



# RECTANGULAR DUCT JOINTS



**FLANGED ENDS**  
FF



**WELD ENDS**  
WW



**COLLAR ENDS**  
CC

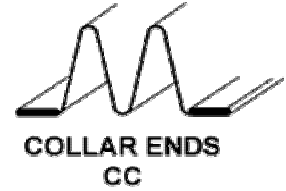
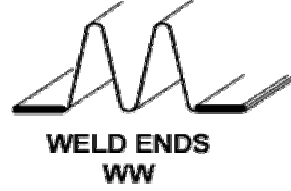
PRESSURE +/- 1000" H2O, 1000F

DIA	NO. CORR	AXIAL MOVEMENT	AXIAL SPRING RATES	FF		WW		CC	
		(in)	(lbs/in)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)
LOW CORR	1	5/8	20	7	16	8	5.5	6	8
	2	1 1/4	10	8.5	17.5	10	7	8	10
	3	1 7/8	7	10	19	12	8.5	10	12
	4	2 1/2	5	11.5	20.5	14	10	12	14
	5	3 1/8	4	13	22	16	11.5	14	16
HIGH CORR	1	1 1/8	8	7.5	16.5	9	6	7	9
	2	2 1/4	4	9.5	18.5	12	8	10	12
	3	3 3/8	3	11.5	20.5	15	10	13	15
	4	4 1/2	2	13.5	22.5	18	12	16	18
	5	5 5/8	2.5	15.5	24.5	21	14	19	21

**Notes:**

1. 3" x 3" x 3/8" angle flanges with 3/4" diameter holes on 4" centers are standard. Other sizes are available.
2. Liners & covers are available.
3. Low Corr convolutions are 4" high x 2" wide, and High Corr are 6" high x 3" wide.
4. A combination of axial, lateral, and rotation movements are possible.

**FLEXICRAFT**  
**ROUND DUCT JOINTS**



PRESSURE +/- 5PSI, 1000F

DIA	MODEL	MOVEMENTS			SPRING RATES			FF		WW		CC		FLANGE DRILL		
		AXIAL	LAT	ROT	AXIAL	LAT	ROT	OAL	WT	OAL	WT	OAL	WT	BCD	DIA	HOLES
12"	S	1.35	0.05	10	332	10761	141	6	16	9	28	6	14	14 9/16	13/32	12
	M	2.25	0.14	6.4	199	2324	85	8	13	11	30	8	16			
	L	4.50	0.59	10	416	1212	176	13	22	16	36	13	22			
	XL	6.03	1.34	9.3	472	677	200	18	27	21	41	18	27			
14"	S	1.35	0.04	4.7	307	11886	156	6	18	9	31	6	15	15 13/16	13/32	12
	M	2.25	0.13	5.1	184	2567	93	8	20	11	33	8	17			
	L	4.50	0.54	8.6	391	1364	198	13	26	16	40	13	24			
	XL	6.47	1.22	7.4	445	689	226	18	31	21	46	18	30			
16"	S	1.35	0.04	4.6	768	38085	499	6.5	24	9	36	6	18	18 1/8	13/32	16
	M	2.25	0.12	10	461	8226	299	8.5	25	11	38	8	20			
	L	4.50	0.48	10	441	1967	286	13.5	32	16	46	13	28			
	XL	6.36	1.08	10	503	998	327	18.5	35	21	53	18	35			
18"	S	1.35	0.03	4.2	852	52621	689	6.5	26	9	40	6	19	20 1/8	13/32	16
	M	2.25	0.10	10	511	11366	413	8.5	28	11	43	8	22			
	L	4.50	0.43	10	490	2724	396	13.5	36	16	52	13	31			
	XL	6.30	0.97	9.5	564	1393	456	18.5	42	21	60	18	39			
20"	S	1.35	0.03	3.8	936	70417	922	6.5	29	9	45	6	22	22 1/8	13/32	20
	M	2.25	0.09	10	561	15210	533	8.5	31	11	47	8	24			
	L	4.50	0.39	10	541	3668	533	13.5	37	16	58	13	35			
	XL	6.25	0.88	10	624	1880	615	18.5	47	21	66	18	43			
22"	S	1.35	0.03	3.5	1019	91793	1202	6.5	32	9	49	6	23	24 1/8	9/16	20
	M	2.25	0.08	10	611	18827	721	8.5	35	11	52	8	26			
	L	4.50	0.04	10	593	4812	700	13.5	41	16	64	13	38			
	XL	6.20	0.08	10	685	2467	807	18.5	52	21	73	18	47			
24"	S	1.35	0.02	3.2	1103	117258	1535	6.5	35	9	54	6	26	24 1/8	9/16	20
	M	2.25	0.08	10	662	25328	921	8.5	37	11	57	8	29			
	L	4.50	0.33	9.4	331	3166	460	13.5	48	16	69	13	41			
	XL	6.75	0.74	5.9	430	1828	598	18.5	56	21	80	18	52			
26"	S	1.35	0.02	2.9	915	114295	1496	7	48	9	60	6	30	28 1/2	9/16	24
	M	2.25	0.07	4.5	549	24688	898	9	58	11	65	8	35			
	L	4.50	0.30	10	535	6014	875	14	68	16	77	13	47			
	XL	6.30	0.59	10	662	3794	1082	18	78	20	86	17	56			
28"	S	1.35	0.02	2.7	983	141308	1850	7	51	9	65	6	32	30 1/2	9/16	24
	M	2.25	0.07	4.2	590	30523	1110	9	62	11	70	8	37			
	L	4.50	0.28	10	575	7440	1082	14	73	16	82	13	49			
	XL	6.30	0.55	10	711	4695	1338	18	83	20	93	17	60			
30"	S	1.35	0.02	2.6	1050	172251	2255	7	55	9	69	6	34	32 1/2	9/16	28
	M	2.25	0.06	4	630	37206	1353	9	66	11	75	8	40			
	L	4.50	0.26	10	315	4651	676	14	78	16	88	13	53			
	XL	6.30	0.52	5.2	439	3307	943	18	90	20	99	17	64			

DIA	MODEL	MOVEMENTS			SPRING RATES			FF		WW		CC		FLANGE DRILL		
		AXIAL	LAT	ROT	AXIAL	LAT	ROT	OAL	WT	OAL	WT	OAL	WT	BCD	DIA	HOLES
32"	S	1.35	0.02	2.4	1117	207388	2715	7	59	9	74	6	37	34 1/2	9/16	28
	M	2.25	0.06	3.7	670	44796	1629	9	71	11	80	8	43			
	L	4.50	0.24	10	335	5599	814	14	84	16	94	13	57			
	XL	6.30	0.48	9.7	467	3983	1135	18	96	20	106	17	69			
34"	S	1.35	0.02	2.3	1184	246982	3233	7	62	9	78	6	38	36 1/2	9/16	32
	M	2.25	0.05	3.6	711	533484	1940	9	75	11	85	8	45			
	L	4.50	0.23	10	355	6669	970	14	88	16	100	13	60			
	XL	6.30	0.43	10	524	5599	1596	18	108	20	119	17	77			
36"	S	1.35	0.02	2.2	1251	291295	3813	7	66	9	83	6	41	38 1/2	9/16	32
	M	2.25	0.05	3.4	751	62920	2288	9	80	11	90	8	48			
	L	4.50	0.22	10	375	7865	1144	14	94	16	106	13	64			
	XL	6.30	0.43	10	524	5599	1596	18	108	20	119	17	77			
38"	S	1.35	0.01	2.1	1318	340591	4458	7	68	9	88	6	43	40 1/2	9/16	36
	M	2.25	0.05	3.2	791	73568	2675	9	82	11	95	8	50			
	L	4.50	0.21	4.8	395	9196	1337	14	97	16	112	13	67			
	XL	6.30	0.41	10	552	6549	1867	18	112	20	126	17	81			
40"	S	1.35	0.01	2	1385	395132	5172	7	74	9	92	6	45	42 1/2	9/16	36
	M	2.25	0.05	3.1	831	85349	3103	9	92	11	100	8	53			
	L	4.50	0.20	4.7	415	10669	1552	14	106	16	118	13	71			
	XL	6.30	0.39	10	580	7600	2166	18	121	20	132	17	85			
42"	S	1.35	0.01	1.9	1452	455181	5958	7	77	9	97	6	48	44 1/2	9/16	40
	M	2.25	0.04	3	871	98319	3575	9	96	11	105	8	56			
	L	4.50	0.19	4.5	435	12290	1787	14	111	16	124	13	75			
	XL	6.30	0.37	10	608	8757	2496	18	127	20	139	17	90			
44"	S	1.35	0.01	1.8	1518	521000	6820	7	81	9	102	6	51	46 1/2	9/16	40
	M	2.25	0.04	2.8	911	112536	4092	9	100	11	110	8	59			
	L	4.50	0.18	4.4	455	14067	2046	14	117	16	130	13	79			
	XL	6.30	0.35	10	636	10023	2857	16	134	20	146	17	95			
46"	S	1.35	0.01	1.7	1585	592850	7760	7	84	9	106	6	52	48 1/2	9/16	44
	M	2.25	0.04	2.7	951	128056	4656	9	104	11	115	8	61			
	L	4.50	0.17	4.3	475	16007	2328	14	120	16	135	13	81			
	XL	6.30	0.34	4.5	340	5833	1663	18	139	20	152	17	98			
48"	S	1.35	0.01	1.6	1651	670994	8783	7	87	9	115	6	59	50 1/2	9/16	44
	M	2.25	0.04	2.6	991	144935	5270	9	107	11	126	8	70			
	L	4.50	0.16	4.2	495	18117	2635	14	123	16	154	13	98			
	XL	6.30	0.33	4.4	354	6602	1882	18	145	20	176	18	120			
50"	S	1.80	0.03	2.1	5192	1328802	30923	10	137	10	133	8	89	53 1/2	11/16	48
	M	3.60	0.10	4.1	2596	166100	15461	14	162	14	163	12	119			
	L	5.40	0.22	10	1731	49215	10308	18	187	18	193	16	149			
	XL	7.20	0.40	10	1298	20763	7731	22	212	22	223	20	179			
52"	S	1.80	0.02	2	5390	1487046	34605	10	144	10	139	8	93	55 1/2	11/16	48
	M	3.60	0.10	4	2695	185881	17303	14	170	14	170	12	124			
	L	5.40	0.22	10	1797	55076	11535	18	196	18	201	16	155			
	XL	7.20	0.39	10	1347	23235	8651	22	222	22	232	20	186			
54"	S	1.80	0.02	2	5587	1657314	38567	10	151	10	144	8	96	57 1/2	11/16	52
	M	3.60	0.09	3.8	2794	207164	19284	14	178	14	176	12	128			
	L	5.40	0.21	10	1862	61382	12856	18	205	18	209	16	161			
	XL	7.20	0.37	10	1397	25896	9642	22	232	22	241	20	193			

DIA	MODEL	MOVEMENTS			SPRING RATES			FF		WW		CC		FLANGE DRILL		
		AXIAL	LAT	ROT	AXIAL	LAT	ROT	OAL	WT	OAL	WT	OAL	WT	BCD	DIA	HOLES
60"	S	1.80	0.02	1.8	6179	2244598	52234	10	173	10	160	8	107	63 1/2	11/16	56
	M	3.60	0.09	3.5	3089	280575	26117	14	203	14	196	12	143			
	L	5.40	0.19	10	2060	83133	17411	18	233	18	232	16	179			
	XL	7.20	0.34	10	1545	35072	13059	22	263	22	268	20	215			
66"	S	1.80	0.02	1.6	6768	2955717	68783	10	192	10	176	8	117	69 1/2	11/16	60
	M	3.60	0.08	3.2	3384	369465	34391	14	225	14	215	12	156			
	L	5.40	0.17	4.6	2256	109471	22928	18	258	18	255	16	196			
	XL	7.20	0.31	10	1692	46183	17196	22	291	22	295	20	236			
72"	S	1.80	0.02	1.5	7357	3802369	88485	10	281	10	192	8	128	75 1/2	11/16	68
	M	3.60	0.07	2.9	3678	475296	44243	14	317	14	235	12	171			
	L	5.40	0.16	4.2	2452	140828	29495	18	354	18	278	16	214			
	XL	7.20	0.26	10	1839	59412	22121	22	390	22	321	20	257			
78"	S	1.80	0.02	1.3	7944	4796235	111613	10	307	10	208	8	138	81 1/2	11/16	72
	M	3.60	0.07	2.7	3972	599529	55807	14	346	14	255	12	185			
	L	5.40	0.15	3.9	2648	177638	37204	18	385	18	301	16	231			
	XL	7.20	0.26	9.9	1986	74941	27903	22	424	22	348	20	278			
84"	S	1.80	0.02	1.3	8530	5948983	138439	10	332	10	224	8	149	87 1/2	13/16	76
	M	3.60	0.06	2.5	4265	743623	69220	14	374	14	274	12	199			
	L	5.40	0.13	3.7	2843	220333	46146	18	416	18	325	16	250			
	XL	7.20	0.24	4.6	2133	92953	34610	22	458	22	375	20	300			
90"	S	1.80	0.01	1.2	9115	7272266	169233	10	352	10	240	8	159	93 1/2	13/16	80
	M	3.60	0.06	2.4	4558	909033	84617	14	407	14	294	12	213			
	L	5.40	0.13	3.4	3038	269343	56411	18	452	18	348	16	267			
	XL	7.20	0.23	4.4	2279	113629	42308	22	500	22	402	20	321			
96"	S	1.80	0.01	1.1	9699	8777725	204267	10	385	10	256	8	170	99 1/2	13/16	100
	M	3.60	0.05	2.2	4850	1097216	102133	14	433	14	313	12	227			
	L	5.40	0.12	3.2	3233	325101	68089	18	481	18	371	16	285			
	XL	7.20	0.21	4.1	2425	137152	51067	22	529	22	428	20	342			
108"	S	1.80	0.01	1	10860	12375011	287980	10	438	10	288	8	191	111 1/2	13/16	100
	M	3.60	0.05	2	5430	1546876	143990	14	492	14	353	12	256			
	L	5.40	0.10	2.9	3620	458334	95993	18	546	18	417	16	320			
	XL	7.20	0.19	3.7	2715	193360	71995	22	600	22	482	20	385			
120"	S	1.80	0.01	0.9	12011	16828218	391610	10	490	10	320	8	212	123 1/2	13/16	108
	M	3.60	0.04	1.8	6005	2103527	195805	14	550	14	392	12	284			
	L	5.40	0.10	2.6	4004	62367	130537	18	610	18	464	16	356			
	XL	7.20	0.17	3.4	3003	262941	97903	22	670	22	536	20	428			
132"	S	1.80	0.01	0.8	13159	22234448	517419	10	540	10	352	8	233	135 1/2	13/16	120
	M	3.60	0.04	1.6	6580	2779306	258710	14	607	14	431	12	312			
	L	5.40	0.09	2.3	4386	823498	172473	18	673	18	510	16	391			
	XL	7.20	0.15	3	3290	347413	129355	22	740	22	589	20	470			
144"	S	1.80	0.01	0.7	14305	28685139	667533	10	592	10	384	8	255	147 1/2	13/16	132
	M	3.60	0.04	1.5	7153	3585642	333767	14	664	14	470	12	341			
	L	5.40	0.08	2.2	4768	1062413	222511	18	737	18	556	16	427			
	XL	7.20	0.14	2.9	3576	448205	166883	22	810	22	643	20	514			