Bertsch Capacity Program

Size : # #20 Top Roll Dia (in) = 12.5 Bottom Roll Dia (in) = 23.5 Length (in) : 120

jts 8/29/2014

FULLWIDTH	CLASS-1-MATERIAL		CLASS-2-MATERIAL		CLASS-3-MATERIAL		CLASS-4-MATERIAL		Special	
120.000	Max Yield Strength		Max Yield Strength		Max Yield Strength		Max Yield Strength		Yield Factor	
	30,000 psi		35,000 psi		49,000 psi		65,000 psi			
	Max Thk	Min Dia	Max Thk	Min Dia.	Max Thk	Min Dia.	Max Thk	Min Dia.	Max Thk	Min Dia.
BOILER	0.906	18.5	0.828	19.7	0.766	21.0	0.703	22.5		
PIPE	0.609	13.9	0.563	14.1	0.516	14.2	0.469	14.4		

Boiler Duty -- (Multi Pass) 48 " Radius and Larger first pass

Thickness	Max Width	Min Dia	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.
0.750	120.000	18.5	120.000	19.7	120.000	21.0	80.875	22.5		
0.875	120.000	18.5	84.375	19.7	62.750	21.0	49.625	22.5		
1.000	71.625	18.5	54.000	19.7	43.250	21.0	35.375	24.0		
1.125	50.125	18.5	39.625	19.7	32.375	21.4	26.750	27.0		
1.250	38.250	18.5	30.750	19.7	25.375	23.8	21.125	30.0		
1.375	30.375	18.5	24.625	21.6	20.500	26.2	17.125	33.0		
1.500	24.875	20.0	20.250	23.5	16.875	28.5	14.250	36.0		
1.625	20.750	21.6	17.000	25.5	14.250	30.9	12.000	39.0		
1.750	17.625	23.3	14.500	27.5	12.125	33.3	10.250	42.0		
1.875	15.250	25.0	12.500	29.4	10.500	35.7	8.875	45.0		
2.000	13.250	26.6	10.875	31.4	9.125	38.0	7.750	48.0		
2.125	11.625	28.3	9.625	33.3	8.125	40.4	6.875	51.0		
2.250	10.375	29.9	8.500	35.3	7.125	42.8	6.000	54.0		
2.375	9.250	31.6	7.625	37.2	6.375	45.2	5.375	57.0		
2.500	8.250	33.3	6.875	39.2	5.750	47.5	4.875	60.0		
2.625	7.500	34.9	6.125	41.2	5.250	49.9	4.375	63.0		
2.750	6.750	36.6	5.625	43.1	4.750	52.3	4.000	66.0		
2.875	6.125	38.2	5.125	45.1	4.250	54.7	3.625	69.0		
3.000	5.625	39.9	4.625	47.0	4.000	57.0	3.375	72.0		
3.250	4.750	43.2	4.000	51.0	3.375	61.8				
3.500	4.125	46.5								

Pipe Duty -- (Single Pass)

Thickness	Max Width	Min Dia	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.
0.125	120.000	15.7	120.000	16.3	120.000	16.9	120.000	17.7		
0.250	120.000	14.6	120.000	14.8	120.000	15.0	120.000	15.3		
0.375	120.000	14.2	120.000	14.3	120.000	14.5	120.000	14.4		
0.500	120.000	13.9	120.000	14.1	120.000	14.2	89.250	14.4		
0.625	113.250	13.9	70.625	14.0	54.625	14.1	43.875	14.2		
0.750	53.375	13.9	41.875	13.9	34.125	14.0	28.125	14.1		
0.875	35.875	13.8	28.875	13.9	23.875	13.9	19.875	14.0		
1.000	26.125	13.8	21.250	13.8	17.750	13.9	14.875	15.7		
1.125	20.125	13.8	16.500	13.8	13.750	13.9	11.625	17.7		
1.250	16.000	13.7	13.125	13.8	11.000	15.5	9.250	19.6		
1.375	13.000	13.7	10.750	13.9	9.000	17.0	7.625	21.6		
1.500	10.875	13.7	8.875	15.2	7.500	18.5	6.375	23.5		
1.625	9.125	14.7	7.500	16.5	6.375	20.1	5.375	25.5		
1.750	7.875	15.8	6.500	17.7	5.500	21.6	4.625	27.5		
1.875	6.750	16.9	5.625	19.0	4.750	23.2	4.000	29.4		
2.000	5.875	18.0	4.875	20.3	4.125	24.7	3.500	31.4		
2.125	5.250	19.2	4.375	21.5	3.625	26.2	3.125	33.3		
2.250	4.625	20.3	3.875	22.8	3.250	27.8	2.750	35.3		
2.375	4.125	21.4	3.500	24.1	2.875	29.3	2.500	37.2		
2.500	3.750	22.5	3.125	25.3	2.625	30.9				
2.625	3.375	23.7	2.750	26.6						
2.750	3.125	24.8								

3.5 23.5 159,789 12,500 S/B=Y B/D=N REV (121205)

Bertsch Capacity Program

Size : # #20 Top Roll Dia (in) = 15 Bottom Roll Dia (in) = 23.5 Length (in) : 120

jts 8/29/2014

FULLWIDTH	CLASS-1-MATERIAL		CLASS-2-MATERIAL		CLASS-3-MATERIAL		CLASS-4-MATERIAL		Special	
120.000	Max Yield Strength		Max Yield Strength		Max Yield Strength		Max Yield Strength		Yield Factor	
	30,000 psi		35,000 psi		49,000 psi		65,000 psi			
	Max Thk	Min Dia	Max Thk	Min Dia.	Max Thk	Min Dia.	Max Thk	Min Dia.	Max Thk	Min Dia.
BOILER	1.203	21.0	1.094	22.2	1.000	23.5	0.922	25.0		
PIPE	0.859	16.4	0.781	16.6	0.719	16.7	0.656	16.9		

Boiler Duty -- (Multi Pass) 48 " Radius and Larger first pass

Thickness	Max Width	Min Dia	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.
1.000	120.000	21.0	120.000	22.2	120.000	23.5	76.500	25.0		
1.125	120.000	21.0	94.000	22.2	67.250	23.5	52.750	27.0		
1.250	87.500	21.0	62.625	22.2	49.375	23.8	40.000	30.0		
1.375	61.875	21.0	47.750	22.2	38.625	26.2	31.750	33.0		
1.500	48.250	21.0	38.250	23.5	31.250	28.5	25.875	36.0		
1.625	39.250	21.6	31.500	25.5	26.000	30.9	21.625	39.0		
1.750	32.750	23.3	26.500	27.5	22.000	33.3	18.375	42.0		
1.875	27.875	25.0	22.625	29.4	18.875	35.7	15.875	45.0		
2.000	24.125	26.6	19.625	31.4	16.375	38.0	13.750	48.0		
2.125	21.000	28.3	17.250	33.3	14.375	40.4	12.125	51.0		
2.250	18.500	29.9	15.250	35.3	12.750	42.8	10.750	54.0		
2.375	16.500	31.6	13.500	37.2	11.375	45.2	9.625	57.0		
2.500	14.750	33.3	12.125	39.2	10.125	47.5	8.625	60.0		
2.625	13.250	34.9	11.000	41.2	9.250	49.9	7.750	63.0		
2.750	12.000	36.6	9.875	43.1	8.375	52.3	7.000	66.0		
2.875	11.000	38.2	9.000	45.1	7.625	54.7	6.375	69.0		
3.000	10.000	39.9	8.250	47.0	7.000	57.0	5.875	72.0		
3.250	8.500	43.2	7.000	51.0	5.875	61.8	5.000	78.0		
3.500	7.250	46.5	6.000	54.9	5.000	66.5	4.250	84.0		
3.750	6.250	49.9	5.250	58.8	4.375	71.3	3.750	90.0		
4.000	5.500	53.2	4.500	62.7						
4.250	4.875	56.5								

Pipe Duty -- (Single Pass)

Thickness	Max Width	Min Dia	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.
0.125	120.000	19.3	120.000	20.2	120.000	21.2	120.000	22.5		
0.250	120.000	17.5	120.000	17.9	120.000	18.2	120.000	18.7		
0.375	120.000	17.0	120.000	17.2	120.000	17.4	120.000	17.7		
0.500	120.000	16.7	120.000	16.9	120.000	17.1	120.000	17.3		
0.625	120.000	16.6	120.000	16.7	120.000	16.7	120.000	16.9		
0.750	120.000	16.4	120.000	16.6	88.875	16.7	65.375	16.8		
0.875	99.500	16.4	67.500	16.5	52.625	16.6	42.375	16.7		
1.000	59.125	16.4	45.875	16.5	37.250	16.5	30.625	16.6		
1.125	42.875	16.3	34.250	16.4	28.125	16.5	23.375	17.7		
1.250	33.000	16.3	26.750	16.4	22.125	16.4	18.500	19.6		
1.375	26.500	16.3	21.500	16.3	18.000	17.0	15.000	21.6		
1.500	21.750	16.3	17.750	16.3	14.875	18.5	12.500	23.5		
1.625	18.250	16.3	15.000	16.5	12.500	20.1	10.500	25.5		
1.750	15.500	16.2	12.750	17.7	10.750	21.6	9.000	27.5		
1.875	13.375	16.9	11.000	19.0	9.250	23.2	7.750	29.4		
2.000	11.625	18.0	9.625	20.3	8.125	24.7	6.875	31.4		
2.125	10.250	19.2	8.500	21.5	7.125	26.2	6.000	33.3		
2.250	9.125	20.3	7.500	22.8	6.375	27.8	5.375	35.3		
2.375	8.125	21.4	6.750	24.1	5.625	29.3	4.750	37.2		
2.500	7.250	22.5	6.000	25.3	5.125	30.9	4.250	39.2		
2.625	6.625	23.7	5.500	26.6	4.625	32.4	3.875	41.2		
2.750	6.000	24.8	5.000	27.8	4.125	34.0	3.500	43.1		
2.875	5.500	25.9	4.500	29.1	3.750	35.5	3.250	45.1		
3.000	5.000	27.0	4.125	30.4	3.500	37.0	3.000	47.0		
3.250	4.250	29.3	3.500	32.9						
3.500	3.625	31.5								

4.25 23.5 276,116 12,500 S/B=Y B/D=N REV (121205)

Bertsch Capacity Program

Size : # #20 Top Roll Dia (in) = 19.5 Bottom Roll Dia (in) = 23.5 Length (in) : 120 jts 8/29/2014

FULLWIDTH 120.000	CLASS-1-MATERIAL Max Yield Strength 30,000 psi		CLASS-2-MATERIAL Max Yield Strength 35,000 psi		CLASS-3-MATERIAL Max Yield Strength 49,000 psi		CLASS-4-MATERIAL Max Yield Strength 65,000 psi		Special Yield Factor	
	Max Thk	Min Dia	Max Thk	Min Dia.	Max Thk	Min Dia.	Max Thk	Min Dia.	Max Thk	Min Dia.
BOILER	1.719	25.5	1.578	26.7	1.453	28.0	1.328	32.2		
PIPE	1.313	21.0	1.203	21.1	1.109	21.3	1.016	21.5		
Boiler Duty -- (Multi Pass) 48 " Radius and Larger first pass										
Thickness	Max Width	Min Dia	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.
1.375	120.000	25.5	120.000	26.7	120.000	28.0	114.125	33.0		
1.500	120.000	25.5	120.000	26.7	112.875	28.5	73.250	36.0		
1.625	120.000	25.5	113.500	26.7	73.500	30.9	56.750	39.0		
1.750	117.500	25.5	76.000	27.5	58.000	33.3	46.250	42.0		
1.875	82.875	25.5	60.375	29.4	47.750	35.7	38.750	45.0		
2.000	65.625	26.6	50.250	31.4	40.500	38.0	33.125	48.0		
2.125	54.750	28.3	42.875	33.3	34.875	40.4	28.750	51.0		
2.250	46.750	29.9	37.125	35.3	30.375	42.8	25.250	54.0		
2.375	40.750	31.6	32.625	37.2	26.875	45.2	22.375	57.0		
2.500	35.875	33.3	28.875	39.2	23.875	47.5	19.875	60.0		
2.625	31.875	34.9	25.750	41.2	21.375	49.9	17.875	63.0		
2.750	28.625	36.6	23.250	43.1	19.375	52.3	16.125	66.0		
2.875	25.875	38.2	21.000	45.1	17.500	54.7	14.750	69.0		
3.000	23.500	39.9	19.125	47.0	16.000	57.0	13.375	72.0		
3.250	19.625	43.2	16.125	51.0	13.500	61.8	11.375	78.0		
3.500	16.750	46.5	13.750	54.9	11.500	66.5	9.625	84.0		
3.750	14.375	49.9	11.875	58.8	9.875	71.3	8.375	90.0		
4.000	12.500	53.2	10.375	62.7	8.625	76.0	7.375	96.0		
4.250	11.000	56.5	9.125	66.6	7.625	80.8	6.500	96.0		
4.500	9.750	59.8	8.125	70.5	6.750	85.5	5.750	96.0		
4.750	8.750	63.1	7.250	74.5	6.125	90.3	5.125	96.0		
5.000	7.875	66.5	6.500	78.4	5.500	95.0				
5.500	6.375	73.1								
Pipe Duty -- (Single Pass)										
Thickness	Max Width	Min Dia	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.	Max Width	Min Dia.
0.125	120.000	26.5	120.000	28.2	120.000	30.2	120.000	33.0		
0.250	120.000	23.1	120.000	23.7	120.000	24.4	120.000	25.3		
0.375	120.000	22.2	120.000	22.6	120.000	23.0	120.000	23.5		
0.500	120.000	21.8	120.000	22.0	120.000	22.3	120.000	22.6		
0.625	120.000	21.5	120.000	21.7	120.000	21.9	120.000	22.2		
0.750	120.000	21.3	120.000	21.5	120.000	21.7	120.000	21.9		
0.875	120.000	21.2	120.000	21.4	120.000	21.5	120.000	21.7		
1.000	120.000	21.1	120.000	21.2	120.000	21.3	120.000	21.5		
1.125	120.000	21.1	120.000	21.1	117.875	21.3	79.375	21.4		
1.250	120.000	21.0	112.750	21.1	72.625	21.2	56.125	21.3		
1.375	107.000	21.0	69.500	21.1	54.000	21.1	43.375	21.6		
1.500	70.500	20.9	53.375	21.0	42.750	21.1	35.000	23.5		
1.625	55.000	20.9	43.125	21.0	35.000	21.1	28.875	25.5		
1.750	45.000	20.9	35.750	20.9	29.375	21.6	24.375	27.5		
1.875	37.750	20.8	30.375	20.9	25.125	23.2	20.875	29.4		
2.000	32.375	20.8	26.125	20.9	21.750	24.7	18.125	31.4		
2.125	28.125	20.8	22.750	21.5	19.000	26.2	15.875	33.3		
2.250	24.625	20.8	20.125	22.8	16.750	27.8	14.000	35.3		
2.375	21.750	21.4	17.875	24.1	14.875	29.3	12.500	37.2		
2.500	19.500	22.5	16.000	25.3	13.375	30.9	11.250	39.2		
2.625	17.500	23.7	14.375	26.6	12.000	32.4	10.125	41.2		
2.750	15.875	24.8	13.000	27.8	10.875	34.0	9.250	43.1		
2.875	14.375	25.9	11.875	29.1	9.875	35.5	8.375	45.1		
3.000	13.125	27.0	10.750	30.4	9.125	37.0	7.625	47.0		
3.250	11.125	29.3	9.125	32.9	7.625	40.1	6.500	51.0		
3.500	9.500	31.5	7.875	35.4	6.625	43.2	5.500	54.9		
3.750	8.250	33.8	6.750	38.0	5.750	46.3	4.875	58.8		
4.000	7.125	36.0	5.875	40.5	5.000	49.4	4.250	62.7		
4.250	6.375	38.3	5.250	43.0	4.375	52.5				
4.500	5.625	40.5	4.625	45.5						
4.750	5.000	42.8								

5.5 23.5 572,000 12,500 S/B=Y B/D=N REV (121205)