

Rev B - Jul-11-2017

Series Specifications 20HV-D.E6 (20HV-D)

**Table 20HV-D.E6.6C
 (Series 20HV-D)
 Support Spacing (ft)**

(Limited by Bending Stress, Deflection of 0.50 in. over 3 spans, and Max. Spacing of 30.0 ft)

(See notes for information on what value of bending stress to use)

Size in.	Rating psi	500 psi	1000 psi	1500 psi	500 psi	1000 psi	1500 psi	500 psi	1000 psi	1500 psi
		SG = 0.85	SG = 0.85	SG = 0.85	SG = 1.0	SG = 1.0	SG = 1.0	SG = 1.15	SG = 1.15	SG = 1.15
0.50	100	7.0	8.6	8.6	7.0	8.6	8.6	6.9	8.6	8.6
0.75	100	7.9	9.7	9.7	7.7	9.6	9.6	7.6	9.5	9.5
1.00	100	8.5	10.5	10.5	8.3	10.4	10.4	8.2	10.3	10.3
1.50	100	9.5	11.9	11.9	9.2	11.8	11.8	9.0	11.6	11.6
2.00	100	9.4	12.4	12.4	9.0	12.2	12.2	8.7	11.9	11.9
2.50	100	9.8	13.3	13.3	9.4	13.0	13.0	9.0	12.7	12.8
3.00	100	10.2	14.1	14.1	9.7	13.7	13.8	9.3	13.1	13.5
4.00	100	10.6	15.0	15.4	10.1	14.3	15.0	9.6	13.6	14.6
5.00	100	11.0	15.4	15.4	10.4	14.6	15.0	9.8	13.9	14.6
6.00	100	11.2	15.9	17.4	10.6	14.9	16.8	10.0	14.1	16.4
8.00	100	11.5	16.3	18.8	10.8	15.3	18.2	10.2	14.4	17.7
10.00	100	11.8	16.6	20.1	11.0	15.5	19.0	10.3	14.6	17.9
12.00	100	12.2	17.3	21.1	11.4	16.1	19.7	10.7	15.1	18.6
14.00	100	13.2	18.7	22.9	12.3	17.4	21.3	11.6	16.4	20.0
16.00	100	14.1	19.9	24.4	13.1	18.6	22.7	12.3	17.5	21.4
18.00	100	14.9	21.1	25.9	13.9	19.7	24.1	13.1	18.5	22.7
20.00	100	15.7	22.3	27.3	14.7	20.7	25.4	13.8	19.5	23.9
24.00	100	17.2	24.4	29.9	16.1	22.7	27.8	15.1	21.3	26.1
30.00	100	19.5	27.5	30.0	18.1	25.6	30.0	17.0	24.1	29.5
36.00	100	21.3	30.0	30.0	19.8	28.0	30.0	18.6	26.3	30.0
42.00	50	16.7	23.7	29.0	15.5	21.9	26.9	14.5	20.5	25.2
48.00	50	17.7	25.1	30.0	16.4	23.3	28.5	15.4	21.8	26.7
54.00	50	18.9	26.7	30.0	17.5	24.8	30.0	16.4	23.2	28.4
60.00	50	19.8	28.0	30.0	18.4	26.0	30.0	17.2	24.3	29.8
66.00	50	20.9	29.5	30.0	19.3	27.3	30.0	18.1	25.6	30.0
72.00	50	21.7	30.0	30.0	20.1	28.4	30.0	18.8	26.6	30.0

Notes: Normally, we recommend 1000psi (6.9MPa) for an allowable bending stress due to support spacing, however, this value can range from 500psi (3.5MPa) to 1500psi (13.4MPa), depending upon the other axial & bending stresses in the system. At design temperatures of 200F (93c) or more, 500psi (3.5MPa) may be needed. At very low pressures and temperatures, 1500psi (13.4MPa) may be satisfactory.

For seawater, multiply the support spacings for SG=1.0 by 0.986 (i.e., the support spacings for seawater are approximately 98.6% of the values for SG=1.0 (water)).

Rev B - Jul-11-2017

Series Specifications 20HV-D.E6 (20HV-D)

**Table 20HV-D.E6M.6C (Metric)
 (Series 20HV-D)
 Support Spacing (m)**

(Limited by Bending Stress, Deflection of 12.5 mm over 3 spans, and Max. Spacing of 9.0 m)

(See notes for information on what value of bending stress to use)

Size mm	Rating bar	3.4 MPa	6.8 MPa	10.3 MPa	3.4 MPa	6.8 MPa	10.3 MPa	3.4 MPa	6.8 MPa	10.3 MPa
		SG = 0.85	SG = 0.85	SG = 0.85	SG = 1.0	SG = 1.0	SG = 1.0	SG = 1.15	SG = 1.15	SG = 1.15
15	7	2.1	2.6	2.6	2.1	2.6	2.6	2.1	2.6	2.6
20	7	2.4	2.9	2.9	2.3	2.9	2.9	2.3	2.9	2.9
25	7	2.6	3.2	3.2	2.5	3.2	3.2	2.5	3.1	3.1
40	7	2.9	3.6	3.6	2.8	3.6	3.6	2.7	3.5	3.5
50	7	2.8	3.8	3.8	2.7	3.7	3.7	2.6	3.6	3.6
65	7	3.0	4.1	4.1	2.8	4.0	4.0	2.7	3.9	3.9
80	7	3.1	4.3	4.3	2.9	4.1	4.2	2.8	4.0	4.1
100	7	3.2	4.6	4.7	3.1	4.3	4.6	2.9	4.1	4.5
125	7	3.3	4.7	4.7	3.1	4.4	4.6	3.0	4.2	4.5
150	7	3.4	4.8	5.3	3.2	4.5	5.1	3.0	4.3	5.0
200	7	3.5	4.9	5.7	3.3	4.6	5.6	3.1	4.4	5.4
250	7	3.6	5.0	6.1	3.3	4.7	5.8	3.1	4.4	5.5
300	7	3.7	5.2	6.4	3.4	4.9	6.0	3.2	4.6	5.6
350	7	4.0	5.6	7.0	3.7	5.3	6.5	3.5	4.9	6.1
400	7	4.3	6.0	7.4	4.0	5.6	6.9	3.7	5.3	6.5
450	7	4.5	6.4	7.9	4.2	6.0	7.3	4.0	5.6	6.9
500	7	4.8	6.7	8.3	4.4	6.3	7.7	4.2	5.9	7.3
600	7	5.2	7.4	9.0	4.9	6.9	8.5	4.6	6.5	7.9
750	7	5.9	8.3	9.0	5.5	7.8	9.0	5.1	7.3	9.0
900	7	6.4	9.0	9.0	6.0	8.5	9.0	5.6	8.0	9.0
1050	3	5.1	7.2	8.8	4.7	6.6	8.2	4.4	6.2	7.7
1200	3	5.4	7.6	9.0	5.0	7.0	8.7	4.7	6.6	8.1
1350	3	5.7	8.1	9.0	5.3	7.5	9.0	5.0	7.0	8.6
1500	3	6.0	8.5	9.0	5.6	7.9	9.0	5.2	7.4	9.0
1650	3	6.3	8.9	9.0	5.9	8.3	9.0	5.5	7.7	9.0
1800	3	6.6	9.0	9.0	6.1	8.6	9.0	5.7	8.0	9.0

Notes: Normally, we recommend 1000psi (6.9MPa) for an allowable bending stress due to support spacing, however, this value can range from 500psi (3.5MPa) to 1500psi (13.4MPa), depending upon the other axial & bending stresses in the system. At design temperatures of 200F (93c) or more, 500psi (3.5MPa) may be needed. At very low pressures and temperatures, 1500psi (13.4MPa) may be satisfactory.
 For seawater, multiply the support spacings for SG=1.0 by 0.986 (i.e., the support spacings for seawater are approximately 98.6% of the values for SG=1.0 (water)).