

Z2-600 Performance Data vs API-IJ

J-55, L-80/N-80



Gandy Technologies Corporation™
Leader in Pipe Innovations

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			1"		1-1/4"		1-1/2"		2-1/16"			
			Z2-600	API-IJ	Z2-600	API-IJ	Z2-600	API-IJ	Z2-600	API-IJ		
PIPE DATA		OD	in.	1.315	1.315	1.660	1.660	1.900	1.900	2.063	2.063	
		Nom. Wt.	lbs/ft	1.72	1.72	2.33	2.33	2.76	2.76	3.25	3.25	
		Wall	in.	0.133	0.133	0.140	0.140	0.145	0.145	0.156	0.156	
		ID Nom.	in.	1.049	1.049	1.380	1.380	1.610	1.610	1.751	1.751	
		Drift	in.	0.955	0.995	1.286	1.286	1.516	1.516	1.657	1.657	
		Area	sq in.	0.4939	0.4939	0.6685	0.6685	0.7995	0.7995	0.9346	0.9346	
	J-55	Pipe Body Yield Strength (Tension)	1000 lbs	27.165	27.165	36.768	36.768	43.973	43.973	51.403	51.403	
		Min Collapse Pressure	lbs/in ²	10,000	10,000	8,490	8,490	7,750	7,750	7,690	7,690	
		Min Internal Yield (burst) ^{††}	lbs/in ²	9,730	9,730	8,120	8,120	7,350	7,350	7,280	7,280	
	L-80/N-80	Pipe Body Yield Strength (Tension)	1000 lbs	39.500	39.500	53.480	53.480	63.960	63.960	74.768	74.768	
		Min Collapse Pressure	lbs/in ²	14,550	14,550	12,360	12,360	11,280	11,280	11,180	11,180	
		Min Internal Yield (burst) ^{††}	lbs/in ²	14,160	14,160	11,810	11,810	10,680	10,680	10,590	10,590	
	CONNECTION DATA		OD	in.	1.550	1.550	1.880	1.880	2.110	2.110	2.325	2.325
			ID	in.	1.049	0.970	1.380	1.301	1.610	1.531	1.751	1.672
			Makeup Loss	in.	2.375	1.12	2.440	1.26	3.250	1.37	3.375	1.44
Threads Per Inch			=	7	10	7	10	6	10	6	10	
Tension Compared to Pipe Body			%	100	80.6	100	83.13	100	84.2	100	96 max	
J-55		Connection Yield Strength Tension	1000 lbs	27.165	21.900	36.768	30.560	43.973	37.000	51.403	49.000	
		Setting Depth SF-1	ft.	15,792	12,729	15,781	13,118	15,931	13,414	16,476	15,183	
		Collapse Setting Depth [†]	ft.	17,780	12,729	15,093	13,118	13,780	13,414	13,670	13,670	
		Recommended Makeup Torque	ft-lbs	210 min 310 max	300 min 400 max	250 min 375 max	380 min 500 max	275 min 425 max	440 min 580 max	275 min 480 max	560 min 740 max	
L-80/N-80		Connection Yield Strength Tension	1000 lbs	39.500	31.800	53.500	44.470	63.960	53.900	74.768	72.000	
		Setting Depth SF-1	ft.	22,971	18,514	22,954	19,082	23,172	19,151	23,965	23,006	
		Collapse Setting Depth [†]	ft.	25,866	18,514	21,970	19,082	20,053	19,151	19,875	19,875	
		Recommended Makeup Torque	ft-lbs	300 min 450 max	400 min 540 max	350 min 550 max	500 min 690 max	400 min 600 max	590 min 790 max	400 min 700 max	750 min 1010 max	

* API FORMULAS BUL 5C2 5C3

† PRESSURE GRADIENT 1/2#/FT AND DESIGN FACTOR 1.125

(API-IJ COLLAPSE SETTING DEPTH LIMITED BY CONNECTION TENSILE YIELD STRENGTH)

†† INTERNAL YIELD (BURST) BASED ON 87.5% MIN YIELD STRENGTH

Z2-600 Performance Data vs API-IJ

T-95, P-110 / C-110



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			1"		1-1/4"		1-1/2"		2-1/16"			
			Z2-600	API-IJ	Z2-600	API-IJ	Z2-600	API-IJ	Z2-600	API-IJ		
PIPE DATA		OD	in.	1.315	1.315	1.660	1.660	1.900	1.900	2.063	2.063	
		Nom. Wt.	lbs/ft	1.72	1.72	2.33	2.33	2.76	2.76	3.25	3.25	
		Wall	in.	0.133	0.133	0.140	0.140	0.145	0.145	0.156	0.156	
		ID Nom.	in.	1.049	1.049	1.380	1.380	1.610	1.610	1.751	1.751	
		Drift	in.	0.955	0.995	1.286	1.286	1.516	1.516	1.657	1.657	
		Area	sq in.	0.4939	0.4939	0.6685	0.6685	0.7995	0.7995	0.9346	0.9346	
	T-95	Pipe Body Yield Strength (Tension)	1000 lbs	46.921	46.921	63.508	63.508	75.953	75.953	88.787	88.787	
		Min Collapse Pressure	lbs/in ²	17,270	17,270	14,670	14,670	13,190	13,190	12,980	12,980	
		Min Internal Yield (burst) ^{††}	lbs/in ²	16,810	16,810	14,020	14,020	12,690	12,690	12,570	12,570	
	P-110 \ C-110	Pipe Body Yield Strength (Tension)	1000 lbs	54.329	54.329	73.535	73.535	87.945	87.945	102.806	102.806	
		Min Collapse Pressure	lbs/in ²	20,000	20,000	16,990	16,990	14,840	14,840	14,600	14,600	
		Min Internal Yield (burst) ^{††}	lbs/in ²	19,470	19,470	16,230	16,230	14,690	14,690	14,560	14,560	
	CONNECTION DATA		OD	in.	1.550	1.550	1.880	1.880	2.110	2.110	2.325	2.325
			ID	in.	1.049	0.970	1.380	1.301	1.610	1.531	1.751	1.672
			Makeup Loss	in.	2.375	1.12	2.440	1.26	3.250	1.37	3.375	1.44
			Threads Per Inch	=	7	10	7	10	6	10	6	10
			Tension Compared to Pipe Body	%	100	80.6	100	83.13	100	84.2	100	96 max
		T-95	Connection Yield Strength Tension	1000 lbs	46.921	37.900	63.508	51.580	75.953	64.000	88.787	85.150
Setting Depth SF-1			ft.	27,280	21,987	27,258	22,659	27,517	23,169	27,294	26,202	
Collapse Setting Depth [†]			ft.	30,700	21,987	26,080	22,659	23,450	23,169	23,080	23,080	
Recommended Makeup Torque			ft-lbs	350 min 530 max	475 min 645 max	420 min 650 max	590 min 820 max	475 min 725 max	700 min 940 max	475 min 830 max	900 min 1200 max	
P-110 \ C-110		Connection Yield Strength Tension	1000 lbs	54.329	43.500	73.535	61.600	87.945	74.100	102.806	98.900	
		Setting Depth SF-1	ft.	31,585	25,457	31,562	26,237	31,862	26,828	31,632	30,366	
		Collapse Setting Depth [†]	ft.	35,556	25,457	30,204	26,237	26,380	26,380	25,960	25,960	
		Recommended Makeup Torque	ft-lbs	410 min 600 max	550 min 740 max	480 min 700 max	685 min 950 max	550 min 800 max	810 min 1090 max	550 min 800 max	1031 min 1390 max	

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Updated: 5-20-10