

warren alloy

Product Line

warren alloy

Valves – Fittings
Flanges – Pipe – Tubing

warren Valves

Types:	Gate, Globe, Swing Check, Lift Check, Ball Check, Wafer Check, Ball, Needle & Strainer (cast and forged)
Sizes:	1/8" - 30"
Pressures:	Class 150-200-300-600-800-900-1500 and 800 WOG to 10,800 WOG
End Connections:	Flanged, Threaded, Socket Weld & Butt Weld
Grades:	Stainless Steel (316, 316L, 304, 304L, 347, 321), Alloy 20, Nickel Alloys & Carbon X Stainless
Modifications, Options & Services:	• Packings/Gaskets • Seats & Seals • Trim • Cryogenic • Extended Bonnet • Stem Extension • Oval Handles • By-Pass • Bleed Hole • Steam Jacket • Inserts on Disc • Lever & Weight • Actuation • Gears • Oxygen Service Cleaning

Butt Weld Fittings

Types:	90 Ells, SR 90 Ells, Reducing 90 Ells, 45 Ells, Tees, Reducing Tees, Concentrics, Eccentrics, Caps, Stub ends, Crosses, Laterals and Return bends
Sizes:	1/2" thru 36"
Wall Dimensions:	Schedule 5 thru XXH
Grades:	Stainless Steel (304/304L, 316/316L), Duplex 2205, Alloy 20, C276, Alloy 600, Aluminum & Chrome Moly (WP 11, WP 5, WP 9)

Pressure Fittings

Types:	90 Ells, 45 Ells, Street Ells, Tees, Crosses, Couplings, Reducers, Inserts, Caps, Unions, Laterals, Bushings and Plugs
Sizes:	1/8" - 4"
Pressures:	150# - 2000# - 3000# - 6000#
End Connections:	Threaded and Socket Weld
Grades:	Stainless Steel (304/304L, 316/316L), Duplex 2205, Alloy 20, Nickel 200/201, C276, Alloy 400, Alloy 600 and Aluminum

Specialty Fittings

Types:	Full Range of Nipples, Swages and Outlets
Grades:	Stainless Steel (304/304L, 316/316L), Duplex 2205, Alloy 20, Nickel 200/201, C276, Alloy 400, Alloy 600 and Aluminum

Flanges

Types:	Weld Neck, Slip-On, Socket Weld, Threaded, Blinds, Lap Joint, Reducing & Orifice
Sizes:	1/2" thru 36"
Pressures:	150# thru 2500#
Bores:	Schedule 5 thru XXH
Grades:	Stainless Steel (304/304L, 316/316L), Duplex 2205, Alloy 20, C276, Alloy 600 Aluminum and Chrome Moly (F 11, F 5, F 9)

Pipe

Types:	Welded and Seamless
Sizes:	1/4" thru 30"
Wall Dimensions:	Schedule 5 thru XXH
Grades:	Stainless Steel (304/304L, 316/316L), Duplex 2205, Alloy 20, C276, Alloy 600 and Aluminum
Services:	Pipe cutting

Exotic Alloy Tubing

Types:	Welded and Seamless
Sizes:	1/8" thru 1"
Wall Dimensions:	.035 - .095
Grades:	Alloy 20, Alloy 200/201, C276, Alloy 400, Alloy 600, Alloy 625, Alloy 800H/HT and Alloy 825.
	Other grades available upon request: Duplex 2205, Duplex 2507, 254SMO, AL6XN, 6 Moly and 317L

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PIPE DIMENSIONS AND WEIGHTS

PIPE SCHEDULES

PIPE SIZE	O.D. in INCHES	5S	5	10S	TRUE 10	20	30	40S & STD	TRUE 40	60	80S & XS	TRUE 80	100	120	140	160	XXS
1/8	.405		.035 .1383	.049 .1863	.049 .1863			.068 .2447	.068 .2447		.095 .3145	.095 .3145					
1/4	.540		.049 .2570	.065 .3297	.065 .3297			.088 .4248	.088 .4248		.119 .5351	.119 .5351					
3/8	.675		.049 .3276	.065 .4235	.065 .4235			.091 .5676	.091 .5676		.126 .7388	.126 .7388					
1/2	.840	.065 .5383	.065 .5383	.083 .6710	.083 .6710			.109 .8510	.109 .8510		.147 1.088	.147 1.088				.187 1.304	.294 1.714
3/4	1.050	.065 .6838	.065 .6838	.083 .8572	.083 .8572			.113 1.131	.113 1.131		.154 1.474	.154 1.474				.218 1.937	.308 2.441
1	1.315	.065 .8678	.065 .8678	.109 1.404	.109 1.404			.133 1.679	.133 1.679		.179 2.172	.179 2.172				.250 2.844	.358 3.659
1-1/4	1.660	.065 1.107	.065 1.107	.109 1.806	.109 1.806			.140 2.273	.140 2.273		.191 2.997	.191 2.997				.250 3.765	.382 5.214
1-1/2	1.900	.065 1.274	.065 1.274	.109 2.085	.109 2.085			.145 2.718	.145 2.718		.200 3.631	.200 3.631				.281 4.859	.400 6.408
2	2.375	.065 1.604	.065 1.604	.109 2.638	.109 2.638			.154 3.653	.154 3.653		.218 5.022	.218 5.022				.344 7.462	.436 9.029
2-1/2	2.875	.083 2.475	.083 2.475	.120 3.531	.120 3.531			.203 5.793	.203 5.793		.276 7.661	.276 7.661				.375 10.01	.552 13.70
3	3.500	.083 3.029	.083 3.029	.120 4.332	.120 4.332			.216 7.576	.216 7.576		.300 10.25	.300 10.25				.438 14.32	.600 18.58
3-1/2	4.000	.083 3.472	.083 3.472	.120 4.937	.120 4.937			.226 9.109	.226 9.109		.318 12.51	.318 12.51					.636 22.85
4	4.500	.083 3.915	.083 3.915	.120 5.613	.120 5.613			.237 10.79	.237 10.79		.337 14.98	.337 14.98	.438 19.00			.531 22.51	.674 27.54
5	5.563	.109 6.349	.109 6.349	.134 7.770	.134 7.770			.258 14.62	.258 14.62		.375 20.78	.375 20.78	.500 27.04			.625 32.96	.750 38.55
6	6.625	.109 7.585	.109 7.585	.134 9.289	.134 9.289			.280 18.97	.280 18.97		.432 28.57	.432 28.57	.562 36.39			.719 43.35	.864 53.16
8	8.625	.109 9.914	.109 9.914	.148 13.40	.148 13.40	.250 22.36	.277 24.70	.322 28.55	.322 28.55	.406 35.64	.500 43.39	.500 43.39	.594 50.95	.719 60.71	.812 67.76	.906 74.79	.875 72.42
10	10.75	.134 15.19	.134 15.19	.165 18.65	.165 18.65	.250 28.04	.307 34.24	.365 40.48	.365 40.48	.500 54.74	.500 54.74	.594 64.43	.719 77.03	.844 82.29	1.000 104.1	1.125 115.6	1.000 104.1
12	12.75	.156 21.07	.165 22.18	.180 24.16	.180 24.16	.250 33.38	.330 43.77	.375 49.56	.406 53.52	.562 73.15	.500 65.42	.688 88.63	.844 107.3	1.000 125.5	1.125 136.7	1.312 160.3	1.000 125.5
14	14.00	.156 23.07		.188 27.73	.250 36.71	.312 45.61	.375 54.57	.375 54.57	.438 63.44	.594 85.05	.500 72.09	.750 106.1	.938 130.9	1.094 150.8	1.250 170.2	1.406 189.1	
16	16.00	.165 27.90		.188 31.75	.250 42.05	.312 52.27	.375 62.58	.375 62.58	.500 82.77	.656 107.5	.500 82.77	.844 136.6	1.031 164.8	1.219 192.4	1.438 223.6	1.594 245.3	
18	18.00	.165 31.43		.188 35.76	.250 47.39	.312 58.94	.438 82.15	.375 70.59	.562 104.7	.750 138.2	.500 93.45	.938 170.9	1.156 208.0	1.375 244.1	1.562 274.2	1.781 308.5	
20	20.00	.188 39.78		.218 46.05	.250 52.73	.375 78.60	.500 104.1	.375 78.60	.594 123.1	.812 166.4	.500 104.1	1.031 208.9	1.281 256.1	1.500 296.4	1.750 341.1	1.969 379.2	
24	24.00	.218 55.37		.250 63.41	.250 63.41	.375 96.42	.562 140.7	.375 94.62	.688 171.3	.969 238.4	.500 125.5	1.219 296.6	1.531 367.4	1.812 429.4	2.062 483.1	2.344 542.1	
26	26.00				.312 85.60	.500 136.17		.375 102.63			.500 136.17						
28	28.00				.312 92.26	.500 146.85	.625 182.73	.375 110.64									
30	30.00	.250 79.43		.312 98.93	.312 98.93	.500 157.53	.625 196.08	.375 118.65			.500 157.53						
32	32.00				.312 105.59	.500 168.21	.625 209.43	.375 126.66	.688 230.08		.500 168.21						
34	34.00				.312 112.25	.500 178.89	.625 222.78	.375 134.67	.688 244.77								
36	36.00				.312 118.92	.500 236.13	.625 236.13	.375 142.68	.750 282.35		.500 189.57						

To calculate weight use factors listed below and multiply by weight per foot.

Nickel 200	1.1343
Monel 400®	1.1272
Inconel 600®	1.0742
Incoloy 825	1.0389
Incoloy 800	1.0247
Carp. 20	1.0220



RED Wall Thickness in Inches
BLACK Steel Weight per Foot in Pounds

NOTE: All information for reference only and not for specific construction or application purposes.