

Rev B - May-25-2012

Series Specifications 20FR-E.E6 (20FR-E)

(also includes Series 20FR-EC)

Table 20FR-E.E6.1
 (Series 20FR-E)
 General Information

Size in.	Rating psi	I.D. in.	O.D. in.	Radius in.	Total Wall in.	Mean Diameter in.	Mean Radius in.
0.50	200	0.50	1.0000	0.5000	0.2500	0.7700	0.3850
0.75	200	0.75	1.2500	0.6250	0.2500	1.0200	0.5100
1.00	200	1.00	1.5000	0.7500	0.2500	1.2700	0.6350
1.50	200	1.50	2.0000	1.0000	0.2500	1.7700	0.8850
2.00	200	2.00	2.5600	1.2800	0.2800	2.3000	1.1500
2.50	200	2.50	3.0000	1.5000	0.2500	2.7700	1.3850
3.00	200	3.00	3.5000	1.7500	0.2500	3.2700	1.6350
4.00	200	4.00	4.5000	2.2500	0.2500	4.2700	2.1350
5.00	200	5.00	5.5000	2.7500	0.2500	5.2700	2.6350
6.00	200	6.00	6.6250	3.3125	0.3125	6.3325	3.1663
8.00	200	8.00	8.7500	4.3750	0.3750	8.3950	4.1975
10.00	200	10.00	10.8750	5.4375	0.4375	10.4575	5.2288
12.00	200	12.00	13.0000	6.5000	0.5000	12.5200	6.2600
14.00	150	14.25	15.1250	7.5625	0.4375	14.7075	7.3538
16.00	150	16.25	17.2500	8.6250	0.5000	16.7700	8.3850
18.00	150	18.25	19.3750	9.6875	0.5625	18.8325	9.4163
20.00	150	20.25	21.5000	10.7500	0.6250	20.8950	10.4475
24.00	150	24.25	25.7500	12.8750	0.7500	25.0200	12.5100
30.00	100	30.25	31.5000	15.7500	0.6250	30.8950	15.4475
36.00	100	36.25	37.7500	18.8750	0.7500	37.0200	18.5100
42.00	50	42.25	43.1250	21.5625	0.4375	42.7075	21.3538
48.00	50	48.25	49.2500	24.6250	0.5000	48.7700	24.3850
54.00	50	54.25	55.3750	27.6875	0.5625	54.8325	27.4163
60.00	50	60.25	61.5000	30.7500	0.6250	60.8950	30.4475
66.00	50	66.25	67.6250	33.8125	0.6875	66.9575	33.4788
72.00	50	72.25	73.7500	36.8750	0.7500	73.0200	36.5100

Notes:

1. 0.50, 0.75, 1.00, 1.50, 22.00, 54.00, 66.00, and 72.00in. piping are non-standard and are provided for information only.
2. Refer to Engineering Specifications EG.E10 Table T11-1A through 1E for allowable pressure ratings.

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Series Specifications 20FR-E.E6 (20FR-E)

(also includes Series 20FR-EC)

**Table 20FR-E.E6.2
 (Series 20FR-E)
 Areas, Inertias, Weights**

Note: the pipe weight in this table will differ slightly from the Fittings Guide and Quick-Specs

Size in.	Rating psi	Internal Area sq in.	Total Area sq in.	Reinf Area sq in.	Total Inertia in. 4	Reinf Inertia in. 4	Pipe Weight lb/ft	Fluid Weight lb/ft	Total Weight lb/ft
0.50	200	0.20	0.59	0.56	0.05	0.04	0.53	0.09	0.62
0.75	200	0.44	0.79	0.74	0.10	0.10	0.71	0.19	0.90
1.00	200	0.79	0.98	0.92	0.20	0.19	0.88	0.34	1.22
1.50	200	1.77	1.37	1.28	0.54	0.51	1.24	0.77	2.00
2.00	200	3.14	2.01	1.88	1.32	1.26	1.77	1.36	3.13
2.50	200	4.91	2.16	2.00	2.06	1.93	1.94	2.13	4.07
3.00	200	7.07	2.55	2.36	3.39	3.17	2.30	3.06	5.36
4.00	200	12.57	3.34	3.09	7.56	7.05	3.00	5.44	8.45
5.00	200	19.63	4.12	3.81	14.24	13.24	3.71	8.51	12.22
6.00	200	28.27	6.20	5.82	30.94	29.23	5.35	12.25	17.60
8.00	200	50.27	9.87	9.36	86.68	82.63	8.29	21.78	30.06
10.00	200	78.54	14.35	13.72	195.70	187.80	11.80	34.02	45.83
12.00	200	113.10	19.63	18.88	384.11	370.47	15.90	48.99	64.90
14.00	200	159.48	20.19	19.29	544.84	522.01	16.61	69.09	85.70
16.00	200	207.39	26.31	25.29	923.55	889.73	21.31	89.84	111.15
18.00	200	261.59	33.24	32.10	1472.01	1424.11	26.60	113.32	139.91
20.00	200	322.06	40.99	39.71	2234.64	2169.23	32.46	139.52	171.98
24.00	200	461.86	58.90	57.38	4606.08	4493.80	45.95	200.08	246.02
30.00	200	718.69	60.62	58.72	7226.68	7008.84	48.01	311.34	359.35
36.00	200	1032.06	87.18	84.90	14924.67	14549.93	68.00	447.09	515.09
42.00	200	1401.98	58.67	56.02	13365.52	12772.34	48.28	607.34	655.62
48.00	200	1828.46	76.58	73.54	22750.94	21867.62	62.03	792.09	854.11
54.00	200	2311.48	96.86	93.45	36380.36	35125.00	77.49	1001.33	1078.82
60.00	200	2851.04	119.53	115.74	55373.58	53654.11	94.67	1235.07	1329.74
66.00	200	3447.16	144.57	140.41	80981.70	78695.88	113.56	1493.31	1606.87
72.00	200	4099.83	172.00	167.46	114587.06	111622.47	134.16	1776.05	1910.21

Notes:

1. 0.50, 0.75, 1.00, 1.50, 22.00, 54.00, 66.00, and 72.00in. piping are non-standard and are provided for information only.
2. Refer to Engineering Specifications EG.E10 Table T11-1A through 1E for allowable pressure ratings.
3. Pipe weight is an estimate. Refer to the E14 specifications for published pipe weights.

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Series Specifications 20FR-E.E6 (20FR-E)

(also includes Series 20FR-EC)

Table 20FR-E.E6M.1 (Metric)
 (Series 20FR-E)
 General Information

Size mm	Rating bar	I.D. mm	O.D. mm	Radius mm	Total Wall mm	Mean Diameter mm	Mean Radius mm
15	14	12.70	25.40	12.70	6.35	19.56	9.7790
20	14	19.05	31.75	15.88	6.35	25.91	12.9540
25	14	25.40	38.10	19.05	6.35	32.26	16.1290
40	14	38.10	50.80	25.40	6.35	44.96	22.4790
50	14	50.80	65.02	32.51	7.11	58.42	29.2100
65	14	63.50	76.20	38.10	6.35	70.36	35.1790
80	14	76.20	88.90	44.45	6.35	83.06	41.5290
100	14	101.60	114.30	57.15	6.35	108.46	54.2290
125	14	127.00	139.70	69.85	6.35	133.86	66.9290
150	14	152.40	168.28	84.14	7.94	160.85	80.4228
200	14	203.20	222.25	111.13	9.53	213.23	106.6165
250	14	254.00	276.23	138.11	11.11	265.62	132.8103
300	14	304.80	330.20	165.10	12.70	318.01	159.0040
350	10	361.95	384.18	192.09	11.11	373.57	186.7853
400	10	412.75	438.15	219.08	12.70	425.96	212.9790
450	10	463.55	492.13	246.06	14.29	478.35	239.1728
500	10	514.35	546.10	273.05	15.88	530.73	265.3665
600	10	615.95	654.05	327.03	19.05	635.51	317.7540
750	7	768.35	800.10	400.05	15.88	784.73	392.3665
900	7	920.75	958.85	479.43	19.05	940.31	470.1540
1050	3	1073.15	1095.38	547.69	11.11	1084.77	542.3853
1200	3	1225.55	1250.95	625.48	12.70	1238.76	619.3790
1350	3	1377.95	1406.53	703.26	14.29	1392.75	696.3728
1500	3	1530.35	1562.10	781.05	15.88	1546.73	773.3665
1650	3	1682.75	1717.68	858.84	17.46	1700.72	850.3603
1800	3	1835.15	1873.25	936.63	19.05	1854.71	927.3540

Notes:

1. 13, 19, 25, 38, 559, 1372, 1676, and 1829mm piping are non-standard and are provided for information only.
2. Refer to Engineering Specifications EG.E10 Table T11-1A through 1E for allowable pressure ratings.

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Series Specifications 20FR-E.E6 (20FR-E)

(also includes Series 20FR-EC)

**Table 20FR-E.E6M.2 (Metric)
 (Series 20FR-E)
 Areas, Inertias, Weights**

Note: the pipe weight in this table will differ slightly from the Fittings Guide and Quick-Specs

Size mm	Rating bar	Internal Area sq cm	Total Area sq cm	Reinf Area sq cm	Total Inertia cm 4	Reinf Inertia cm 4	Pipe Weight kg/m	Fluid Weight kg/m	Total Weight kg/m
15	14	1.3	3.8	3.6	1.9	1.9	0.79	0.13	0.92
20	14	2.9	5.1	4.8	4.3	4.2	1.05	0.29	1.34
25	14	5.1	6.3	5.9	8.3	8.0	1.31	0.51	1.82
40	14	11.4	8.9	8.3	22.3	21.2	1.84	1.14	2.98
50	14	20.3	12.9	12.1	55.1	52.4	2.63	2.03	4.66
65	14	31.7	13.9	12.9	85.7	80.5	2.89	3.17	6.06
80	14	45.6	16.5	15.2	141.1	132.1	3.42	4.56	7.98
100	14	81.1	21.5	19.9	314.8	293.5	4.47	8.11	12.58
125	14	126.7	26.6	24.6	592.6	551.3	5.52	12.67	18.19
150	14	182.4	40.0	37.5	1288.0	1216.7	7.97	18.24	26.21
200	14	324.3	63.7	60.4	3607.9	3439.2	12.33	32.43	44.76
250	14	506.7	92.6	88.5	8145.6	7816.8	17.57	50.67	68.24
300	14	729.7	126.7	121.8	15987.8	15420.1	23.67	72.97	96.63
350	14	1028.9	130.2	124.5	22677.8	21727.9	24.72	102.89	127.61
400	14	1338.0	169.7	163.2	38441.1	37033.2	31.72	133.80	165.52
450	14	1687.7	214.5	207.1	61269.6	59276.0	39.58	168.77	208.34
500	14	2077.8	264.4	256.2	93012.9	90290.3	48.31	207.78	256.09
600	14	2979.8	380.0	370.2	191719.7	187046.3	68.38	297.98	366.35
750	14	4636.7	391.1	378.8	300797.1	291730.1	71.45	463.67	535.12
900	14	6658.5	562.4	547.7	621211.7	605613.7	101.20	665.85	767.04
1050	14	9045.0	378.5	361.4	556314.8	531624.7	71.85	904.50	976.35
1200	14	11796.5	494.0	474.5	946965.8	910198.9	92.31	1179.65	1271.95
1350	14	14912.7	624.9	602.9	1514264.9	1462012.7	115.32	1491.27	1606.59
1500	14	18393.8	771.1	746.7	2304822.4	2233252.9	140.88	1839.38	1980.26
1650	14	22239.7	932.7	905.9	3370712.6	3275569.9	168.99	2223.97	2392.96
1800	14	26450.4	1109.7	1080.4	4769473.4	4646078.1	199.66	2645.04	2844.70

Notes:

1. 13, 19, 25, 38, 559, 1372, 1676, and 1829mm piping are non-standard and are provided for information only.
2. Refer to Engineering Specifications EG.E10 Table T11-1A through 1E for allowable pressure ratings.
3. Pipe weight is an estimate. Refer to the E14 specifications for published pipe weights.