



A48SC Type Pound-grade full lift spring loaded safety valve

Main property and specification

Normal Pressure	PN	150	300	600	900	1500	2500
Body strength	Ps (MPa)	3.0	7.5	15	22.5	35	38
Set pressure	Pk (MPa)	0.1~2	1.6~5	3.2~10	8~15	10~25	10~25
Seal pressure	Pm	90%Pk					
Reseating pressure	Ph	≥90%Pk					
Relieving pressure	Pp	≤1.1Pk					
Lift	H (mm)	≥1/4 do					
Appropriate temperature	C	≤420℃					
	I	≤500℃					
	V	≤540℃					
Appropriate medium	Steam						

Code of throat diameter

Code	Diameter	Code	Diameter
D	10	L	50
E	13	M	55
F	16	N	60
G	20.5	P	72
H	26	Q	96
J	33	R	115
K	40	T	148

Main Dimension

A48sC150																	
Normal Diameter DN (in)	Dimension (mm)																
	do	D	D1	D2	b	t	z-φ d	DN'	D'	D1'	D2'	b'	t'	z-φ d'	L	L1	H
1/2" × 3/4"	D	89	60.5	35	12	6	4-15	20	98	70	43	14	1.6	4-15	90	90	380
3/4" × 1"	D	98	70	43	14	6	4-15	25	108	79.5	51	15	1.6	4-15	96	92	390
1" × 1 1/2"	D	108	79.5	51	15	7	4-15	40	127	98.5	73	18	1.6	4-15	115	105	395
1" × 2"	D	108	79.5	51	15	7	4-15	50	152	120.5	92	18	1.6	4-19	115	105	395
1 1/2" × 2"	G	127	98.5	73	18	6	4-15	50	152	120.5	92	18	1.6	4-19	121	124	420
1 1/2" × 2 1/2"	G	127	98.5	73	18	6	4-15	65	178	139.5	105	20	1.6	4-19	121	124	420
1 1/2" × 3"	G	127	98.5	73	18	6	4-15	80	190	152.5	127	22	1.6	4-19	124	130	430
2" × 2 1/2"	H	152	120.5	92	18	6	4-19	65	178	139.5	105	20	1.6	4-19	124	130	460
2" × 3"	J	152	120.5	92	18	6	4-19	80	190	152.5	127	22	1.6	4-19	124	130	460
2 1/2" × 4"	H	178	139.5	105	20	7	4-19	100	229	190.5	157	24	1.6	8-19	143	137	480
3" × 4"	L	190	152.5	127	22	10	4-19	100	229	190.5	157	24	1.6	8-19	162	156	530
4" × 6"	N	229	190.5	157	24	12	8-19	150	279	241.5	216	26	1.6	8-22	229	181	310
6" × 8"	P	279	241.5	216	26	10	8-22	200	343	298.5	270	29	1.6	8-22	241	240	780
8" × 10"	R	343	298.5	270	29	10	8-22	250	406	362	324	31	1.6	12-25	279	276	840
12" × 14"	T	483	432	381	32	10	12-25	350	533	476	413	35	1.6	12-28	370	360	980



A48sC 300, A48Sc300I																	
Normal Diameter DN (in)	Dimension (mm)																
	do	D	D1	D2	b	t	z-φ d	DN'	D'	D1'	D2'	b'	t'	z-φ d'	L	L1	H
12" × 3/4"	D	95	66.5	35	15	6	4-15	20	98	70	43	14	1.6	4-15	90	90	380
3/4" × 1"	D	117	82.5	43	16	10	4-19	25	105	79.5	51	15	1.6	4-15	96	92	390
1" × 1 1/2"	D	124	90	51	18	7	4-19	40	127	98.5	73	18	1.6	4-15	115	105	395
1" × 2"	D	124	90	51	18	6	4-19	50	152	120.5	92	18	1.6	4-19	115	105	395
1 1/2" × 2"	F	156	114.5	73	20	6	4-22	50	152	120.5	92	18	1.6	4-19	121	124	420
1 1/2" × 2 1/2"	F	156	114.5	73	20	9	4-22	65	178	139.5	105	20	1.6	4-19	121	124	420
1 1/2" × 3"	F	156	114.5	73	20	6	4-22	80	190	152.5	127	22	1.6	4-19	124	130	430
2" × 2 1/2"	H	165	127	92	22	6	8-19	65	178	139.5	105	20	1.6	4-19	124	130	460
2" × 3"	H	165	127	92	22	6	8-19	80	190	152.5	127	22	1.6	4-19	124	130	460
2 1/2" × 4"	J	190	149.5	105	24	7	8-22	100	229	190.5	157	24	1.6	8-19	143	137	480
3" × 4"	L	210	168	127	28	10	8-22	100	229	190.5	157	24	1.6	8-19	162	156	430
4" × 6"	N	254	200	157	32	12	8-22	150	279	241.5	216	26	1.6	8-22	229	181	610
6" × 8"	P	318	270	216	38	10	12-22	200	343	298.5	270	29	1.6	8-22	241	240	780
8" × 10"	Q	381	330	270	42	10	12-25	250	406	362	324	31	1.6	12-25	279	276	840

Remark: 150Lb for outlet flange

A48sC600, A48Sc600I																	
Normal Diameter DN (in)	Dimension (mm)																
	do	D	D1	D2	b	t	z-φ d	DN'	D'	D1'	D2'	b'	t'	z-φ d'	L	L1	H
3/4" × 1"	D	117	82.5	43	16	10	4-19	25	108	79.5	51	15	1.6	4-15	96	92	400
1" × 2"	D	124	90	51	19	6	4-19	50	152	120.5	92	18	1.6	4-19	115	105	420
1 1/2" × 2"	F	156	114.5	73	22	10	4-22	50	152	120.5	92	18	1.6	4-19	152	124	440
1 1/2" × 2 1/2"	F	156	114.5	73	22	9	4-22	65	178	139.5	105	20	1.6	4-19	152	214	440
1 1/2" × 3"	F	156	114.5	73	22	6	4-22	80	190	152.5	127	22	1.6	4-19	152	124	450
2" × 2 1/2"	H	165	127	92	26	6	8-19	65	178	139.5	105	20	1.6	4-19	162	154	480
2" × 3"	H	165	127	92	26	6	8-19	80	190	152.5	127	22	1.6	4-19	162	154	480
2 1/2" × 4"	H	190	149.5	105	29	7	8-22	100	229	190.5	157	24	1.6	8-19	143	165	490
3" × 4"	K	210	168	127	32	10	8-22	100	229	190.5	157	24	1.6	8-19	162	155	540
4" × 6"	N	273	215.9	157	38	12	8-25	150	279	241.5	216	26	1.6	8-22	210	200	620
6" × 8"	R	356	292	216	46	10	12-28	200	343	298.5	270	29	1.6	8-22	241	240	790

Remark: 150Lb for outlet flange

WA48sC900, A48Sc900I																	
Normal Demeter DN (in)	Dimension (mm)																
	Do	D	D1	D2	b	t	z-φ d	DN'	D'	D1'	D2'	B'	T'	z-φ d'	L	L1	H
1 1/2" × 2"	F	178	124	73	32	10	4-28	50	152	120.5	92	18	1.6	4-19	115	124	440
2" × 3"	H	216	165.1	92	38	10	8-25	80	190	152.5	127	22	1.6	4-19	162	154	480
3" × 4"	J	241	190.5	127	38	10	8-25	100	229	190.5	157	24	1.6	8-19	181	184	550
4" × 6"	K	292	235	150	44	12	8-32	150	279	241.5	216	26	1.6	8-22	222	197	630

Remark: 150Lb for outlet flange

WA48Sc1500, A48Sc1500I																	
Normal Demeter DN (in)	Dimension (mm)																
	do	D	D1	D2	b	t	z-φ d	DN'	D'	D1'	D2'	b'	t'	z-φ d'	L	L1	H
1" × 1 1/2"	D	150	101.6	51	28	15	4-25	40	156	114.5	73	20	1.6	4-22	125	125	420
1 1/2" × 1 1/2"	E	178	124	73	32	14	4-28	40	156	114.5	73	20	1.6	4-22	150	194	450
1 1/2" × 2"	E	178	124	73	32	15	4-18	50	165	127	92	22	1.6	8-19	150	194	450
1 1/2" × 3"	E	178	124	73	41	7	4-29	80	210	268.5	127	31	1.6	8-22	155	254	450

Remark: 300Lb for outlet flange

WA48sC2500, A48sC2500V																	
Normal Demeter DN (in)	Dimension (mm)																
	do	D	D1	D2	b	t	z-φ d	DN'	D'	D1'	D2'	b'	t'	z-φ d'	L	L1	H
1 1/2" × 2 1/2"	F	205	146	73	45	7	4-32	65	190	149	105	27	1.6	8-22	165	140	670

Remark: 300Lb for outlet flange