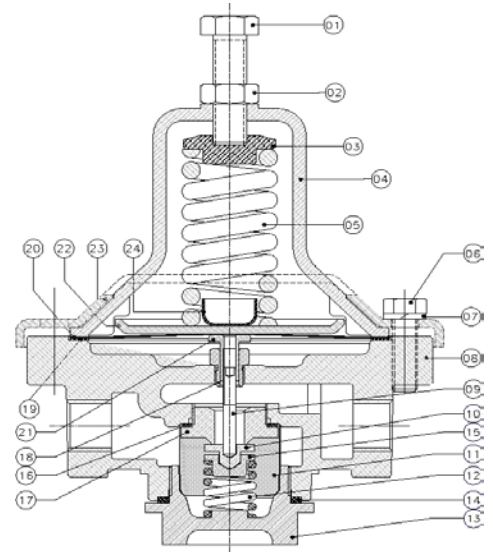
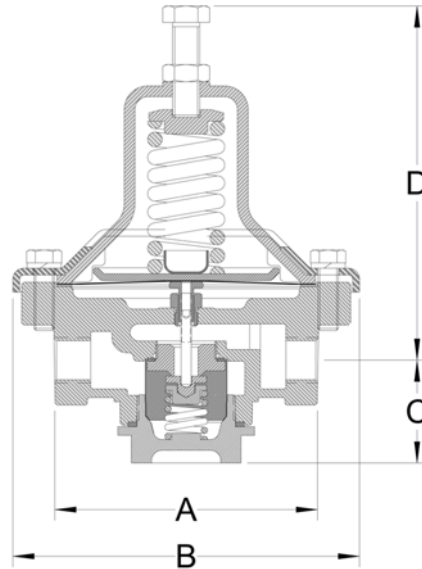


DIRECT OPERATED PRESSURE REDUCING VALVE



MODEL CRV200



APPLICATIONS

Steam Equipment: Presses, Irons, Tables, Radiators, Sterilizers, Blanket Warmers, Dryers, Autoclaves, Vulcanizers, Unit Heaters, Light Load Processes

FEATURES

- Direct acting, self-operated design for steam, water or gas service
- Packless Construction

RATINGS

PMO (maximum operating pressure) : 200 psi
TMO (maximum operating temperature): 400°F

REDUCED PRESSURE ADJUSTMENT RANGES

3-15 psig	For Sizes:	1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
10-30 psig	For Sizes:	1/2", 3/4", 1", 1-1/4"
10-40 psig	For Sizes:	1-1/2", 2"
25-80 psig	For Sizes:	1/2", 3/4", 1", 1-1/4"
30-100 psig	For Sizes:	1-1/2", 2"
75-140 psig	For Sizes:	1/2", 3/4", 1", 1-1/4"

MATERIALS

PART	DESCRIPTION	PART	DESCRIPTION
(1) Adjustment Screw	Steel	(13) Plug	Brass
(2) Locking Nut	Brass	(14) Body Gasket	Teflon
(3) Spring Button	Steel	(15) Spring Button	Brass
(4) Spring Chamber	Cast Iron	(16) Seat Gasket	Brass
(5) Adjusting Spring	Steel	(17) Seat	Stn. Stl.
(6) Bolt	Steel	(18) Stem Guide	Stn. Stl.
(7) Lock Washer	Steel	(19) Diaphragm Gasket	Synthetic
(8) Body	Cast Iron	(20) Diaphragms	Phos. Bronze
(9) Stem	Stn. Stl.	(21) Stem Pusher Plate	Stn. Stl.
(10) Disc	Stn. Stl.	(22) Pressure Plate	Steel
(11) Screen	Stn. Stl.	(23) Clamp Ring	Steel
(12) Valve Spring	Stn. Stl.	(24) Washer	Stn. Stl.

DIMENSIONS AND WEIGHTS

Size			DIMENSIONS								Weight	
			A		B		C		D			
mm	in	Valve Cv	mm	in	mm	in	mm	in	mm	in	kg	lbs
15	1/2	2.2	124	4-7/8	156	6-1/8	48	1-7/8	171	6-3/4	6	13
20	3/4	3.3	124	4-7/8	156	6-1/8	48	1-7/8	171	6-3/4	6	13
25	1	4.9	146	5-3/4	186	7-5/16	56	2-3/16	179	7-1/16	9.5	21
32	1-1/4	5.0	146	5-3/4	186	7-5/16	56	2-3/16	179	7-1/16	9.5	21
40	1-1/2	10.1	170	6-11/16	219	8-5/8	70	2-3/4	308	12-1/8	19	42
50	2	10.8	170	6-11/16	219	8-5/8	70	2-3/4	308	12-1/8	19	42

Colton has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice



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BULLETIN PRV100

DIRECT OPERATED PRESSURE REDUCING VALVE



Quick Select Capacity Chart (Based upon the noted droop/offset. For conditions outside of this chart, please consult the factory)

How to use the Quick Select Capacity Chart:

1. Select the delivery pressure adjusting spring range
2. Find your inlet pressure
3. Find your outlet or control pressure
4. Move across to desired flow rate

S = Lbs./Hr. of Saturated Steam
W = USGPM of Water from 40°F to 160°F
A = SCFM of Air @ 70°F

Spring Range	Droop/Offset	Inlet PSI	Outlet PSI	1/2"			3/4"			1"			1-1/4"			1-1/2"			2"		
				S	W	A	S	W	A	S	W	A	S	W	A	S	W	A	S	W	A
3 TO 15	4 P S I	10	5	45	3	15	60	5	20	85	7	30	90	7	35	100	9	45	110	10	50
		20	10	65	4	20	95	6	30	130	8	45	135	9	50	170	11	65	200	12	70
		5	5	65	5	25	95	7	35	130	9	50	135	11	55	170	13	75	200	14	80
		30	10	100	6	30	140	8	45	190	11	65	210	12	70	250	15	90	280	16	100
		5	5	100	6	30	140	9	45	190	12	70	210	13	75	250	16	95	280	17	105
		40	10	125	6	40	170	10	60	230	12	85	255	14	90	310	17	115	340	19	125
		5	5	125	7	40	170	10	60	230	13	90	255	15	95	310	19	120	340	20	130
		50	10	145	7	50	200	11	70	245	14	105	300	16	110	360	20	140	400	21	150
		75	10	200	9	65	275	14	100	335	18	150	415	21	155	500	26	200	555	27	215
		100	10	255	11	85	355	17	130	430	21	190	530	25	195	640	30	260	710	31	280
125	10	310	13	105	430	19	160	525	23	235	645	29	240	775	34	320	865	35	340		
10 TO 30 & 10 TO 40	8 P S I	30	20	95	5	25	140	7	40	185	11	60	215	12	65	280	13	90	300	14	100
		15	15	100	5	30	145	8	45	190	12	65	220	13	70	285	14	100	305	15	110
		40	25	120	5	35	175	8	50	230	12	75	270	13	80	350	14	115	375	15	125
		20	20	120	6	35	175	8	55	230	13	80	270	14	85	350	16	125	375	17	135
		15	15	120	6	40	175	10	60	230	14	85	270	15	90	350	17	130	375	18	140
		50	25	145	6	45	210	10	65	275	14	95	315	15	100	415	17	145	440	18	155
		20	20	145	7	45	210	10	65	275	15	100	315	16	105	415	18	150	440	20	165
		15	15	145	7	45	210	11	70	275	16	105	315	17	110	415	19	155	440	21	170
		75	25	200	8	65	290	12	95	380	19	140	435	20	145	575	22	215	610	25	230
		20	20	200	9	65	290	13	100	380	20	145	435	21	150	575	23	220	610	26	235
15	15	200	9	65	290	13	100	380	21	150	435	22	155	575	24	225	610	27	240		
100	25	250	10	85	370	15	125	490	22	185	560	23	190	735	27	285	785	30	305		
20	20	250	10	85	370	15	125	490	23	190	560	24	195	735	28	290	785	31	310		
15	15	250	11	85	370	16	130	490	24	195	560	25	200	735	29	295	785	32	315		
125	30	305	12	105	450	17	155	595	25	230	680	26	235	895	30	350	960	33	375		
25	25	305	13	105	450	17	155	595	26	230	680	27	235	895	31	355	960	34	380		
20	20	305	13	105	450	18	155	595	26	235	680	27	240	895	31	360	960	34	385		
15	15	305	13	105	450	18	155	595	27	235	680	28	240	895	32	360	960	35	385		
25 TO 80 & 30 TO 100	20 P S I	40	30	135	6	35	215	9	55	290	12	80	300	14	85	375	16	150	500	17	170
		50	40	145	6	40	230	9	60	325	12	90	340	14	95	400	16	165	530	17	190
		30	30	145	7	45	230	10	65	325	14	100	340	16	105	400	18	185	530	19	210
		75	50	200	7	60	320	11	90	450	15	130	475	17	135	555	19	240	740	20	270
		40	40	200	8	65	320	12	95	450	16	140	475	19	145	555	21	255	740	22	290
		30	30	200	9	65	320	13	100	450	17	145	475	20	150	555	22	265	740	23	300
		100	75	275	7	70	410	11	105	620	15	155	640	17	160	870	19	280	995	20	320
		50	50	275	9	80	410	13	120	620	18	180	640	21	185	870	23	325	995	24	370
		40	40	275	10	85	410	14	125	620	20	185	640	23	190	870	25	340	995	26	385
		30	30	275	10	85	410	15	130	620	21	190	640	24	195	870	26	345	995	27	390
125	75	340	9	90	500	14	140	760	18	205	780	21	210	1060	23	375	1210	24	425		
50	50	340	11	100	500	16	150	760	21	225	780	25	230	1060	27	410	1210	28	460		
40	40	340	11	105	500	17	155	760	22	230	780	26	235	1060	28	420	1210	29	475		
30	30	340	12	105	500	18	160	760	23	235	780	28	240	1060	30	425	1210	31	480		
150	75	400	11	115	590	16	170	895	21	255	915	25	260	1250	27	460	1420	28	525		
50	50	400	12	120	590	18	180	895	24	270	915	27	275	1250	29	490	1420	30	555		
40	40	400	12	125	590	19	185	895	25	275	915	29	280	1250	31	500	1420	32	565		
30	30	400	13	125	590	20	185	895	26	275	915	30	280	1250	32	505	1420	33	570		
200	75	525	13	155	770	20	235	1170	26	345	1195	30	350	1630	32	630	1850	33	715		
50	50	525	14	160	770	21	240	1170	28	355	1195	33	360	1630	35	645	1850	36	730		
40	40	525	15	160	770	22	240	1170	29	360	1195	34	365	1630	36	650	1850	37	740		
30	30	525	15	160	770	23	245	1170	30	365	1195	35	370	1630	37	660	1850	38	750		
75 TO 140	30 P S I	100	80	215	6	70	300	9	110	440	14	160	450	15	165	RANGE NOT AVAILABLE IN SIZES 1-1/2" AND 2"					
		125	100	255	7	85	350	10	125	515	15	190	525	16	195						
		80	80	260	8	95	350	11	140	525	17	210	540	18	215						
		150	130	275	6	90	370	9	135	545	14	200	560	15	205						
		120	120	290	8	95	400	10	145	585	15	215	600	16	220						
		110	110	310	8	100	420	11	155	620	16	230	635	18	235						
		80	80	310	10	115	420	13	175	620	20	260	635	21	265						
		175	130	350	8	115	470	11	175	700	17	260	715	18	265						
		120	120	360	9	120	485	12	180	715	18	270	730	19	275						
		100	100	360	10	130	485	14	195	715	20	290	730	21	295						
80	80	360	11	135	485	15	205	715	22	305	730	23	310								
200	130	405	10	135	550	13	205	810	20	305	830	21	310								
100	100	405	11	150	550	16	225	810	22	335	830	23	340								
80	80	405	12	170	550	16	255	810	24	380	830	25	385								

