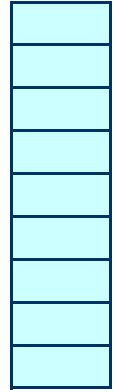




#	SIZE	COMPONENT	GPM	DISTANCE	PSI LOSS
34		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
35		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
36		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
37		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
38		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
39		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
40		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
41		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
42		<input type="radio"/> sch 40 <input type="radio"/> cl 315 <input type="radio"/> cl 200			
43		TOTAL LENGTH OF LATERAL		155	



44		<b>TOTAL LATERAL LINE LOSS</b> (includes 43 feet equivalent lengths of pipe for fittings)			2.54
45		<b>B</b>	AVB	42	
46			pressure regulator	42	
47			filter	42	
48			min. PRS differential		
49	1½"	Superior 950-DW	control valve	42	1.89
50		Elevation of Highest Head on Zone	15		0.87
51		TOTAL LOSS (HEAD thru VALVE)			40.30

**C**

LOOPED MAIN CALCULATOR		GPM
410	SHORT LEG	23
595	LONG LEG	19

52	2"	CL. 315 PVC	main line loop	42	1005	
53	2"	CL. 315 PVC	loop equivalent	23	410	1.88
54	2"	SCH. 40 PVC	main line fittings	23	85	0.35
55	2"	CL. 315 PVC	main line piping	42	25	0.35
56	2"	SCH. 40 PVC	main line fittings	42	24	0.30
57						
58						
59						
60						
61						
62		TOTAL MAIN LINE IN CALC.			1549	

**D**

EQUIVALENT FEET OF PIPE	MAIN LINE FITTINGS CALCULATOR**				
	SIZE	T's (thru)	T's (side)	90° ELL's	45° ELL's
	¾" or 1"				
	1¼"				
	1½"				
85	2"	11	1	2	2
	2½"				
	3"				
	4"				
	6"				
	8"				
	10"				
	12"				

63		TOTAL MAIN LINE LOSS			2.88
64		Elevation of Remote Control Valve	13		(0.87)

65	1"	Creative Sensor Tech.	flow sensor	42		0.20
66	2"	Wilkins 500	PRV	42		4.70
67	1½"	Superior 3200	master valve	42		1.89
68	1½"	BRASS PIPE	pipe	42	11	0.63
69	1½"	Febco 825YA	B.P.	42		11.60
70	1½"	Febco 650A	strainer / filter	42		0.45
71	1½"	BRASS PIPE	pipe	42	11	0.63
72	2"	<input type="radio"/> std. AWWA <input checked="" type="radio"/> actual	water meter	42		0.80
73	2"	COPPER type K	service line	42	10	0.19

METER MODEL:  
SENSUS  
OMNI R2

ACTUAL WATER METER LOSS  
↓  
0.8

90° ELL's ON BACKFLOW LOOP (EQUIVALENT FT. OF PIPE)*				
SIZE	BRONZE	COPPER	PVC	STEEL
½" or ¾"	2	1	5	3
1"	4	1	6	3
1¼"	5	2	8	4
1½"	8	2	9	5
2"	11	2	11	6
2½"	14	2	14	7
3"	18	3	17	8
4"	28		24	12
6"	52		34	16

(source: Hunter Handbook of Tech. Irrigation Info., © 1996)

74		TOTAL PSI LOSS			63.40
75		contingency	0%		0.00
76		MINIMUM OPERATING PSI	42		63.40
77		less PRV back to POC			20.89
78		SETTING AT OUTLET OF PRV	42		43
79		RESIDUAL PRESSURE			13.60

\*\* Include (1) tee for each RCV & Q/C passed, and (4) ell's at each street crossing, as well as tee's & ell's on plan.  
\* Include (2) 90° ell's and 3-5 ft. of pipe (or more) on each side of a backflow preventer loop (lines #68 and #71).