2" (38)	200 (13.8)	.6 (.28)
120*	1"	Top	1"	3-3/4" (95)	-	1-1/2" (38)	200 (13.8)	1.1 (.51)
121	1/2"	Top	3/4"	4-1/8" (105)	-	1-3/8" (35)	200 (13.8)	.8 (.34)
121	3/4"	Top	3/4"	4-1/8" (105)	-	1-3/8" (35)	200 (13.8)	.9 (.40)
121	1"	Top	3/4"	4-1/8" (105)	-	1-3/8" (35)	200 (13.8)	.9 (.40)
121*	1"	Top	1"	4-1/2" (114)	-	1-3/8" (35)	200 (13.8)	1.3 (.57)
125	1/2"	3/4"	3/4"	3-1/2" (89)	2-1/4" (57)	1-1/8" (29)	200 (13.8)	.5 (.23)
125	3/4"	3/4"	3/4"	3-1/2" (89)	2-1/4" (57)	1-1/8" (29)	200 (13.8)	.6 (.28)
125	1"	3/4"	3/4"	3-1/2" (89)	2-1/4" (57)	1-1/8" (29)	200 (13.8)	.6 (.28)
125*	1"	1"	1"	3-3/4" (95)	2-5/8" (67)	1-3/8" (35)	200 (13.8)	1.1 (.51)
126	1/2"	3/4"	3/4"	4-1/8" (105)	2-1/4" (57)	1-1/8" (29)	200 (13.8)	.5 (.23)
126	3/4"	3/4"	3/4"	4-1/8" (105)	2-1/4" (57)	1-1/8" (29)	200 (13.8)	.6 (.28)
126	1"	3/4"	3/4"	4-1/8" (105)	2-1/4" (57)	1-1/8" (29)	200 (13.8)	.6 (.28)
126*	1"	1"	1"	4-1/2" (114)	2-5/8" (67)	1-3/8" (35)	200 (13.8)	1.1 (.51)

\* 1" seat is non-code

## Series 120 thru 126 Part Numbers

121		B	A	1	M	1	K	1	125
Series/Description		Inlet/Outlet	Metals	Connection	Seating	Cap	Service	Options	Set
120	Top Outlet w/Lift Lever	A- 1/2" B- 3/4"	A- Brass Bronze	1- NPT MxF 2- NPT FxF	M- Metal	1- Lift lever H- Hood and Lift Lever	K- ASME VIII Air/gas L- ASME VIII Steam N- Non-code Air/gas T- Non-code Steam	1- None 2- Chrome Plating 3- O2 Cleaned	Ex.125
121	Top Outlet Hood And Lift Lever	C- 1" *D- 1" x 1"	B- 316 SS Bronze	3- BSPT MxF 4- BSPT FxF					
			L- No Lead Bronze	8- BSPP MxF 9- BSPP FxF					
125	Side Outlet w/Lift Lever	A- 1/2" x 3/4" B- 3/4" x 3/4"	M- 316 SS No Lead						
126	Side Outlet Hood And Lift Lever	C- 1" x 3/4" *D- 1" x 1"							

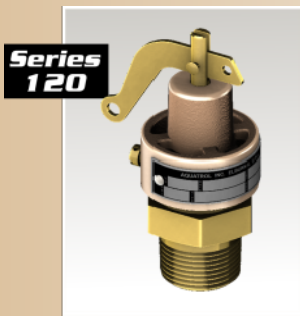
Set pressures below 15 PSI (1.03 Bar) or above 200 PSI (13.8 Bar) are non-code  
Inlet/Outlet 'D' are non-code valves

### Series 120 thru 126 Air Capacity SCFM @ 10% Over Set Pressure

Slope	1.037	1.192
PSI	3/4" Seat	1" Seat*
5	24	27
10	29	33
15	34	39
20	39	45
25	44	51
40	61	70
50	72	84
75	101	117
100	129	150
125	158	183
150	186	216
175	215	249
200	243	282

### Series 120 thru 126 Air Capacity Nm<sup>3</sup>/hr @ 10% Over Set Pressure

Slope	1.037	1.192
Bar	3/4" Seat	1" Seat*
0.2	36	42
0.5	44	51
1	57	65
2	82	95
3	110	127
4	138	159
5	166	191
6	194	224
7	223	256
8	251	288
10	307	353
12	363	417
14	419	482

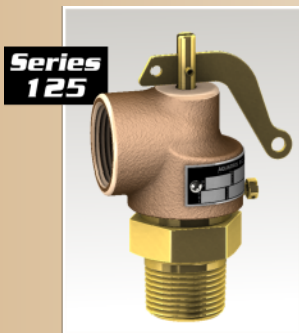


### Series 120 thru 126 Steam Capacity #/Hr @ 10% Over Set Pressure

Slope	2.91	3.358
PSI	3/4" Seat	1" Seat*
5	66	85
10	81	104
15	95	123
20	110	141
25	124	160
40	171	220
50	203	261
75	283	364
100	363	468
125	443	571
150	523	674
175	603	777
200	683	880

### Series 120 thru 126 Steam Capacity kg/hr @ 10% Over Set Pressure

Slope	2.91	3.358
Bar	3/4" Seat	1" Seat*
0.2	27	31
0.5	33	38
1	43	49
2	62	71
3	83	95
4	104	120
5	125	144
6	146	168
7	167	192
8	188	217
10	230	265
12	272	314
14	314	363



\* 1" Seat is Non-Code