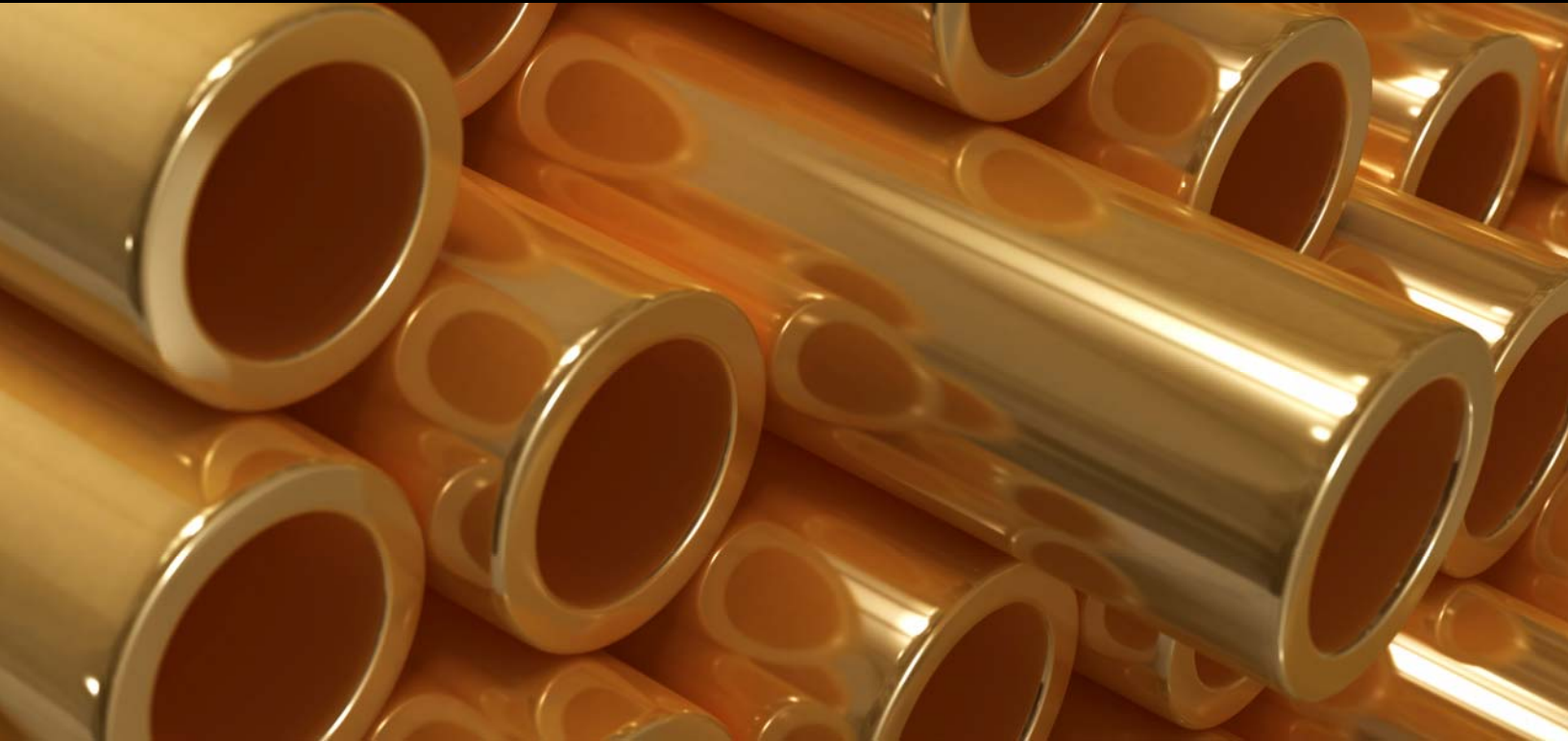




The Master of Master Distribution



Stainless and Special Metals

Pipe and Tubing

Pipe Fittings

Pipe Flanges

Valves

Supplying stainless products to industrial distributors since 1963



OUR BUSINESS MODEL

- » Sell only to industrial distributors, never to the end user
- » Maintain a large inventory of over 60,000 items
- » Include domestic and international suppliers in our inventory
- » Offer easy access to MTR's electronically
- » Inspect 100% of incoming shipments for quality assurance
- » Give unrivalled customer service from initial phone call to final shipment
- » Provide fast shipment – over 80% of orders are shipped within 24 hours
- » Ensure accurate shipment – over 99% order accuracy rate
- » Triple check every out-going order
- » Make available in-house capabilities
 - » Pipe cutting
 - » Flange machining
 - » Valve modification
- » Service 75% of the US market within 24 hours from our six locations

MASTER OF MASTER DISTRIBUTION

PROVIDING THE PRODUCTS YOUR CUSTOMERS NEED SINCE 1963

For almost fifty years Warren Alloy has been a master distributor of stainless steel and high alloy pipe, tubing, fittings, flanges and its exclusive line of Warren Valves. Warren's reputation for quality products, customer service and speedy and accurate order fulfillment has made it a leader in its marketplace.

Most of our customers are industrial suppliers who service the oil, gas, power, petrochemical and marine markets. These environments call for a high quality product and often immediate shipment. Warren meets these requirements with unparalleled customer service and by maintaining one of the largest inventories in the industry. Six strategically located facilities across the country means Warren can provide fast delivery to the end user. We can ship direct to your customers—in your name, not ours. Warren Alloy wants to be your preferred PVF supplier.

Pipe

We carry a full range of welded and seamless pipe products in sizes 1/4" through 36", schedule 5 through XXH. Available materials include Stainless Steel grades 304/304L, 316/316L, 317L, Duplex 2205, Alloy 20, C276, Alloy 200/201, Alloy 400, Alloy 600, Alloy 625, A800/H/HT, Alloy 825 and Aluminum.



Tubing

Seamless tubing in sizes 1/8" through 1", wall dimensions .035, .049, .065, .083, .095, .109, .120 and .134. Available materials include Stainless Steel grades 304/304L, 316/316L, 317L, Duplex 2205, Alloy 20, C276, Alloy 200/201, Alloy 400, Alloy 600, Alloy 625, A800/H/HT, Alloy 825.



Special Metals

Warren carries a full range of pipe, valves, flanges and fittings in 317L Duplex 2205, Alloy 20, C276, Alloy 200/201, Alloy 400, Alloy 600, Alloy 625, A800/H/HT, and Alloy 825. Each product is available in most size ranges of our standard materials and in Schedule 10 through 160.



EXPERIENCED SALES TEAM

Warren Alloy proudly maintains a knowledgeable, veteran sales team to fill our customers' most demanding requirements. Our sales staff averages 27 years in the industry and 11 years at Warren. And every member of the Warren Alloy team is dedicated to maintaining true customer relationships. Our team is always available during regular business hours and our after hour on-call service provides help in emergency situations.

CUSTOMER SERVICE IS MORE THAN A DEPARTMENT AT WARREN

Service should be the lifeblood of any organization. Without our customers, we wouldn't exist. Many companies talk the talk when it comes to customer service, but most fall short when it comes to delivering it on a consistent basis. Customer service is not a department at Warren Alloy, it's an attitude. Experience the Warren Difference for your stainless and special metal PFV requirements.

MACHINING & MODIFICATION SERVICES & MATERIAL TESTING

Our in-house modification shop capabilities include Flange Machining, Nipple Threading, Valve Modification, Pressure Testing and Pipe Cutting. Our on-site test lab includes a spectrometer for testing of incoming material or providing Positive Material Identification (PMI) to customer requirements.

Fittings

Warren's full range of Butt Weld Fittings includes sizes 1/2" through 36", in schedules 5-XXH. Pressure Fittings in sizes 1/8" through 4", classes 150# threaded and socketweld, 2000#,



3000# and 6000#. Specialty fittings in Schedule 5 –XXH. Available types include 45 Ells, 90 Ells, SR 90 Ells, Reducing 90 Ells, Tees, Reducing Tees, Concentrics, Eccentrics, Caps, Stub Ends (Type A, B, C), Crosses, Laterals, and 180 degree Return Bends. Available materials include Stainless Steel grades 304/304L, 316/316L, 317L, Duplex 2205, Alloy 20, C276, Alloy 200/201, Alloy 400, Alloy 600, Alloy 625, Alloy 825 Aluminum and Chrome Moly WP5, WP9, WP11 and WP22.

Flanges

Our range of Standard and Specialty Flanges come in sizes 1/2" through 36", in Pressure Classes 150# through 2500# and includes Weld Neck, Slip-On, RTJ, Socket Weld, Threaded, Blinds, Lap joint, Reducing and Orifice flanges in Schedule



5—XXH. Available materials include Stainless Steel grades 304/304L, 316/316L, 317L, Duplex 2205, Alloy 20, C276, Alloy 200/201, Alloy 400, Alloy 600, Alloy 625, A800/H/HT and Alloy 825, Aluminum and Chrome Moly F5, F9, F11 and F22.

Valves

Warren's exclusive range of high alloy ball, gate, globe and check valves come in sizes 1/8" to 30" and in Stainless Steel grades 304/304L and 316/316L, 317, Duplex 2205, Alloy 20, Nickel alloys, C276 and Forged Carbon Steel. Pressure Classes include Class 150 to 1500 and WOG 200 to 6000. Raised Face Flanges, Butt Weld, Threaded and Socket Weld End Connections are available.



**QUALITY OUR CUSTOMERS HAVE GROWN TO
TRUST - FOR ALMOST FIFTY YEARS.**

Warren Alloy is ISO certified in our Houston, Charlotte, NC and Salt Lake City locations and maintains an over 60,000 line item inventory of commodity and specialty metal pipe, tube, valves, fittings and flanges. This inventory, matched with our unparalleled same day and error free shipping, provides the value our distributor customers have grown dependent on for almost fifty years.

- » Valves
- » Fittings
- » Flanges
- » Pipe
- » Tubing
- » Special Metals

***You can count on the Master of Master Distributors –
Warren Alloy anywhere in the world.***

800.231.6680 or info@warrenalloy.com



Main Warehouse
Houston, Texas
5721 Harvey Wilson Dr.
Houston, TX 77020
800.231.6680
713.672.9416
F 713.672.8549

Charlotte, North Carolina
648 Griffith Rd., Suite F
Charlotte, NC 28217
800.331.3672
704.521.4478
F 704.521.8243

Mobile, Alabama
5155 Mobile South Street
Mobile South Business Park # 13
Theodore, AL 36582
888.653.8031
251.653.7350
F 251.653.5498

Cincinnati, Ohio
9920 Princeton-Glendale Rd.
Cincinnati, OH 45246
866.460.9438
513.860.2582
F 513.860.3436

Lakeland, Florida
Shipping Depot
4100 South Frontage Rd. # 200
Lakeland, FL 33815
877.873.4349
863.686.1303
F 863.686.1307

Salt Lake City, Utah
1630 South 4650 West
Salt Lake City, UT 84104
800.801.2115
801.975.1919
F 801.975.9111



the master of master distribution

800.231.6680 T
713.672.9416 P
713.672.8549 F
www.warrenalloy.com
info@warrenalloy.com

Valves

Types	Gate, Globe, Swing Check, Lift Check, Ball Check, Wafer Check, Ball, Needle & Strainer (cast & forged)
Sizes	Cast 1/8" — 30"
Pressures	Class 150-300-600-800-900-1500
End Connections	Flanged, Threaded, Socket Weld & Butt Weld
Grades	Stainless Steel 316, 316L, 304, 304L, 317, 347, 321, Alloy 20, Nickel Alloys, Carbon X Stainless, Forged Steel
Modifications, Options & Service	Packaging/Gasket • Seats and Seals • Trim • Cryogenic • Extended Bonnet • Stem Extension • Oval Handles • By-Pass • Bleed Hole • Stem Jacket • Insert on disk • Lever and 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" — 36"
Wall Dimensions	Schedule 5 thru XXH
Grades	Stainless Steel 304/304L, 316/316L and 317L, Duplex 2205, Alloy 20, C276, Alloy 200/201, Alloy 400, Alloy 600, Alloy 625, Alloy 800/H/HT, Alloy 825, WP5, WP9, WP11, WP22, Aluminum and Chrom Moly

Pressure Fittings

Types	90 Ells, 45 Ells, Street Ells, Tees, Crosses, Couplings, Reducers, Inserts, Caps, Unions, Laterals, Bushings & Plugs
Sizes	1/8" — 4"
Pressures	150# — 2000# — 3000# — 6000#
End Connections	Threaded and Socket Weld
Grades	Stainless Steel 304/304L, 316/316L and 317L, Duplex 2205, Alloy 20, C276, Alloy 200/201, C276, Alloy 400, Alloy 600, Alloy 625, Alloy 800/H/HT, Alloy 825, and Aluminum

Specialty Fittings

Types	Full Range of Nipples, Swages and Outlets
Grades	Stainless Steel 304/304L, 316/316L and 317L, Duplex 2205, Alloy 20, C276, Alloy 200/201, C276, Alloy 400, Alloy 600, Alloy 625, Alloy 800/H/HT, Alloy 825, and Aluminum

Flanges

Types	Weld Neck, Slip-On, Socket Weld, RTJ, Threaded, Blind, Lap Joint, Reducing and Orifice
Sizes	1/2" — 36"
Pressures	150# thru 2500#
Bores	Schedule 5 thru XXH
Grades	Stainless Steel 304/304L, 316/316L and 317L, Duplex 2205, Alloy 20, Alloy 200/201, Alloy 600, Alloy 625, Alloy 800/H/HT, Alloy 825, Aluminum and Chrome Moly, (F5, F9, F11, F22)

Pipe

Types	Welded and Seamless
Sizes	1/4" — 36"
Wall Dimensions	Schedule 5 thru XXH
Grades	Stainless Steel 304/304L, 316/316L and 317L, Duplex 2205, Alloy 20, C276, Alloy 200/201, Alloy 400, Alloy 600, Alloy 625, Alloy 800/H/HT, Alloy 825, and Aluminum
Services	Pipe Cutting and Threading

Tubing

Types	Seamless
Sizes	1/8" — 1"
Wall Dimensions	.035 — .134
Grades	Stainless Steel 304/304L, 316/316L and 317L, Alloy 20, C276, Alloy 200/201, C276, Alloy 400, Alloy 600, Alloy 625, Alloy 800/H/HT, and Alloy 825. Other grades available upon request: Duplex 2205, Duplex 2507, 254SMO, AL6XN

Pipe Schedules

Pipe Size	O.D.	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	.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	.8572	.8572		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				.344	.436	
			1.604	1.604	2.638	2.638		3.653	3.653		5.022	5.022				7.462	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				.438	.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		.318	.318					.636	
			3.472	3.472	4.937	4.937		9.109	9.109		12.51	12.51					22.85	
4	4.500		.083	.083	.120	.120		.237	.237		.337	.337		.438		.531	.674	
			3.915	3.915	5.613	5.613		10.79	10.79		14.98	14.98		19.00		22.51	27.54	
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		.719	.864	
			7.585	7.585	9.289	9.289		18.97	18.97		28.57	28.57		36.39		43.35	53.16	
8	8.625		.109	.109	.148	.148	.250	.277	.322	.322	.406	.500	.500	.594	.719	.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	50.95	60.71	67.76	74.79	72.42
10	10.75		.134	.134	.165	.165	.250	.307	.365	.365	.500	.500	.594	.719	.844	1.000	1.125	1.000
			15.19	15.19	18.65	18.65	28.04	34.24	40.48	40.48	54.74	54.74	64.43	77.03	89.29	104.1	115.6	104.1
12	12.75		.156	.165	.180	.180	.250	.330	.375	.406	.562	.500	.688	.844	1.000	1.125	1.312	1.000
			21.07	22.18	24.16	24.16	33.38	43.77	49.56	53.52	73.15	65.42	88.63	107.3	125.5	139.7	160.3	125.5
14	14.00		.156		.188	.250	.312	.375	.375	.438	.594	.500	.750	.938	1.094	1.250	1.406	
			23.07		27.73	36.71	45.61	54.57	54.57	63.44	85.05	72.09	106.1	130.9	150.8	170.2	189.1	
16	16.00		.165		.188	.250	.312	.375	.375	.500	.656	.500	.844	1.031	1.219	1.438	1.594	
			27.90		31.75	42.05	52.27	62.58	62.58	82.77	107.5	82.77	136.6	164.8	192.4	223.6	245.3	
18	18.00		.165		.188	.250	.312	.438	.375	.562	.750	.500	.938	1.156	1.375	1.562	1.781	
			31.43		35.76	47.39	58.94	82.15	70.59	104.7	138.2	93.45	170.9	208.0	244.1	274.2	308.5	
20	20.00		.188		.218	.250	.375	.500	.375	.594	.812	.500	1.031	1.281	1.500	1.750	1.969	
			39.78		46.05	52.73	78.60	104.1	78.60	123.1	166.4	104.1	208.9	256.1	296.4	341.1	379.2	
24	24.00		.218		.250	.250	.375	.562	.375	.688	.969	.500	1.219	1.531	1.812	2.062	2.344	
			55.37		63.41	63.41	94.62	140.7	94.62	171.3	238.4	125.5	296.6	367.4	429.4	483.1	542.1	
26	26.00				.312	.500		.375			.500							
					85.60	136.17		102.63			136.17							
28	28.00				.312	.500	.625	.375										
					92.26	146.85	182.73	110.64										
30	30.00		.250		.312	.312	.500	.625	.375		.500							
			79.43		98.93	98.93	157.53	196.08	118.65		157.53							
32	32.00				.312	.500	.625	.375	.688		.500							
					105.59	168.21	209.43	126.66	230.08		168.21							
34	34.00				.312	.500	.625	.375	.688									
					112.25	178.89	222.78	134.67	244.77									
36	36.00				.312		.625	.375	.750		.500							

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

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

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

RED Wall Thickness in Inches
 BLACK Steel Weight per Foot

