

Rev B - February 4, 2010

Series Specifications 20JF.E6 (20JF)

(also includes Series 20JF-C)

**Table 20JF.E6.6C  
 (Series 20JF)  
 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 SG = 0.85			1000 psi SG = 1.0			1500 psi SG = 1.15		
		500 psi SG = 0.85	1000 psi SG = 0.85	1500 psi SG = 0.85	500 psi SG = 1.0	1000 psi SG = 1.0	1500 psi SG = 1.0	500 psi SG = 1.15	1000 psi SG = 1.15	1500 psi SG = 1.15
0.50	200	5.5	7.8	8.7	5.5	7.7	8.6	5.4	7.7	8.5
0.75	200	6.4	9.0	9.7	6.3	8.9	9.6	6.3	8.9	9.4
1.00	200	7.1	10.1	10.7	7.0	10.0	10.4	7.0	9.9	10.2
1.50	200	8.4	11.8	12.3	8.2	11.6	11.9	8.1	11.5	11.5
2.00	200	9.3	13.2	13.8	9.2	12.9	13.1	9.0	12.6	12.6
2.50	200	10.1	14.3	15.0	9.9	14.0	14.1	9.7	13.5	13.5
3.00	200	10.8	15.3	16.2	10.5	14.8	15.0	10.2	14.3	14.3
4.00	200	11.8	16.7	18.1	11.4	16.1	16.6	11.0	15.6	15.6
5.00	200	12.6	17.8	18.1	12.1	16.6	16.6	11.6	15.6	15.6
6.00	200	13.2	18.6	21.3	12.6	17.8	18.9	12.1	17.1	17.6
8.00	200	14.0	19.9	23.8	13.3	18.9	20.7	12.7	18.0	19.1
10.00	200	15.6	22.1	26.7	14.8	21.0	23.0	14.1	20.0	21.1
12.00	200	17.1	24.2	29.3	16.2	22.9	25.1	15.4	21.8	23.0
14.00	200	16.6	23.4	28.7	15.6	22.1	25.5	14.8	20.9	23.3
16.00	200	17.9	25.3	30.0	16.8	23.8	27.4	16.0	22.6	24.9
18.00	200	19.1	27.1	30.0	18.0	25.5	29.1	17.1	24.1	26.5
20.00	200	20.3	28.7	30.0	19.1	27.0	30.0	18.1	25.6	28.0
24.00	200	22.5	30.0	30.0	21.1	29.9	30.0	20.0	28.3	30.0
30.00	200	21.2	30.0	30.0	19.8	28.0	30.0	18.7	26.4	30.0
36.00	200	23.4	30.0	30.0	21.9	30.0	30.0	20.6	29.2	30.0
42.00	200	18.3	25.9	30.0	17.0	24.1	29.5	16.0	22.6	27.7
48.00	200	19.7	27.9	30.0	18.3	25.9	30.0	17.2	24.3	29.8
54.00	200	21.0	29.7	30.0	19.5	27.6	30.0	18.3	25.9	30.0
60.00	200	22.2	30.0	30.0	20.6	29.2	30.0	19.4	27.4	30.0
66.00	200	23.4	30.0	30.0	21.7	30.0	30.0	20.4	28.8	30.0
72.00	200	24.5	30.0	30.0	22.7	30.0	30.0	21.3	30.0	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)).

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 Series Specifications 20JF.E6 (20JF)

(also includes Series 20JF-C)

**Table 20JF.E6M.6C (Metric)**  
**(Series 20JF)**  
**Support Spacing (m)**

(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 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
13	14	1.7	2.4	2.6	1.7	2.3	2.6	1.6	2.3	2.6
19	14	1.9	2.7	3.0	1.9	2.7	2.9	1.9	2.7	2.9
25	14	2.2	3.0	3.3	2.1	3.0	3.2	2.1	3.0	3.1
38	14	2.5	3.6	3.8	2.5	3.5	3.6	2.5	3.5	3.5
51	14	2.8	4.0	4.2	2.8	3.9	4.0	2.7	3.8	3.8
64	14	3.1	4.3	4.6	3.0	4.2	4.3	2.9	4.1	4.1
76	14	3.3	4.6	4.9	3.2	4.5	4.6	3.1	4.4	4.4
102	14	3.6	5.1	5.5	3.5	4.9	5.0	3.3	4.7	4.7
127	14	3.8	5.4	5.5	3.7	5.0	5.0	3.5	4.7	4.7
152	14	4.0	5.6	6.5	3.8	5.4	5.8	3.7	5.2	5.4
203	14	4.3	6.0	7.3	4.0	5.7	6.3	3.9	5.5	5.8
254	14	4.7	6.7	8.1	4.5	6.4	7.0	4.3	6.1	6.4
305	14	5.2	7.3	8.9	4.9	6.9	7.6	4.7	6.6	7.0
356	14	5.0	7.1	8.7	4.7	6.7	7.8	4.5	6.3	7.1
406	14	5.4	7.7	9.0	5.1	7.2	8.3	4.8	6.8	7.6
457	14	5.8	8.2	9.0	5.5	7.7	8.9	5.2	7.3	8.1
508	14	6.1	8.7	9.0	5.8	8.2	9.0	5.5	7.7	8.5
610	14	6.8	9.0	9.0	6.4	9.0	9.0	6.1	8.6	9.0
762	14	6.4	9.0	9.0	6.0	8.5	9.0	5.7	8.0	9.0
914	14	7.1	9.0	9.0	6.6	9.0	9.0	6.2	8.8	9.0
1067	14	5.5	7.8	9.0	5.2	7.3	9.0	4.8	6.8	8.4
1219	14	6.0	8.4	9.0	5.5	7.8	9.0	5.2	7.4	9.0
1372	14	6.4	9.0	9.0	5.9	8.4	9.0	5.5	7.8	9.0
1524	14	6.7	9.0	9.0	6.3	8.8	9.0	5.9	8.3	9.0
1676	14	7.1	9.0	9.0	6.6	9.0	9.0	6.2	8.7	9.0
1829	14	7.4	9.0	9.0	6.9	9.0	9.0	6.5	9.0	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.  
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