

Component Weights 110FW.E14
Rev 1.0C, Apr-18-2005

Table 110FW.E14.1A

Component Weights (lbs or lbs per foot)

Size in.	Rating psi	Pipe (lb/ft)	Fig.10 Flange	Fig.16 Blind Flange	Fig.20 90 Elbow	Fig.30 45 Elbow	Fig.40 Tee Fitting
1.00	150	1.1	1.4	0.9	0.2		1.9
1.50	150	1.4	1.7	1.0	0.4		2.9
2.00	150	1.6	2.3	1.5	0.6	0.3	1.7
2.50	150	2.0	3.0	2.0	0.7	0.4	2.1
3.00	150	2.3	3.5	2.3	1.3	0.7	2.9
4.00	150	3.1	4.8	3.3	3.0	1.5	5.8
6.00	150	5.3	8.9	5.3	7.5	3.7	11.9
8.00	150	8.1	14.1	8.6	15.9	8.0	22.8
10.00	150	12.7	23.2	12.7	29.1	14.5	38.9
12.00	150	16.7	33.6	19.7	44.8	22.4	57.1
14.00	150	21.3	45.3	24.0	69.2	34.6	137.1
16.00	150	26.4	58.7	32.3	95.7	47.9	194.4
18.00	150	34.3	73.3	38.9	134.7	67.3	258.2
20.00	150	40.7	89.8	49.1	192.2	96.1	348.3
22.00	150	47.6	104.4	56.8	229.9	114.9	415.2
24.00	150	54.9	127.1	72.2	312.8	156.4	511.0
30.00	100	60.3	177.4	102.0	406.7	203.3	598.7
36.00	100	76.7	282.0	186.1	694.5	347.3	900.3
42.00	50	62.3	255.0	177.1	605.0	302.5	726.4
48.00	50	77.2	361.4	245.6	837.8	418.9	1049.0
54.00	50	100.4	528.2	377.6	1179.9	589.9	1506.1
60.00	50	119.1	809.1	570.9	1605.3	802.6	1895.9
66.00	50	130.9	1009.6	747.9	1846.7	923.4	2161.4
72.00	50	151.8	1229.2	925.6	2193.0	1096.5	2533.0



Component Weights 110FW.E14
 Rev 1.0C, Apr-18-2005

Table 110FW.E14.1B

Component Weights (lbs or lbs per foot)

Size in.	Rating psi	Fig.46 Flgd Saddle	Fig.48 PE Saddle	Fig.60 Reducer	Fig.80 Lateral	Fig.96 Hemicap	Shop Butt Weld
1.00	150	2.1	1.0		2.9		0.2
1.50	150	2.6	1.4	0.1	4.1		0.3
2.00	150	3.5	1.7	0.2	4.4	0.1	0.4
2.50	150	4.5	2.1	0.1	5.4	0.2	0.5
3.00	150	5.3	2.4	0.3	7.1	0.2	0.6
4.00	150	9.7	4.9	0.6	12.0	0.5	1.3
6.00	150	18.6	10.3	2.0	24.4	1.2	2.7
8.00	150	29.7	16.3	3.2	44.6	2.5	5.1
10.00	150	52.7	30.8	4.6	81.6	4.6	8.5
12.00	150	65.9	43.4	5.9	118.8	7.1	9.5
14.00	150	90.4	62.5	7.9	169.1	11.0	14.0
16.00	150	127.0	88.9	9.5	234.0	15.2	18.7
18.00	150	158.6	112.3	11.9	323.9	21.4	25.5
20.00	150	226.2	165.2	15.3	436.4	30.6	38.2
22.00	150	272.6	201.2	18.3	518.2	36.6	49.0
24.00	150	325.7	236.2	20.7	648.3	49.8	59.3
30.00	100	337.8	221.9	64.7	769.5	64.7	50.1
36.00	100	574.8	363.2	92.1	1200.9	110.5	87.7
42.00	50	385.1	197.0	68.8	991.1	96.3	40.9
48.00	50	558.7	296.3	83.3	1402.8	133.3	54.5
54.00	50	775.3	376.5	104.3	1999.8	187.8	74.5
60.00	50	1124.5	526.4	127.7	2610.4	255.5	98.8
66.00	50	1442.0	656.6	147.0	2946.5	293.9	122.4
72.00	50	1759.2	787.5	174.5	3443.7	349.0	155.8



Component Weights 110FW.E14
 Rev 1.0D, Dec-12-2009

Table 110FW.E14M.1A

Component Weights (kg or kg per meter)

Size mm	Rating bar	Pipe (kg/m)	Fig.10 Flange	Fig.16 Blind Flange	Fig.20 90 Elbow	Fig.30 45 Elbow	Fig.40 Tee Fitting
25	10	1.6	0.7	0.4	0.1		0.9
38	10	2.1	0.8	0.4	0.2		1.3
51	10	2.4	1.1	0.7	0.3	0.1	0.8
64	10	2.9	1.4	0.9	0.3	0.2	1.0
76	10	3.5	1.6	1.1	0.6	0.3	1.3
102	10	4.5	2.2	1.5	1.4	0.7	2.6
152	10	7.9	4.0	2.4	3.4	1.7	5.4
203	10	12.1	6.4	3.9	7.2	3.6	10.4
254	10	18.9	10.5	5.8	13.2	6.6	17.6
305	10	24.9	15.3	9.0	20.3	10.2	25.9
356	10	31.7	20.6	10.9	31.4	15.7	62.3
406	10	39.3	26.7	14.7	43.5	21.7	88.3
457	10	51.1	33.3	17.7	61.1	30.6	117.2
508	10	60.6	40.8	22.3	87.2	43.6	158.1
559	10	70.8	47.4	25.8	104.4	52.2	188.5
610	10	81.8	57.7	32.8	142.0	71.0	232.0
762	7	89.8	80.5	46.3	184.6	92.3	271.8
914	7	114.3	128.0	84.5	315.3	157.7	408.8
1067	3	92.8	115.8	80.4	274.7	137.3	329.8
1219	3	115.0	164.1	111.5	380.4	190.2	476.2
1372	3	149.6	239.8	171.4	535.7	267.8	683.8
1524	3	177.4	367.3	259.2	728.8	364.4	860.7
1676	3	194.9	458.4	339.6	838.4	419.2	981.3
1829	3	226.1	558.0	420.2	995.6	497.8	1150.0



Component Weights 110FW.E14
 Rev 1.0D, Dec-12-2009

Table 110FW.E14M.1B

Component Weights (kg or kg per meter)

Size mm	Rating bar	Fig.46 Flgd Saddle	Fig.48 PE Saddle	Fig.60 Reducer	Fig.80 Lateral	Fig.96 Hemicap	Shop Butt Weld
25	10	1.0	0.5		1.3		0.1
38	10	1.2	0.6	0.0	1.9		0.1
51	10	1.6	0.8	0.1	2.0	0.0	0.2
64	10	2.0	0.9	0.1	2.4	0.1	0.2
76	10	2.4	1.1	0.2	3.2	0.1	0.3
102	10	4.4	2.2	0.3	5.5	0.2	0.6
152	10	8.4	4.7	0.9	11.1	0.5	1.2
203	10	13.5	7.4	1.4	20.2	1.2	2.3
254	10	23.9	14.0	2.1	37.0	2.1	3.9
305	10	29.9	19.7	2.7	53.9	3.2	4.3
356	10	41.0	28.4	3.6	76.8	5.0	6.4
406	10	57.7	40.3	4.3	106.2	6.9	8.5
457	10	72.0	51.0	5.4	147.1	9.7	11.6
508	10	102.7	75.0	6.9	198.1	13.9	17.4
559	10	123.8	91.3	8.3	235.3	16.6	22.2
610	10	147.9	107.3	9.4	294.3	22.6	26.9
762	7	153.4	100.8	29.4	349.3	29.4	22.7
914	7	260.9	164.9	41.8	545.2	50.2	39.8
1067	3	174.8	89.4	31.2	450.0	43.7	18.6
1219	3	253.7	134.5	37.8	636.9	60.5	24.8
1372	3	352.0	170.9	47.4	907.9	85.3	33.8
1524	3	510.5	239.0	58.0	1185.1	116.0	44.9
1676	3	654.7	298.1	66.7	1337.7	133.4	55.6
1829	3	798.7	357.5	79.2	1563.4	158.5	70.7



Component Weights 110FW.E14
 Rev 1.0B, Oct-15-2003

Table 110FW.E14.1D

Component Weights (lbs or lbs per foot)

(Pressure ratings are 150psig: 1" - 24", 100psig: 30" - 36", 50psig: 42" and larger)

Header Size in.	Fig.88 Reducing Lateral (includes header pipe)											
	Size	(lb)	Size	(lb)	Size	(lb)	Size	(lb)	Size	(lb)	Size	(lb)
1.00												
1.50	x 1.00						x 1.00					
2.00	x 1.50	3.8	x 1.00	3.6			x 1.50	x 1.00				
2.50	x 2.00	4.6	x 1.50	4.4	x 1.00	4.2	x 2.00	x 1.50			x 1.00	
3.00	x 2.50	6.3	x 2.00	6.0	x 1.50	5.8	x 2.50	x 2.00			x 1.50	
4.00	x 3.00	9.5	x 2.50	8.8	x 2.00	8.5	x 3.00	x 2.50			x 2.00	
6.00	x 4.00	17.7	x 3.00	16.5	x 2.50	15.8	x 4.00	x 3.00			x 2.50	
8.00	x 6.00	34.1	x 4.00	30.5	x 3.00	29.3	x 6.00	x 4.00			x 3.00	
10.00	x 8.00	64.2	x 6.00	57.8	x 4.00	54.3	x 8.00	x 6.00			x 4.00	
12.00	x 10.00	97.9	x 8.00	86.0	x 6.00	79.6	x 10.00	x 8.00			x 6.00	
14.00	x 12.00	142.8	x 10.00	131.9	x 8.00	120.0	x 12.00	x 10.00			x 8.00	
16.00	x 14.00	194.0	x 12.00	177.0	x 10.00	166.1	x 14.00	x 12.00			x 10.00	
18.00	x 16.00		x 14.00	259.1	x 12.00	242.1	x 16.00	x 14.00			x 12.00	
20.00	x 18.00		x 16.00		x 14.00	310.9	x 18.00	x 16.00			x 14.00	
22.00	x 20.00		x 18.00		x 16.00		x 20.00	x 18.00			x 16.00	
24.00	x 22.00		x 20.00		x 18.00		x 22.00	x 20.00			x 18.00	
30.00	x 24.00		x 22.00		x 20.00		x 24.00	x 22.00			x 20.00	
36.00	x 30.00		x 24.00		x 22.00		x 30.00	x 24.00			x 22.00	
42.00	x 36.00		x 30.00		x 24.00		x 36.00	x 30.00			x 24.00	
48.00	x 42.00		x 36.00		x 30.00		x 42.00	x 36.00			x 30.00	
54.00	x 48.00		x 42.00		x 36.00		x 48.00	x 42.00			x 36.00	
60.00	x 54.00		x 48.00		x 42.00		x 54.00	x 48.00			x 42.00	
66.00	x 60.00		x 54.00		x 48.00		x 60.00	x 54.00			x 48.00	
72.00	x 66.00		x 60.00		x 54.00		x 66.00	x 60.00			x 54.00	



Component Weights 110FW.E14
 Rev 1.0C, Dec-12-2009

Table 110FW.E14M.1D

Component Weights (kg or kg per meter)

(Pressure ratings are 10.3bar: 1" - 24", 6.9bar: 30" - 36", 3.4bar: 42" and larger)

Header Size mm	Fig.88 Reducing Lateral (includes header pipe)									
	Size	(kg)	Size	(kg)	Size	(kg)	Size	(kg)	Size	(kg)
25										
38	x 25						x 25			
51	x 38	1.7	x 25	1.6			x 38		x 25	
64	x 51	2.1	x 38	2.0	x 25	1.9	x 51		x 38	x 25
76	x 64	2.9	x 51	2.7	x 38	2.6	x 64		x 51	x 38
102	x 76	4.3	x 64	4.0	x 51	3.8	x 76		x 64	x 51
152	x 102	8.1	x 76	7.5	x 64	7.2	x 102		x 76	x 64
203	x 152	15.5	x 102	13.9	x 76	13.3	x 152		x 102	x 76
254	x 203	29.2	x 152	26.2	x 102	24.6	x 203		x 152	x 102
305	x 254	44.4	x 203	39.1	x 152	36.2	x 254		x 203	x 152
356	x 305	64.8	x 254	59.9	x 203	54.5	x 305		x 254	x 203
406	x 356	88.1	x 305	80.4	x 254	75.4	x 356		x 305	x 254
457	x 406		x 356	117.7	x 305	109.9	x 406		x 356	x 305
508	x 457		x 406		x 356	141.1	x 457		x 406	x 356
559	x 508		x 457		x 406		x 508		x 457	x 406
610	x 559		x 508		x 457		x 559		x 508	x 457
762	x 610		x 559		x 508		x 610		x 559	x 508
914	x 762		x 610		x 559		x 762		x 610	x 559
1067	x 914		x 762		x 610		x 914		x 762	x 610
1219	x 1067		x 914		x 762		x 1067		x 914	x 762
1372	x 1219		x 1067		x 914		x 1219		x 1067	x 914
1524	x 1372		x 1219		x 1067		x 1372		x 1219	x 1067
1676	x 1524		x 1372		x 1219		x 1524		x 1372	x 1219
1829	x 1676		x 1524		x 1372		x 1676		x 1524	x 1372



Component Weights 110FW.E14
 Rev 1.0B, Oct-15-2003

Table 110FW.E14.1E

Component Weights (lbs or lbs per foot)

(Pressure ratings are 150psig: 1" - 24", 100psig: 30" - 36", 50psig: 42" and larger)

Header Size in.	Fig.46 Flanged Olet (includes header pipe) (branch size is shown horizontally)																						
	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	30.00	36.00	42.00	48.00	54.00	60.00	
1.00																							
1.50	3.3																						
2.00	3.4	4.1																					
2.50	3.7	4.4	5.5																				
3.00	4.0	4.8	5.9	7.0																			
4.00	4.6	5.4	6.6	7.8	8.8																		
6.00	6.5	7.5	8.9	10.3	11.5	16.7																	
8.00	8.8	10.1	11.6	13.3	14.7	20.5	32.1																
10.00	12.7	14.3	16.2	18.3	20.1	26.6	39.7	55.1															
12.00	16.0	18.0	20.3	22.6	24.8	32.0	46.5	63.2	91.8														
14.00	19.9	22.2	24.9	27.6	30.1	38.1	54.1	72.3	102.4	122.7													
16.00	24.1	26.8	29.9	33.1	36.1	44.9	62.6	82.5	114.3	136.3	169.6												
18.00	30.7	34.1	37.9	41.7	45.3	55.4	75.7	98.3	132.8	157.4	193.3	241.4											
20.00	36.0	39.9	44.2	48.6	52.7	63.9	86.4	111.1	147.6	174.4	212.4	262.6	307.8										
22.00	41.7	46.2	51.1	56.0	60.8	73.1	97.8	124.8	163.6	192.7	233.0	285.5	333.0	416.4									
24.00	47.9	53.0	58.5	64.0	69.4	82.9	110.1	139.6	180.9	212.4	255.2	310.2	360.1	446.0	510.7								
30.00	52.3	57.9	63.8	69.8	75.6	90.0	119.0	150.3	193.3	226.6	271.2	327.9	379.6	467.3	533.8	607.0							
36.00	66.0	73.0	80.3	87.6	94.8	112.0	146.5	183.2	231.7	270.5	320.6	382.8	440.0	533.1	605.1	683.8	772.6						
42.00	54.0	59.7	65.8	72.0	77.9	92.7	122.4	154.3	198.0	232.0	277.2	334.6	387.0	475.3	542.5	616.4	690.7	990.0					
48.00	66.4	73.4	80.7	88.1	95.3	112.6	147.2	184.1	232.8	271.8	322.0	384.3	441.7	535.0	607.1	686.0	775.3	1089.4	977.0				
54.00	85.8	94.7	104.0	113.3	122.4	143.5	185.9	230.5	287.0	333.7	391.6	461.7	526.8	627.8	707.7	794.3	906.8	1244.2	1154.9	1429.0			
60.00	101.3	111.8	122.6	133.5	144.2	168.4	217.0	267.9	330.6	383.5	447.6	524.0	595.3	702.5	788.7	881.5	1012.6	1368.7	1298.1	1590.8	1926.5		
66.00	111.1	122.6	134.4	146.3	157.9	184.1	236.6	291.4	358.0	414.8	482.9	563.2	638.4	749.6	839.6	936.4	1079.3	1447.1	1388.3	1692.8	2040.2	2520.2	
72.00	128.6	141.8	155.3	168.9	182.4	212.0	271.5	333.3	406.8	470.6	545.7	632.9	715.1	833.3	930.3	1034.0	1197.9	1586.6	1548.8	1874.2	2242.5	2743.5	

Component Weights 110FW.E14
 Rev 1.0C, Dec-12-2009

Table 110FW.E14M.1E

Component Weights (kg or kg per meter)
 (Pressure ratings are 10.3bar: 1" - 24", 6.9bar: 30" - 36", 3.4bar: 42" and larger)

Header Size mm	Fig.46 Flanged Olet (includes header pipe) (branch size is shown horizontally)																						
	25	38	51	64	76	102	152	203	254	305	356	406	457	508	559	610	762	914	1067	1219	1372	1524	
25	1.5																						
38	1.6	1.9																					
51	1.7	2.0	2.5																				
64	1.8	2.2	2.7	3.2																			
76	2.1	2.5	3.0	3.6	4.0																		
102	3.0	3.4	4.0	4.7	5.2	7.6																	
152	4.0	4.6	5.3	6.0	6.7	9.3	14.6																
203	5.8	6.5	7.4	8.3	9.1	12.1	18.0	25.0															
254	7.3	8.2	9.2	10.3	11.3	14.5	21.1	28.7	41.7														
305	9.0	10.1	11.3	12.5	13.7	17.3	24.6	32.8	46.5	55.7													
356	10.9	12.2	13.6	15.0	16.4	20.4	28.4	37.4	51.9	61.9	77.0												
406	13.9	15.5	17.2	18.9	20.6	25.2	34.4	44.6	60.3	71.5	87.8	109.6											
457	16.3	18.1	20.1	22.1	23.9	29.0	39.2	50.4	67.0	79.2	96.4	119.2	139.7										
508	18.9	21.0	23.2	25.4	27.6	33.2	44.4	56.7	74.3	87.5	105.8	129.6	151.2	189.0									
559	21.7	24.1	26.6	29.1	31.5	37.6	50.0	63.4	82.1	96.4	115.9	140.8	163.5	202.5	231.9								
610	23.8	26.3	29.0	31.7	34.3	40.9	54.0	68.2	87.8	102.9	123.1	148.9	172.4	212.2	242.4	275.6							
762	30.0	33.1	36.4	39.8	43.0	50.8	66.5	83.2	105.2	122.8	145.5	173.8	199.8	242.0	274.7	310.5	350.8						
914	24.5	27.1	29.9	32.7	35.4	42.1	55.6	70.0	89.9	105.3	125.9	151.9	175.7	215.8	246.3	279.8	313.6	449.5					
1067	30.2	33.3	36.7	40.0	43.3	51.1	66.8	83.6	105.7	123.4	146.2	174.5	200.5	242.9	275.6	311.4	352.0	494.6	443.5				
1219	38.9	43.0	47.2	51.4	55.6	65.2	84.4	104.7	130.3	151.5	177.8	209.6	239.2	285.0	321.3	360.6	411.7	564.9	524.3	648.8			
1372	46.0	50.8	55.7	60.6	65.5	76.5	98.5	121.6	150.1	174.1	203.2	237.9	270.3	319.0	358.1	400.2	459.7	621.4	589.3	722.2	874.6		
1524	50.5	55.7	61.0	66.4	71.7	83.6	107.4	132.3	162.5	188.3	219.2	255.7	289.8	340.3	381.2	425.1	490.0	657.0	630.3	768.5	926.2	1144.2	
1676	58.4	64.4	70.5	76.7	82.8	96.3	123.3	151.3	184.7	213.7	247.8	287.4	324.7	378.3	422.4	469.5	543.8	720.3	703.1	850.9	1018.1	1245.5	
1829																							

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Table 110FW.E14.1F

Component Weights (lbs or lbs per foot)

(Pressure ratings are 150psig: 1" - 24", 100psig: 30" - 36", 50psig: 42" and larger)

Header Size in.	Fig.48 Plain End Olet (includes header pipe) (branch size is shown horizontally)																						
	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	30.00	36.00	42.00	48.00	54.00	60.00	
1.00	2.1																						
1.50	2.3	2.9																					
2.00	2.6	3.2	3.7																				
2.50																							
3.00	2.9	3.5	4.0	4.6																			
4.00	3.5	4.2	4.7	5.4	6.0																		
6.00	5.4	6.3	7.0	7.8	8.6	12.0																	
8.00	7.7	8.8	9.8	10.8	11.9	15.7	23.8																
10.00	11.6	13.0	14.4	15.8	17.2	21.8	31.4	41.6															
12.00	14.9	16.7	18.4	20.2	22.0	27.2	38.2	49.7	69.9														
14.00	18.8	20.9	23.0	25.2	27.3	33.3	45.8	58.9	80.5	100.3													
16.00	23.0	25.6	28.1	30.7	33.2	40.1	54.3	69.0	92.4	113.8	141.7												
18.00	29.6	32.8	36.0	39.2	42.5	50.7	67.5	84.9	110.9	134.9	165.5	203.2											
20.00	34.9	38.7	42.4	46.1	49.9	59.1	78.1	97.6	125.7	151.9	184.6	224.4	261.5										
22.00	40.6	45.0	49.2	53.6	57.9	68.3	89.5	111.4	141.8	170.3	205.2	247.4	286.7	355.4									
24.00	46.8	51.7	56.6	61.6	66.5	78.2	101.9	126.1	159.0	190.0	227.4	272.0	313.8	385.0	439.2								
30.00	51.2	56.6	62.0	67.4	72.8	85.3	110.8	136.8	171.4	204.2	243.4	289.8	333.4	406.3	462.4	517.6							
36.00	64.9	71.7	78.4	85.2	92.0	107.2	138.2	169.7	209.8	248.1	292.7	344.6	393.7	472.2	533.7	594.4	656.8						
42.00	52.9	58.5	64.0	69.5	75.1	88.0	114.1	140.8	176.1	209.5	249.4	296.5	340.7	414.4	471.1	526.9	574.9	778.4					
48.00	65.3	72.2	78.9	85.7	92.5	107.8	139.0	170.7	210.9	249.3	294.1	346.2	395.4	474.0	535.7	596.5	659.4	877.8	788.8				
54.00	84.7	93.4	102.1	110.8	119.6	138.8	177.6	217.1	265.1	311.2	363.8	423.6	480.5	566.9	636.3	704.8	790.9	1032.6	966.8	1166.5			
60.00	100.2	110.6	120.8	131.1	141.4	163.7	208.8	254.4	308.7	361.0	419.8	485.8	549.0	641.6	717.2	792.0	896.8	1157.1	1110.0	1328.4	1527.7		
66.00	110.0	121.3	132.5	143.8	155.1	179.4	228.4	278.0	336.1	392.4	455.1	525.0	592.1	688.6	768.2	846.9	963.4	1235.5	1200.2	1430.3	1641.4	1922.1	
72.00	127.5	140.5	153.5	166.5	179.5	207.3	263.3	319.8	384.9	448.2	517.9	594.8	668.9	772.3	858.9	944.6	1082.0	1375.1	1360.6	1611.7	1843.7	2145.4	



Component Weights 110FW.E14
 Rev 1.0C, Dec-12-2009

Table 110FW.E14M.1F

Component Weights (kg or kg per meter)
 (Pressure ratings are 10.3bar: 1" - 24", 6.9bar: 30" - 36", 3.4bar: 42" and larger)

Header Size mm	Fig.48 Plain End Olet (includes header pipe) (branch size is shown horizontally)																						
	25	38	51	64	76	102	152	203	254	305	356	406	457	508	559	610	762	914	1067	1219	1372	1524	
25	1.0																						
38	1.1	1.3																					
51	1.2	1.5	1.7																				
64	1.3	1.6	1.8	2.1																			
76	1.6	1.9	2.2	2.4	2.7																		
102	2.5	2.8	3.2	3.6	3.9	5.4																	
152	3.5	4.0	4.4	4.9	5.4	7.1	10.8																
203	5.2	5.9	6.5	7.2	7.8	9.9	14.3	18.9															
254	6.8	7.6	8.4	9.2	10.0	12.4	17.3	22.6	31.7														
305	8.5	9.5	10.4	11.4	12.4	15.1	20.8	26.7	36.6	45.5													
356	10.4	11.6	12.8	13.9	15.1	18.2	24.6	31.3	41.9	51.7	64.3												
406	13.4	14.9	16.3	17.8	19.3	23.0	30.6	38.5	50.3	61.3	75.1	92.3											
457	15.8	17.6	19.2	20.9	22.7	26.8	35.4	44.3	57.1	69.0	83.8	101.9	118.7										
508	18.4	20.4	22.4	24.3	26.3	31.0	40.7	50.6	64.4	77.3	93.2	112.3	130.2	161.4									
559	21.2	23.5	25.7	28.0	30.2	35.5	46.2	57.3	72.2	86.2	103.2	123.5	142.5	174.8	199.4								
610	23.3	25.7	28.1	30.6	33.0	38.7	50.3	62.1	77.8	92.7	110.5	131.6	151.3	184.5	209.9	235.0							
762	29.5	32.6	35.6	38.7	41.8	48.7	62.7	77.1	95.3	112.6	132.9	156.5	178.7	214.4	242.3	269.8	298.2						
914	24.0	26.6	29.0	31.6	34.1	39.9	51.8	63.9	80.0	95.1	113.2	134.6	154.7	188.1	213.9	239.2	261.0	353.4					
1067	29.7	32.8	35.8	38.9	42.0	49.0	63.1	77.5	95.8	113.2	133.5	157.2	179.5	215.2	243.2	270.8	299.4	398.5	358.1				
1219	38.4	42.4	46.4	50.3	54.3	63.0	80.6	98.6	120.3	141.3	165.1	192.3	218.2	257.4	288.9	320.0	359.1	468.8	438.9	529.6			
1372	45.5	50.2	54.8	59.5	64.2	74.3	94.8	115.5	140.1	163.9	190.6	220.6	249.2	291.3	325.6	359.6	407.1	525.3	503.9	603.1	693.6		
1524	50.0	55.1	60.2	65.3	70.4	81.4	103.7	126.2	152.6	178.1	206.6	238.4	268.8	312.6	348.8	384.5	437.4	560.9	544.9	649.4	745.2	872.6	
1676	57.9	63.8	69.7	75.6	81.5	94.1	119.5	145.2	174.8	203.5	235.1	270.0	303.7	350.6	389.9	428.8	491.2	624.3	617.7	731.7	837.0	974.0	
1829																							

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Component Weights 110FW.E14
Rev 1.0B, Mar-31-2005

Table 110FW.E14.1G
Component Weights (lbs)

Size in.	Rating psi	O-Ring Gasket	Full-Face Gasket
1.00	232	0.01	0.10
1.50	232	0.01	0.10
2.00	232	0.02	0.10
2.50	232	0.02	0.10
3.00	232	0.02	0.20
4.00	232	0.04	0.30
6.00	232	0.05	0.40
8.00	232	0.06	0.50
10.00	232	0.07	0.70
12.00	232	0.08	0.90
14.00	232	0.09	1.00
16.00	232	0.11	1.20
18.00	232	0.12	1.30
20.00	232	0.14	1.50
22.00	232		
24.00	232	0.16	1.90
30.00	150		2.50
36.00	150		3.50
42.00	100		4.50
48.00	100		5.20
54.00	50		
60.00	50		
66.00	50		
72.00	50		

Component Weights 110FW.E14
Rev 1.0B, Mar-31-2005

Table 110FW.E14M.1G

Component Weights (kg)

Size mm	Rating bar	O-Ring Gasket	Full-Face Gasket
25	16	0.01	0.05
38	16	0.01	0.05
51	16	0.01	0.05
64	16	0.01	0.05
76	16	0.01	0.09
102	16	0.02	0.14
152	16	0.02	0.18
203	16	0.03	0.23
254	16	0.03	0.32
305	16	0.04	0.41
356	16	0.04	0.45
406	16	0.05	0.54
457	16	0.05	0.59
508	16	0.06	0.68
559	16		
610	16	0.07	0.86
762	10		1.14
914	10		1.59
1067	7		2.04
1219	7		2.36
1372	3		
1524	3		
1676	3		
1829	3		

Component Weights 110FW.E14
Rev 1.0B, Mar-31-2005

Table 110FW.E14.1H

Component Weights (lbs)

(Pressure ratings are 150psig: 1" - 24", 100psig: 30" - 36", 50psig: 42" and larger)

Header Size in.	Fig.43 Reducing Tees			Fig.43 Reducing Tees		
	Size	(lb)	Size	(lb)	Size	(lb)
1.00						
1.50						
2.00						
2.50						
3.00						
4.00						
6.00						
8.00			NOT USED BY SERIES 110FW			
10.00						
12.00						
14.00						
16.00			NOT USED BY SERIES 110FW			
18.00						
20.00						
22.00						
24.00			NOT USED BY SERIES 110FW			
30.00						
36.00						
42.00						
48.00			NOT USED BY SERIES 110FW			
54.00						
60.00						
66.00						
72.00						

Component Weights 110FW.E14
Rev 1.0B, Mar-31-2005

Table 110FW.E14M.1H

Component Weights (kg)

(Pressure ratings are 10.3bar: 1" - 24", 6.9bar: 30" - 36", 3.4bar: 42" and larger)

Header Size mm	Fig.43 Reducing Tees			Fig.43 Reducing Tees						
	Size	(kg)	Size	(kg)	Size	(kg)	Size	(kg)	Size	(kg)
25										
38										
51										
64										
76										
102										
152										
203										
254										
305										
356										
406										
457										
508										
559										
610										
762										
914										
1067										
1219										
1372										
1524										
1676										
1829										
NOT USED BY SERIES 110FW										
NOT USED BY SERIES 110FW										
NOT USED BY SERIES 110FW										
NOT USED BY SERIES 110FW										

Component Weights 110FW.E14
Rev 1.0B, Mar-31-2005

Table 110FW.E14.11

Component Weights (lbs)

Size in.	Rating psi	Fig.10-O Orifice Flg	Fig.11 Van. "Stub"	Fig.17 Bleed Ring	Fig.18 1/4" Spc Ring	Fig.19FC Blind w/ FNPT	Fig.210,226 Wear Pad
1.00	150						0.5
1.50	150						0.7
2.00	150	4.8	1.6	2.3	0.4	3.2	0.8
2.50	150						
3.00	150	6.4	2.3	3.3	0.6	4.0	1.1
4.00	150	8.2	3.1	4.6	0.8	5.0	1.5
6.00	150	13.7	5.9	6.0	1.0	7.0	2.1
8.00	150	20.0	9.5	8.4	1.4	10.3	2.8
10.00	150	28.5	14.4	11.0	2.2	14.4	3.5
12.00	150	40.6	20.8	15.3	2.6	21.4	4.2
14.00	150	53.0	29.1			25.7	4.9
16.00	150	68.2	37.7			34.0	5.6
18.00	150	85.3	48.8			40.6	6.3
20.00	150	103.2	59.3			50.8	7.0
22.00	150	118.9	69.4			58.5	
24.00	150	145.3	83.9			73.9	8.3
30.00	100	201.5	115.4			103.7	10.4
36.00	100	325.4	182.8			187.8	12.5
42.00	50	299.4	151.4			178.8	14.5
48.00	50	415.6	218.0			247.3	16.6
54.00	50	598.0	316.2			379.3	
60.00	50	888.5	492.1			572.6	
66.00	50						
72.00	50						

Component Weights 110FW.E14
 Rev 1.0B, Mar-31-2005

Table 110FW.E14.1J

Component Weights (lbs)

Size in.	Rating psi	Fig.40PPF Tee w/ Flg	Fig.40X2 Tee w/ 2" Olet	Fig.70 Cross	Fig.47JF MNPT Olet	Fig.97 FNPT Olet
1.00	232			2.8	2.4	1.7
1.50	232			4.1	3.0	2.3
2.00	232			4.8		
2.50	232					
3.00	232		7.4	7.7		
4.00	232		10.3	14.4		
6.00	232		16.4	30.3		
8.00	232		27.3	52.8		
10.00	232		43.4	97.9		
12.00	232		61.6	145.9		
14.00	232		141.6	207.2		
16.00	232		198.9	296.8		
18.00	232		262.7	391.5		
20.00	232		352.8	332.1		
22.00	232					
24.00	232		515.5	490.7		
30.00	150		603.2	887.7		
36.00	150		904.8	1366.4		
42.00	100		730.9	1039.0		
48.00	100		1053.5	1507.2		
54.00	50					
60.00	50					
66.00	50					
72.00	50					

Component Weights 110FW.E14
 Rev 1.0C, Dec-12-2009

Table 110FW.E14M.11

Component Weights (kg or kg per meter)

Size mm	Rating bar	Fig.10-O Orifice Flg	Fig.11 Van. "Stub"	Fig.17 Bleed Ring	Fig.18 1/4" Spc Ring	Fig.19FC Blind w/ FNPT	Fig.210,226 Wear Pad
25	10						0.2
38	10						0.3
51	10	2.2	0.7	1.0	0.2	1.5	0.4
64	10						
76	10	2.9	1.0	1.5	0.3	1.8	0.5
102	10	3.7	1.4	2.1	0.3	2.3	0.7
152	10	6.2	2.7	2.7	0.5	3.2	1.0
203	10	9.1	4.3	3.8	0.6	4.7	1.3
254	10	13.0	6.5	5.0	1.0	6.5	1.6
305	10	18.4	9.4	7.0	1.2	9.7	1.9
356	10	24.1	13.2			11.7	2.2
406	10	30.9	17.1			15.4	2.5
457	10	38.7	22.1			18.5	2.9
508	10	46.8	26.9			23.1	3.2
559	10	54.0	31.5			26.6	
610	10	66.0	38.1			33.5	3.8
762	7	91.5	52.4			47.1	4.7
914	7	147.7	83.0			85.3	5.7
1067	3	135.9	68.7			81.2	6.6
1219	3	188.7	99.0			112.3	7.5
1372	3	271.5	143.6			172.2	
1524	3	403.4	223.4			260.0	
1676	3						
1829	3						

Component Weights 110FW.E14
 Rev 1.0C, Dec-12-2009

Table 110FW.E14M.1J

Component Weights (kg or kg per meter)

Size mm	Rating bar	Fig.40PPF Tee w/ Flg	Fig.40X2 Tee w/ 2" Olet	Fig.70 Cross	Fig.47JF MNPT Olet	Fig.97 FNPT Olet
25	16			1.3	1.1	0.8
38	16			1.9	1.4	1.0
51	16			2.2		
64	16					
76	16		3.4	3.5		
102	16		4.7	6.5		
152	16		7.4	13.8		
203	16		12.4	24.0		
254	16		19.7	44.4		
305	16		28.0	66.2		
356	16		64.3	94.1		
406	16		90.3	134.7		
457	16		119.3	177.7		
508	16		160.2	150.8		
559	16					
610	16		234.0	222.8		
762	10		273.9	403.0		
914	10		410.8	620.3		
1067	7		331.8	471.7		
1219	7		478.3	684.3		
1372	3					
1524	3					
1676	3					
1829	3					