

MODEL CC

ASME Certified Angle Type



FROM THE CREATORS
OF THE Original BUCKLING
PIN
VALVE

Precise.

Quality.

Reliable.







MODEL CC

MODEL CC ADVANTAGES

- Visual and remote indication of opening
- No fugitive emissions, even on resetting
- Does not generate metal or plastic shards
- Unaffected by changing ambient temperatures on the pin
- Bubble-tight seal to set point
- Opens in milliseconds
- Operates to within 95% of set point
- Pin cannot fatigue and buckle early
- Precise pin, obeying Euler's Law, acts as a pressure sensor and actuator
- The valve is downstream balanced so that downstream pressure does not affect set point

ASME SCOPE

Pressure Ranges: 15 - 1480 psi*
Rated for Both Liquid and Air Media

*Varies depending on Inlet/Outlet Sizes

ITEM NO.	DESCRIPTION	STANDARD MATERIAL
1	PISTON	SA-564 17-4SS COND. HH1150
2	NOZZLE	SA479-316
3	VALVE BODY	SA216 WCC
4	BONNET	SA479-316
5	TOP PLATE	SA105
6	HOLDING NUT	SA-564 17-4SS COND. HH1150
7	BREATHER VENT	316SS
8	HEX NUT	SA194 2H
9	STUD	SA193-B7
10	DRAIN PLUG	SA105
11	BODY PLUG	SA479-316
12	GASKET (NOZZLE)	SA240-316
13	GASKET (PLUG)	SA240-316
14	GASKET (BONNET)	SA240-316
15	BONNET O-RING	SPECIFY
16	PISTON O-RING	SPECIFY
17	POST	SA193-B7
18	SPACER	SA213-316
19	RUPTURE PIN	PROPRIETARY ALLOY

Consult factory for alternative materials.

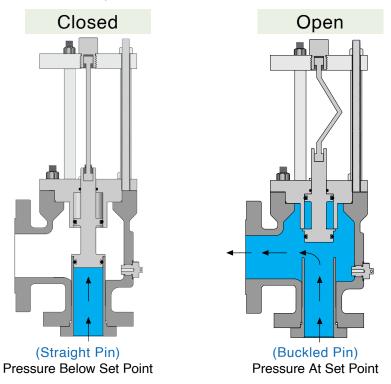
APPLICATIONS

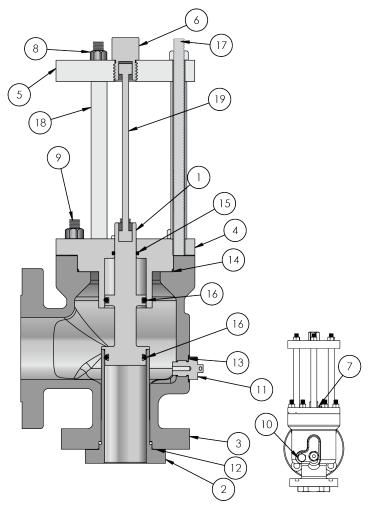
Provides safety for a wide variety of pressure relief applications. The ideal substitute for rupture discs.

GET THE POWER OF THE PIN.

OPERATION

In the closed position, an elastomer seal contacts a machined, stainless-steel piston seat for a bubble-tight shut off. When the pin buckles, the piston moves off seat to allow full flow pressure relief.







The Model CC holds a bubble-tight, closed position until pressure reaches an exact set point. At set point, the valve instantly opens to relieve pressure from a protected system.

- Wide variety of pressures ratings and settings.
- Large orifice sizes.
- Reliable settings.
- Utilizes proven design principle Euler's Law.
- Provides bubble-tight seal in closed position.
- +/- 5% accuracy of set pressure.
- Stainless-steel seat and piston standard.
- Manually reseat rapidly without opening the line to atmosphere.
- Pin label shows the pin code, valve serial number and pin set point in PSIG.
- No loose metal or plastic shards to enter the flow stream upon opening.
- One moving part.
- The pin cannot fatigue.
- Provides a reliable signal with a proximity sensor to monitor the stem movement and gives a remote indication that the valve has opened (Option).
- Spare pins can be stored at the valve (Option).
- Balanced piston design to compensate for the effects of back pressure.

OPTIONS

PROXIMITY SENSOR

PIN HOLDER

For remote open indication.

Pin storage at the valve.

STAINLESS-STEEL SAFETY CAGE

Protects your pin from accidental damage.

AIR FLOW CAF	ACITY V	S. PRESSI	URE (FOR	CONDIT	IONS SH	OWN BELO	DW)
Valve	1 x 2	1.5 x 2	2 x 3	3 x 4	4 x 6	6 x 8	8 x 6
ORIFICE DIA. (IN.)	0.859	1.335	1.939	2.443	3.826	5.761	7.156
ORIFICE AREA (SQ.IN.)	0.580	1.400	2.953	4.687	11.497	26.067	40.219
SLOPE	9.0	21.6	45.6	72.4	177.7	402.8	621.5
Kd FACTOR	0.843	0.843	0.843	0.843	0.843	0.843	0.843
SET PRESSURE (PSIG)	CAPACITY	IN SCFM.	OVERPRESS	URE = 110	% OR 3 PSI	WHICHEVE	R IS GREATER
15	293	707	1492	2368	5809	13172	20323
20	337	815	1720	2730	6697	15186	23430
25	382	923	1948	3092	7586	17200	26538
30	427	1031	2176	3454	8474	19214	29645
50	624	1507	3180	5048	12383	28076	43318
75	871	2102	4435	7040	17268	39153	60410
100	1117	2697	5690	9031	22154	50230	77501
150	1610	3887	8200	13015	31926	72385	111684
200	2103	5077	10710	16998	41697	94540	145867
250	2596	6267	13219	20982	51469	116695	180050
285	2941	7100	14976	23770	58309	132203	203978
300	3089	7457	15729	24966	61240		
350	3582	8647	18239	28949	71012		
400	4075	9837	20749	32933	80783		
450	4568	11026	23259	36916	90555		
500	5061	12216	25768	40900	100326		
550	5554	13406	28278	44883	110098		
600	6047	14596	30788	48867	119869		
650	6540	15786	33298	52850	129641		
700	7033	16976	35808	56834	139412		
740	7427	17928	37815	60021	147229		
800	8018	19356					
900	9004	21735					
1000	9990	24115					
1100	10976	26495					
1200	11962	28875					
1300	12948	31254					
1400	13934	33634					
1480	14723	35538					

Conditions										
Temp (°F)	Baro. (psi)	Cp/Cv	Comp. Factor	MW	Density	Gas Const.				
60	14.7	1.4	1	28.97	0.0764	356				

SPECIFICATIONS

VALVE POSITION

Pins are sized with the valve oriented as it will be in actual use; so, piston weight will not affect set point.

PRESSURE SET POINT RANGE

15 to 1,480 PSI.

SIZES

1 X 2" to 8 X 10"

CONNECTIONS

Flange connections available - 150# to 600#. (see chart)

VALVE SEALS

Available for high and low temperatures, FKM standard.

STANDARD MATERIALS

ASME Section II materials.

ACCURACY

+/- 5% above 40 PSI, ±2 PSI Below 40 PSI

DOWNSTREAM PRESSURE BALANCED

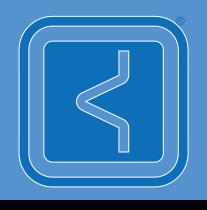
The piston balances out downstream pressure.

DIMENSIONS

API-526 Spring-Relief valve dimensions.

Valve 1 x 2 1.5 x 2 2 x 3 3 x 4 4 x 6 6 x 8 8 x 6 ORIFICE DIA. (IN.) 0.859 1.335 1.939 2.443 3.826 5.761 7.156 ORIFICE AREA (SQ.IN.) 0.580 1.400 2.953 4.687 11.497 26.067 40.219 FLOW FACTOR 16.6 40.1 84.5 134.1 329.0 745.9 1150.8 Kd FACTOR 0.753	WATER FLOW CA	APACITY	VS. PRES	SURE (FO	OR COND	ITIONS S	HOWN BE	LOW)
ORIFICE AREA (SQ.IN.) 0.580 1.400 2.953 4.687 11.497 26.067 40.219 FLOW FACTOR 16.6 40.1 84.5 134.1 329.0 745.9 1150.8 Kd FACTOR 0.753 0.	Valve	1 x 2	1.5 x 2	2 x 3	3 x 4	4 x 6	6 x 8	8 x 6
FLOW FACTOR 16.6 40.1 84.5 134.1 329.0 745.9 1150.8 Kd FACTOR 0.753 0.754 1882 4284 <	ORIFICE DIA. (IN.)	0.859	1.335	1.939	2.443	3.826	5.761	7.156
Kd FACTOR 0.753 0.254 4 6 0.753 0.	ORIFICE AREA (SQ.IN.)	0.580	1.400	2.953	4.687	11.497	26.067	40.219
SET PRESSURE (PSIG)	FLOW FACTOR	16.6	40.1	84.5	134.1	329.0	745.9	1150.8
15 70 169 358 568 1395 3164 4882 20 79 192 405 643 1577 3577 5519 25 87 211 447 709 1740 3946 6089 30 95 230 485 770 1889 4284 6610 50 123 297 626 994 2439 5531 8534 75 150 363 767 1218 2987 6774 10452 100 174 420 886 1406 3450 7822 12069 150 213 514 1085 1722 4225 9580 14782 200 246 594 1253 1989 4879 11062 17068 250 275 664 1401 2223 5455 12368 19083 285 293 709 1496 2374 5824	Kd FACTOR	0.753	0.753	0.753	0.753	0.753	0.753	0.753
20 79 192 405 643 1577 3577 5519 25 87 211 447 709 1740 3946 6089 30 95 230 485 770 1889 4284 6610 50 123 297 626 994 2439 5531 8534 75 150 363 767 1218 2987 6774 10452 100 174 420 886 1406 3450 7822 12069 150 213 514 1085 1722 4225 9580 14782 200 246 594 1253 1989 4879 11062 17068 250 275 664 1401 2223 5455 12368 19083 285 293 709 1496 2374 5824 13206 20375 350 325 786 1657 2631 6454<	SET PRESSURE (PSIG)	CAPACIT	Y IN GPM. C	VERPRESS	URE = 1109	6 OR 3 PSI,	WHICHEVER	IS GREATER
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75 150 363 767 1218 2987 6774 10452 100 174 420 886 1406 3450 7822 12069 150 213 514 1085 1722 4225 9580 14782 200 246 594 1253 1989 4879 11062 17068 250 275 664 1401 2223 5455 12368 19083 285 293 709 1496 2374 5824 13206 20375 300 301 727 1534 2436 5975 20375 350 325 786 1657 2631 6454 400 348 840 1772 2813 6900 450 369 891 1879 2983 7319 7319 500 389 939 1981 3145 7714 7714 7714 7714 7714 7714 7714 7714 77	30	95	230	485	770	1889	4284	6610
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1300 627 1514 1400 651 1572	1100	577	1393					
1400 651 1572	1200	602	1455					
	1300	627	1514					
1480 669 1616	1400	651	1572					
	1480	669	1616					

Conditions									
Temp (°F)	Baro. (psi)	SG	Back Pressure	Κv	Specific Weight				
70	14.7	1	0	1	62.3058				



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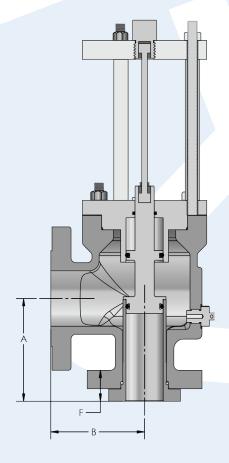
EMAIL info@taylorvalve.com



Precise.



	Rupture Pin Model CC Nomenclature															
	CC-	A		В		С		D		E		F		G		н
	Inlet x O	utlet	Connect	ions	Inlet x Outlet I	Rating	Materia Inlet/Outle	l Body/ et/Bonnet	Stem Mat	erial	Trim (Inle		Piston C Design		Seal Ma	iterial
cc-[Α		В		С		D		E		F		G		Н	
	1"x2"	1	RFF x RFF	1	150# x 150#	1	CS	1	17-4	1	316	1	Square	1	FKM	1
	1.5"x2"	5	RTJ x RFF	3	300# x 150#	2	316	3					Dovetail	2	NBR	3
	2"x3"	2			600# x 150#	3									EPDM	6
	3"x4"	3														
[4"x6"	4														
	6"x8"	6														
	8"x10"	8														



O	onnectio	15	Dim	ensions	Aprox. Weight			
Inlet x Outlet	Flange Rating	MaxSet (psig)	А	В	F	Ibs	kg	
	150x150	285			1-5/16			
1x2	300x150	740	4-1/8	4-1/2	1-3/8	50	23	
	600x150	1480			1-3/6			
	150x150	285	4-7/8	4-3/4	1-5/16	63		
1.5x2	300x150	740	4-7/8	6	1-9/16		29	
	600x150	1480	4-7/0					
2x3	150x150	285	5-3/8	4-7/8	1-3/8	70	32	
283	300x150	740	3-3/6	4-7/0	1-9/16	/0	32	
3x4	150x150	285	6-1/8	6-1/2	1-5/8	133	60	
384	300x150	740	0-1/6	0-1/2	1-13/16	133	00	
4x6	150x150	285	7-1/8	9	1-5/8	214	97	
	300x150	740	7-1/0	9	1-15/16	214	97	
6x8	150x150	285	9-7/16	9-1/2	1-13/16	373	169	
8x10	150x150	285	10-7/8	11	1-7/8	448	203	

11/18/25