


SPECIFICATION				ANALYSIS							
ASTM SPEC.	TITLE	GRADE	DESCRIPTION	CARBON	MANG.	PHOS. MAX.	SULP. MAX.	SILICON	NICKEL	CHR.	MO.
A 234	Carbon Steel	WPB		.30 Max.	.29-1.06	.050	.058	.10 Min	.40 Max	.....	.15 Max
A 420	Carbon and Alloy Steel Fittings For Low Temperature Service	WPL 6		.30 Max.	.50-1.35	.035	.040	.15-.40	.40 Max	.30 Max	.12 Max
A 234	Ferretic Alloy Steel Fittings For High Temperature Service	WP 1	Carbon Moly	.28 Max.	.30-.90	.045	.045	.10-.50	.....	.....	.44-.65
		WP 5	4-6 Chrome 1/2 Moly	.15 Max.	.30-.60	.040	.030	.50 Max	.....	4.00-6.00	.44-.65
		WP 7	6-8 Chrome 1/2 Moly	.15 Max.	.30-.60	.030	.030	.50-1.00	.....	6.00-8.00	.44-.65
		WP 9	9 Chrome 1 Moly	.15 Max.	.30-.60	.030	.030	.25-1.00	.....	8.00-10.00	.90-1.10
		WP 11	1 1/4 Chrome 1/2 Moly	.20 Max.	.30-.80	.040	.040	.5-1.00	.....	1.00-1.50	.44-.65
		WP 12	1 Chrome 1 Moly	.20 Max.	.30-.80	.045	.045	.60 Max	.....	.80-1.25	.44-.65
		WP 22	2 1/4 Chrome 1 Moly	.15 Max.	.30-.60	.040	.040	.1.00 Max	.....	1.90-2.60	.87-1.13
A 403	Austenitic Alloy Steel Fittings For Corrosive Service	WP 304	Type 304-18-8 Stainless Steel	.08 Max.	2.00 Max	.045	.030	.1.00 Max	8.00-11.00	18.0-20.0	.....
		WP 304L	Type 304 ELC-18-8 Stainless Steel	.035 Max.	2.00 Max	.045	.030	.1.00 Max	8.00-13.00	18.0-20.0	.....
		WP 316	Type 316-18-8 Mo Stainless Steel	.08 Max.	2.00 Max	.045	.030	.1.00 Max	10.00-14.00	16.00-18.00	2.00-3.00
		WP 316L	Type 316 ELC-18-8 Mo Stainless Steel	.035 Max.	2.00 Max	.045	.030	.1.00 Max	8.00-11.00	16.00-18.00	2.00-3.00
		WP 347	Type 347-18-8 cb Stainless Steel	.08 Max.	2.00 Max	.045	.030	.1.00 Max	9.00-13.00	17.00-20.00	.....
		WP 321	Type 321-18-8 Ti Stainless Steel	.08 Max.	2.00 Max	.045	.030	.1.00 Max	9.00-13.00	17.00-20.00	.....

All Keddco fittings are permanently marked as follows:

<p style="text-align: center;">MARKING</p> <p>All Keddco fittings are permanently marked as follows:</p> <p>Manufacturer's Symbol </p> <p>Material Specification WPB, WPL6, WP304, WP316 (Alloys) J55, N80, L80, P110, 4130, 4140</p> <p>Raw Material Code Each part is die stamped with a unique heat code identifying the raw material type, details of purchase and steel mill test report.</p> <p>Heat Treatment When marked WPB, WPL6, an acceptable heat treatment is understood to have been performed.</p> <p>Label Information Size and Wall Thickness.</p>		<p style="text-align: center;">THREADING</p> <p>NPT in conformance with ANSI B1.20.1 Line pipe, tubing and casing are in conformance with API 5B</p>
		<p style="text-align: center;">COATINGS</p> <p>Zinc Electroplate – ASTM A164 Type RS Phosphate – Beveled Ends Hot-Dip Galv – ASTM A123</p>
		<p style="text-align: center;">WELD BEVELS</p> <p>Weld Bevels are machined as per ASME B-16.9</p>

SWAGE NIPPLES

- Nominal Pipe size range 1/8 NPS / 6 DN – 12 NPS / 200 DN.
- Choice of raw material dependant upon size and reduction.
- Available standard, extra heavy, schedule 160, or double extra heavy.
- End finishes available: current API threads or ANSI, beveled, square cut (for socket-weld), or grooved.
- Available concentric and eccentric.

SIZE													
PIPE		API or O.D.		REDUCED TO		LENGTH		STANDARD WEIGHT		EXTRA HEAVY WEIGHT		DBL EX. & 160 WEIGHT	
NPS	DN	IN	MM	NPS	DN	IN	MM	LB	KG	LB	KG	LB	KG
1/4	8	.540	15	1/8	6	2-1/4	57					.25	.11
3/8	10	.675	15	1/8	6	2-1/2	63			.25	.11	.38	.17
				1/4	8	2-1/2	63			.25	.11	.38	.17
1/2	15	.840	20	1/8	6	2-3/4	70			.33	.15	.50	.23
				1/4 & 3/8	8 & 10	2-3/4	70			.33	.15	.50	.23
3/4	20	1.050	25	1/8	6	3	76			.50	.23	.75	.34
				1/4 & 3/8	8 & 10	3	76			.50	.23	.75	.34
				1/2	15	3	76			.50	.23	.75	.34
1	25	1.315	33	1/8	6	3-1/2	88			.66	.30	1.00	.45
				1/4 & 3/8	8 & 10	3-1/2	88			.66	.30	1.00	.45
				1/2 & 3/4	15 & 20	3-1/2	88			.66	.30	1.00	.45
1-1/4	32	1.660	42	1/4 & 3/8	8 & 10	4	102			1.00	.45	1.50	.68
				1/2 & 3/4	15 & 20	4	102			1.00	.45	1.50	.68
				1	25	4	102			1.00	.45	1.50	.68
1-1/2	40	1.900	48	1/4 & 3/8	8 & 10	4-1/2	114			1.17	.53	2.00	.91
				1/2 & 3/4	15 & 20	4-1/2	114			1.17	.53	2.00	.91
				1	25	4-1/2	114			1.17	.53	2.00	.91
				1-1/4	32	4-1/2	114			1.17	.53	2.00	.91
2	50	2-3/8	60	1/4 & 3/8	8 & 10	6-1/2	165			3.00	1.36	4.25	1.93
				1/2 & 3/4	15 & 20	6-1/2	165			3.00	1.36	4.25	1.93
				1	25	6-1/2	165	2.00	.90	2.33	1.06	4.25	1.93
				1-1/4	32	6-1/2	165	2.00	.90	2.33	1.06	4.25	1.93
				1-1/2	40	6-1/2	165	2.00	.90	2.33	1.06	4.25	1.93
2-1/2	65	2-7/8	73	1/2 & 3/4	15 & 20	7	178			3.50	1.60	8.00	3.64
				1	25	7	178	3.00	1.36	3.50	1.60	8.00	3.64
				1-1/4	32	7	178	3.00	1.36	3.50	1.60	8.00	3.64
				1-1/2	40	7	178	3.00	1.36	3.50	1.60	8.00	3.64
				2	50	7	178	3.00	1.36	3.50	1.60	8.00	3.64
3	80	3-1/2	88	1/2 & 3/4	15 & 20	8	203			6.00	2.73	11.00	5.00
				1	25	8	203	4.50	2.00	6.00	2.73	11.00	5.00
				1-1/4	32	8	203	4.50	2.00	6.00	2.73	11.00	5.00
				1-1/2	40	8	203	4.50	2.00	6.00	2.73	11.00	5.00
				2 & 2-1/2	50 & 65	8	203	4.50	2.00	6.00	2.73	11.00	5.00
3-1/2	90	4	100	1/2 thru 1-1/2	15 thru 40	8	203	5.50	2.50	7.50	3.40	13.50	6.14
				2 thru 3	50 thru 80	8	203	5.50	2.50	7.50	3.40	13.50	6.14
4	100	4-1/2	114	1/2 & 3/4	15 & 20	9	229			10.00	4.50	18.00	8.20
				1	25	9	229	7.50	3.40	10.00	4.50	18.00	8.20
				1-1/4 & 1-1/2	32 & 40	9	229	7.50	3.40	10.00	4.50	18.00	8.20
				2	50	9	229	7.50	3.40	10.00	4.50	18.00	8.20
				2-1/2	65	9	229	7.50	3.40	10.00	4.50	18.00	8.20
				3 & 3-1/2	80 & 90	9	229	7.50	3.40	10.00	4.50	18.00	8.20
5	125	5-9/16	140	1 thru 1-1/2	25 thru 40	11	279	11.50	5.23	17.00	7.73	33.00	15.00
				2 & 2-1/2	50 & 65	11	279	11.50	5.23	17.00	7.73	33.00	15.00
				3 & 3-1/2	80 & 90	11	279	11.50	5.23	17.00	7.73	33.00	15.00
				4	100	11	279	11.50	5.23	17.00	7.73	33.00	15.00
6	150	6-5/8	168	1 thru 1-1/2	25 thru 40	12	305	17.00	7.73	25.00	11.40	46.00	21.00
				2 & 2-1/2	50 & 65	12	305	17.00	7.73	25.00	11.40	46.00	21.00
				3 & 3-1/2	80 & 90	12	305	17.00	7.73	25.00	11.40	46.00	21.00
				4	100	12	305	17.00	7.73	25.00	11.40	46.00	21.00
				5	125	12	305	17.00	7.73	25.00	11.40	46.00	21.00
8	200	8-5/8	219	2 thru 3	50 thru 80	13	330	29.00	13.20	44.00	20.00	78.00	36.00
				4 & 5	100 & 125	13	330	29.00	13.20	44.00	20.00	78.00	36.00
				6	150	13	330	29.00	13.20	44.00	20.00	78.00	36.00
10	250	10-3/4	273			15	381	48.00	22.00	66.00	30.00	130.00	59.00
12	300	12-3/4	324			18	457	75.00	34.00	98.00	45.00	180.00	85.00