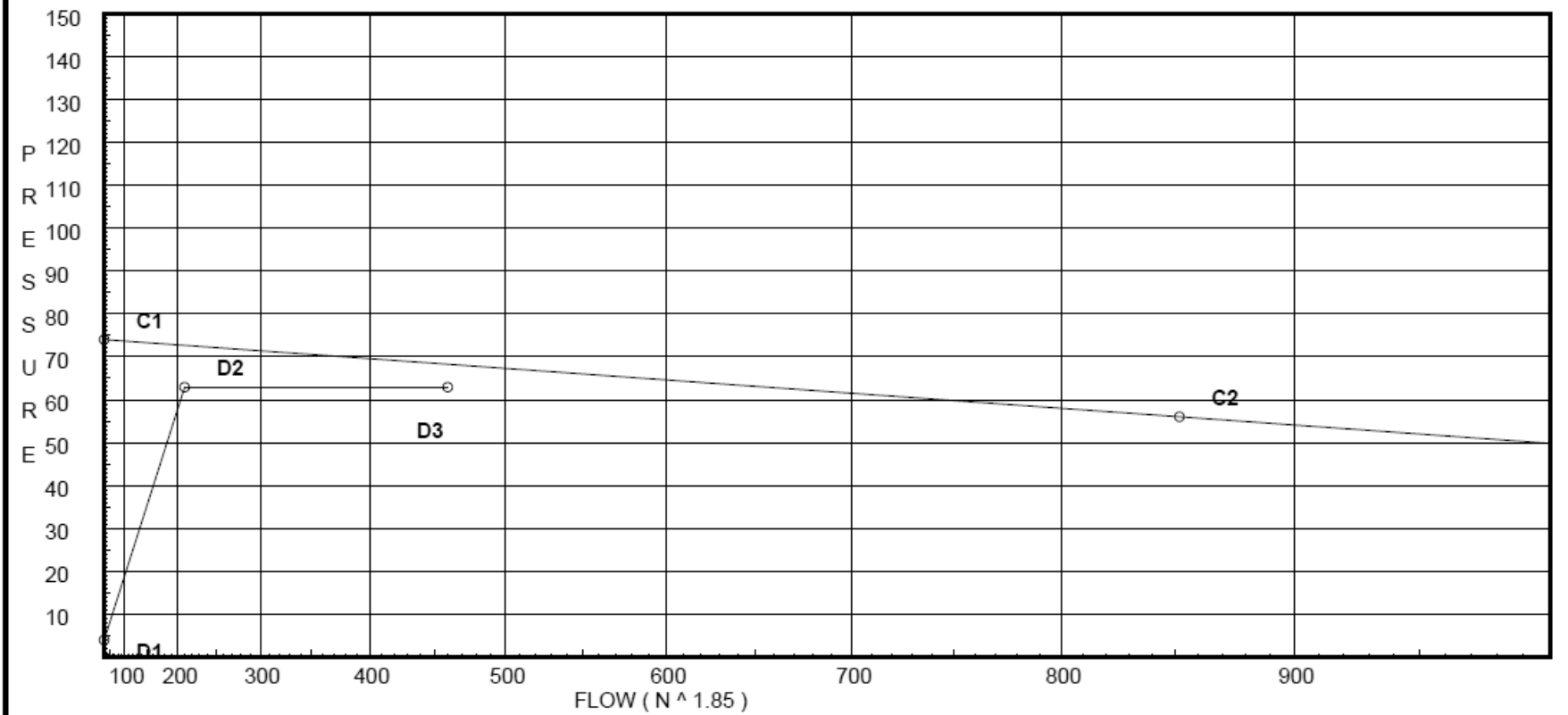


Water Supply Curve (C)

Kelvin EMtech

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City Water Supply:	Demand:
C1 - Static Pressure : 74	D1 - Elevation : 3.898
C2 - Residual Pressure: 56	D2 - System Flow : 209.817
C2 - Residual Flow : 852	D2 - System Pressure : 62.880
	Hose (Demand) : 250
	D3 - System Demand : 459.817
	Safety Margin : 5.369



Fittings Used Summary

Kelvin EMtech

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Fitting Legend	Abbrev.	Name	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Avk	Alarm Viking J1																					
E	NFPA 13 90 Standard Elbow		1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
S	NFPA 13 90 Swing Check		0	0	5	7	9	11	14	16	19	22	27	32	45	55	65	71	81	91	101	121
T	NFPA 13 90 Flow thru Tee		3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121

Units Summary

Diameter Units	Inches
Length Units	Feet
Flow Units	US Gallons per Minute
Pressure Units	Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

Pressure / Flow Summary - STANDARD

Kelvin EMtech

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Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
1	9.0	5.6	17.57	na	23.47	0.15	130	7.0
5	9.0	5.6	19.14	na	24.5	0.15	130	7.0
4	9.0	5.6	18.38	na	24.01	0.15	130	7.0
9	9.0	5.6	12.13	na	19.5	0.15	130	7.0
8	9.0	5.6	13.19	na	20.34	0.15	130	7.0
2	9.0	5.6	19.35	na	24.63	0.15	130	7.0
3	9.0	5.6	19.86	na	24.95	0.15	130	7.0
7	9.0	5.6	16.87	na	23.0	0.15	130	7.0
6	9.0	5.6	20.58	na	25.41	0.15	130	7.0
10	9.0		24.63	na				
11	9.0		25.53	na				
12	9.0		34.3	na				
13	9.0		40.96	na				
14	9.0		52.43	na				
15	9.0		55.77	na				
16	9.0		57.04	na				
17	9.0		57.73	na				
18	9.0		58.01	na				
19	9.0		58.32	na				
20	1.0		62.0	na				
21	1.0		62.18	na				
22	1.0		62.22	na	250.0			
CITY	0.0		62.88	na				

The maximum velocity is 23.33 and it occurs in the pipe between nodes 7 and 11

