

Stainless Steel Piping Products Cold Drawn or Hot Finished

Eagle furnishes a full line of stainless steel pipe, fittings and flanges to handle any problem involving corrosion, temperature or pressure. We serve all major industries including chemical, petrochemical, nuclear, cryogenics, food, paper and pollution control.

In addition to stainless steel, Eagle can provide corrosion resistant piping products in such materials as aluminum, nickel alloys and special alloys.



Ordering Your Piping

Pipe is ordinarily ordered by its nominal diameter (pipe size) and wall thickness which is specified by a schedule number. The convenient Pipe Selection Guide at the right shows schedules with corresponding wall thicknesses as well as weights in pounds per foot of pipe length.

Stainless Steel Pipe

Eagle seamless and welded austenitic stainless steel pipe is **stocked in the annealed and pickled condition**, making it suitable for welding, bending, and fabrication of all kinds.

Permissible size variations are shown in Table 1-2 below.

All Eagle seamless and welded stainless steel pipe can be furnished with complete mill test reports including all chemical and mechanical data. Additional testing, including 100% X-Ray Test, Charpy Test, Dye Penetrant Test, etc., is available at an additional cost.

Seamless Stainless Steel Pipe

Cold drawn and hot finished seamless pipe can be certified to ASTM A-312, ASME SA-312. Selected sizes of cold drawn pipe also meet MIL-P-1144D, which is similar to ASTM A-312, but with the important addition of an acidified copper sulfate test. Hot finished pipe will not meet MIL-P-1144D because of surface finish requirements. When surface finish is not a critical consideration, hot finished pipe is a more economical product.

Cold Drawn Pipe – is available from 1/8" I.P.S. to 8" I.P.S. in all wall thicknesses.

Hot Finished Pipe – is available in selected sizes to meet competitive market conditions.

Welded Stainless Steel Pipe

Eagle welded stainless steel pipe is supplied in the full finished condition. It has been annealed and pickled and meets all aspects of ASTM A-312, ASME SA-312 and MIL-P-1144D. The weld bead has been cold worked to recrystallize the cast structure providing a flush condition on both the O.D. and the I.D. surfaces.

**Table 1-2
Austenitic Stainless Steel Pipe*
Seamless and Welded - Permissible Variations**

Nominal Pipe Size, Inches	Outside Diameter, Inches		
	Over	Under	Wall
1/8 to 1-1/2, incl.	1/64 (0.015)	1/32 (0.031)	
Over 1-1/2 to 4, incl.	1/32 (0.031)	1/32 (0.031)	
Over 4 to 8, incl.	1/16 (0.062)	1/32 (0.031)	-12.5%
Over 8 to 18, incl.	3/32 (0.092)	1/32 (0.031)	
Over 18 to 24, incl.	1/8 (0.125)	1/32 (0.031)	

* Note: For dimensions and weights see opposite page.

Pipe Selection Guide

• **GREEN Figures** - indicate wall thickness in inches • **BLACK Figures** - indicate weight in pounds/foot (Aluminum pipe weighs roughly one third as much as steel pipe)

Seamless & Welded Stainless Steel Pipe • A.S.A. Pipe Schedules

Pipe Size	O.D. (Inches)	5S	5	10S	10	20	30	40S & Standard	40	60	80S & Extra Heavy	80	100	120	140	160	Double Extra Heavy
1/8	.405		.035	.049	.049			.068	.068		.095	.095					
			.1383	.1863	.1863			.2447	.2447		.3145	.3145					
1/4	.540		.049	.065	.065			.088	.088		.119	.119					
			.2570	.3297	.3297			.4248	.4248		.5351	.5351					
3/8	.675		.049	.065	.065			.091	.091		.126	.126					
			.3276	.4235	.4235			.5676	.5676		.7388	.7388					
1/2	.840	.065	.065	.083	.083			.109	.109		.147	.147				.187	.294
		.5383	.5383	.6710	.6710			.8510	.8510		1.088	1.088				1.304	1.714
3/4	1.050	.065	.065	.083	.083			.113	.113		.154	.154				.218	.308
		.6838	.6838	.8527	.8527			1.131	1.131		1.474	1.474				1.937	2.441
1	1.315	.065	.065	.109	.109			.133	.133		.179	.179				.250	.358
		.8678	.8678	1.404	1.404			1.679	1.679		2.172	2.172				2.844	3.659
1-1/4	1.660	.065	.065	.109	.109			.140	.140		.191	.191				.250	.382
		1.107	1.107	1.806	1.806			2.273	2.273		2.997	2.997				3.765	5.214
1-1/2	1.900	.065	.065	.109	.109			.145	.145		.200	.200				.281	.400
		1.274	1.274	2.085	2.085			2.718	2.718		3.631	3.631				4.859	6.408
2	2.375	.065	.065	.109	.109			.154	.154		.218	.218				.343	.436
		1.604	1.604	2.638	2.638			3.653	3.653		5.022	5.022				7.444	9.029
2-1/2	2.875	.083	.083	.120	.120			.203	.203		.276	.276				.375	.552
		2.475	2.475	3.531	3.531			5.793	5.793		7.661	7.661				10.01	13.70
3	3.500	.083	.083	.120	.120			.216	.216		.300	.300				.437	.600
		3.029	3.029	4.332	4.332			7.576	7.576		10.25	10.25				14.32	18.58
3-1/2	4.000	.083	.083	.120	.120			.226	.226		.300	.300				.437	.600
		3.472	3.472	4.973	4.973			9.109	9.109		12.51	12.51					22.85
4	4.500	.083	.083	.120	.120			.237	.237	.281	.337	.337	.437			.531	.674
		3.915	3.915	5.613	5.613			10.79	10.79	12.66	14.98	14.98	19.01			22.51	27.54
4-1/2	5.000							.247			.355						.710
								12.53			17.61						32.53
5	5.563	.109	.109	.134	.134			.258	.258		.375	.375	.500			.625	.750
		6.349	6.349	7.770	7.770			14.62	14.62		20.78	20.78	27.04			32.96	38.55
6	6.625	.109	.109	.134	.134			.280	.280		.432	.432	.562			.718	.864
		7.585	7.585	9.289	9.289			18.97	18.97		28.57	28.57	36.39			45.30	53.16
7	7.625							.301			.500						.875
								25.57			38.05						63.08
8	8.625	.109	.109	.148	.148	.250	.277	.322	.322	.406	.500	.500	.593	.718	.812	.906	.875
		9.914	9.914	13.40	13.40	22.36	24.70	28.55	28.55	35.64	43.39	43.39	50.87	60.93	67.76	74.69	72.42
9	9.625							.342			.500						
								33.90			48.72						
10	10.750	.134	.134	.165	.165	.250	.307	.365	.365	.500	.500	.593	.718	.843	1.000	1.125	
		15.19	15.19	18.70	18.70	28.04	34.24	40.48	40.48	54.74	54.74	64.33	76.93	89.20	104.1	115.7	
11	11.750							.375			.500						
								45.55			60.07						
12	12.750	.156	.165	.180	.180	.250	.330	.375	.406	.562	.500	.687	.843	1.000	1.125	1.312	
		21.07	22.18	24.20	24.20	33.38	43.77	49.56	53.53	73.16	65.42	88.51	107.2	125.5	139.7	160.3	
14	14.000	.156		.188	.250	.312	.375	.375	.437	.593	.500	.750	.937	1.093	1.250	1.406	
		23.07		27.73	36.71	45.68	54.57	54.57	63.37	84.91	72.09	106.1	130.7	150.7	170.2	189.1	
16	16.000	.165		.188	.250	.312	.375	.375	.500	.656	.500	.843	1.031	1.218	1.437	1.593	
		27.90		31.75	42.05	52.36	62.58	62.58	82.77	107.5	82.77	136.5	164.8	192.3	223.5	245.1	
18	18.000	.165		.188	.250	.312	.437	.375	.562	.750	.500	.937	1.156	1.375	1.562	1.781	
		31.43		35.76	47.39	59.03	82.06	70.59	104.8	138.2	93.45	170.8	208.0	244.1	274.2	308.5	
20	20.000	.188		.218	.250	.375	.500	.375	.593	.812	.500	1.031	1.280	1.500	1.750	1.968	
		39.78		46.05	52.73	78.60	104.1	78.60	122.9	166.4	104.1	208.9	256.1	296.4	341.1	379.0	
24	24.000	.218		.250	.250	.375	.562	.375	.687	.968	.500	1.218	1.531	1.812	2.062	2.343	
		55.37		63.41	63.41	94.62	140.8	94.62	171.2	238.1	125.5	296.4	367.4	429.4	483.1	541.9	