

Series Specifications 20C.E6 (20C)

**Table 20C.E6.8  
 (Series 20C)  
 Vacuum Rating (psig)**

Size in.	Rating psi	ISO14962 & BS7159	Optional Equation for Piping with External Stiffeners (based on the distance between stiffeners,ft)							
			2.5	5	7.5	10	15	20	25	30
0.50	150	13789.3	9,307.8	9,307.8	9,307.8	9,307.8	9,307.8	9,307.8	9,307.8	9,307.8
0.75	150	7060.1	4,765.6	4,765.6	4,765.6	4,765.6	4,765.6	4,765.6	4,765.6	4,765.6
1.00	150	4085.7	2,757.9	2,757.9	2,757.9	2,757.9	2,757.9	2,757.9	2,757.9	2,757.9
1.50	150	1723.7	1,163.5	1,163.5	1,163.5	1,163.5	1,163.5	1,163.5	1,163.5	1,163.5
2.00	150	882.5	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7
2.50	150	510.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7
3.00	150	321.6	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1
4.00	150	151.3	113.5	102.1	102.1	102.1	102.1	102.1	102.1	102.1
5.00	150	82.9	62.2	55.9	55.9	55.9	55.9	55.9	55.9	55.9
6.00	150	50.2	37.7	33.9	33.9	33.9	33.9	33.9	33.9	33.9
8.00	150	44.2	53.0	33.2	29.8	29.8	29.8	29.8	29.8	29.8
10.00	150	23.6	49.7	21.3	16.8	16.0	16.0	16.0	16.0	16.0
12.00	150	24.5	62.4	23.9	22.0	17.4	16.5	16.5	16.5	16.5
14.00	150	23.8	75.1	35.8	21.5	17.0	16.1	16.1	16.1	16.1
16.00	150	24.4	87.9	40.3	22.0	22.0	16.5	16.5	16.5	16.5
18.00	150	24.9	89.6	41.1	24.3	22.4	17.7	16.8	16.8	16.8
20.00	150	25.3	113.6	53.0	33.1	22.7	18.0	17.0	17.0	17.0
24.00	150	25.8	147.2	65.8	42.6	25.2	23.2	18.4	17.4	17.4
30.00	100	8.0	84.3	31.3	19.3	15.7	8.4	6.0	6.0	5.4
36.00	100	8.2	86.1	36.9	24.6	17.2	9.8	8.6	6.1	6.1
42.00	50	1.0	21.6	7.1	4.0	3.7	2.2	1.9	1.9	0.9
48.00	50	1.0	22.0	9.4	4.7	4.1	2.4	2.0	1.9	1.9
54.00	50	1.1	22.4	9.6	5.8	4.2	2.9	2.2	1.9	1.9
60.00	50	1.1	22.7	13.6	7.4	4.9	3.9	2.4	2.1	1.9
66.00	50	1.1	22.9	13.7	7.5	4.9	3.9	2.5	2.3	2.0
72.00	50	1.1	23.1	13.8	9.9	5.9	4.3	3.0	2.3	2.1

Notes:

1. Values are valid up to 150 F (66 C). Degrade by 1% per 10 F (5.5 C) rise above 150 F (66 C) to account for reduced modulus values.
2. Includes a safety factor of 5.0 except for the ISO14962 equation which includes a safety factor of 3.0.
3. The ISO14962/BS7159 is a generally accepted equation for aboveground piping systems, but this equation does not take into account the effect of stiffeners which can have an effect on the vacuum rating.

Series Specifications 20C.E6 (20C)

Table 20C.E6M.8 (Metric)  
 (Series 20C)  
 Vacuum Rating (bar)

Size mm	Rating bar	ISO14962 & BS7159	Optional Equation for Piping with External Stiffeners (based on the distance between stiffeners,m)							
			1	2	3	4	5	6	7	8
13	10	950.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8
19	10	486.8	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6
25	10	281.7	190.2	190.2	190.2	190.2	190.2	190.2	190.2	190.2
38	10	118.8	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
51	10	60.8	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
64	10	35.2	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
76	10	22.2	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
102	10	10.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
127	10	5.7	4.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9
152	10	3.5	2.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3
203	10	3.0	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1
254	10	1.6	2.4	1.5	1.1	1.1	1.1	1.1	1.1	1.1
305	10	1.7	2.8	1.5	1.2	1.1	1.1	1.1	1.1	1.1
356	10	1.6	3.5	1.5	1.2	1.1	1.1	1.1	1.1	1.1
406	10	1.7	4.3	1.6	1.5	1.2	1.1	1.1	1.1	1.1
457	10	1.7	4.4	2.3	1.5	1.2	1.2	1.2	1.2	1.2
508	10	1.7	5.5	2.6	1.6	1.6	1.2	1.2	1.2	1.2
610	10	1.8	6.4	2.9	1.7	1.6	1.3	1.3	1.2	1.2
762	7	0.6	3.8	1.7	1.1	0.7	0.6	0.6	0.4	0.4
914	7	0.6	3.9	1.7	1.2	1.0	0.6	0.6	0.6	0.4
1067	3	0.1	0.9	0.3	0.3	0.2	0.1	0.1	0.1	0.1
1219	3	0.1	0.9	0.4	0.3	0.2	0.2	0.1	0.1	0.1
1372	3	0.1	1.5	0.5	0.3	0.3	0.2	0.2	0.1	0.1
1524	3	0.1	1.6	0.5	0.3	0.3	0.2	0.2	0.2	0.1
1676	3	0.1	1.6	0.7	0.4	0.3	0.3	0.2	0.2	0.1
1829	3	0.1	1.6	0.7	0.4	0.3	0.3	0.2	0.2	0.2

Notes:

1. Values are valid up to 150 F (66 C). Degrade by 1% per 10 F (5.5 C) rise above 150 F (66 C) to account for reduced modulus values.
2. Includes a safety factor of 5.0 except for the ISO14962 equation which includes a safety factor of 3.0.
3. The ISO14692/BS7159 is a generally accepted equation for aboveground piping systems, but this equation does not take into account the effect of stiffeners which can have an effect on the vacuum rating.