



A42CType Pound-grade low lift spring loaded safety valve

Main property and specification

Normal Pressure	PN	150	300	600	900	1500
Body strength	Ps (MPa)	3.0	7.5	15	22.5	38
Set pressure	Pk (MPa)	0.1~2	1.6~5	3.2~10	8~15	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	Water, Oil, Air, Steam, Corrosive medium					

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

A42C150, A42C150P, A42C150R																	
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	260
3/4"×1"	D	98	70	43	14	10	4-15	25	108	79.5	51	15	1.6	4-15	96	92	280
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	290
1"×2"	D	108	79.5	51	15	7	4-15	50	152	120.5	92	18	1.6	4-19	115	105	290
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	320
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	340
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	340
2"×2 1/2"	J	152	120.5	92	18	6	4-19	65	178	139.5	105	20	1.6	4-19	124	130	360
2"×3"	J	152	120.5	92	18	6	4-19	80	190	152.5	127	22	1.6	4-19	124	130	360
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	360
3"×4"	L	190	152.5	127	22	10	4-19	100	229	190.5	157	24	1.6	8-19	162	156	450
4"×6"	N	229	190.5	157	24	12	8-19	150	279	241.5	216	26	1.6	8-22	229	181	510
6"×8"	P	279	241.5	216	26	10	8-22	200	343	298.5	270	29	1.6	8-22	241	240	740
8"×10"	R	343	298.5	270	29	10	8-22	250	406	362	324	31	1.6	12-25	279	276	810
12"×14"	T	483	432	381	32	10	12-25	350	533	476	413	35	1.6	12-28	370	360	860

A42C300, HA42C300P, A42C300R																	
Normal	Dimension (mm)																



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Diameter DN (in)	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	95	66.5	35	15	6	4-15	20	98	70	43	14	1.6	4-15	90	90	260
3/4"×1"	D	117	82.5	43	16	10	4-19	25	108	79.5	51	15	1.6	4-15	96	92	280
1"×1 1/2"	D	124	90	51	18	7	4-19	40	127	98.5	73	18	1.6	4-15	115	105	290
1"×2"	D	124	90	51	18	6	4-19	50	152	120.5	92	18	1.6	4-19	115	105	290
1 1/2"×2"	G	156	114.5	73	20	6	4-22	50	152	120.5	92	18	1.6	4-19	121	124	320
1 1/2"×2 1/2"	G	156	114.5	73	20	9	4-22	65	178	139.5	105	20	1.6	4-19	121	124	340
1 1/2"×3"	G	156	114.5	73	20	6	4-22	80	190	152.5	127	22	1.6	4-19	124	130	340
2"×2 1/2"	H	165	127	92	22	6	8-19	65	178	139.5	105	20	1.6	4-19	124	130	360
2"×3"	J	165	127	92	22	6	8-19	80	190	152.5	127	22	1.6	4-19	124	130	360
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	360
3"×4"	L	210	168	127	28	10	8-22	100	229	190.5	157	24	1.6	8-19	162	156	450
4"×6"	N	254	200	157	32	12	8-22	150	279	241.5	216	26	1.6	8-22	229	181	510
6"×8"	P	318	270	216	38	10	12-22	200	343	298.5	270	29	1.6	8-22	241	240	740
8"×10"	R	381	330	270	42	10	12-25	250	406	362	324	31	1.6	12-25	279	276	810

Remark: 150Lb for outlet flange

A42C600, A42C600P, A42C600R																	
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	290
1"×2"	D	124	90	51	19	6	4-19	50	152	120.5	92	18	1.6	4-19	115	105	290
1 1/2"×2"	D	156	114.5	73	22	10	4-22	50	152	120.5	92	18	1.6	4-19	152	124	340
1 1/2"×2 1/2"	D	156	114.5	73	22	11	4-22	65	178	139.5	105	20	1.6	4-19	152	124	350
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	350
2"×2 1/2"	F	165	127	92	26	6	8-19	65	178	139.5	105	20	1.6	4-19	162	154	380
2"×3"	F	165	127	92	26	6	8-19	80	190	152.5	127	22	1.6	4-19	162	154	380
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	380
3"×4"	L	210	168	127	32	10	8-22	100	229	190.5	157	24	1.6	8-19	162	155	460
4"×6"	N	273	215.9	157	38	12	8-25	150	279	241.5	216	26	1.6	8-22	210	200	520
6"×8"	P	356	292	216	46	10	12-28	200	343	298.5	270	29	1.6	8-22	241	240	750

Remark: 150Lb for outlet flange

WA42C900, A42C900P, A42C900R																	
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	360
2"×3"	H	216	165.1	92	38	10	8-25	80	190	152.5	127	22	1.6	4-19	162	154	390
3"×4"	J	241	190.5	127	38	10	8-25	100	229	190.5	157	24	1.6	8-19	181	184	480
4"×6"	K	292	235	150	44	12	8-32	150	279	241.5	216	26	1.6	8-22	222	197	540

Remark: 150Lb for outlet flange

WA42C1500, A42C1500P, A42C1500R																	
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
3/4"×1"	D	130	89	43	20	10	4-22	25	124	90	51	18	1.6	4-19	120	136	310
1 1/2"×2"	D	178	124	73	26	12	4-28	50	165	127	95	22	1.6	8-29	140	105	360
1 1/2"×2 1/2"	F	178	124	73	26	12	4-28	65	190	149.5	105	24	1.6	8-22	152	124	360
2"×3"	G	216	165	92	32	15	8-25	80	210	168	127	28	1.6	8-22	162	154	380
3"×4"	J	267	206.2	127	42	14	8-32	100	254	200	157	32	1.6	8-22	181	184	490

Remark: 300Lb for outlet flange