

Series Specifications 20HV.E6 (20HV)

(also includes Series 20HV-C and 20HV(FDA))

**Table 20HV.E6.8
 (Series 20HV)
 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	200	17844.9	12,045.3	12,045.3	12,045.3	12,045.3	12,045.3	12,045.3	12,045.3	12,045.3
0.75	200	9136.6	6,167.2	6,167.2	6,167.2	6,167.2	6,167.2	6,167.2	6,167.2	6,167.2
1.00	200	5287.4	3,569.0	3,569.0	3,569.0	3,569.0	3,569.0	3,569.0	3,569.0	3,569.0
1.50	200	2230.6	1,505.7	1,505.7	1,505.7	1,505.7	1,505.7	1,505.7	1,505.7	1,505.7
2.00	200	1,142.1	770.9	770.9	770.9	770.9	770.9	770.9	770.9	770.9
2.50	200	660.9	446.1	446.1	446.1	446.1	446.1	446.1	446.1	446.1
3.00	200	416.2	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
4.00	200	195.8	146.9	132.2	132.2	132.2	132.2	132.2	132.2	132.2
5.00	200	107.3	80.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
6.00	200	126.2	94.7	85.2	85.2	85.2	85.2	85.2	85.2	85.2
8.00	200	97.9	117.5	73.5	66.1	66.1	66.1	66.1	66.1	66.1
10.00	200	83.0	149.4	62.2	56.0	56.0	56.0	56.0	56.0	56.0
12.00	200	73.8	155.0	55.4	55.4	49.8	49.8	49.8	49.8	49.8
14.00	150	30.8	97.2	46.3	27.8	22.0	20.8	20.8	20.8	20.8
16.00	150	31.6	113.8	52.1	28.4	28.4	21.3	21.3	21.3	21.3
18.00	150	32.2	115.9	53.1	31.4	29.0	22.9	21.7	21.7	21.7
20.00	150	32.7	147.1	68.6	42.9	29.4	23.3	22.1	22.1	22.1
24.00	150	33.4	190.5	85.2	55.1	32.6	30.1	23.8	22.6	22.6
30.00	100	10.4	109.1	40.5	24.9	20.3	10.9	7.8	7.8	7.0
36.00	100	10.6	111.4	47.7	31.8	22.3	12.7	11.1	8.0	8.0
42.00	50	1.3	27.9	9.2	5.2	4.8	2.8	2.4	2.4	1.2
48.00	50	1.4	28.5	12.2	6.1	5.3	3.1	2.6	2.4	2.4
54.00	50	1.4	29.0	12.4	7.4	5.4	3.7	2.9	2.5	2.5
60.00	50	1.4	29.3	17.6	9.6	6.3	5.0	3.1	2.7	2.5
66.00	50	1.4	29.6	17.8	9.7	6.3	5.1	3.2	3.0	2.5
72.00	50	1.4	29.9	17.9	12.8	7.7	5.5	3.8	3.0	2.8

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.

Series Specifications 20HV.E6 (20HV)

(also includes Series 20HV-C and 20HV(FDA))

**Table 20HV.E6M.8 (Metric)
 (Series 20HV)
 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	14	1230.4	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
19	14	630.0	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2
25	14	364.6	246.1	246.1	246.1	246.1	246.1	246.1	246.1	246.1
38	14	153.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
51	14	78.7	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
64	14	45.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
76	14	28.7	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
102	14	13.5	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
127	14	7.4	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
152	14	8.7	6.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9
203	14	6.8	6.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
254	14	5.7	6.0	4.3	3.9	3.9	3.9	3.9	3.9	3.9
305	14	5.1	6.1	3.8	3.4	3.4	3.4	3.4	3.4	3.4
356	10	2.1	4.5	1.9	1.5	1.4	1.4	1.4	1.4	1.4
406	10	2.2	5.6	2.1	2.0	1.6	1.5	1.5	1.5	1.5
457	10	2.2	5.7	2.9	2.0	1.6	1.5	1.5	1.5	1.5
508	10	2.3	7.1	3.4	2.0	2.0	1.6	1.5	1.5	1.5
610	10	2.3	8.3	3.8	2.2	2.1	1.6	1.6	1.6	1.6
762	7	0.7	4.9	2.1	1.4	0.9	0.8	0.8	0.5	0.5
914	7	0.7	5.0	2.2	1.5	1.3	0.8	0.8	0.8	0.5
1067	3	0.1	1.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2
1219	3	0.1	1.2	0.5	0.4	0.3	0.2	0.2	0.2	0.2
1372	3	0.1	2.0	0.7	0.4	0.3	0.2	0.2	0.2	0.2
1524	3	0.1	2.0	0.7	0.4	0.3	0.3	0.2	0.2	0.2
1676	3	0.1	2.0	0.9	0.5	0.4	0.4	0.3	0.2	0.2
1829	3	0.1	2.1	0.9	0.5	0.4	0.4	0.3	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.