midwest control
an intech industries company

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CONBRACO ASME SECTION I and VIII BRONZE SAFETY VALVES

- A Dependable Cast Bronze High Capacity Safety Valve Ideal for Use on All Types of Boilers, Piping Systems and Unfired Pressure Vessels
- Rugged Design Features Improved Alignment for Enhanced Performance and Reliability.
- Set Pressures 5 to 300 PSIG
- Maximum Temperature is 406°F
- Steam Set Pressures to 300 PSI @ 422°F
- Available in Stock Pressures 125,135,140,150,165,175, and 200 PSIG
- Other Pressures and Settings Available Upon Request
- Other Combraco Products Available - Consult Midwest Control

Features

- Wider Wrenching Hex for Easier, Faster Installations
- Stainless Steel Springs
- Teflon ® PFA Seat Resists Corrosive Boiler Chemicals and Excessive Vibration
- High Capacity Full Nozzle Design
- Two Control Rings for Maximum Performance and Adjustability
- Short "Tuned" Blow Down Minimizes Product Loss
- Tapped Body Drain Allows Piping of Condensate Away from Equipment
- Reduced Repair Costs: Soft Seat Easily Replaced
- Registered in All Canadian Provinces Under CSA B51 CRN OG8547.5C

Options

- Choice of Teflon® or Metal to Metal Seating
- 316 stainless Steel Wetted Trim
- Anti – Vibration Dampened Lifting Lever
- Oxygen Cleaning

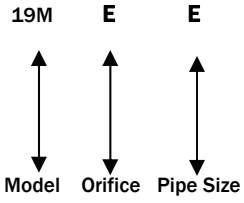
Side Venting

ASME Rating is Only Applicable to Valves Set at 15 PSIG and Higher

Side Venting Valve			
Inlet (In)	Outlet (In)	Model No. Std Hard Seat	Model No. Teflon® /Soft Seat
1/2	3/4	19MDC	19KDC
3/4	3/4	19MDD	19KDD
3/4	1	19MED	19KED
1	1	19MEE	19KEE
1	1-1/4	19MFE	19KFE
1-1/4	1-1/4	19MFF	19KFF
1-1/4	1-1/2	19MGF	19KGF
1-1/2	1-1/2	19MGG	19KGG
1-1/2	2	19MHG	19KHG
2	2	19MHH	19KHH
2	2-1/2	19MJH	19KJH
2-1/2	2-1/2	19MJJ	19KJJ

Valve Selection: To Determine Valve Size

1. See Chart on Other Side
2. Locate Desired Pressure and SCFM
3. Intersect Orifice Size at the Top of the Chart
4. For Example 626 scfm @ 150 PSIG = An "E" Orifice
5. Model = 19M, Select Desired Inlet Pipe Size
6. Add PSIG Setting to Part Number Suffix



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Orifice Size	D			E			F			G			H			J		
Area	.129 Sq. In.			.230 Sq. In.			.359 Sq. In.			.589 Sq. In.			.919 Sq. In.			1.509 Sq. In.		
Set PSIG	LBS/HR Steam V	LBS/HR Steam UV	SCFM Air UV	LBS/HR Steam V	LBS/HR Steam UV	SCFM Air UV	LBS/HR Steam V	LBS/HR Steam UV	SCFM Air UV	LBS/ HR Steam V	LBS/HR Steam UV	SCFM Air UV	LBS/HR Steam V	LBS/HR Steam UV	SCFM Air UV	LBS/HR Steam V	LBS/HR Steam UV	SCFM Air UV
10		167	54		298	97		466	151		765	248		1193	387		1958	635
15	174	179	64	310	320	114	484	499	178	794	820	292	1240	1279	455	2035	2100	747
20	201	207	74	359	369	131	561	576	205	920	945	336	1435	1474	525	2356	2421	862
25	229	234	83	408	418	149	637	652	232	1045	1070	381	1631	1670	594	2677	2742	976
30	256	262	93	457	467	166	713	729	259	1170	1195	426	1826	1865	664	2998	3063	1090
35	284	292	104	506	521	185	790	813	289	1296	1333	475	2022	2080	740	3319	3416	1216
40	311	322	115	555	574	204	866	897	319	1421	1471	524	2217	2295	817	3641	3769	1342
45	339	352	125	604	628	224	942	981	349	1546	1609	573	2413	2510	894	3962	4122	1467
50	366	383	136	653	682	243	1019	1065	379	1672	1747	622	2608	2725	970	4283	4475	1593
55	394	413	147	702	736	262	1095	1149	409	1797	1885	671	2804	2941	1047	4604	4828	1719
60	421	443	158	751	790	281	1172	1233	439	1922	2022	720	2999	3156	1123	4925	5181	1844
65	448	473	168	800	844	300	1248	1317	469	2048	2160	769	3195	3371	1200	5246	5535	1970
70	476	503	179	849	897	319	1326	1401	499	2175	2298	818	3394	3586	1276	5573	5888	2096
75	505	534	190	900	951	339	1405	1485	528	2304	2436	867	3596	3801	1353	5904	6241	2221
80	533	564	201	950	1005	358	1483	1569	558	2433	2574	916	3797	4016	1429	6234	6594	2347
85	561	594	211	1001	1059	377	1562	1653	588	2563	2712	965	3998	4231	1506	6565	6947	2473
90	590	624	222	1051	1113	396	1641	1737	618	2692	2849	1014	4200	4446	1583	6896	7300	2598
95	618	654	233	1101	1167	415	1719	1821	648	2821	2987	1063	4401	4661	1659	7226	7653	2724
100	646	684	244	1152	1220	434	1798	1905	678	2950	3125	1112	4602	4876	1736	7557	8007	2850
105	674	715	254	1202	1274	454	1877	1989	708	3079	3263	1161	4804	5091	1812	7888	8360	2976
110	703	745	265	1253	1328	473	1955	2073	738	3208	3401	1211	5005	5306	1889	8218	8713	3101
115	731	775	276	1303	1382	492	2034	2157	768	3337	3539	1260	5207	5521	1965	8549	9066	3227
120	759	805	287	1353	1436	511	2113	2241	798	3466	3677	1309	5408	5736	2042	8880	9419	3353
125	787	835	297	1404	1489	530	2191	2325	828	3595	3814	1358	5609	5951	2118	9210	9772	3478
130	816	866	308	1454	1543	549	2270	2409	857	3724	3952	1407	5811	6167	2195	9541	10125	3604
135	844	896	319	1505	1597	568	2349	2493	887	3853	4090	1456	6012	6382	2271	9872	10479	3730
140	872	926	330	1555	1651	588	2427	2577	917	3982	4228	1505	6213	6597	2348	10202	10832	3855
145	900	956	340	1605	1705	607	2506	2661	947	4111	4366	1554	6415	6812	2425	10533	11185	3981
150	929	986	351	1656	1759	626	2585	2745	977	4240	4504	1603	6616	7027	2501	10864	11538	4107
160	985	1047	373	1757	1866	664	2742	2913	1037	4499	4779	1701	7019	7457	2654	11525	12244	4358
170	1042	1107	394	1857	1974	703	2899	3081	1097	4757	5055	1799	7422	7887	2807	12186	12951	4610
180	1098	1167	416	1958	2082	741	3057	3249	1156	5015	5331	1897	7824	8317	2960	12848	13657	4861
190	1155	1228	437	2059	2189	779	3214	3417	1216	5273	5606	1996	8227	8747	3114	13509	14363	5112
200	1211	1288	459	2160	2297	818	3371	3585	1276	5531	5882	2094	8630	9177	3267	14170	15069	5364
210	1268	1349	480	2261	2405	856	3529	3753	1336	5789	6158	2192	9033	9608	3420	14832	15776	5615
220	1324	1409	502	2361	2512	894	3686	3921	1396	6047	6433	2290	9436	10038	3573	15493	16482	5867
230	1381	1469	523	2462	2620	932	3843	4089	1456	6305	6709	2388	9838	10468	3726	16154	17188	6118
240	1438	1530	545	2563	2727	971	4001	4257	1515	6564	6985	2486	10241	10898	3879	16816	17894	6369
250	1494	1590	566	2664	2835	1009	4158	4425	1575	6822	7260	2584	10644	11328	4032	17477	18601	6621
260	1551	1651	587	2765	2943	1047	4315	4593	1635	7080	7536	2682	11047	11758	4185	18138	19307	6872
270	1607	1711	609	2865	3050	1086	4473	4761	1695	7338	7812	2781	11449	1218	4338	18800	20013	7124
280	1664	1771	630	2966	3158	1124	4630	4929	1755	7596	8087	2879	11852	12618	4491	19461	20720	7375
290	1720	1832	652	3067	3266	1162	4787	5097	1814	7854	8363	2977	12255	13049	4645	20122	21426	7626
300	1777	1892	673	3168	3373	1201	4945	5265	1874	8112	8639	3075	12658	13479	4798	20784	22132	7878