

Component Weights 20HV.E14
Rev 1.0D, Sep-01-2005

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.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	200	1.0	1.4	0.9	0.2	0.1	2.4
1.50	200	1.3	1.6	1.0	0.4	0.2	3.4
2.00	200	1.5	2.4	1.6	0.7	0.3	2.0
2.50	200	1.9	3.0	2.0	0.9	0.4	2.4
3.00	200	2.2	3.5	2.3	1.5	0.8	3.4
4.00	200	2.9	5.0	3.5	2.6	1.3	5.0
6.00	200	5.9	10.0	6.0	6.6	3.3	10.5
8.00	200	8.9	15.5	9.6	15.9	8.0	22.8
10.00	200	12.4	24.9	14.6	29.1	14.5	38.9
12.00	200	16.4	35.3	21.7	51.2	25.6	65.2
14.00	150	17.1	41.1	24.0	64.8	32.4	79.6
16.00	150	21.6	53.9	32.3	90.0	45.0	107.4
18.00	150	28.9	68.6	39.7	127.5	63.8	228.4
20.00	150	34.7	83.8	49.2	165.7	82.9	284.8
22.00	150	41.0	97.8	56.8	200.9	100.4	359.5
24.00	150	47.8	120.0	72.2	274.9	137.5	445.8
30.00	100	51.5	166.4	102.0	368.4	184.2	525.0
36.00	100	70.9	277.0	188.4	611.3	305.7	820.2
42.00	50	50.3	240.0	177.1	494.5	247.3	587.1
48.00	50	63.5	340.8	245.6	741.0	370.5	840.8
54.00	50	84.9	505.0	377.6	1119.4	559.7	1305.4
60.00	50	101.9	780.4	576.5	1455.7	727.8	1649.1
66.00	50	120.4	988.8	748.0	1764.8	882.4	
72.00	50	140.4	1206.4	925.6	2013.6	1006.8	



Component Weights 20HV.E14
Rev 1.0D, Sep-01-2005

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.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	200	2.8	1.5		3.3		0.4
1.50	200	3.6	2.0	0.1	4.6		0.5
2.00	200	4.9	2.5	0.3	5.1	0.1	0.7
2.50	200	6.0	3.1	0.2	6.2	0.2	0.8
3.00	200	7.0	3.6	0.4	8.1	0.2	1.0
4.00	200	9.6	4.7	0.5	11.5	0.4	1.3
6.00	200	18.6	9.9	1.8	25.7	1.1	2.5
8.00	200	38.8	21.9	3.2	53.0	2.5	6.1
10.00	200	60.4	34.6	4.6	84.1	4.6	10.1
12.00	200	84.3	58.4	6.8	132.0	8.2	13.8
14.00	150	83.1	55.5	7.4	141.0	10.3	13.6
16.00	150	118.1	80.3	8.9	199.0	14.3	18.2
18.00	150	152.5	105.5	11.3	283.7	20.3	24.9
20.00	150	186.8	128.8	13.2	359.9	26.4	31.5
22.00	150	244.8	175.2	16.0	448.2	32.0	41.0
24.00	150	294.4	207.0	18.2	565.2	43.8	50.1
30.00	100	318.4	203.2	58.6	670.9	58.6	46.7
36.00	100	534.6	323.8	81.1	1097.9	97.3	74.2
42.00	50	346.0	159.9	56.2	800.6	78.7	31.3
48.00	50	479.5	222.1	73.7	1131.6	117.9	45.5
54.00	50	748.3	349.7	99.0	1723.0	178.2	72.9
60.00	50	1079.5	477.1	115.8	2260.6	231.7	92.2
66.00	50	1415.4	630.4	140.4	2737.2	280.9	120.1
72.00	50	1713.3	743.6	160.2	3200.1	320.5	146.6



Component Weights 20HV.E14
Rev 1.0E, Dec-12-2009

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.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	14	1.5	0.6	0.4	0.1	0.0	1.1
38	14	2.0	0.7	0.4	0.2	0.1	1.6
51	14	2.3	1.1	0.7	0.3	0.2	0.9
64	14	2.8	1.4	0.9	0.4	0.2	1.1
76	14	3.3	1.6	1.1	0.7	0.3	1.5
102	14	4.4	2.3	1.6	1.2	0.6	2.3
152	14	8.8	4.5	2.7	3.0	1.5	4.8
203	14	13.2	7.0	4.3	7.2	3.6	10.4
254	14	18.4	11.3	6.7	13.2	6.6	17.7
305	14	24.4	16.0	9.9	23.3	11.6	29.6
356	10	25.5	18.7	10.9	29.4	14.7	36.1
406	10	32.2	24.5	14.7	40.8	20.4	48.8
457	10	43.0	31.2	18.0	57.9	28.9	103.7
508	10	51.7	38.1	22.3	75.2	37.6	129.3
559	10	61.1	44.4	25.8	91.2	45.6	163.2
610	10	71.2	54.5	32.8	124.8	62.4	202.4
762	7	76.7	75.5	46.3	167.3	83.6	238.4
914	7	105.6	125.8	85.5	277.6	138.8	372.4
1067	3	74.9	108.9	80.4	224.5	112.3	266.5
1219	3	94.5	154.7	111.5	336.4	168.2	381.7
1372	3	126.5	229.3	171.4	508.2	254.1	592.7
1524	3	151.8	354.3	261.7	660.9	330.4	748.7
1676	3	179.3	448.9	339.6	801.2	400.6	
1829	3	209.1	547.7	420.2	914.2	457.1	



Component Weights 20HV.E14
Rev 1.0E, Dec-12-2009

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.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	14	1.3	0.7		1.5		0.2
38	14	1.6	0.9	0.0	2.1		0.2
51	14	2.2	1.1	0.1	2.3	0.0	0.3
64	14	2.7	1.4	0.1	2.8	0.1	0.4
76	14	3.2	1.6	0.2	3.7	0.1	0.4
102	14	4.3	2.1	0.2	5.2	0.2	0.6
152	14	8.4	4.5	0.8	11.7	0.5	1.2
203	14	17.6	10.0	1.4	24.1	1.2	2.8
254	14	27.4	15.7	2.1	38.2	2.1	4.6
305	14	38.3	26.5	3.1	59.9	3.7	6.3
356	10	37.7	25.2	3.3	64.0	4.7	6.2
406	10	53.6	36.5	4.1	90.4	6.5	8.2
457	10	69.2	47.9	5.1	128.8	9.2	11.3
508	10	84.8	58.5	6.0	163.4	12.0	14.3
559	10	111.1	79.5	7.3	203.5	14.5	18.6
610	10	133.7	94.0	8.3	256.6	19.9	22.7
762	7	144.6	92.3	26.6	304.6	26.6	21.2
914	7	242.7	147.0	36.8	498.5	44.2	33.7
1067	3	157.1	72.6	25.5	363.5	35.7	14.2
1219	3	217.7	100.8	33.5	513.8	53.5	20.7
1372	3	339.7	158.8	44.9	782.2	80.9	33.1
1524	3	490.1	216.6	52.6	1026.3	105.2	41.9
1676	3	642.6	286.2	63.8	1242.7	127.5	54.5
1829	3	777.8	337.6	72.7	1452.8	145.5	66.6



Component Weights 20HV.E14
Rev 1.0B, Oct-15-2003

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.E14.1D

Component Weights (lbs or lbs per foot)

(Pressure ratings are 200psig: 1" - 12", 150psig: 14" - 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	3.7	x 1.00	3.4					x 1.50		x 1.00	
2.50	x 2.00	4.4	x 1.50	4.3	x 1.00	4.0	x 2.00		x 1.50		x 1.00	
3.00	x 2.50	6.0	x 2.00	5.8	x 1.50	5.6	x 2.50		x 2.00		x 1.50	
4.00	x 3.00	9.0	x 2.50	8.4	x 2.00	8.1	x 3.00		x 2.50		x 2.00	
6.00	x 4.00	19.2	x 3.00	18.0	x 2.50	17.3	x 4.00		x 3.00		x 2.50	
8.00	x 6.00	37.5	x 4.00	33.0	x 3.00	31.8	x 6.00		x 4.00		x 3.00	
10.00	x 8.00	64.2	x 6.00	57.3	x 4.00	52.8	x 8.00		x 6.00		x 4.00	
12.00	x 10.00	95.6	x 8.00	85.7	x 6.00	78.7	x 10.00		x 8.00		x 6.00	
14.00	x 12.00	120.9	x 10.00	110.2	x 8.00	100.3	x 12.00		x 10.00		x 8.00	
16.00	x 14.00	157.9	x 12.00	150.6	x 10.00	139.9	x 14.00		x 12.00		x 10.00	
18.00	x 16.00		x 14.00	216.1	x 12.00	208.8	x 16.00		x 14.00		x 12.00	
20.00	x 18.00		x 16.00		x 14.00	262.5	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 20HV.E14
Rev 1.0C, Dec-12-2009

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.E14M.1D

Component Weights (kg or kg per meter)

(Pressure ratings are 13.8bar: 1" - 12", 10.3bar: 14" - 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	2.0	x 38	1.9	x 25	1.8	x 51		x 38	x 25
76	x 64	2.7	x 51	2.6	x 38	2.5	x 64		x 51	x 38
102	x 76	4.1	x 64	3.8	x 51	3.7	x 76		x 64	x 51
152	x 102	8.7	x 76	8.2	x 64	7.9	x 102		x 76	x 64
203	x 152	17.0	x 102	15.0	x 76	14.4	x 152		x 102	x 76
254	x 203	29.2	x 152	26.0	x 102	24.0	x 203		x 152	x 102
305	x 254	43.4	x 203	38.9	x 152	35.8	x 254		x 203	x 152
356	x 305	54.9	x 254	50.0	x 203	45.5	x 305		x 254	x 203
406	x 356	71.7	x 305	68.4	x 254	63.5	x 356		x 305	x 254
457	x 406		x 356	98.1	x 305	94.8	x 406		x 356	x 305
508	x 457		x 406		x 356	119.2	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 20HV.E14
 Rev 1.0B, Oct-15-2003

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.E14.1E

Component Weights (lbs or lbs per foot)

(Pressure ratings are 200psig: 1" - 12", 150psig: 14" - 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	3.9																						
1.50	4.1	5.0																					
2.00	4.4	5.3	6.8																				
2.50																							
3.00	4.7	5.7	7.1	8.4																			
4.00	5.3	6.3	7.8	9.2	10.4																		
6.00	7.8	9.0	10.8	12.4	13.9	17.5																	
8.00	10.2	11.8	13.7	15.6	17.4	21.4	33.4																
10.00	13.1	14.9	17.2	19.4	21.4	26.1	39.2	63.5															
12.00	16.5	18.6	21.2	23.7	26.1	31.4	45.9	71.5	98.6														
14.00	17.1	19.3	22.0	24.5	27.0	32.4	47.1	73.0	100.3	129.9													
16.00	20.8	23.4	26.5	29.4	32.2	38.4	54.6	82.0	110.8	141.8	147.9												
18.00	26.9	30.1	33.8	37.3	40.7	48.1	66.8	96.6	127.8	161.3	169.8	214.4											
20.00	31.7	35.4	39.6	43.6	47.5	55.8	76.4	108.2	141.4	176.8	187.2	233.8	279.7										
22.00	37.0	41.2	45.9	50.4	54.9	64.2	86.9	120.8	156.1	193.6	206.1	254.8	302.8	350.8									
24.00	42.7	47.4	52.7	57.8	62.8	73.3	98.3	134.4	171.9	211.7	226.5	277.4	327.7	378.0	451.9								
30.00	45.7	50.8	56.4	61.8	67.1	78.2	104.4	141.8	180.5	221.6	237.5	289.7	341.2	392.7	467.9	534.7							
36.00	61.9	68.6	75.8	82.8	89.7	104.1	136.8	180.6	225.9	273.4	295.8	354.5	412.5	470.4	552.0	625.3	720.2						
42.00	44.7	49.7	55.1	60.4	65.6	76.6	102.3	139.3	177.7	218.3	233.8	285.6	336.7	387.8	462.5	528.9	603.2	869.7					
48.00	55.7	61.8	68.3	74.8	81.1	94.2	124.4	165.7	208.5	253.5	273.5	329.6	385.1	440.6	519.7	590.6	678.0	957.7	832.5				
54.00	73.6	81.5	89.8	98.0	106.1	122.8	160.2	208.7	258.6	310.8	337.9	401.3	463.9	526.6	612.9	690.8	799.7	1100.9	997.3	1215.7			
60.00	87.8	97.0	106.8	116.4	125.9	145.5	188.5	242.6	298.2	356.0	388.8	457.8	526.1	594.5	686.4	770.0	895.9	1214.1	1127.4	1362.8	1733.4		
66.00	103.2	114.0	125.3	136.4	147.5	170.1	219.2	279.6	341.3	405.3	444.3	519.4	593.9	668.4	766.5	856.3	1000.6	1337.2	1269.0	1522.9	1912.0	2363.6	
72.00	119.8	132.3	145.2	158.1	170.8	196.7	252.5	319.5	387.9	458.6	504.2	586.0	667.2	748.3	853.0	949.5	1113.8	1470.5	1422.2	1696.1	2105.2	2576.8	

Component Weights 20HV.E14
 Rev 1.0C, Dec-12-2009

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.E14M.1E

Component Weights (kg or kg per meter)
 (Pressure ratings are 13.8bar: 1" - 12", 10.3bar: 14" - 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	1.8																						
38	1.9	2.3																					
51	2.0	2.4	3.1																				
64	2.1	2.6	3.2	3.8																			
76	2.4	2.9	3.5	4.2	4.7																		
102	3.5	4.1	4.9	5.6	6.3	7.9																	
152	4.6	5.3	6.2	7.1	7.9	9.7	15.2																
203	4.6	5.3	6.2	7.1	7.9	9.7	15.2																
254	6.0	6.8	7.8	8.8	9.7	11.8	17.8	28.8															
305	7.5	8.4	9.6	10.8	11.8	14.2	20.8	32.5	44.8														
356	7.8	8.8	10.0	11.1	12.2	14.7	21.4	33.1	45.5	59.0													
406	9.5	10.6	12.0	13.3	14.6	17.4	24.8	37.2	50.3	64.4	67.1												
457	12.2	13.7	15.3	16.9	18.5	21.8	30.3	43.9	58.0	73.2	77.1	97.4											
508	14.4	16.1	18.0	19.8	21.6	25.4	34.7	49.1	64.2	80.3	85.0	106.1	127.0										
559	16.8	18.7	20.8	22.9	24.9	29.2	39.5	54.8	70.9	87.9	93.6	115.7	137.5	159.3									
610	19.4	21.5	23.9	26.2	28.5	33.3	44.6	61.0	78.1	96.1	102.8	126.0	148.8	171.6	205.2								
762	20.8	23.1	25.6	28.0	30.5	35.5	47.4	64.4	82.0	100.6	107.8	131.5	154.9	178.3	212.4	242.7							
914	28.1	31.2	34.4	37.6	40.7	47.3	62.1	82.0	102.5	124.1	134.3	160.9	187.3	213.6	250.6	283.9	327.0						
1067	20.3	22.6	25.0	27.4	29.8	34.8	46.5	63.2	80.7	99.1	106.2	129.7	152.9	176.1	210.0	240.1	273.8	394.8					
1219	25.3	28.0	31.0	33.9	36.8	42.8	56.5	75.2	94.6	115.1	124.1	149.7	174.9	200.0	236.0	268.1	307.8	434.8	378.0				
1372	33.4	37.0	40.8	44.5	48.2	55.8	72.7	94.7	117.4	141.1	153.4	182.2	210.6	239.1	278.2	313.6	363.1	499.8	452.8	551.9			
1524	39.8	44.1	48.5	52.9	57.2	66.0	85.6	110.2	135.4	161.6	176.5	207.9	238.9	269.9	311.6	349.6	406.7	551.2	511.8	618.7	787.0		
1676	46.8	51.7	56.9	61.9	67.0	77.2	99.5	126.9	155.0	184.0	201.7	235.8	269.6	303.4	348.0	388.7	454.3	607.1	576.1	691.4	868.1	1073.1	
1829	54.4	60.1	65.9	71.8	77.5	89.3	114.7	145.1	176.1	208.2	228.9	266.0	302.9	339.7	387.3	431.1	505.7	667.6	645.7	770.0	955.8	1169.9	

Component Weights 20HV.E14
 Rev 1.0B, Oct-15-2003

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.E14.1F

Component Weights (lbs or lbs per foot)

(Pressure ratings are 200psig: 1" - 12", 150psig: 14" - 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	2.6																						
1.50	2.8	3.5																					
2.00	3.1	3.8	4.4																				
2.50	3.3	4.1	4.8	5.5																			
3.00	3.9	4.7	5.4	6.2	7.0																		
4.00	6.4	7.5	8.4	9.5	10.5	12.6																	
6.00	8.9	10.2	11.4	12.7	14.0	16.5	24.7																
8.00	11.8	13.4	14.9	16.5	18.0	21.2	30.5	46.7															
10.00	15.1	17.0	18.9	20.8	22.7	26.5	37.2	54.7	72.7														
12.00	15.7	17.7	19.6	21.6	23.6	27.5	38.4	56.1	74.5	104.0													
14.00	19.5	21.8	24.1	26.5	28.8	33.5	45.9	65.1	84.9	115.9	120.3												
16.00	25.6	28.5	31.4	34.4	37.3	43.2	58.1	79.7	102.0	135.4	142.2	176.6											
18.00	30.4	33.9	37.2	40.7	44.1	51.0	67.8	91.3	115.5	150.9	159.6	196.0	232.8										
20.00	35.7	39.6	43.5	47.5	51.4	59.4	78.3	103.9	130.2	167.7	178.5	217.0	255.9	292.8									
22.00	41.3	45.9	50.3	54.8	59.4	68.4	89.6	117.5	146.1	185.8	198.9	239.6	280.8	320.0	382.3								
24.00	44.4	49.2	54.0	58.8	63.7	73.3	95.7	124.9	154.7	195.6	209.9	251.9	294.3	334.7	398.3	447.3							
30.00	60.6	67.0	73.4	79.9	86.3	99.2	128.1	163.8	200.0	247.5	268.2	316.7	365.5	412.4	482.4	538.0	605.1						
36.00	43.4	48.1	52.8	57.5	62.2	71.7	93.7	122.5	151.8	192.4	206.3	247.8	289.8	329.8	392.9	441.6	488.0	658.8					
42.00	54.4	60.2	66.0	71.8	77.6	89.3	115.7	148.9	182.6	227.6	245.9	291.8	338.2	382.6	450.1	503.2	562.8	746.9	646.4				
48.00	72.3	79.9	87.5	95.1	102.7	117.9	151.5	191.8	232.8	284.9	310.3	363.4	417.0	468.5	543.3	603.5	684.6	890.1	811.2	958.3			
54.00	86.4	95.5	104.4	113.5	122.5	140.6	179.8	225.8	272.4	330.1	361.2	420.0	479.2	536.4	616.8	682.6	780.8	1003.2	941.3	1105.4	1334.9		
60.00	101.8	112.4	122.9	133.5	144.1	165.2	210.6	262.7	315.5	379.4	416.7	481.6	547.0	610.3	696.9	768.9	885.4	1126.4	1082.9	1265.5	1513.5	1761.3	
66.00	118.5	130.7	142.9	155.1	167.4	191.8	243.9	302.7	362.1	432.7	476.6	548.2	620.2	690.2	783.4	862.1	998.7	1259.6	1236.1	1438.7	1706.7	1974.4	
72.00																							

Component Weights 20HV.E14
 Rev 1.0C, Dec-12-2009

(also includes Series 20HV-C and 20HV(FDA))

Table 20HV.E14M.1F

Component Weights (kg or kg per meter)
 (Pressure ratings are 13.8bar: 1" - 12", 10.3bar: 14" - 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																							
38	1.2																						
51	1.3	1.6																					
64	1.4	1.7	2.0																				
76	1.5	1.9	2.2	2.5																			
102	1.8	2.1	2.5	2.8	3.2																		
152	2.9	3.4	3.8	4.3	4.8	5.7																	
203	4.0	4.6	5.2	5.8	6.3	7.5	11.2																
254	5.4	6.1	6.8	7.5	8.2	9.6	13.9	21.2															
305	6.9	7.7	8.6	9.4	10.3	12.0	16.9	24.8	33.0														
356	7.1	8.0	8.9	9.8	10.7	12.5	17.4	25.5	33.8	47.2													
406	8.8	9.9	10.9	12.0	13.1	15.2	20.8	29.6	38.6	52.6	54.6												
457	11.6	13.0	14.3	15.6	16.9	19.6	26.4	36.2	46.3	61.5	64.6	80.2											
508	13.8	15.4	16.9	18.5	20.0	23.1	30.8	41.5	52.5	68.5	72.5	89.0	105.7										
559	16.2	18.0	19.8	21.6	23.4	26.9	35.5	47.2	59.1	76.1	81.0	98.5	116.2	132.9									
610	18.8	20.8	22.8	24.9	27.0	31.1	40.7	53.4	66.3	84.4	90.3	108.8	127.5	145.3	173.6								
762	20.2	22.4	24.5	26.7	28.9	33.3	43.5	56.7	70.2	88.8	95.3	114.4	133.6	151.9	180.8	203.1							
914	27.5	30.4	33.3	36.3	39.2	45.1	58.2	74.3	90.8	112.3	121.8	143.8	166.0	187.2	219.0	244.2	274.7						
1067	19.7	21.8	24.0	26.1	28.3	32.5	42.5	55.6	68.9	87.3	93.6	112.5	131.6	149.7	178.4	200.5	221.6	299.1					
1219	24.7	27.3	30.0	32.6	35.2	40.5	52.5	67.6	82.9	103.3	111.6	132.5	153.5	173.7	204.4	228.4	255.5	339.1	293.5				
1372	32.8	36.3	39.7	43.2	46.6	53.5	68.8	87.1	105.7	129.3	140.9	165.0	189.3	212.7	246.6	274.0	310.8	404.1	368.3	435.1			
1524	39.2	43.3	47.4	51.5	55.6	63.8	81.6	102.5	123.7	149.9	164.0	190.7	217.6	243.5	280.0	309.9	354.5	455.5	427.3	501.8	606.0		
1676	46.2	51.0	55.8	60.6	65.4	75.0	95.6	119.3	143.2	172.2	189.2	218.6	248.3	277.1	316.4	349.1	402.0	511.4	491.6	574.5	687.1	799.6	
1829	53.8	59.3	64.9	70.4	76.0	87.1	110.7	137.4	164.4	196.4	216.4	248.9	281.6	313.4	355.7	391.4	453.4	571.9	561.2	653.1	774.8	896.4	



Component Weights 20HV.E14
Rev 1.0B, Mar-31-2005

(also includes Series 20HV-C)

Table 20HV.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 20HV.E14
Rev 1.0B, Mar-31-2005

(also includes Series 20HV-C)

Table 20HV.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 20HV.E14
Rev 1.0B, Mar-31-2005

(also includes Series 20HV-C)

Table 20HV.E14.1H

Component Weights (lbs)

(Pressure ratings are 200psig: 1" - 12", 150psig: 14" - 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 20HV			
10.00						
12.00						
14.00						
16.00			NOT USED BY SERIES 20HV			
18.00						
20.00						
22.00						
24.00			NOT USED BY SERIES 20HV			
30.00						
36.00						
42.00						
48.00			NOT USED BY SERIES 20HV			
54.00						
60.00						
66.00						
72.00						

Component Weights 20HV.E14
Rev 1.0B, Mar-31-2005

(also includes Series 20HV-C)

Table 20HV.E14M.1H

Component Weights (kg)

(Pressure ratings are 13.8bar: 1" - 12", 10.3bar: 14" - 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)
25								
38								
51								
64								
76								
102								
152								
203				NOT USED BY SERIES 20HV				
254								
305								
356								
406				NOT USED BY SERIES 20HV				
457								
508								
559								
610				NOT USED BY SERIES 20HV				
762								
914								
1067								
1219				NOT USED BY SERIES 20HV				
1372								
1524								
1676								
1829								

Component Weights 20HV.E14
Rev 1.0C, Sep-01-2005

(also includes Series 20HV-C)

Table 20HV.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	7.5	2.3	0.4	3.4	0.8
2.50	150						
3.00	150	6.4	12.1	3.3	0.6	4.1	1.1
4.00	150	8.5	15.5	4.6	0.8	5.3	1.5
6.00	150	14.8	23.5	6.0	1.0	7.8	2.1
8.00	150	21.8	30.6	8.4	1.4	11.4	2.8
10.00	150	33.0	47.6	11.0	2.2	16.4	3.5
12.00	150	44.9	62.5	15.3	2.6	23.5	4.2
14.00	150	53.0	75.9			25.8	4.9
16.00	150	68.2	101.3			34.1	5.6
18.00	150	85.3	112.6			41.5	6.3
20.00	150	103.2	147.6			51.0	7.0
22.00	150	118.9				58.6	
24.00	150	145.3	183.7			74.0	8.3
30.00	100	201.5				103.8	10.4
36.00	100	325.4				190.2	12.5
42.00	50	299.4				178.9	14.5
48.00	50	415.6				247.4	16.6
54.00	50	598.0				379.4	
60.00	50	888.5				578.3	
66.00	50						
72.00	50						

Component Weights 20HV.E14
Rev 1.0C, Sep-01-2005

(also includes Series 20HV-C)

Table 20HV.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			3.7	2.5	2.8
1.50	232			5.3	2.6	3.4
2.00	232			6.4		
2.50	232					
3.00	232		7.9	9.8		
4.00	232		9.5	13.8		
6.00	232		15.0	30.9		
8.00	232		27.3	66.1		
10.00	232		43.4	104.4		
12.00	232		69.7	174.0		
14.00	232		119.8	176.6		
16.00	232		171.1	257.6		
18.00	232		232.9	351.0		
20.00	232		289.9	437.2		
22.00	232					
24.00	232		450.3	693.1		
30.00	150		529.5	784.9		
36.00	150		824.7	1239.3		
42.00	100		591.6	839.8		
48.00	100		845.3	1196.4		
54.00	50					
60.00	50					
66.00	50					
72.00	50					

Component Weights 20HV.E14
Rev 1.0D, Dec-12-2009

(also includes Series 20HV-C)

Table 20HV.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	3.4	1.0	0.2	1.5	0.4
64	10						
76	10	2.9	5.5	1.5	0.3	1.9	0.5
102	10	3.8	7.0	2.1	0.3	2.4	0.7
152	10	6.7	10.7	2.7	0.5	3.6	1.0
203	10	9.9	13.9	3.8	0.6	5.2	1.3
254	10	15.0	21.6	5.0	1.0	7.5	1.6
305	10	20.4	28.4	7.0	1.2	10.7	1.9
356	10	24.1	34.5			11.7	2.2
406	10	30.9	46.0			15.5	2.5
457	10	38.7	51.1			18.9	2.9
508	10	46.8	67.0			23.1	3.2
559	10	54.0				26.6	
610	10	66.0	83.4			33.6	3.8
762	7	91.5				47.1	4.7
914	7	147.7				86.4	5.7
1067	3	135.9				81.2	6.6
1219	3	188.7				112.3	7.5
1372	3	271.5				172.3	
1524	3	403.4				262.6	
1676	3						
1829	3						

Component Weights 20HV.E14
Rev 1.0D, Dec-12-2009

(also includes Series 20HV-C)

Table 20HV.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			1.7	1.1	1.3
38	16			2.4	1.2	1.5
51	16			2.9		
64	16					
76	16		3.6	4.4		
102	16		4.3	6.3		
152	16		6.8	14.0		
203	16		12.4	30.0		
254	16		19.7	47.4		
305	16		31.6	79.0		
356	16		54.4	80.2		
406	16		77.7	117.0		
457	16		105.7	159.4		
508	16		131.6	198.5		
559	16					
610	16		204.4	314.7		
762	10		240.4	356.3		
914	10		374.4	562.6		
1067	7		268.6	381.3		
1219	7		383.8	543.2		
1372	3					
1524	3					
1676	3					
1829	3					