



Industrias Valdés, S. A. de C. V.

TUBERIA DE CONDUCCION



PERDIDAS POR FRICCION PARA AGUA EN METROS POR CADA 100 METROS
(ó EN PIES POR CADA 100 PIES)

L.P.S.	G.P.M.	ACERO	ASBESTO	PVC	ACERO	ASBESTO	PVC	ACERO	ASBESTO	PVC
		4"			6"			8"		
4	63.4	0.522	0.299	0.246						
5	79.3	0.788	0.452	0.372						
6	95.1	1.104	0.634	0.522						
8	126.8	1.880	1.079	0.888						
10	158.5	2.841	1.631	1.342	0.396	0.227	0.187			
12	190.2	3.980	2.285	1.880	0.555	0.318	0.262			
14	221.9	5.294	3.039	2.501	0.738	0.424	0.348			
16	253.6	6.778	3.890	3.201	0.944	0.542	0.446			
18	285.3	8.428	4.837	3.981	1.174	0.674	0.555			
20	317.0	10.241	5.878	4.837	1.427	0.819	0.674			
22	348.7	12.216	7.011	5.770	1.702	0.977	0.804	0.420	0.241	0.199
24	380.4	14.350	8.236	6.778	2.000	1.148	0.944	0.494	0.284	0.233
26	412.1	16.640	9.551	7.859	2.319	1.331	1.095	0.573	0.329	0.271
28	443.8	19.085	10.954	9.014	2.659	1.527	1.256	0.657	0.377	0.310
30	475.5	21.683	12.445	10.242	3.021	1.735	1.427	0.746	0.429	0.353
32	507.2	24.433	14.023	11.540	3.405	1.955	1.608	0.841	0.483	0.397
34	538.9	27.333	15.688	12.910	3.809	2.187	1.799	0.941	0.540	0.445
36	570.6				4.234	2.430	1.999	1.046	0.600	0.494
38	602.3				4.679	2.686	2.210	1.156	0.664	0.546
40	634.0				5.145	2.953	2.430	1.271	0.730	0.601
42	665.7				5.631	3.232	2.659	1.391	0.799	0.657
45	713.3				6.397	3.673	3.021	1.580	0.907	0.747
50	792.5				7.774	4.463	3.671	1.920	1.103	0.907
55	871.8				9.273	5.323	4.379	2.290	1.315	1.082
58	919.3				10.230	5.873	4.831	2.527	1.451	1.194
61	966.9				11.231	6.447	5.304	2.774	1.593	1.311
65	1,030.3				12.631	7.251	5.965	3.120	1.791	1.474
68	1,077.8				13.730	7.883	6.485	3.391	1.947	1.603
71	1,125.4							3.673	2.109	1.736
74	1,172.9							3.965	2.277	1.874
77	1,220.5							4.268	2.451	2.017
80	1,268.0							4.580	2.631	2.165
85	1,347.3							5.124	2.943	2.422
90	1,426.5							5.696	3.271	2.692
95	1,505.8							6.295	3.615	2.975
100	1,585.0							6.921	3.975	3.271
105	1,664.3							7.575	4.350	3.580
110	1,743.5							8.256	4.741	3.902
115	1,822.8							8.964	5.148	4.237
120	1,902.0							9.698	5.569	4.584
125	1,981.3							10.459	6.006	4.943
130	2,060.5							11.246	6.458	5.315
135	2,139.8							12.059	6.925	5.700
140	2,219.0							12.898	7.407	6.096
145	2,298.3							13.763	7.904	6.505
150	2,377.5							14.654	8.416	6.926



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L.P.S.	G.P.M.	ACERO	ASBESTO	PVC	ACERO	ASBESTO	PVC	ACERO	ASBESTO	PVC
		10"			12"					
45	713.3	0.535	0.306	0.252						
50	792.5	0.650	0.372	0.307						
55	871.8	0.776	0.444	0.366						
60	951.0	0.911	0.522	0.430						
65	1,030.3	1.057	0.605	0.498						
70	1,109.5	1.212	0.694	0.572	0.499	0.286	0.236			
75	1,188.8	1.377	0.788	0.650	0.567	0.325	0.268			
80	1,268.0	1.552	0.888	0.732	0.639	0.367	0.302			
85	1,347.3	1.736	0.993	0.819	0.715	0.410	0.337			
90	1,426.5	1.930	1.104	0.910	0.794	0.456	0.375			
95	1,505.8	2.133	1.220	1.006	0.878	0.504	0.415			
100	1,585.0	2.345	1.342	1.106	0.965	0.554	0.456			
105	1,664.3	2.566	1.469	1.210	1.056	0.606	0.499			
110	1,743.5	2.797	1.601	1.319	1.151	0.661	0.544			
115	1,822.8	3.037	1.738	1.432	1.250	0.717	0.590			
125	1,981.3	3.543	2.028	1.671	1.458	0.837	0.689			
130	2,060.5	3.810	2.180	1.797	1.568	0.900	0.741			
140	2,219.0	4.370	2.501	2.061	1.799	1.032	0.849			
145	2,298.3	4.663	2.668	2.199	1.919	1.102	0.906			
150	2,377.5	4.965	2.841	2.342	2.044	1.173	0.965			
155	2,456.8	5.275	3.019	2.488	2.171	1.246	1.025			
160	2,536.0	5.594	3.201	2.639	2.303	1.322	1.087			
165	2,615.3	5.922	3.389	2.793	2.438	1.399	1.151			
170	2,694.5	6.258	3.581	2.952	2.576	1.479	12.170			
175	2,773.8	6.603	3.779	3.114	2.718	1.560	1.284			
180	2,853.0	6.956	3.981	3.281	2.863	1.643	1.352			
185	2,932.3	7.318	4.188	3.452	3.012	1.729	1.423			
190	3,011.5	7.688	4.400	3.626	3.165	1.816	1.494			
195	3,090.8	8.066	4.616	3.805	3.320	1.906	1.568			
200	3,170.0	8.453	4.838	3.987	3.480	1.997	1.643			
205	3,249.3				3.642	2.091	1.720			
210	3,328.5				3.808	2.186	1.798			
215	3,407.8				3.978	2.283	1.878			
220	3,487.0				4.150	2.382	1.960			
225	3,566.3				4.327	2.483	2.043			
230	3,645.5				4.506	2.586	2.128			
235	3,724.8				4.689	2.691	2.214			
240	3,804.0				4.875	2.798	2.302			
245	3,883.3				5.065	2.907	2.392			
250	3,962.5				5.258	3.018	2.483			