


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	.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 9	9 Chrome 1 Moly	.15 Max.	.30-.60	.030	.030	1.00 Max	.....	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	.50 Max	.....	1.90-2.60	.87-1.13
		WP 91		.12 Max.	.30-.60	.062	.010	.20-.50	.40 Max	8.00-9.50	.85-1.05
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	.030 Max.	2.00 Max	.045	.030	.1.00 Max	8.00-12.00	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	.030 Max.	2.00 Max	.045	.030	.1.00 Max	10.00-14.00	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	17.00-19.00	.....
		WP 321	Type 321-18-8 Ti Stainless Steel	.08 Max.	2.00 Max	.045	.030	.1.00 Max	9.00-13.00	17.00-19.00	.....

MARKING	THREADING
All Keddco fittings are permanently marked as follows:	NPT in conformance with ANSI B1.20.1
Manufacturer's Symbol 	Line pipe, tubing and casing are in conformance with API 5B
Material Specification WPB, WPL6, WP304, WP316 (Alloys) J55, N80, L80, P110, 4130, 4140	COATINGS
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.	Zinc Electroplate – ASTM A164 Type RS Phosphate – Beveled Ends Hot-Dip Galv – ASTM A123
Heat Treatment When marked WPB, WPL6, an acceptable heat treatment is understood to have been performed.	WELD BEVELS
Label Information Size and Wall Thickness.	Weld Bevels are machined as per ASME B-16.9

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