

SAFETY & RELIEF VALVES

ASME Section I & VIII Safety Valves

119 SERIES

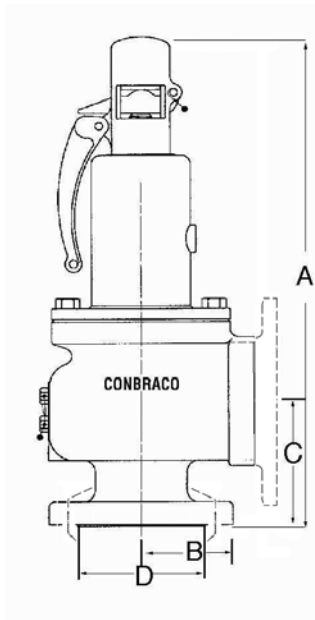


CAST IRON SAFETY VALVE

High capacity safety valves ideal for use with all types of boilers, pressure vessels and pressure piping systems. Their top-guided design includes two control rings that ensure seat tightness. Direct replacement for most competitive models.

FEATURES

- Set pressures to 250 psig @ 450°F max
- Flanged inlet sizes: 1-1/2" through 6" ANSI 250 lb; some sizes available in female NPT
- National Board Certified ASME flow ratings
- 316 stainless steel wetted trim (disc and nozzle) is standard
- Metal to metal seating, lapped to optical flatness
- Semi-nozzle design available in eight orifice sizes
- Rust proof steel stem, spring and spring washers
- Drip pan elbows are available (see page 88)
- Registered in all Canadian Provinces Under CSA B51, CRN #0G8547.5C
- Optional dual ASME/European Pressure Equipment Directive Compliance



Series Number	Valve Size (in.)	Orifice Letter	Orifice Area (sq. in.)	Dimensions (in.)				Wt./ (lbs.) APP
				A	B	C	Hex D	
119 JGC	1-1/2 250# x 2 1/2 FNPT	J	1.36	15.00	4.00	4.31		35
119 KHC	2 250# x 3 FNPT	K	1.93	16.00	4.00	4.62		36
119 KHA	2 FNPT x 3 FNPT	K	1.93	16.00	4.00	4.62	3-3/4	37
119 KJC	2-1/2 250# x 3 FNPT	K	1.93	16.00	4.00	4.62		41
119 KKC	3 250# x 3 FNPT	K	1.93	16.00	4.00	4.63		45
119 LJC	2-1/2 250# x 4 FNPT	L	2.99	22.00	5.12	5.62		84
119 LJA	2-1/2 FNPT x 4 FNPT	L	2.99	22.00	5.12	5.62	5-3/8	81
119 LKC	3 250# x 4 FNPT	L	2.99	22.00	5.12	5.62		85
119 LMC	4 250# x 4 FNPT	L	2.99	22.00	5.13	5.63		90
119 MKA	3 FNPT x 4 FNPT	M	3.77	22.00	5.12	5.62	5-3/8	80
119 MKC	3 250# x 4 FNPT	M	3.77	22.00	5.12	5.62		87
119 MMC	4 250# x 4 FNPT	M	3.77	22.00	5.13	5.63		95
119 NMD	4 250# x 6 125#	N	4.55	28.00	7.25	6.75		210
119 PMD	4 250# x 6 125#	P	6.69	28.00	7.25	6.75		215
119 QPD	6 250# x 8 125#	Q	11.59	42.00	10.00	9.25		530
119 RPD	6 250# x 8 125#	R	16.79	42.00	10.00	9.25		530

Information required for ordering 119 series valves:

1. Determine the orifice letter that corresponds to your required flow rate from the following capacity charts.
2. Select the inlet x outlet connection options from the list of models available for that orifice (above).
3. Specify base model number, set pressure, ASME Code section and service.

For Further information request catalog SRCA9000

119 SERIES NUMBERING SYSTEM

119	K	H	C	A	MAA	0150	Q
SERIES NUMBER	ORIFICE LETTER	INLET (IN.)	CONNECTION	SERVICE	SPECIAL OPTIONS	SET PRESSURE	SUFFIX
119 = Stainless Steel Wetted Trim	The orifice letter from the Capacity Chart (pg. 84)	G = 1-1/2 H = 2 J = 2-1/2 K = 3 M = 4 P = 6	A = FNPT x FNPT C = 250# x FNPT D = 250# x 125#	A = Sec I Steam K = Sec VIII Air L = Sec VIII Steam N = Non Code Air P = Non Code Steam	Factory issued letters/numbers (MAA default) MCE = CE/PED	Set Pressure, PSIG (4 digits)	Q = Performance (Calibration) test reports

See Safety & Relief Valve Catalog (SRCA9000) for more detailed information about the products in this section.



Customer Service (704) 841-6000

COMMERCIAL PRODUCTS CATALOG

ASME Section I & VIII Safety Valves

119 SERIES (CONT.)

ASME SECTION I

Steam Boilers - Pounds of saturated steam per hour @ 3% or 2 psig accumulation, whichever is greater.

ASME SECTION VIII

Pressure Vessels - Pounds of saturated steam per hour @ 10% or 3 psig accumulation, whichever is greater.

ASME SECTION VIII

Pressure Vessels - Standard cubic feet of air per minute @ 10% or 3 psig, whichever is greater.

Note: Available factory preset at any pressure 15-250 psig.

J ORIFICE

Set Pressure psig	ASME Section I Steam lbs./hr.	ASME Section VIII Steam lbs./hr.	ASME Section VIII Air SCFM
15	1947	2008	715
30	2868	2929	1043
50	4096	4280	1523
75	5646	5969	2124
100	7227	7657	2726
125	8809	9346	3327
150	10390	11034	3928
175	11971	12723	4529
200	13552	14412	5130
225	15133	16100	5731
250	16714	17789	6332

K ORIFICE

Set Pressure psig	ASME Section I Steam lbs./hr.	ASME Section VIII Steam lbs./hr.	ASME Section VIII Air SCFM
15	2761	2848	1014
30	4067	4154	1479
50	5809	6070	2161
75	8008	8465	3013
100	10250	10860	3865
125	12493	13255	4718
150	14735	15650	5570
175	16978	18045	6423
200	19220	20440	7275
225	21463	22834	8128
250	23705	25229	8980

L ORIFICE

Set Pressure psig	ASME Section I Steam lbs./hr.	ASME Section VIII Steam lbs./hr.	ASME Section VIII Air SCFM
15	4286	4421	1574
30	6314	6449	2295
50	9018	9423	3354
75	12432	13141	4678
100	15913	16859	6001
125	19394	20577	7324
150	22876	24295	8648
175	26357	28013	9971
200	29838	31731	11294
225	33320	35449	12618
250	36801	39167	13941

M ORIFICE

Set Pressure psig	ASME Section I Steam lbs./hr.	ASME Section VIII Steam lbs./hr.	ASME Section VIII Air SCFM
15	5410	5580	1986
30	7969	8140	2897
50	11382	11894	4234
75	15691	16587	5904
100	20085	21280	7574
125	24480	25973	9245
150	28874	30666	10915
175	33268	35358	12586
200	37662	40051	14256
225	42056	44744	15926
250	46451	49437	17597

N ORIFICE

Set Pressure psig	ASME Section I Steam lbs./hr.	ASME Section VIII Steam lbs./hr.	ASME Section VIII Air SCFM
15	6522	6728	2395
30	9608	9814	3493
50	13723	14340	5104
75	18918	19998	7118
100	24215	25655	9132
125	29513	31313	11146
150	34811	36971	13160
175	40108	42629	15173
200	45406	48287	17187
225	50704	53944	19201
250	56002	59602	21215

P ORIFICE

Set Pressure psig	ASME Section I Steam lbs./hr.	ASME Section VIII Steam lbs./hr.	ASME Section VIII Air SCFM
15	9592	9895	3522
30	14131	14434	5138
50	20183	21091	7507
75	27823	29412	10469
100	35615	37733	13431
125	43407	46055	16393
150	51199	54376	19355
175	58990	62697	22317
200	66782	71018	25278
225	74574	79340	28240
250	82366	87661	31202

Q ORIFICE

Set Pressure psig	ASME Section I Steam lbs./hr.	ASME Section VIII Steam lbs./hr.	ASME Section VIII Air SCFM
15	16617	17141	6101
30	24480	25004	8900
50	34964	36537	13005
75	48200	50952	18136
100	61698	65368	23267
125	75197	79783	28398
150	88695	94199	33529
175	102193	108614	38660
200	115691	123030	43791
225	129189	137445	48923
250	142687	151861	54054

R ORIFICE

Set Pressure psig	ASME Section I Steam lbs./hr.	ASME Section VIII Steam lbs./hr.	ASME Section VIII Air SCFM
15	24061	24820	8834
30	35446	36205	12887
50	50628	52903	18830
75	69791	73776	26260
100	89336	94649	33689
125	108880	115522	41119
150	128425	136395	48549
175	147969	157267	55978
200	167514	178140	63408
225	187059	199013	70837
250	206603	219886	78267