

Rev B - May-25-2012  
 Series Specifications 20FR16.E6 (20FR16)

(also includes Series 20FR16-C)

Table 20FR16.E6.1  
 (Series 20FR16)  
 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	232	0.50	1.00	0.50	0.25	0.77	0.39
0.75	232	0.75	1.25	0.63	0.25	1.02	0.51
1.00	232	1.00	1.50	0.75	0.25	1.27	0.64
1.50	232	1.50	2.00	1.00	0.25	1.77	0.89
2.00	232	2.00	2.50	1.25	0.25	2.27	1.14
2.50	232	2.50	3.00	1.50	0.25	2.77	1.39
3.00	232	3.00	3.50	1.75	0.25	3.27	1.64
4.00	232	4.00	4.50	2.25	0.25	4.27	2.14
5.00	232	5.00	5.50	2.75	0.25	5.27	2.64
6.00	232	6.00	6.50	3.25	0.25	6.27	3.14
8.00	232	8.00	8.64	4.32	0.32	8.34	4.17
10.00	232	10.00	10.78	5.39	0.39	10.41	5.21
12.00	232	12.00	12.92	6.46	0.46	12.48	6.24
14.00	232	14.25	15.33	7.67	0.54	14.81	7.41
16.00	232	16.25	17.49	8.75	0.62	16.89	8.45
18.00	232	18.25	19.63	9.82	0.69	18.96	9.48
20.00	232	20.25	21.77	10.89	0.76	21.03	10.52
22.00	232	<del>22.25</del>	<del>23.93</del>	<del>11.97</del>	0.84	<del>23.11</del>	<del>11.56</del>
24.00	232	24.25	26.07	13.04	0.91	25.18	12.59
30.00	150	30.25	31.71	15.86	0.73	31.00	15.50
36.00	150	36.25	37.99	19.00	0.87	37.14	18.57
42.00	100	42.25	43.59	21.80	0.67	42.94	21.47
48.00	100	48.25	49.79	24.90	0.77	49.04	24.52
54.00	50	<del>54.25</del>	<del>55.13</del>	<del>27.57</del>	0.44	<del>54.71</del>	<del>27.36</del>
60.00	50	60.25	61.21	30.61	0.48	60.75	30.38
66.00	50	<del>66.25</del>	<del>67.31</del>	<del>33.66</del>	0.53	<del>66.80</del>	<del>33.40</del>
72.00	50	<del>72.25</del>	<del>73.41</del>	<del>36.71</del>	0.58	<del>72.85</del>	<del>36.43</del>

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.

Rev B - May-25-2012

Series Specifications 20FR16.E6 (20FR16)

(also includes Series 20FR16-C)

**Table 20FR16.E6.2  
 (Series 20FR16)  
 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	232	0.20	0.59	0.56	0.05	0.04	0.53	0.09	0.62
0.75	232	0.44	0.79	0.74	0.10	0.10	0.71	0.19	0.90
1.00	232	0.79	0.98	0.92	0.20	0.19	0.88	0.34	1.22
1.50	232	1.77	1.37	1.28	0.54	0.51	1.24	0.77	2.00
2.00	232	3.14	1.77	1.64	1.13	1.07	1.59	1.36	2.95
2.50	232	4.91	2.16	2.00	2.06	1.93	1.94	2.13	4.07
3.00	232	7.07	2.55	2.36	3.39	3.17	2.30	3.06	5.36
4.00	232	12.57	3.34	3.09	7.56	7.05	3.00	5.44	8.45
5.00	232	19.63	4.12	3.81	14.24	13.24	3.71	8.51	12.22
6.00	232	28.27	4.91	4.53	24.01	22.29	4.42	12.25	16.67
8.00	232	50.27	8.36	7.86	72.48	68.43	7.20	21.78	28.97
10.00	232	78.54	12.73	12.10	172.02	164.12	10.63	34.02	44.66
12.00	232	113.10	18.01	17.25	349.92	336.28	14.73	48.99	63.72
14.00	232	159.48	25.09	24.19	686.97	664.15	20.16	69.09	89.25
16.00	232	207.39	32.86	31.84	1170.53	1136.71	26.04	89.84	115.89
18.00	232	261.59	41.06	39.91	1843.42	1795.53	32.24	113.32	145.56
20.00	232	322.06	50.16	48.89	2771.53	2706.12	39.09	139.52	178.61
22.00	232	388.82	60.93	59.53	4066.17	3979.42	47.14	168.44	215.57
24.00	232	461.86	71.93	70.40	5699.03	5586.75	55.35	200.08	255.42
30.00	150	718.69	71.05	69.15	8528.41	8310.57	55.53	311.34	366.87
36.00	150	1032.06	101.46	99.18	17484.03	17109.29	78.30	447.09	525.39
42.00	100	1401.98	90.34	87.68	20807.49	20214.31	71.11	607.34	678.45
48.00	100	1828.46	118.58	115.55	35626.87	34743.54	92.31	792.09	884.40
54.00	50	2311.48	75.60	72.19	28266.01	27010.64	62.16	1001.33	1063.49
60.00	50	2851.04	91.58	87.79	42221.93	40502.47	74.52	1235.07	1309.59
66.00	50	3447.16	111.19	107.03	61987.25	59701.43	89.50	1493.31	1582.81
72.00	50	4099.83	132.71	128.16	87992.64	85028.05	105.84	1776.05	1881.89

Notes:

- 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.
- Pipe weight is an estimate. Refer to the E14 specifications for published pipe weights.

Rev B - May-25-2012

Series Specifications 20FR16.E6 (20FR16)

(also includes Series 20FR16-C)

Table 20FR16.E6M.1 (Metric)  
 (Series 20FR16)  
 General Information

Size mm	Rating bar	I.D. mm	O.D. mm	Radius mm	Total Wall mm	Mean Diameter mm	Mean Radius mm
15	16	13	25	13	6	20	10
20	16	19	32	16	6	26	13
25	16	25	38	19	6	32	16
40	16	38	51	25	6	45	22
50	16	51	64	32	6	58	29
65	16	64	76	38	6	70	35
80	16	76	89	44	6	83	42
100	16	102	114	57	6	108	54
125	16	127	140	70	6	134	67
150	16	152	165	83	6	159	80
200	16	203	219	110	8	212	106
250	16	254	274	137	10	264	132
300	16	305	328	164	12	317	158
350	16	362	389	195	14	376	188
400	16	413	444	222	16	429	215
450	16	464	499	249	18	482	241
500	16	514	553	276	19	534	267
550	16	565	608	304	21	587	293
600	16	616	662	331	23	640	320
750	10	768	805	403	19	787	394
900	10	921	965	482	22	943	472
1050	7	1073	1107	554	17	1091	545
1200	7	1226	1265	632	20	1246	623
1350	3	1378	1400	700	11	1390	695
1500	3	1530	1555	777	12	1543	772
1650	3	1683	1710	855	13	1697	848
1800	3	1835	1865	932	15	1850	925

Notes:

1. 13, 19, 25, 38, 559, 1372, 1676, and 1829mm piping are non-standard and are provided for information only.

Rev B - May-25-2012

Series Specifications 20FR16.E6 (20FR16)

(also includes Series 20FR16-C)

**Table 20FR16.E6M.2 (Metric)  
 (Series 20FR16)  
 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	16	1.3	3.8	3.6	1.9	1.9	0.79	0.13	0.92
20	16	2.9	5.1	4.8	4.3	4.2	1.05	0.29	1.34
25	16	5.1	6.3	5.9	8.3	8.0	1.31	0.51	1.82
40	16	11.4	8.9	8.3	22.3	21.2	1.84	1.14	2.98
50	16	20.3	11.4	10.6	47.1	44.4	2.37	2.03	4.39
65	16	31.7	13.9	12.9	85.7	80.5	2.89	3.17	6.06
80	16	45.6	16.5	15.2	141.1	132.1	3.42	4.56	7.98
100	16	81.1	21.5	19.9	314.8	293.5	4.47	8.11	12.58
125	16	126.7	26.6	24.6	592.6	551.3	5.52	12.67	18.19
150	16	182.4	31.7	29.2	999.2	927.9	6.57	18.24	24.82
200	16	324.3	54.0	50.7	3016.9	2848.2	10.71	32.43	43.14
250	16	506.7	82.1	78.1	7160.1	6831.2	15.83	50.67	66.50
300	16	729.7	116.2	111.3	14564.6	13996.9	21.91	72.97	94.88
350	16	1028.9	161.9	156.1	28593.8	27643.8	30.00	102.89	132.89
400	16	1338.0	212.0	205.4	48721.2	47313.2	38.76	133.80	172.56
450	16	1687.7	264.9	257.5	76729.0	74735.4	47.98	168.77	216.74
500	16	2077.8	323.6	315.4	115359.8	112637.2	58.17	207.78	265.95
550	16	2508.5	393.1	384.1	169246.7	165636.1	70.15	250.85	321.00
600	16	2979.8	464.1	454.2	237211.5	232538.1	82.36	297.98	380.34
750	10	4636.7	458.4	446.1	354979.2	345912.2	82.64	463.67	546.31
900	10	6658.5	654.6	639.8	727740.3	712142.3	116.52	665.85	782.36
1050	7	9045.0	582.8	565.7	866073.0	841383.0	105.83	904.50	1010.33
1200	7	11796.5	765.0	745.5	1482902.3	1446135.4	137.37	1179.65	1317.02
1350	3	14912.7	487.7	465.7	1176520.0	1124267.8	92.51	1491.27	1583.78
1500	3	18393.8	590.8	566.4	1757409.5	1685839.9	110.90	1839.38	1950.28
1650	3	22239.7	717.4	690.5	2580104.1	2484961.3	133.19	2223.97	2357.16
1800	3	26450.4	856.2	826.9	3662530.2	3539134.8	157.51	2645.04	2802.56

Notes:

1. 13, 19, 25, 38, 559, 1372, 1676, and 1829mm piping are non-standard and are provided for information only.
2. Pipe weight is an estimate. Refer to the E14 specifications for published pipe weights.