

### Pipe Information

From Node	Elevation 1	K-Val	Flow Added	Nominal Id	Fittings	Pipe Lth	C Factor	Start Press	Notes 1
To Node	Elevation 2		Flow	Diameter		Fittings Lth		Total Loss	Notes 2
						Tot Lth	Loss Per Ft	End Press	Notes 3
								Notes 4	
1	1.0000		50.0000	8.0000	TE	30.0000	140	154.3220	Elev Change = -3
						77.1400		-1.3000	Velocity = 4.12
2	-2.0000		709.7000	8.3900		107.1400	0.0029	0.3107	Outside Hose = 50
								155.3110	
2	-2.0000			8.0000		1.0000	120	155.3110	
						500.0000			Velocity = 4.45
3	-2.0000		709.7000	8.0710		501.0000	0.0047	2.3345	
								152.9770	
3	-2.0000			8.0000	AAE	260.0000	140	152.9770	
						49.8200			Velocity = 4.12
4	-2.0000		709.7000	8.3900		309.8200	0.0029	0.8985	
								152.0780	
4	-2.0000		50.0000	6.0000	E	8.0000	120	152.0780	Elev Change = 4
						9.0000		1.7330	Velocity = 7.33
5	1.9990		659.7000	6.0650		17.0000	0.0164	0.2782	Inside Hose = 50
								150.0670	
5	1.9990			4.0000	T	2.0000	120	150.0670	
						20.0000			Velocity = 16.62
6	1.9990		659.7000	4.0260		22.0000	0.1204	2.6486	
								147.4180	
6	1.9990			4.0000	T	2.0000	120	147.4180	Elev Change = 9
						20.0000		3.9000	Velocity = 16.62
200	10.9990		659.7000	4.0260		22.0000	0.1204	2.6486	
								140.8690	
200	10.9990			4.0000	TG	1.0000	120	140.8690	
						22.0000			Velocity = 16.62
201	10.9990		659.7000	4.0260		23.0000	0.1204	2.7690	
								138.1000	
201	10.9990			4.0000		1.0000	100	138.1000	Elev Change = 25
						35.6700		10.8330	Velocity = 16.62
202	35.9990		659.7000	4.0260		36.6700	0.1687	6.1883	
								121.0790	
202	35.9990			4.0000		5.0000	100	121.0790	
									Velocity = 14.85
203	35.9990		659.7000	4.2600		5.0000	0.1282	0.6408	
								120.4380	
203	35.9990			4.0000	E	7.0000	100	120.4380	Elev Change = 15
						6.3900		6.5000	Velocity = 14.85
204	50.9990		659.7000	4.2600		13.3900	0.1282	1.7160	
								112.2220	
204	50.9990			4.0000	E	12.0000	100	112.2220	
						6.3900			Velocity = 14.85
700	50.9990		659.7000	4.2600		18.3900	0.1282	2.3568	
								109.8650	
700	50.9990			4.0000	E	10.0000	100	109.8650	
						6.3900			Velocity = 14.85
701	50.9990		659.7000	4.2600		16.3900	0.1282	2.1004	
								107.7650	

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To Node	Elevation 2		Flow	Diameter		Fittings Lth	Loss Per Ft	Elev Loss	Notes 2	
						Tot Lth		Total Loss		Notes 3
								End Press	Notes 4	
701	50.9990			4.0000		10.0000	100	107.7650		
									Velocity = 14.85	
702	50.9990		659.7000	4.2600		10.0000	0.1282	1.2816		
								106.4830		
702	50.9990			4.0000		12.0000	100	106.4830		
									Velocity = 14.85	
703	50.9990		659.7000	4.2600		12.0000	0.1282	1.5379		
								104.9450		
703	50.9990			4.0000	EE	30.0000	100	104.9450		
						12.7800				Velocity = 14.85
704	50.9990		659.7000	4.2600		42.7800	0.1282	5.4825		
								99.4630		
704	50.9990			4.0000		4.0000	100	99.4630		
									Velocity = 14.85	
705	50.9990		659.7000	4.2600		4.0000	0.1282	0.5126		
								98.9500		
705	50.9990			4.0000		108.0000	100	98.9500		
									Velocity = 14.85	
706	50.9990		659.7000	4.2600		108.0000	0.1282	13.8412		
								85.1090		
706	50.9990			3.0000	TTE	93.0000	100	85.1090		
						29.7200				Velocity = 12.28
707	50.9990		319.4000	3.2600		122.7200	0.1231	15.1073		
								70.0020		
706	50.9990			3.0000	TTE	99.0000	100	85.1090		
						29.7200				Velocity = 13.08
708	50.9990		340.3000	3.2600		128.7200	0.1384	17.8155		
								67.2940		
707	50.9990			3.0000		22.0000	100	70.0020		
									Velocity = 12.28	
708	50.9990		319.4000	3.2600		22.0000	0.1231	2.7082		
								67.2940		
708	50.9990			4.0000	T	140.0000	100	67.2940		
						15.0300				Velocity = 14.85
709	50.9990		659.7000	4.2600		155.0300	0.1282	19.8690		
								47.4250		
709	50.9990			4.0000		8.0000	100	47.4250		
									Velocity = 1.99	
710	50.9990		88.3000	4.2600		8.0000	0.0031	0.0247		
								47.4000		
709	50.9990			3.0000	T	6.0000	100	47.4250		
						12.4700				Velocity = 21.96
720	50.9990		571.4000	3.2600		18.4700	0.3615	6.6745		
								40.7500		
710	50.9990			3.0000	T	9.0000	100	47.4000		
						12.4700				Velocity = 3.39
723	50.9990		88.3000	3.2600		21.4700	0.0114	0.2441		
								47.1560		

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To Node	Elevation 2		Flow	Diameter		Fittings Lth		Total Loss	Notes 2
						Tot Lth	Loss Per Ft	End Press	Notes 3
								Notes 4	
720	50.9990			3.0000		13.0000	100	40.7500	
									Velocity = 15.38
721	50.9990		400.0000	3.2600		13.0000	0.1868	2.4279	
								38.3220	
720	50.9990			1.5000		9.0000	100	40.7500	
					T	5.7100			Velocity = 27
730	50.9990		171.4000	1.6100		14.7100	1.2066	17.7463	
								23.0040	
721	50.9990			3.0000		12.0000	100	38.3220	
									Velocity = 8.93
722	50.9990		232.3000	3.2600		12.0000	0.0682	0.8189	
								37.5030	
721	50.9990			1.5000		4.0000	100	38.3220	
					T	5.7100			Velocity = 26.43
731	50.9990		167.7000	1.6100		9.7100	1.1599	11.2594	
								27.0630	
722	50.9990	5.6000	30.0000	1.5000		4.0000	100	37.5030	
					T	5.7100			Velocity = 22.42
817	50.9990		142.3000	1.6100		9.7100	0.8552	8.3022	
								29.2010	
722	50.9990	5.6000	31.0000	1.2500		4.0000	100	37.5030	
					T	4.2800			Velocity = 19.3
824	50.9990		90.0000	1.3800		8.2800	0.7753	6.4198	
								31.0840	
723	50.9990			1.5000		4.0000	100	47.1560	
					T	5.7100			Velocity = 13.91
733	50.9990		88.3000	1.6100		9.7100	0.3532	3.4286	
								43.7270	
730	50.9990	5.2610	22.1000	1.2500		4.0000	100	23.0040	
					T	4.2800			Velocity = 17.41
801	50.9990		81.2000	1.3800		8.2800	0.6406	5.3050	
								17.6990	
730	50.9990	5.2610	21.3000	1.2500		4.0000	100	23.0040	
					T	4.2800			Velocity = 19.34
805	50.9990		90.2000	1.3800		8.2800	0.7786	6.4476	
								16.5560	
731	50.9990	5.6000	25.3000	1.2500		4.0000	100	27.0630	
					T	4.2800			Velocity = 19.59
810	50.9990		91.4000	1.3800		8.2800	0.7974	6.6026	
								20.4600	
731	50.9990	5.6000	26.4000	1.2500		4.0000	100	27.0630	
					T	4.2800			Velocity = 16.39
814	50.9990		76.4000	1.3800		8.2800	0.5725	4.7408	
								22.3220	
733	50.9990			1.2500		4.0000	100	43.7270	
					T	4.2800			Velocity = 18.93
750	50.9990		88.3000	1.3800		8.2800	0.7482	6.1958	
								37.5310	

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	To Node		Elevation 2	Flow		Diameter		Fittings Lth	Loss Per Ft
					Tot Lth				
								End Press	Notes 4
740	50.9990	5.6000	17.5000	1.0000		1.0000	100	9.8610	Velocity = 6.49
821	50.9990		17.5000	1.0490		1.0000		0.1417	
740	50.9990	5.2610	15.3000	1.2500	T	10.0000	100	9.8610	Velocity = 6.49
822	50.9990		30.3000	1.3800		14.2800		0.1030	
750	50.9990	5.6000	31.3000	1.2500		8.0000	100	37.5310	Velocity = 18.93
827	50.9990		88.3000	1.3800		8.0000		0.7482	
801	50.9990	5.2610	20.3000	1.2500		8.0000	100	17.6990	Velocity = 12.68
802	50.9990		59.1000	1.3800		8.0000		0.3560	
802	50.9990	5.2610	19.4000	1.2500		8.0000	100	14.8510	Velocity = 8.33
803	50.9990		38.8000	1.3800		8.0000		0.1636	
803	50.9990	5.6000	19.5000	1.0000	E	7.0000	100	13.5420	Velocity = 7.23
804	50.9990		19.5000	1.0490		1.4300		0.1731	
805	50.9990	5.2610	18.8000	1.2500		8.0000	100	16.5560	Velocity = 14.77
806	50.9990		68.9000	1.3800		8.0000		0.4723	
806	50.9990	5.2610	17.2000	1.2500		8.0000	100	12.7780	Velocity = 10.74
807	50.9990		50.1000	1.3800		8.0000		0.2618	
807	50.9990	5.2610	16.4000	1.2500		8.0000	100	10.6840	Velocity = 7.05
808	50.9990		32.9000	1.3800		8.0000		0.1200	
808	50.9990	5.6000	16.5000	1.0000	E	7.0000	100	9.7230	Velocity = 6.11
809	50.9990		16.4000	1.0490		1.4300		0.1267	
810	50.9990	5.6000	23.0000	1.2500		8.0000	100	20.4600	Velocity = 14.18
811	50.9990		66.1000	1.3800		8.0000		0.4381	
811	50.9990	5.6000	22.0000	1.2500		8.0000	100	16.9560	Velocity = 9.24
812	50.9990		43.1000	1.3800		8.0000		0.1981	
								15.3710	

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From Node	Elevation 1	K-Val	Flow Added	Nominal Id	Fittings	Pipe Lth	C Factor	Start Press	Notes 1
To Node	Elevation 2		Flow	Diameter		Fittings Lth	Loss Per Ft	Elev Loss	Notes 2
						Tot Lth		Total Loss	
								End Press	Notes 4
812	50.9990	5.6000	21.1000	1.0000		6.0000	100	15.3710	
813	50.9990		21.1000	1.0490		6.0000	0.2010	1.2059	Velocity = 7.83
								14.1650	
814	50.9990	5.6000	25.2000	1.2500		8.0000	100	22.3220	
815	50.9990		50.0000	1.3800		8.0000	0.2613	2.0905	Velocity = 10.73
								20.2320	
815	50.9990	5.6000	24.8000	1.2500		8.0000	100	20.2320	
816	50.9990		24.8000	1.3800		8.0000	0.0715	0.5719	Velocity = 5.33
								19.6600	
817	50.9990	5.6000	24.9000	1.2500		8.0000	100	29.2010	
818	50.9990		112.3000	1.3800		8.0000	1.1692	9.3540	Velocity = 24.09
								19.8470	
818	50.9990	5.6000	20.9000	1.2500		8.0000	100	19.8470	
819	50.9990		87.5000	1.3800		8.0000	0.7359	5.8870	Velocity = 18.76
								13.9600	
819	50.9990	5.6000	18.8000	1.2500		6.0000	100	13.9600	
820	50.9990		66.6000	1.3800		6.0000	0.4436	2.6618	Velocity = 14.28
								11.2980	
820	50.9990	5.6000		1.2500		6.0000	100	11.2980	
740	50.9990		47.7000	1.3800		6.0000	0.2396	1.4374	Velocity = 10.24
								9.8610	
822	50.9990	5.6000	15.0000	1.0000	E	10.0000	100	8.3910	
823	50.9990		15.0000	1.0490		1.4300	0.1064	1.2160	Velocity = 5.56
								7.1750	
824	50.9990	5.6000	29.7000	1.2500		8.0000	100	31.0840	
825	50.9990		59.0000	1.3800		8.0000	0.3545	2.8364	Velocity = 12.65
								28.2470	
825	50.9990	5.6000	29.3000	1.2500		8.0000	100	28.2470	
826	50.9990		29.3000	1.3800		8.0000	0.0971	0.7765	Velocity = 6.28
								27.4710	
827	50.9990	5.6000	30.0000	1.2500		8.0000	100	31.5460	
828	50.9990		57.0000	1.3800		8.0000	0.3328	2.6627	Velocity = 12.23
								28.8830	
828	50.9990	5.6000	27.0000	1.0000	E	17.0000	100	28.8830	
829	50.9990		27.0000	1.0490		1.4300	0.3168	5.8380	Velocity = 10.02
								23.0450	