

Curva de la Instalación para PVC 125 clase 10								
Caudal Total	Caudal c/Bomba	Caudal c/Bomba	Altura geom. Max Lago Bajo-CAC	Altura geom. Min Lago alto-CAC	Tub descarga Diametro Interno	Tub colectora Diametro Interno	Tub impulsión Diametro Interno	Rugosidad Max PVC
[m3/hora]	[m3/seg]	[l/seg]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.1	0.000	0.0	13.30	11.30	76.2	76.2	113	0.5
2.5	0.001	0.7	13.30	11.30	76.2	76.2	113	0.5
5.0	0.001	1.4	13.30	11.30	76.2	76.2	113	0.5
7.5	0.002	2.1	13.30	11.30	76.2	76.2	113	0.5
10.0	0.003	2.8	13.30	11.30	76.2	76.2	113	0.5
12.5	0.003	3.5	13.30	11.30	76.2	76.2	113	0.5
15.0	0.004	4.2	13.30	11.30	76.2	76.2	113	0.5
17.5	0.005	4.9	13.30	11.30	76.2	76.2	113	0.5
20.0	0.006	5.6	13.30	11.30	76.2	76.2	113	0.5
22.5	0.006	6.3	13.30	11.30	76.2	76.2	113	0.5
25.0	0.007	6.9	13.30	11.30	76.2	76.2	113	0.5
27.5	0.008	7.6	13.30	11.30	76.2	76.2	113	0.5
30.0	0.008	8.3	13.30	11.30	76.2	76.2	113	0.5
32.5	0.009	9.0	13.30	11.30	76.2	76.2	113	0.5
35.0	0.010	9.7	13.30	11.30	76.2	76.2	113	0.5
37.5	0.010	10.4	13.30	11.30	76.2	76.2	113	0.5
40.0	0.011	11.1	13.30	11.30	76.2	76.2	113	0.5
42.5	0.012	11.8	13.30	11.30	76.2	76.2	113	0.5
45.0	0.013	12.5	13.30	11.30	76.2	76.2	113	0.5
47.5	0.013	13.2	13.30	11.30	76.2	76.2	113	0.5
50.0	0.014	13.9	13.30	11.30	76.2	76.2	113	0.5
52.5	0.015	14.6	13.30	11.30	76.2	76.2	113	0.5
55.0	0.015	15.3	13.30	11.30	76.2	76.2	113	0.5
57.5	0.016	16.0	13.30	11.30	76.2	76.2	113	0.5
60.0	0.017	16.7	13.30	11.30	76.2	76.2	113	0.5
62.5	0.017	17.4	13.30	11.30	76.2	76.2	113	0.5
65.0	0.018	18.1	13.30	11.30	76.2	76.2	113	0.5
67.5	0.019	18.8	13.30	11.30	76.2	76.2	113	0.5
70.0	0.019	19.4	13.30	11.30	76.2	76.2	113	0.5
72.5	0.020	20.1	13.30	11.30	76.2	76.2	113	0.5
75.0	0.021	20.8	13.30	11.30	76.2	76.2	113	0.5
77.5	0.022	21.5	13.30	11.30	76.2	76.2	113	0.5
80.0	0.022	22.2	13.30	11.30	76.2	76.2	113	0.5
82.5	0.023	22.9	13.30	11.30	76.2	76.2	113	0.5
85.0	0.024	23.6	13.30	11.30	76.2	76.2	113	0.5
87.5	0.024	24.3	13.30	11.30	76.2	76.2	113	0.5

90.0	0.025	25.0	13.30	11.30		76.2	76.2	113		0.5
92.5	0.026	25.7	13.30	11.30		76.2	76.2	113		0.5
95.0	0.026	26.4	13.30	11.30		76.2	76.2	113		0.5
97.5	0.027	27.1	13.30	11.30		76.2	76.2	113		0.5
100.0	0.028	27.8	13.30	11.30		76.2	76.2	113		0.5
102.5	0.028	28.5	13.30	11.30		76.2	76.2	113		0.5
105.0	0.029	29.2	13.30	11.30		76.2	76.2	113		0.5
107.5	0.030	29.9	13.30	11.30		76.2	76.2	113		0.5
110.0	0.031	30.6	13.30	11.30		76.2	76.2	113		0.5
112.5	0.031	31.3	13.30	11.30		76.2	76.2	113		0.5
115.0	0.032	31.9	13.30	11.30		76.2	76.2	113		0.5
117.5	0.033	32.6	13.30	11.30		76.2	76.2	113		0.5
120.0	0.033	33.3	13.30	11.30		76.2	76.2	113		0.5
122.5	0.034	34.0	13.30	11.30		76.2	76.2	113		0.5
125.0	0.035	34.7	13.30	11.30		76.2	76.2	113		0.5
127.5	0.035	35.4	13.30	11.30		76.2	76.2	113		0.5
130.0	0.036	36.1	13.30	11.30		76.2	76.2	113		0.5
132.5	0.037	36.8	13.30	11.30		76.2	76.2	113		0.5
135.0	0.038	37.5	13.30	11.30		76.2	76.2	113		0.5
137.5	0.038	38.2	13.30	11.30		76.2	76.2	113		0.5
140.0	0.039	38.9	13.30	11.30		76.2	76.2	113		0.5
142.5	0.040	39.6	13.30	11.30		76.2	76.2	113		0.5
145.0	0.040	40.3	13.30	11.30		76.2	76.2	113		0.5
147.5	0.041	41.0	13.30	11.30		76.2	76.2	113		0.5
150.0	0.042	41.7	13.30	11.30		76.2	76.2	113		0.5

Rugosidad Min PVC	Tub descarga Longitud	Tub colectora Longitud	Tub impulsión Longitud		Tub descarga Velocidad	Tub colectora Velocidad	Tub impulsión Velocidad	Viscosidad	Tub descarga Reynolds	Tub colectora Reynolds	Tub impulsión Reynolds	
[mm]	[m]	[m]	[m]		[m/seg]	[m/seg]	[m/seg]	[m2/seg]				
0.007	5	40	75		0.00	0.00	0.00	0.0000013	119	238	241	
0.007	5	40	75		0.05	0.10	0.07	0.0000013	2,975	5,951	6,019	
0.007	5	40	75		0.10	0.20	0.14	0.0000013	5,951	11,901	12,038	
0.007	5	40	75		0.15	0.30	0.21	0.0000013	8,926	17,852	18,057	
0.007	5	40	75		0.20	0.41	0.28	0.0000013	11,901	23,802	24,076	
0.007	5	40	75		0.25	0.51	0.35	0.0000013	14,876	29,753	30,095	
0.007	5	40	75		0.30	0.61	0.42	0.0000013	17,852	35,703	36,114	
0.007	5	40	75		0.36	0.71	0.48	0.0000013	20,827	41,654	42,133	
0.007	5	40	75		0.41	0.81	0.55	0.0000013	23,802	47,605	48,152	
0.007	5	40	75		0.46	0.91	0.62	0.0000013	26,778	53,555	54,171	
0.007	5	40	75		0.51	1.02	0.69	0.0000013	29,753	59,506	60,190	
0.007	5	40	75		0.56	1.12	0.76	0.0000013	32,728	65,456	66,209	
0.007	5	40	75		0.61	1.22	0.83	0.0000013	35,703	71,407	72,228	
0.007	5	40	75		0.66	1.32	0.90	0.0000013	38,679	77,357	78,247	
0.007	5	40	75		0.71	1.42	0.97	0.0000013	41,654	83,308	84,266	
0.007	5	40	75		0.76	1.52	1.04	0.0000013	44,629	89,258	90,285	
0.007	5	40	75		0.81	1.62	1.11	0.0000013	47,605	95,209	96,304	
0.007	5	40	75		0.86	1.73	1.18	0.0000013	50,580	101,160	102,323	
0.007	5	40	75		0.91	1.83	1.25	0.0000013	53,555	107,110	108,342	
0.007	5	40	75		0.96	1.93	1.32	0.0000013	56,530	113,061	114,361	
0.007	5	40	75		1.02	2.03	1.38	0.0000013	59,506	119,011	120,380	
0.007	5	40	75		1.07	2.13	1.45	0.0000013	62,481	124,962	126,399	
0.007	5	40	75		1.12	2.23	1.52	0.0000013	65,456	130,912	132,418	
0.007	5	40	75		1.17	2.33	1.59	0.0000013	68,431	136,863	138,437	
0.007	5	40	75		1.22	2.44	1.66	0.0000013	71,407	142,814	144,456	
0.007	5	40	75		1.27	2.54	1.73	0.0000013	74,382	148,764	150,476	
0.007	5	40	75		1.32	2.64	1.80	0.0000013	77,357	154,715	156,495	
0.007	5	40	75		1.37	2.74	1.87	0.0000013	80,333	160,665	162,514	
0.007	5	40	75		1.42	2.84	1.94	0.0000013	83,308	166,616	168,533	
0.007	5	40	75		1.47	2.94	2.01	0.0000013	86,283	172,566	174,552	
0.007	5	40	75		1.52	3.05	2.08	0.0000013	89,258	178,517	180,571	
0.007	5	40	75		1.57	3.15	2.15	0.0000013	92,234	184,467	186,590	
0.007	5	40	75		1.62	3.25	2.22	0.0000013	95,209	190,418	192,609	
0.007	5	40	75		1.68	3.35	2.29	0.0000013	98,184	196,369	198,628	
0.007	5	40	75		1.73	3.45	2.35	0.0000013	101,160	202,319	204,647	
0.007	5	40	75		1.78	3.55	2.42	0.0000013	104,135	208,270	210,666	

0.007		5	40	75		1.83	3.65	2.49		0.0000013	107,110	214,220	216,685	
0.007		5	40	75		1.88	3.76	2.56		0.0000013	110,085	220,171	222,704	
0.007		5	40	75		1.93	3.86	2.63		0.0000013	113,061	226,121	228,723	
0.007		5	40	75		1.98	3.96	2.70		0.0000013	116,036	232,072	234,742	
0.007		5	40	75		2.03	4.06	2.77		0.0000013	119,011	238,023	240,761	
0.007		5	40	75		2.08	4.16	2.84		0.0000013	121,987	243,973	246,780	
0.007		5	40	75		2.13	4.26	2.91		0.0000013	124,962	249,924	252,799	
0.007		5	40	75		2.18	4.37	2.98		0.0000013	127,937	255,874	258,818	
0.007		5	40	75		2.23	4.47	3.05		0.0000013	130,912	261,825	264,837	
0.007		5	40	75		2.28	4.57	3.12		0.0000013	133,888	267,775	270,856	
0.007		5	40	75		2.33	4.67	3.19		0.0000013	136,863	273,726	276,875	
0.007		5	40	75		2.39	4.77	3.25		0.0000013	139,838	279,676	282,894	
0.007		5	40	75		2.44	4.87	3.32		0.0000013	142,814	285,627	288,913	
0.007		5	40	75		2.49	4.97	3.39		0.0000013	145,789	291,578	294,932	
0.007		5	40	75		2.54	5.08	3.46		0.0000013	148,764	297,528	300,951	
0.007		5	40	75		2.59	5.18	3.53		0.0000013	151,739	303,479	306,970	
0.007		5	40	75		2.64	5.28	3.60		0.0000013	154,715	309,429	312,989	
0.007		5	40	75		2.69	5.38	3.67		0.0000013	157,690	315,380	319,008	
0.007		5	40	75		2.74	5.48	3.74		0.0000013	160,665	321,330	325,027	
0.007		5	40	75		2.79	5.58	3.81		0.0000013	163,640	327,281	331,046	
0.007		5	40	75		2.84	5.69	3.88		0.0000013	166,616	333,232	337,065	
0.007		5	40	75		2.89	5.79	3.95		0.0000013	169,591	339,182	343,084	
0.007		5	40	75		2.94	5.89	4.02		0.0000013	172,566	345,133	349,103	
0.007		5	40	75		2.99	5.99	4.09		0.0000013	175,542	351,083	355,122	
0.007		5	40	75		3.05	6.09	4.15		0.0000013	178,517	357,034	361,141	

Tubería vieja			Tubería Nueva			Tubería vieja			Tubería Nueva	
Tub descarga	Tub colectora	Tub impulsión	Tub descarga	Tub colectora	Tub impulsión	Tub descarga	Tub colectora	Tub impulsión	Tub descarga	Tub colectora
k/D	k/D	k/D	k/D	k/D	k/D	f	f	f	f	f
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.0330643	0.0330643	0.029373352	0.013042419	0.013042419
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033003743	0.033003743	0.029255822	0.011846528	0.011846528
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033002478	0.033002478	0.029253355	0.011814875	0.011814875
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033002745	0.033002745	0.029252533	0.011804232	0.011804232
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033002362	0.033002362	0.029252998	0.011798892	0.011798892
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033002132	0.033002132	0.029252576	0.011795683	0.011795683
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001978	0.033001978	0.029252295	0.011794463	0.011794463
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001869	0.033001869	0.029252094	0.0117928	0.0117928
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001787	0.033001787	0.029251943	0.011791552	0.011791552
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001723	0.033001723	0.029251826	0.011790581	0.011790581
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001672	0.033001672	0.029251732	0.011789804	0.011789804
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.03300163	0.03300163	0.029251655	0.011789168	0.011789168
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001595	0.033001595	0.029251591	0.011788638	0.011788638
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001566	0.033001566	0.029251537	0.01178819	0.01178819
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.03300154	0.03300154	0.029251491	0.011787805	0.011787805
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001518	0.033001518	0.029251451	0.011787472	0.011787472
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001499	0.033001499	0.029251416	0.011787181	0.011787181
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001482	0.033001482	0.029251385	0.011786923	0.011786923
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001467	0.033001467	0.029251357	0.011786694	0.011786694
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001454	0.033001454	0.029251332	0.01178649	0.01178649
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001442	0.033001442	0.02925131	0.011786305	0.011786305
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001431	0.033001431	0.02925129	0.011786139	0.011786139
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001421	0.033001421	0.029251272	0.011785987	0.011785987
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001412	0.033001412	0.029251255	0.011785849	0.011785849
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001403	0.033001403	0.02925124	0.011785722	0.011785722
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001396	0.033001396	0.029251226	0.011785605	0.011785605
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001389	0.033001389	0.029251213	0.011785498	0.011785498
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001382	0.033001382	0.029251201	0.011785398	0.011785398
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001376	0.033001376	0.02925119	0.011785305	0.011785305
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.03300137	0.03300137	0.029251179	0.011785219	0.011785219
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001365	0.033001365	0.029251169	0.011785138	0.011785138
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.03300136	0.03300136	0.02925116	0.011785063	0.011785063
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001356	0.033001356	0.029251152	0.011784992	0.011784992
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001351	0.033001351	0.029251144	0.011784926	0.011784926
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001347	0.033001347	0.029251136	0.011784864	0.011784864
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001343	0.033001343	0.029251129	0.011784805	0.011784805

0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.03300134	0.03300134	0.029251123	0.011784749	0.011784749
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001336	0.033001336	0.029251116	0.011784697	0.011784697
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001333	0.033001333	0.02925111	0.011784647	0.011784647
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.03300133	0.03300133	0.029251105	0.0117846	0.0117846
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001327	0.033001327	0.029251099	0.011784555	0.011784555
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001324	0.033001324	0.029251094	0.011784512	0.011784512
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001321	0.033001321	0.029251089	0.011784471	0.011784471
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001319	0.033001319	0.029251084	0.011784432	0.011784432
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001316	0.033001316	0.02925108	0.011784395	0.011784395
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001314	0.033001314	0.029251076	0.01178436	0.01178436
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001312	0.033001312	0.029251072	0.011784326	0.011784326
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.03300131	0.03300131	0.029251068	0.011784294	0.011784294
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001308	0.033001308	0.029251064	0.011784263	0.011784263
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001306	0.033001306	0.02925106	0.011784233	0.011784233
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001304	0.033001304	0.029251057	0.011784204	0.011784204
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001302	0.033001302	0.029251054	0.011784177	0.011784177
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.0330013	0.0330013	0.02925105	0.01178415	0.01178415
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001299	0.033001299	0.029251047	0.011784125	0.011784125
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001297	0.033001297	0.029251044	0.011784101	0.011784101
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001295	0.033001295	0.029251042	0.011784077	0.011784077
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001294	0.033001294	0.029251039	0.011784054	0.011784054
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001293	0.033001293	0.029251036	0.011784032	0.011784032
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001291	0.033001291	0.029251034	0.011784011	0.011784011
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.03300129	0.03300129	0.029251031	0.011783991	0.011783991
0.0065617	0.0065617	0.0044248	0.0000919	0.0000919	0.0000619	0.033001289	0.033001289	0.029251029	0.011783971	0.011783971

	Tubería vieja				Tubería Nueva			
Tub impulsión	Tub descarga	Tub colectora	Tub impulsión		Tub descarga	Tub colectora	Tub impulsión	NO SE
f	Perdida Fricción	Perdida Fricción	Perdida Fricción		Perdida Fricción	Perdida Fricción	Perdida Fricción	$\frac{1}{\sqrt{f}} \quad -2\log\left[\frac{k}{3,7 * D}\right]$
	[m]	[m]	[m]		[m]	[m]	[m]	
0.01305426	0.000	0.000	0.00		0.000	0.000	0.000	5.49946359
0.011081987	0.000	0.009	0.00		0.000	0.003	0.002	5.50450662
0.011018833	0.001	0.036	0.02		0.000	0.013	0.007	5.50461218
0.010997372	0.003	0.082	0.04		0.001	0.029	0.016	5.50458989
0.010986562	0.005	0.146	0.08		0.002	0.052	0.029	5.50462185
0.010980051	0.007	0.228	0.12		0.003	0.081	0.045	5.50464103
0.010975699	0.010	0.328	0.17		0.004	0.117	0.064	5.50465382
0.010973474	0.014	0.446	0.23		0.005	0.159	0.087	5.50466295
0.010971024	0.018	0.583	0.30		0.007	0.208	0.114	5.50466980
0.010969116	0.023	0.738	0.38		0.008	0.264	0.144	5.50467513
0.010967589	0.028	0.911	0.47		0.010	0.325	0.178	5.50467939
0.010966339	0.034	1.102	0.57		0.012	0.394	0.215	5.50468288
0.010965297	0.041	1.312	0.68		0.015	0.469	0.256	5.50468579
0.010964415	0.048	1.539	0.80		0.017	0.550	0.301	5.50468824
0.010963659	0.056	1.785	0.93		0.020	0.638	0.349	5.50469035
0.010963003	0.064	2.050	1.07		0.023	0.732	0.401	5.50469218
0.010962429	0.073	2.332	1.22		0.026	0.833	0.456	5.50469378
0.010961923	0.082	2.633	1.37		0.029	0.940	0.514	5.50469519
0.010961473	0.092	2.951	1.54		0.033	1.054	0.577	5.50469644
0.01096107	0.103	3.288	1.71		0.037	1.174	0.642	5.50469756
0.010960707	0.114	3.644	1.90		0.041	1.301	0.712	5.50469857
0.010960379	0.126	4.017	2.09		0.045	1.435	0.785	5.50469949
0.01096008	0.138	4.409	2.30		0.049	1.575	0.861	5.50470032
0.010959808	0.151	4.819	2.51		0.054	1.721	0.941	5.50470107
0.010959558	0.164	5.247	2.74		0.059	1.874	1.025	5.50470177
0.010959328	0.178	5.693	2.97		0.064	2.033	1.112	5.50470241
0.010959116	0.192	6.158	3.21		0.069	2.199	1.203	5.50470300
0.01095892	0.208	6.641	3.46		0.074	2.371	1.297	5.50470355
0.010958737	0.223	7.142	3.72		0.080	2.550	1.395	5.50470405
0.010958568	0.239	7.661	3.99		0.085	2.736	1.496	5.50470453
0.010958409	0.256	8.198	4.27		0.091	2.928	1.601	5.50470497
0.010958261	0.274	8.754	4.56		0.098	3.126	1.710	5.50470538
0.010958122	0.291	9.328	4.86		0.104	3.331	1.822	5.50470577
0.010957991	0.310	9.920	5.17		0.111	3.542	1.938	5.50470613
0.010957868	0.329	10.530	5.49		0.118	3.760	2.057	5.50470647
0.010957752	0.349	11.159	5.82		0.125	3.985	2.180	5.50470679

0.010957643	0.369	11.805	6.16	0.132	4.216	2.306	5.50470710
0.010957539	0.390	12.470	6.50	0.139	4.453	2.436	5.50470739
0.010957441	0.411	13.153	6.86	0.147	4.697	2.569	5.50470766
0.010957348	0.433	13.855	7.22	0.155	4.948	2.706	5.50470792
0.010957259	0.455	14.574	7.60	0.163	5.204	2.847	5.50470816
0.010957175	0.479	15.312	7.98	0.171	5.468	2.991	5.50470840
0.010957095	0.502	16.068	8.38	0.179	5.738	3.138	5.50470862
0.010957019	0.526	16.843	8.78	0.188	6.014	3.290	5.50470883
0.010956946	0.551	17.635	9.20	0.197	6.297	3.444	5.50470903
0.010956876	0.576	18.446	9.62	0.206	6.587	3.603	5.50470923
0.010956809	0.602	19.275	10.05	0.215	6.883	3.765	5.50470941
0.010956746	0.629	20.122	10.49	0.225	7.185	3.930	5.50470959
0.010956684	0.656	20.987	10.94	0.234	7.494	4.099	5.50470976
0.010956626	0.683	21.871	11.40	0.244	7.810	4.271	5.50470992
0.010956569	0.712	22.773	11.87	0.254	8.132	4.448	5.50471008
0.010956515	0.740	23.693	12.35	0.264	8.460	4.627	5.50471023
0.010956463	0.770	24.631	12.84	0.275	8.795	4.810	5.50471038
0.010956413	0.800	25.587	13.34	0.286	9.137	4.997	5.50471052
0.010956365	0.830	26.562	13.85	0.296	9.485	5.188	5.50471065
0.010956318	0.861	27.555	14.37	0.307	9.839	5.381	5.50471078
0.010956274	0.893	28.566	14.89	0.319	10.200	5.579	5.50471090
0.01095623	0.925	29.595	15.43	0.330	10.568	5.780	5.50471102
0.010956189	0.958	30.643	15.98	0.342	10.942	5.984	5.50471114
0.010956148	0.991	31.709	16.53	0.354	11.322	6.193	5.50471125
0.010956109	1.025	32.793	17.10	0.366	11.709	6.404	5.50471136

UTILIZA								
$+ \frac{2,51}{Re \cdot \sqrt{f}} \Bigg]$		Tub descarga Coef K	Tub colectora Coef K	Tub impulsión Coef K	Tub descarga Pérdida Loc	Tub colectora Pérdida Loc	Tub impulsión Pérdida Loc	Tubería Vieja Curva Sistema
		Accesorios	Accesorios	Accesorios	[m]	[m]	[m]	
1.85800776		4.5	0.45	0.9	0.00	0.00	0.00	13.300
4.38531886		4.5	0.45	0.9	0.00	0.00	0.00	13.315
4.77542409		4.5	0.45	0.9	0.00	0.00	0.00	13.361
4.95737069		4.5	0.45	0.9	0.01	0.00	0.00	13.437
5.06496846		4.5	0.45	0.9	0.01	0.00	0.00	13.543
5.13656841		4.5	0.45	0.9	0.01	0.01	0.01	13.680
5.18780656		4.5	0.45	0.9	0.02	0.01	0.01	13.847
5.22634904		4.5	0.45	0.9	0.03	0.01	0.01	14.044
5.25642156		4.5	0.45	0.9	0.04	0.02	0.01	14.272
5.28055310		4.5	0.45	0.9	0.05	0.02	0.02	14.531
5.30035301		4.5	0.45	0.9	0.06	0.02	0.02	14.819
5.31689555		4.5	0.45	0.9	0.07	0.03	0.03	15.138
5.33092584		4.5	0.45	0.9	0.09	0.03	0.03	15.488
5.34297725		4.5	0.45	0.9	0.10	0.04	0.04	15.867
5.35344181		4.5	0.45	0.9	0.12	0.05	0.04	16.278
5.36261423		4.5	0.45	0.9	0.13	0.05	0.05	16.718
5.37072033		4.5	0.45	0.9	0.15	0.06	0.06	17.189
5.37793614		4.5	0.45	0.9	0.17	0.07	0.06	17.690
5.38440092		4.5	0.45	0.9	0.19	0.08	0.07	18.222
5.39022626		4.5	0.45	0.9	0.21	0.09	0.08	18.784
5.39550269		4.5	0.45	0.9	0.24	0.09	0.09	19.377
5.40030438		4.5	0.45	0.9	0.26	0.10	0.10	20.000
5.40469270		4.5	0.45	0.9	0.29	0.11	0.11	20.653
5.40871889		4.5	0.45	0.9	0.31	0.13	0.12	21.336
5.41242604		4.5	0.45	0.9	0.34	0.14	0.13	22.050
5.41585064		4.5	0.45	0.9	0.37	0.15	0.14	22.795
5.41902384		4.5	0.45	0.9	0.40	0.16	0.15	23.570
5.42197236		4.5	0.45	0.9	0.43	0.17	0.16	24.375
5.42471927		4.5	0.45	0.9	0.46	0.19	0.17	25.210
5.42728457		4.5	0.45	0.9	0.50	0.20	0.19	26.076
5.42968570		4.5	0.45	0.9	0.53	0.21	0.20	26.972
5.43193795		4.5	0.45	0.9	0.57	0.23	0.21	27.899
5.43405474		4.5	0.45	0.9	0.61	0.24	0.23	28.856
5.43604796		4.5	0.45	0.9	0.64	0.26	0.24	29.844
5.43792812		4.5	0.45	0.9	0.68	0.27	0.25	30.861
5.43970458		4.5	0.45	0.9	0.72	0.29	0.27	31.910

5.44138568		4.5	0.45	0.9		0.77	0.31	0.29		32.988
5.44297892		4.5	0.45	0.9		0.81	0.32	0.30		34.097
5.44449100		4.5	0.45	0.9		0.85	0.34	0.32		35.237
5.44592798		4.5	0.45	0.9		0.90	0.36	0.33		36.406
5.44729531		4.5	0.45	0.9		0.95	0.38	0.35		37.607
5.44859795		4.5	0.45	0.9		0.99	0.40	0.37		38.837
5.44984037		4.5	0.45	0.9		1.04	0.42	0.39		40.098
5.45102667		4.5	0.45	0.9		1.09	0.44	0.41		41.389
5.45216055		4.5	0.45	0.9		1.15	0.46	0.43		42.711
5.45324543		4.5	0.45	0.9		1.20	0.48	0.45		44.063
5.45428441		4.5	0.45	0.9		1.25	0.50	0.47		45.445
5.45528034		4.5	0.45	0.9		1.31	0.52	0.49		46.858
5.45623584		4.5	0.45	0.9		1.36	0.55	0.51		48.301
5.45715334		4.5	0.45	0.9		1.42	0.57	0.53		49.775
5.45803505		4.5	0.45	0.9		1.48	0.59	0.55		51.279
5.45888302		4.5	0.45	0.9		1.54	0.62	0.57		52.813
5.45969916		4.5	0.45	0.9		1.60	0.64	0.60		54.378
5.46048523		4.5	0.45	0.9		1.66	0.66	0.62		55.973
5.46124286		4.5	0.45	0.9		1.72	0.69	0.64		57.599
5.46197357		4.5	0.45	0.9		1.79	0.72	0.67		59.254
5.46267876		4.5	0.45	0.9		1.86	0.74	0.69		60.941
5.46335975		4.5	0.45	0.9		1.92	0.77	0.72		62.657
5.46401776		4.5	0.45	0.9		1.99	0.80	0.74		64.404
5.46465394		4.5	0.45	0.9		2.06	0.82	0.77		66.182
5.46526936		4.5	0.45	0.9		2.13	0.85	0.79		67.990

Tuberia Nueva
Curva Sistema
11.300
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