

# AquaFuse<sup>®</sup>

## HDPE piping systems



AquaFuse<sup>®</sup>, made from high density polyethylene (HDPE), delivers exceptional value, unwavering reliability and remarkable advantages over conventional piping systems. AquaFuse by CMF Global is the right choice for all irrigation and all pressure applications. HDPE piping is the superior choice because it is a complete system including AquaFuse HDPE pipe, AquaFuse HDPE valves and AquaFuse HDPE fittings, and features:

- Long-term service life
- 25-Year Limited Warranty
- Highly-resistant to corrosion, abrasion and chemicals
- Strong, durable, flexible and lightweight
- Longer-lengths of pipe, available in both coils and up to 50' sticks
- Lower labor requirements for installations
- Significant overall cost savings

High density polyethylene (HDPE) has been used for municipal and industrial applications for almost 50 years. Fully fused joints create a leak-free, self-restrained, monolithic pipe system that allows the pipe to be pulled from one area to another with minimum disruption to traffic or the environment; the fused joint will also eliminate infiltration into the pipe and exfiltration into the environment. Other benefits of AquaFuse HDPE systems include chemical, abrasion, fatigue, seismic and corrosion resistance.

HDPE has been used in drinking water pipe applications for almost 50 years and now carries a 100 year design life! HDPE is specified and/or approved in AWWA C901, AWWA C906, NSF 14, NSF 16 and ASTM D3035. It is a proven product in rugged terrains, extreme climates and changing site environments.



AquaFuse is available in sizes from 1" to 54" and some sizes can be ordered in coils, reels or sticks. The long lengths eliminate multiple joints. AquaFuse is rated for recurrent surges to 1.5 times the rated pressure, and occasional surges to two times the rated pressure. This eliminates the water hammer problem that other piping systems have always endured.

Installation of AquaFuse is simple and cost effective. HDPE pipe can bend to follow curves and route around obstacles. CMF's AquaFuse can be bent to a radius up to 25 times the diameter. Other piping systems require a series of glued or gasketed joints increasing the possibility of leakage. Tapping the HDPE irrigation pipe is simple with threaded connections, fusion connections and mechanical saddles for sprinklers and valves.

Our CMF Global Team members provide full, onsite technical support worldwide and are available to assist in your design, whether it's a golf course, soccer field or commercial irrigation or a potable/municipal water application.



**In Fusion We Trust<sup>™</sup>** AquaFuse<sup>™</sup> by CMF GLOBAL [www.aqua-fuse.com](http://www.aqua-fuse.com)  
2445 Fenton Street ■ Chula Vista, CA 91914-3517 ■ Telephone: 619-869-8919 ■ Fax: 619-330-4532  
1-877-586-6060 24 Hour Technical Hotline ■ 25 YEAR LIMITED SYSTEM WARRANTY  
PRODUCT INSTALLATION TRAINING AVAILABLE



[www.aqua-fuse.com](http://www.aqua-fuse.com)

IPS SIZE	AVG OD	DR PR	7 336	7.3 320	9 252	11 202	13.5 161	15.5 139	17 126	19 112	21 101	26 81	32.5 64
		Min wall	0.188	0.180	0.146	0.120							
		Avg ID	0.917	0.933	1.005	1.062							
		lb/ft	0.288	0.278	0.232	0.195							
		Min wall	0.237	0.227	0.184	0.151							
		Avg ID	1.157	1.178	1.269	1.340							
		lb/ft	0.459	0.442	0.369	0.310							
		Min wall	0.271	0.260	0.211	0.173							
		Avg ID	1.325	1.348	1.452	1.534							
		lb/ft	0.600	0.580	0.485	0.406							
		Min wall	0.339	0.325	0.264	0.216	0.176	0.153	0.140				
		Avg ID	1.656	1.685	1.816	1.917	2.002	2.050	2.079				
		lb/ft	0.939	0.906	0.758	0.634	0.526	0.462	0.425				
		Min wall	0.411	0.394	0.319	0.261	0.213	0.185	0.169				
		Avg ID	2.004	2.040	2.198	2.321	2.424	2.482	2.516				
		lb/ft	1.377	1.329	1.109	0.928	0.771	0.677	0.622				
		Min wall	0.500	0.479	0.389	0.318	0.259	0.226	0.206	0.184	0.167		
		Avg ID	2.440	2.484	2.676	2.825	2.950	3.021	3.064	3.109	3.147		
		lb/ft	2.040	1.968	1.646	1.376	1.141	1.006	0.923	0.830	0.757		
		Min wall	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.237	0.214	0.173	0.138
		Avg ID	3.137	3.193	3.440	3.633	3.793	3.885	3.939	3.998	4.046	4.133	4.206
		lb/ft	3.372	3.253	2.720	2.275	1.887	1.660	1.526	1.374	1.247	1.018	0.819
		Min wall	0.795	0.762	0.618	0.506	0.412	0.359	0.327	0.293	0.265	0.214	0.171
		Avg ID	3.878	3.947	4.253	4.491	4.689	4.802	4.869	4.942	5.001	5.109	5.200
		lb/ft	5.154	4.975	4.156	3.479	2.886	2.540	2.328	2.100	1.909	1.557	1.254
		Min wall	0.946	0.908	0.736	0.602	0.491	0.427	0.390	0.349	0.315	0.255	0.204
		Avg ID	4.619	4.701	5.064	5.348	5.585	5.719	5.799	5.886	5.956	6.085	6.193
		lb/ft	7.305	7.059	5.894	4.930	4.095	3.599	3.307	2.978	2.703	2.209	1.781
		Min wall							0.419	0.375	0.339	0.274	0.219
		Avg ID							6.236	6.330	6.406	6.544	6.660
		lb/ft							3.821	3.442	3.128	2.553	2.057
		Min wall	1.232	1.182	0.958	0.784	0.639	0.556	0.507	0.454	0.411	0.332	0.265
		Avg ID	6.013	6.120	6.593	6.963	7.271	7.445	7.549	7.663	7.754	7.922	8.062
		lb/ft	12.385	11.963	9.988	8.359	6.939	6.100	5.597	5.044	4.591	3.744	3.012
		Min wall	1.536	1.473	1.194	0.977	0.796	0.694	0.632	0.566	0.512	0.413	0.331
		Avg ID	7.494	7.628	8.218	8.678	9.062	9.280	9.409	9.551	9.665	9.873	10.049
		lb/ft	19.245	18.581	15.515	12.983	10.774	9.490	8.695	7.838	7.128	5.805	4.689
		Min wall	1.821	1.747	1.417	1.159	0.944	0.823	0.750	0.671	0.607	0.490	0.392
		Avg ID	8.889	9.047	9.747	10.293	10.748	11.006	11.160	11.327	11.463	11.710	11.918
		lb/ft	27.062	26.138	21.837	18.267	15.155	13.348	12.238	11.021	10.023	8.169	6.587
		Min wall	2.000	1.918	1.556	1.273	1.037	0.903	0.824	0.737	0.667	0.538	0.431
		Avg ID	9.760	9.934	10.702	11.302	11.801	12.085	12.254	12.438	12.587	12.858	13.087
		lb/ft	32.635	31.511	26.329	22.030	18.279	16.082	14.763	13.292	12.093	9.848	7.952
		Min wall	2.286	2.192	1.778	1.455	1.185	1.032	0.941	0.842	0.762	0.615	0.492
		Avg ID	11.154	11.353	12.231	12.916	13.487	13.812	14.005	14.215	14.385	14.695	14.956
		lb/ft	42.629	41.157	34.364	28.777	23.872	21.005	19.269	17.355	15.789	12.866	10.375
		Min wall	2.571	2.466	2.000	1.636	1.333	1.161	1.059	0.947	0.857	0.692	0.554
		Avg ID	12.549	12.773	13.760	14.531	15.173	15.538	15.755	15.992	16.183	16.532	16.826
		lb/ft	53.940	52.089	43.513	36.403	30.210	26.584	24.395	21.959	19.977	16.286	13.142
		Min wall	2.857	2.740	2.222	1.818	1.481	1.290	1.176	1.053	0.952	0.769	0.615
		Avg ID	13.943	14.192	15.289	16.145	16.859	17.265	17.506	17.768	17.981	18.369	18.695
		lb/ft	66.599	64.307	53.715	44.947	37.294	32.820	30.102	27.129	24.658	20.109	16.211
		Min wall	3.143	3.014	2.444	2.000	1.630	1.419	1.294	1.158	1.048	0.846	0.677
		Avg ID	15.337	15.611	16.818	17.760	18.545	18.991	19.256	19.545	19.779	20.206	20.565
		lb/ft	80.591	77.812	64.991	54.391	45.149	39.712	36.433	32.818	29.858	24.335	19.629
		Min wall	3.429	3.288	2.667	2.182	1.778	1.548	1.412	1.263	1.143	0.923	0.738
		Avg ID	16.731	17.030	18.347	19.375	20.231	20.717	21.007	21.322	21.577	22.043	22.434
		lb/ft	95.916	92.603	77.365	64.735	53.726	47.260	43.369	39.049	35.525	28.963	23.344
		Min wall	3.562	2.889	2.364	1.926	1.677	1.529	1.368	1.238	1.100	0.800	0.615
		Avg ID	18.449	19.876	20.989	21.917	22.444	22.758	23.099	23.375	23.880	24.304	24.304
		lb/ft	110.769	92.535	77.440	64.261	56.532	51.856	46.701	42.486	34.648	27.940	22.434
		Min wall		3.111	2.545	2.074	1.806	1.647	1.474	1.333	1.077	0.862	0.615
		Avg ID		21.404	22.604	23.603	24.170	24.508	24.876	25.173	25.717	26.174	26.174
		lb/ft		107.312	89.785	74.522	65.563	60.154	54.189	49.266	40.187	32.421	26.174
		Min wall		3.333	2.727	2.222	1.935	1.765	1.579	1.429	1.154	0.923	0.615
		Avg ID		22.933	24.218	25.289	25.897	26.259	26.653	26.971	27.554	28.043	28.043
		lb/ft		123.183	103.076	85.543	75.264	69.068	62.196	56.585	46.135	37.196	28.043
		Min wall		3.556	2.909	2.370	2.065	1.882	1.684	1.524	1.231	0.985	0.615
		Avg ID		24.462	25.833	26.975	27.623	28.009	28.429	28.770	29.391	29.913	29.913
		lb/ft		140.183	117.285	97.324	85.672	78.557	70.755	64.370	52.494	42.340	32.421
		Min wall			3.091	2.519	2.194	2.000	1.789	1.619	1.308	1.046	0.615
		Avg ID			27.447	28.661	29.350	29.760	30.206	30.568	31.228	31.782	31.782
		lb/ft			132.411	109.905	96.714	88.700	79.865	72.657	59.264	47.773	37.196
		Min wall			3.273	2.667	2.323	2.118	1.895	1.714	1.385	1.108	0.615
		Avg ID			29.062	30.347	31.076	31.511	31.983	32.366	33.065	33.652	33.652
		lb/ft			148.454	123.208	108.424	99.457	89.571	81.446	66.444	53.581	42.340
		Min wall				3.111	2.710	2.471	2.211	2.000	1.615	1.292	0.615
		Avg ID				35.404	36.255	36.762	37.314	37.760	38.575	39.260	39.260
		lb/ft				167.675	147.568	135.372	121.925	110.874	90.393	72.893	58.043
		Min wall					3.097	2.824	2.526	2.286	1.846	1.477	0.615
		Avg ID					41.435	42.014	42.644	43.154	44.086	44.869	44.869
		lb/ft					192.774	176.813	159.198	144.833	118.082	95.233	76.174
		Min wall						3.176	2.842	2.571	2.077	1.662	0.615
		Avg ID						47.266	47.975	48.549	49.597	50.478	50.478
		lb/ft						223.713	201.502	183.253	149.464	120.556	95.233