



**WA42C Type Pound-grade balance bellows spring-loaded safety valve**

**Main property and specification**

Normal Pressure	PN	150	300	600	1500
Body strength	Ps (MPa)	3.0	7.5	15	37.5
Set pressure	Pk (MPa)	0.1~2	1.6~5	3.2~10	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	≤300℃			
	P、R	≤200℃			
Appropriate medium	C	Gas, liquid			
	P、R	Nitric Acid, Acetic Acid, Gas, Liquid			

**Code of throat diameter**

Code	Diameter	Code	Diameter
D	10	L	50
E	13	M	55
F	16	N	60
G	2035	P	72
H	26	Q	96
J	33	R	115
K	40	T	148

**Main Dimension**

A42C150, A42C150P, A42C150R																	
Normal Diameter DN (in)	Dimension (mm)																
	do	D	D1	D2	b	t	z-∅d	DN'	D'	D1'	D2'	b'	t'	z-∅d'	L	L1	H
12" × 3/4"	D	89	60.5	35	12	6	4-15	20	98	70	43	14	1.6	4-15	90	90	320
3/4" × 1"	D	98	70	43	14	8	4-15	25	108	79.5	51	15	1.6	4-15	96	92	330
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	340
1" × 2"	D	108	79.5	51	15	7	4-15	50	152	120.5	92	18	1.6	4-19	115	105	340
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	360
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	380
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	380
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	390
2" × 3"	J	152	120.5	92	18	6	4-19	80	190	152.5	127	22	1.6	4-19	124	130	390
2 1/2" × 4"	J	178	139.5	105	20	7	4-19	100	229	190.5	157	24	1.6	8-19	143	137	390
3" × 4"	L	190	152.5	127	22	10	4-19	100	229	190.5	157	24	1.6	8-19	162	156	460
4" × 6"	N	229	190.5	157	24	12	8-19	150	279	241.5	216	26	1.6	8-22	229	181	540
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	820
12" × 14"	T	483	432	381	32	12	12-25	350	533	476	416	35	1.6	12-28	370	360	890



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A42C300, A42C300P, A42C300R																	
Normal Diameter DN (in)	Dimension (mm)																
	do	D	D1	D2	b	t	z- $\phi$ d	DN'	D'	D1'	D2'	b'	t'	z- $\phi$ d'	L	L1	H
12" $\times$ 3/4"	D	95	66.5	35	15	6	4-15	20	98	70	43	14	1.6	4-15	90	90	320
3/4" $\times$ 1"	D	117	82.5	43	16	10	4-19	25	108	79.5	51	15	1.6	4-15	96	92	330
1" $\times$ 1 1/2"	D	124	90	51	18	7	4-19	40	127	98.5	73	18	1.6	4-15	115	105	340
1" $\times$ 2"	D	124	90	51	18	6	4-19	50	152	120.5	92	18	1.6	4-19	115	105	340
1 1/2" $\times$ 2"	F	156	114.5	73	20	6	4-22	50	152	120.5	92	18	1.6	4-19	121	124	360
1 1/2" $\times$ 2 1/2"	F	156	114.5	73	20	9	4-22	65	178	139.5	105	20	1.6	4-19	121	124	380
1 1/2" $\times$ 3"	F	156	114.5	73	20	6	4-22	80	190	152.5	127	22	1.6	4-19	124	130	380
2" $\times$ 2 1/2"	H	165	127	92	22	6	8-19	65	178	139.5	105	20	1.6	4-19	124	130	390
2" $\times$ 3"	H	165	127	92	22	6	8-19	80	190	152.5	127	22	1.6	4-19	124	130	390
2 1/2" $\times$ 4"	J	190	149.5	105	24	7	8-22	100	229	190.5	157	24	1.6	8-19	143	137	390
3" $\times$ 4"	L	210	168	127	28	10	8-22	100	229	190.5	157	24	1.6	8-19	162	156	460
4" $\times$ 6"	N	254	200	157	32	12	8-22	150	279	241.5	216	26	1.6	8-22	229	181	540
6" $\times$ 8"	P	318	270	216	8	10	12-22	200	343	298.5	324	29	1.6	8-22	241	240	780
8" $\times$ 10"	R	381	330	270	42	10	12-25	250	406	362	324	31	1.6	12-25	279	276	820
10" $\times$ 12"	T	445	387.5	324	46	10	16-28	350	533	476	413	35	1.6	12-28	350	330	890

Remark: 150Lb for outlet flange

A42C600, A42C600P, A42C600R																	
Normal Diameter DN (in)	Dimension (mm)																
	do	D	D1	D2	b	t	z- $\phi$ d	DN'	D'	D1'	D2'	b'	t'	z- $\phi$ d'	L	L1	H
3/4" $\times$ 1"	D	117	82.5	43	16	10	4-19	25	108	79.5	51	15	1.6	4-15	96	92	330
1" $\times$ 2"	D	124	90	51	19	6	4-19	50	152	120.5	92	18	1.6	4-19	115	105	340
1 1/2" $\times$ 2"	F	156	114.5	73	22	10	4-22	50	152	120.5	92	18	1.6	4-19	152	124	360
1 1/2" $\times$ 2 1/2"	F	156	114.5	73	22	9	4-22	65	178	139.5	105	20	1.6	4-19	152	124	380
1 1/2" $\times$ 3"	F	156	114.5	73	22	6	4-22	80	190	152.5	127	22	1.6	4-19	152	124	380
2" $\times$ 2 1/2"	H	165	127	92	26	6	8-19	65	178	139.5	105	20	1.6	4-19	162	154	390
2" $\times$ 3"	H	165	127	92	26	6	8-19	80	190	152.5	127	22	1.6	4-19	162	154	390
2 1/2" $\times$ 4"	K	190	149.5	105	26	7	8-22	100	229	190.5	157	24	1.6	8-19	143	165	390
3" $\times$ 4"	K	210	168	127	29	10	8-22	100	229	190.5	157	24	1.6	8-19	162	155	460
4" $\times$ 6"	N	273	215.9	157	38	12	8-25	150	279	241.5	216	26	1.6	8-22	210	200	540
6" $\times$ 8"	P	356	292	216	46	10	12-28	200	343	298.8	270	29	1.6	8-22	241	240	780

Remark: 150Lb for outlet flange