

CONNECTION DATA BOOK

Metal One

SUPERMAX, SUPERMAX2

SUPERMAX-TS, SUPERMAX-TS2

FLUSHMAX, FLUSHMAX-II, FLUSHMAX-III

GEOCONN, GEOCONN-RS

Size and Connection Performance Properties

SUPERMAX, SUPERMAX2

(Imperial Unit)											Connection Performance Properties									
Pipe Body					Thread per inch	Pin Make up loss	Coupling				Collapse			Internal yield pressure			Minimum Yield Load (for Regular Coupling)			
Outside Diameter	Nominal Weight	Wall Thickness	Inside Diameter	Drift diameter			Regular Coupling OD	Special Clearance OD	Clearance	Joint Efficiency	Length	J55 K55	L80 N80	P110	J55 K55	L80 N80	P110	J55 K55	N80	L80
in	lbs/ft	in	in	in	in	in	in	%	in	psi	psi	psi	psi	psi	psi	kips	kips		kips	
2-3/8	4.60	0.190	1.995	1.901	8	2.848	2.875	2.700	119	6.596	8,100	11,780	16,130	7,700	11,200	15,400	72	104		143
	5.10	0.218	1.939	1.845	8			2.700	105		9,170	13,340	18,340	9,170	13,340	17,670	81	118		162
	5.80	0.254	1.867	1.773	8			2.750	104		10,510	15,280	21,010	10,290	14,970	20,590	93	135		186
2-7/8	6.40	0.217	2.441	2.347	8	2.912	3.500	3.250	118	6.724	7,680	11,170	14,550	7,260	10,570	14,530	100	145		199
	7.80	0.276	2.323	2.229	8			3.300	106		9,550	13,890	19,090	9,240	13,440	18,480	124	180		248
3-1/2	7.70	0.216	3.068	2.943	8	3.162	4.250	3.850	113	7.224	5,970	7,860	9,730	5,940	8,640	11,880	122	178		245
	9.20	0.254	2.992	2.867	8			3.900	109		7,400	10,540	13,530	6,980	10,160	13,970	142	207		285
	10.20	0.289	2.922	2.797	8			4.000	118		8,330	12,120	16,670	7,950	11,560	15,900	160	233		321
4	9.50	0.226	3.548	3.423	8	3.242	4.750	4.400	120	7.434	5,110	6,580	7,900	5,440	7,910	10,880	147	214		295
	10.70	0.262	3.476	3.351	8			4.450	116		6,590	8,800	11,060	6,300	9,170	12,610	169	246		338
	13.20	0.330	3.340	3.215	8			4.550	112		8,330	12,110	16,650	7,940	11,550	15,880	209	304		419
	14.80	0.380	3.240	3.115	8			4.650	116		9,450	13,750	18,910	9,140	13,300	18,290	238	346		574
4-1/2	10.50	0.224	4.052	3.927	8	3.492	5.000	4.900	124	7.934	4,010	4,930	5,550	4,790	6,970	9,580	165	240		331
	11.60	0.250	4.000	3.875	8			4.950	123		4,950	6,350	7,570	5,350	7,780	10,700	183	267		367
	12.60	0.271	3.958	3.833	8			4.950	114		5,720	7,500	9,210	5,800	8,430	11,590	198	288		396
	13.50	0.290	3.920	3.795	8			5.000	117		6,420	8,540	10,690	6,200	9,020	12,410	211	307		422
	15.10	0.337	3.826	3.701	8			5.000	102		7,620	11,080	14,340	7,210	10,480	14,420	242	652		484
5	15.00	0.296	4.408	4.283	5	4.102	5.563	5.375	90	9.204	5,560	7,250	8,850	5,700	8,290	11,400	241	350		481
	18.00	0.362	4.276	4.151	5			5.375	75		7,390	10,500	13,470	6,970	10,140	13,940	290	422		580
	20.30	0.408	4.184	4.059	5			5.375	67		8,240	11,990	16,490	7,854	11,424	15,708	324	471		602
5-1/2	15.50	0.275	4.95	4.825	5	4.102	6.050	5.875	96	9.204	4,040	4,990	5,630	4,810	7,000	9,630	248	361		497
	17.00	0.304	4.892	4.767	5			5.875	87		4,910	6,290	7,480	5,320	7,740	10,640	273	397		546
	20.00	0.361	4.778	4.653	5			5.875	74		6,620	8,830	11,110	6,320	9,190	12,630	320	466		641
6-5/8	20.00	0.288	6.049	5.924	5	4.352	7.390	7.000	94	9.704	2,970	3,470	4,030	4,184	6,086	7,991	361	459		603
	24.00	0.352	5.921	5.796	5			7.000	78		4,560	5,760	6,730	5,114	7,439	10,228	382	555		763
	28.00	0.417	5.791	5.666	5			7.000	67		6,170	8,170	10,160	6,058	8,812	12,117	447	361		895
7	23.00	0.317	6.366	6.241	5	4.352	7.875	7.375	86	9.704	3,270	3,830	4,440	4,360	6,340	8,720	366	532		732
	26.00	0.362	6.276	6.151	5			7.375	76		4,330	5,410	6,230	4,980	7,240	9,950	415	604		830
	29.00	0.408	6.184	6.059	5			7.375	68		5,410	7,030	8,530	5,610	8,160	11,220	464	676		929
	32.00	0.453	6.094	5.969	5			7.375	61		6,480	8,610	10,780	6,230	9,060	12,460	512	745		1,024
7-5/8	26.40	0.328	6.969	6.844	5	4.652	8.500	8.125	107	10.304	2,890	3,400	3,920	4,140	6,020	8,280	413	601		827
	29.70	0.375	6.875	6.750	5			8.125	94		3,910	4,790	5,350	4,730	6,890	9,470	470	683		939
	33.70	0.430	6.765	6.640	5			8.125	83		5,100	5,100	7,870	5,430	7,900	10,860	534	777		1,069
	35.80	0.465	6.695	6.570	5			8.125	77		5,850	7,690	9,480	5,870	8,538	11,739	579	837		1,151
	39.00	0.500	6.625	6.500	5			8.125	72		6,610	8,820	11,080	6,311	9,180	12,623	616	895		1,231
8-5/8	32.00	0.352	7.921	7.796	5	4.752	9.625	9.125	101	10.504	2,530	3,050	3,420	3,930	5,710	7,860	503	732		1,006
	36.00	0.400	7.825	7.700	5			9.125	89		3,450	4,100	4,690	4,460	6,490	8,930	568	826		1,136
	40.00	0.450	7.725	7.600	5			9.125	80		4,400	5,520	6,390	5,022	7,304	10,043	637	925		1,271
9 5/8	36.00	0.352	8.921	8.765	5	4.852	10.625	10.125	101	10.704	2,020	2,370	2,470	3,520	5,120	7,040	564	820		1,127
	40.00	0.395	8.835	8.679	5			10.125	91		2,570	3,090	3,470	3,950	5,750	7,900	630	916		1,259
	43.50	0.435	8.755	8.599	5			10.125	83		3,250	3,810	4,420	4,350	6,330	8,700	690	1,005		1,381
	47.00	0.472	8.681	8.525	5			10.125	76		3,890	4,760	5,300	4,720	6,870	9,440	746	1,086		1,493
	53.50	0.545	8.535	8.500	5			10.125	67		5,130	6,620	7,950	5,450	7,930	10,900	855	1,243		1,709
10-3/4	40.50	0.350	10.050	9.894	5	4.902	11.750	11.250	103	10.804	1,580	1,730	1,730	3,130	4,560	6,270	629	914		1,251 *
	45.50	0.400	9.950	9.794	5			11.250	90		2,090	2,470	2,610	3,580	5,210	7,160	715	1,040		1,423 *
	51.00	0.450	9.850	9.694	5			11.250	81		2,710	3,220	3,660	4,030	5,860	8,060	800	1,164		1,594 *
	55.50	0.495	9.760	9.604	5			11.250	74		3,390	4,020	4,610	4,430	6,450	8,860	877	1,275		1,745 *
13 3/8	54.50	0.380	12.615	12.459	5	4.977	14.375	-	-	10.954	1,130	1,140	1,140	2,730	3,980	5,470	853	1,240	1,233 *	1,659 *
	61.00	0.430	12.515	12.359	5			-	-		1,540	1,670	1,670	3,090	4,500	6,190	961	1,398	1,389 *	1,870 *
	68.00	0.480	12.415	12.259	5			-	-		1,950	2,260	2,330	3,450	5,020	6,910	1,069	1,556	1,545 *	2,079 *
	72.00	0.514	12.347	12.250	5			-	-		2,220	2,670	2,880	3,700	5,380	7,400	1,142	1,661	1,650 *	2,220 *

Note : Joint Efficiency of Regular Coupling >=100%

* : Joint Strength , not yield load

Size and Connection Performance Properties

SUPERMAX-TS, SUPERMAX-TS2

Pipe Body						(Imperial Unit)					Connection Performance Properties								
						Pin	Coupling			Length	Collapse			Internal yield pressure			Minimum Yield Load (for Regular Coupling)		
Outside Diameter	Nominal Weight	Wall Thickness	Inside Diameter	Drift diameter	Thread per inch	Make up loss	Regular Coupling OD	Special Clearance OD	Joint Efficiency			J55 K55	L80 N80	P110	J55 K55	L80 N80	P110	J55 K55	L80 N80
in	lbs/ft	in	in	in		in	in	in	%	in	psi	psi	psi	psi	psi	psi	kips	kips	kips
2-3/8	4.60	0.190	1.995	1.901	8	2.848	2.875	2.700	112	6.446	8,100	11,780	16,130	7,700	11,200	15,400	72	104	143
2-7/8	6.40	0.217	2.441	2.347	8	2.912	3.500	3.250	112	6.574	7,680	11,170	14,550	7,260	10,570	14,530	100	145	199
3-1/2	7.70	0.216	3.068	2.943	8	3.162	4.250	3.850	107	7.074	5,970	7,860	9,730	5,940	8,640	11,880	122	178	245
	9.20	0.254	2.992	2.867	8			3.900	103		7,400	10,540	13,530	6,980	10,160	13,970	142	207	285
	10.20	0.289	2.922	2.797	8			4.000	113		8,330	12,120	16,670	7,950	11,560	15,900	160	233	321
	12.70	0.368	2.764	2.639	8			4.125	113		10,350	15,060	20,700	10,120	14,720	20,240	199	289	398
4	10.70	0.262	3.476	3.351	8	3.242	4.750	4.450	110	7.074	6,590	8,800	11,060	6,300	9,170	12,610	169	246	338
4-1/2	10.50	0.224	4.052	3.927	8	3.412	5.000	4.900	117	7.574	4,010	4,930	5,550	4,790	6,970	9,580	165	240	331
	11.60	0.250	4.000	3.875	8			4.950	117		4,950	6,350	7,570	5,350	7,780	10,700	183	267	367
	12.60	0.271	3.958	3.833	8			4.950	108		5,720	7,500	9,210	5,800	8,430	11,590	198	288	396
	13.50	0.290	3.920	3.795	8		5.250	5.000	112		6,420	8,540	10,690	6,200	9,020	12,410	211	307	422
	15.10	0.337	3.826	3.701	8			5.000	97		7,620	11,080	14,340	7,210	10,480	14,420	242	353	485
5	15.00	0.296	4.408	4.283	5	4.102	5.563	5.375	83	8.954	5,560	7,250	8,850	5,700	8,290	11,400	241	350	481
	18.00	0.362	4.276	4.151	5			5.375	69		7,390	10,500	13,470	6,970	10,140	13,940	290	422	580
5-1/2	15.50	0.275	4.95	4.825	5	4.102	6.050	5.875	89	8.954	4,040	4,990	5,630	4,810	7,000	9,630	248	361	497
	17.00	0.304	4.892	4.767	5			5.875	81		4,910	6,290	7,480	5,320	7,740	10,640	273	397	546
	20.00	0.361	4.778	4.653	5			5.875	69		6,620	8,830	11,110	6,320	9,190	12,630	320	466	641
6-5/8	20.00	0.288	6.049	5.924	5	4.352	7.390	7.000	93	9.454	2,970	3,470	4,030	4,180	6,090	8,370	315	458	630
	24.00	0.352	5.921	5.796	5			7.000	72		4,560	5,760	6,730	5,110	7,440	10,230	382	555	763
7	23.00	0.317	6.366	6.241	5	4.352	7.875	7.375	80	9.454	3,270	3,830	4,440	4,360	6,340	8,720	366	532	732
	26.00	0.362	6.276	6.151	5			7.375	70		4,330	5,410	6,230	4,980	7,240	9,950	415	604	830
	29.00	0.408	6.184	6.059	5			7.375	63		5,410	7,030	8,530	5,610	8,160	11,220	464	676	929

Note : Joint Efficiency of Regular Coupling >=100%

Size and Connection Performance Properties

FLUSHMAX, FLUSHMAX-II , FLUSHMAX-III

		(Imperial Unit)										Connection Performance Properties								
Pipe Body						Connection					Collapse			Internal yield pressure			Minimum Yield Load			
Outside Diameter	Nominal Weight	Actual Weight	Wall Thickness	Inside Diameter	Drift diameter	Thread per inch	Make up loss	BOX OD	Pin ID	Joint Load Efficiency	J55 K55	L80 N80	P110	J55 K55	L80 N80	P110	J55 K55	L80 N80	P110	
in	lbs/ft	lbs/ft	in	in	in		in	in	in	%	psi	psi	psi	psi	psi	psi	kips	kips	kips	
FLUSHMAX	2 3/8	4.60	4.43	0.190	1.995	1.901	8	1.750	2.375	1.995	38.4	8,100	11,780	16,130	6,160	8,960	12,320	28	40	55
		5.10	5.02	0.218	1.939	1.845	8	1.750		1.939	43.8	9,170	13,340	18,340	7,336	10,672	14,136	36	52	71
		5.80	5.75	0.254	1.867	1.773	8	1.750		1.867	38.2	10,510	15,280	21,010	8,232	11,976	16,472	36	52	71
	2 7/8	6.40	6.16	0.217	2.441	2.347	8	1.750	2.875	2.441	40.8	7,680	11,170	14,550	5,808	8,456	11,624	41	59	81
	3 1/2	7.70	7.58	0.216	3.068	2.943	8	1.750	3.500	3.068	44.9	5,970	7,870	9,730	4,752	6,912	9,504	55	80	110
		9.20	8.81	0.254	2.992	2.867	8	1.750		2.992	45.5	7,400	10,540	13,530	5,584	8,128	11,176	65	94	130
		10.20	9.91	0.289	2.922	2.797	8	1.750		2.922	46.0	8,330	12,120	16,670	6,360	9,248	12,720	74	107	147
	4	9.50	9.11	0.226	3.548	3.423	8	1.750	4.000	3.548	41.2	5,110	6,590	-	4,350	6,320	-	61	88	-
		10.70	10.46	0.262	3.476	3.351	8	1.750		3.476	43.3	6,590	8,800	11,060	5,044	7,336	10,088	73	107	146
11.60		11.47	0.286	3.428	3.303	8	1.750	3.428		44.5	7,300	10,270	13,150	5,506	8,008	11,011	82	119	163	
FLUSHMAX-II	4 1/4	10.90	10.92	0.256	3.738	3.613	8	2.330	4.250	3.738	60.0	5,728	7,500	9,210	4,638	6,746	9,276	106	154	212
		10.50	10.23	0.224	4.052	3.927	8	2.352		4.052	60.0	4,010	4,930	5,550	3,833	5,575	7,666	99	144	198
	4 1/2	11.60	11.30	0.250	4.000	3.875	8	2.352	4.500	4.000	60.0	4,950	6,350	7,580	4,278	6,222	8,556	110	160	220
		12.60	12.20	0.271	3.958	3.833	8	2.352		3.958	60.0	5,720	7,500	9,210	4,637	6,745	9,274	119	173	238
		13.50	13.04	0.290	3.920	3.795	8	2.352		3.920	60.0	6,420	8,540	10,690	4,962	7,218	9,924	127	184	253
		15.10	14.98	0.337	3.826	3.701	8	2.430		3.826	60.0	7,620	11,090	14,350	5,800	8,400	11,500	145	211	291
		13.00	12.78	0.252	4.496	4.371	8	2.000		5.000	4.496	60.0	4,110	5,090	5,770	3,881	5,645	7,762	124	180
	15.00	14.87	0.296	4.408	4.283	8	2.400	4.408	60.0		5,560	7,250	8,850	4,558	6,630	9,117	144	210	289	
	18.00	17.90	0.362	4.276	4.151	8	2.400	4.276	60.0		7,390	10,500	13,470	5,575	8,109	11,150	174	253	348	
	21.40	21.30	0.437	4.126	4.001	8	2.600	4.126	60.0		8,770	12,760	17,550	6,700	9,800	13,500	207	301	413	
	23.20	23.08	0.478	4.044	3.919	8	2.600	4.044	60.0		9,510	13,830	19,020	7,400	10,700	14,700	224	326	448	
	5 1/2	14.00	13.70	0.244	5.012	4.887	8	2.112	5.500	5.012	60.0	3,120	3,620	4,230	3,416	4,969	6,832	133	193	266
		15.50	15.35	0.275	4.950	4.825	8	2.450		4.950	60.0	4,040	4,990	5,630	3,850	5,600	7,700	149	217	298
		17.00	16.90	0.304	4.892	4.767	8	2.450		4.892	60.0	4,910	6,290	7,480	4,256	6,191	8,512	164	238	327
		20.00	19.80	0.361	4.778	4.653	8	2.450		4.778	60.0	6,620	8,830	11,110	5,054	7,351	10,108	192	280	384
		23.00	22.50	0.415	4.670	4.545	8	2.450		4.670	60.0	7,670	11,160	14,540	5,810	8,451	11,620	219	318	437
	6 5/8	17.00	17.02	0.250	6.125	6.000	8	2.450	6.625	6.125	60.0	2,150	2,560	2,720	2,906	4,226	5,811	165	240	330
		20.00	19.49	0.288	6.049	5.924	8	2.450		6.049	60.0	2,970	3,480	4,030	3,347	4,869	6,695	189	275	378
		24.00	23.60	0.352	5.921	5.796	8	2.450		5.921	60.0	4,560	5,760	6,730	4,091	5,951	8,182	229	333	458
	7	23.00	22.63	0.317	6.366	6.241	8	2.500	7.000	6.366	60.0	3,270	3,830	4,440	3,487	5,072	6,974	220	319	439
		26.00	25.70	0.362	6.276	6.151	8	2.500		6.276	60.0	4,330	5,410	6,230	3,982	5,792	7,964	249	362	498
		29.00	28.70	0.408	6.184	6.059	8	3.000		6.184	60.0	5,410	7,030	8,530	4,488	6,528	8,976	279	405	557
		32.00	31.70	0.453	6.094	6.000	8	3.000		6.094	60.0	6,460	8,610	10,780	4,983	7,248	9,966	307	447	615
		41.00	40.39	0.590	5.820	5.695	8	3.000		5.820	60.0	8,490	12,350	16,980	6,490	9,440	12,980	392	570	784
26.40		25.56	0.328	6.969	6.844	5	2.934	7.625		6.969	60.0	2,890	3,400	3,920	3,300	4,800	6,600	248	361	496
29.70	29.04	0.375	6.875	6.750	5	3.040	6.875		60.0	3,910	4,790	5,350	3,787	5,508	7,574	282	410	563		
33.70	33.00	0.430	6.765	6.640	5	3.160	6.765		60.0	5,100	6,560	7,870	4,342	6,316	8,685	321	466	641		
35.80	35.60	0.465	6.695	6.570	5	3.240	6.695		60.0	5,850	7,690	9,480	4,696	6,830	9,391	345	502	690		
39.00	38.00	0.500	6.625	6.500	5	3.320	6.625		60.0	6,610	8,820	11,080	5,049	7,344	10,098	369	537	738		
8	30.50	30.50	0.375	7.250	7.125	5	3.039	8.000	7.250	60.0	3,530	4,220	-	3,609	5,250	-	296	431	-	
	33.80	33.80	0.417	7.166	7.041	5	3.133		7.166	60.0	4,400	5,500	6,370	4,014	5,838	8,027	328	477	655	
8 5/8	32.00	31.10	0.352	7.921	7.796	5	2.990	8.625	7.921	60.0	2,530	3,050	3,420	3,142	4,571	6,285	302	439	604	
	36.00	35.10	0.400	7.825	7.700	5	3.090		7.825	60.0	3,450	4,100	4,690	3,571	5,194	7,142	341	496	682	
9 5/8	36.00	34.86	0.352	8.921	8.765	5	2.990	9.625	8.921	60.0	2,020	2,370	2,470	2,816	4,096	5,632	338	492	676	
	40.00	38.90	0.395	8.835	8.679	5	3.080		8.835	60.0	2,570	3,090	3,470	3,160	4,596	6,320	378	550	756	
	43.50	42.70	0.435	8.755	8.599	5	3.170		8.755	60.0	3,250	3,810	4,420	3,480	5,062	6,960	414	603	828	
	47.00	46.10	0.472	8.681	8.525	5	3.256		8.681	60.0	3,890	4,760	5,300	3,776	5,492	7,552	448	651	895	
	53.50	52.85	0.545	8.535	8.500	5	3.420		8.535	60.0	5,130	6,620	7,950	4,360	6,342	8,720	513	746	1,026	
10 3/4	40.50	38.88	0.350	10.050	9.894	5	2.990	10.750	10.050	60.0	1,580	1,730	1,730	2,507	3,647	5,014	377	549	754	
	45.50	44.20	0.400	9.950	9.794	5	3.090		9.950	60.0	2,090	2,480	2,610	2,865	4,167	5,730	429	624	858	
	51.00	49.50	0.450	9.850	9.694	5	3.210		9.850	60.0	2,700	3,220	3,660	3,223	4,688	6,447	480	699	961	
11 3/4	42.00	40.60	0.333	11.084	10.928	5	2.946	11.750	11.084	60.0	1,120	1,130	1,130	2,184	3,176	4,368	394	573	788	
	47.00	45.56	0.375	11.000	10.844	5	3.040		11.000	60.0	1,510	1,630	1,630	2,457	3,574	4,915	442	643	884	
	54.00	52.57	0.435	10.880	10.724	5	3.174		10.880	60.0	2,070	2,450	2,570	2,851	4,146	5,701	510	742	1,020	
	60.00	58.81	0.489	10.772	10.616	5	3.294		10.772	60.0	2,660	3,180	3,610	3,205	4,661	6,409	571	830	1,141	
	65.00	63.97	0.534	10.682	10.526	5	3.395		10.682	60.0	3,300	3,870	4,480	3,499	5,090	6,999	621	903	1,241	
13 3/8	54.50	52.70	0.380	12.615	12.459	5	3.051	13.375	12.615	60.0	1,130	1,140	1,140	2,188	3,182	4,375	512	744	1,023	
	61.00	59.45	0.430	12.515	12.359	5	3.155		12.515	60.0	1,540	1,670	1,670	2,476	3,601	4,951	577	839	1,154	
	68.00	66.10																		

Size and Connection Performance Properties

GEOCONN, GEOCONN-RS

(Rev.6)
(Imperial Unit)

Pipe Body						Thread per inch	Pin Make up loss	Coupling					Connection Performance Properties										
OD	PPF	WT	ID	Drift Dia.	Length			Regular Coupling OD	Special Clearance				Collapse			Internal yield pressure			Minimum Yield Load (for Regular Coupling)				
									Coupling OD (Wsc1)	Joint Efficiency	Coupling OD (Wsc2)	Joint Efficiency	J55 K55	L80 N80	P110	J55 K55	L80 N80	P110	J55	K55	N80	L80	P110
inch	lbs/ft	inch	inch	inch	inch	inch	inch	%	inch	%	inch	psi	psi	psi	psi	psi	psi	kips					
4 1/2	10.50	0.224	4.052	3.927	5	3.984	5.250	5.000	100	4.875	100	8.068	4,010	4,940	5,550	4,790	6,970	9,580	165	241	331		
	11.60	0.250	4.000	3.875	5			5.000	100	4.875	100		4,960	6,350	7,580	5,350	7,780	10,690	183	267	367		
	12.60	0.271	3.958	3.833	5			5.000	100	4.875	99		5,730	7,500	9,210	5,800	8,430	11,590	198	288	396		
	13.50	0.290	3.920	3.795	5			5.000	100	4.875	92		6,420	8,540	10,690	6,200	9,020	12,410	211	307	422		
	15.10	0.337	3.826	3.701	5			5.000	100	-	-		7,620	11,080	14,340	7,210	10,480	14,420	242	352	485		
5	15.00	0.296	4.408	4.283	5	4.063	5.800	5.563	100	5.375	92	8.225	5,560	7,250	8,850	5,700	8,290	11,400	240	350	481		
	18.00	0.362	4.276	4.151	5			5.563	100	5.375	77		7,390	10,490	13,470	6,970	10,140	13,940	290	422	580		
5 1/2	15.50	0.275	4.950	4.825	5	4.125	6.300	6.050	100	5.875	99	8.350	4,040	4,990	5,630	4,810	7,000	9,630	248	361	496		
	17.00	0.304	4.892	4.767	5			6.050	100	5.875	90		4,910	6,290	7,480	5,320	7,740	10,640	273	397	546		
	20.00	0.361	4.778	4.653	5			6.050	100	5.875	77		6,620	8,830	11,100	6,320	9,190	12,640	320	466	641		
	23.00	0.415	4.670	4.545	5			6.050	92	-	-		7,670	11,160	14,540	7,260	10,560	14,530	364	530	729		
6 5/8	20.00	0.288	6.049	5.924	5	4.313	7.390	7.000	96	-	-	8.725	2,970	3,470	4,030	4,180	6,090	8,370	315	458	630		
	28.00	0.417	5.791	5.666	5			7.000	67	-	-		6,170	8,170	10,160	6,060	8,810	12,120	447	650	894		
7	23.00	0.317	6.366	6.241	5	4.500	7.875	7.656	139	-	-	9.100	3,270	3,830	4,440	4,360	6,340	8,720	366	532	732		
	26.00	0.362	6.276	6.151	5			7.656	122	-	-		4,330	5,410	6,230	4,980	7,240	9,960	415	604	830		
	29.00	0.408	6.184	6.059	5			7.656	109	-	-		5,410	7,030	8,530	5,610	8,160	11,220	464	676	929		
	32.00	0.453	6.094	5.969	5			7.656	99	-	-		6,460	8,610	10,780	6,230	9,060	12,460	512	745	1,024		
	35.00	0.498	6.004	5.879	5			7.656	91	-	-		7,270	10,180	13,030	6,848	9,960	13,695	559	814	1,119		
	38.00	0.540	5.920	5.795	5			7.656	84	-	-		7,830	11,390	15,130	7,425	10,800	14,850	603	877	1,206		
7 5/8	26.40	0.328	6.969	6.844	5	4.688	8.500	8.125	108	-	-	9.475	2,890	3,400	3,920	4,140	6,020	8,280	414	602	827		
	29.70	0.375	6.875	6.750	5			8.125	95	-	-		3,910	4,790	5,350	4,730	6,890	9,470	470	683	940		
	33.70	0.430	6.765	6.640	5			8.125	84	-	-		5,100	6,560	7,870	5,430	7,900	10,860	535	778	1,069		
	39.00	0.500	6.625	6.500	5			8.125	73	-	-		6,610	8,820	11,080	6,310	9,180	12,620	615	895	1,231		
8 5/8	24.00	0.264	8.097	7.972	5	4.813	9.625	9.125	134	-	-	9.776	1,370	1,430	1,430	2,950	4,290	5,890	381	554	762		
	28.00	0.304	8.017	7.892	5			9.125	117	-	-		1,880	2,160	2,210	3,390	4,940	6,790	437	635	874		
	32.00	0.352	7.921	7.796	5			9.125	102	-	-		2,530	3,050	3,420	3,930	5,710	7,860	503	732	1,006		
	36.00	0.400	7.825	7.700	5			9.125	90	-	-		3,450	4,100	4,690	4,460	6,490	8,930	568	827	1,136		
9 5/8	36.00	0.352	8.921	8.765	5	4.813	10.625	10.125	101	-	-	9.826	2,020	2,370	2,470	3,520	5,120	7,040	564	820	1,127		
	40.00	0.395	8.835	8.679	5			10.125	90	-	-		2,570	3,090	3,470	3,950	5,750	7,900	630	916	1,259		
	43.50	0.435	8.755	8.599	5			10.125	82	-	-		3,250	3,810	4,420	4,350	6,330	8,700	690	1,005	1,381		
	47.00	0.472	8.681	8.525	5			10.125	76	-	-		3,890	4,760	5,300	4,720	6,870	9,440	746	1,086	1,492		
	53.50	0.545	8.535	8.379	5			10.125	67	-	-		5,130	6,620	7,950	5,450	7,930	10,900	855	1,243	1,709		
9 7/8	62.80	0.625	8.625	8.469	5	4.813	10.875	-	-	-	-	9.826	6,230	8,260	10,280	6,092	8,861	12,184	999	1,453	1,998		
10 3/4	40.50	0.350	9.175	9.019	5	4.813	11.750	11.250	101	-	-	9.826	1,580	1,730	1,730	3,130	4,560	6,270	629	914	1,257		
	45.50	0.400	9.950	9.794	5			11.250	89	-	-		2,090	2,470	2,610	3,580	5,210	7,160	715	1,040	1,423 *		
	51.00	0.450	9.850	9.694	5			11.250	79	-	-		2,710	3,220	3,660	4,030	5,860	8,060	800	1,164	1,594 *		
	55.50	0.495	9.760	9.604	5			11.250	72	-	-		3,990	4,020	4,610	4,430	6,450	8,860	877	1,275	1,745 *		
	60.70	0.545	9.660	9.504	5			11.250	66	-	-		4,160	5,160	5,880	4,880	7,100	9,760	961	1,397	1,912 *		
	71.00	0.650	9.450	9.294	5			11.250	56	-	-		5,770	7,560	9,290	5,820	8,465	11,640	1,134	1,650	2,257 *		
13 3/8	54.50	0.380	12.615	12.459	5	4.813	14.375	-	-	-	-	9.826	1,130	1,140	1,140	2,730	3,980	5,470	853	1,240	1,233 *	1,660 *	
	61.00	0.430	12.515	12.359	5			-	-	-	-		1,540	1,670	1,670	3,090	4,500	6,190	961	1,398	1,389 *	1,870 *	
	68.00	0.480	12.415	12.259	5			-	-	-	-		1,950	2,260	2,330	3,450	5,020	6,910	1,069	1,555	1,545 *	2,079 *	
	72.00	0.514	12.347	12.191	5			-	-	-	-		2,220	2,670	2,880	3,700	5,380	7,400	1,142	1,661	1,650 *	2,220 *	
16	65.00	0.375	15.250	15.063	5	4.913	17.000	-	-	-	-	9.976	630	-	-	2,260	-	-	1,012	-	-	-	
	75.00	0.438	15.124	14.937	5			-	-	-	-		1,020	-	-	2,630	-	-	1,178	-	-	-	
	84.00	0.495	15.010	14.823	5			-	-	-	-		1,410	-	-	2,980	-	-	1,326	-	-	-	
	109.00	0.656	14.688	14.501	5			-	-	-	-		2,560	-	-	3,950	-	-	1,739	-	-	-	
18 5/8	87.50	0.435	17.755	17.568	5	4.913	20.000	-	-	-	-	9.976	630	-	-	2,250	-	-	1,329 *	1,367	-	-	
	94.50	0.468	17.689	17.502	5			-	-	-	-		780	-	-	2,420	-	-	1,427 *	1,468	-	-	
	114.00	0.579	17.467	17.280	5			-	-	-	-		1,420	-	-	2,990	-	-	1,754 *	1,805	-	-	
	126.00	0.636	17.353	17.166	5			-	-	-	-		1,760	-	-	3,290	-	-	1,921 *	1,977	-	-	
20	94.00	0.438	19.124	18.937	5	4.913	21.000	-	-	-	-	9.976	520	-	-	2,110	-	-	1,402 *	1,480 *	-	-	
	106.50	0.500	19.000	18.813	5			-	-	-	-		770	-	-	2,410	-	-	1,595 *	1,683 *	-	-	
	133.00	0.635	18.730	18.543	5			-	-	-	-		1,500	-	-	3,060	-	-	2,012 *	2,123 *	-	-	

Note : Joint Efficiency of Regular Coupling >=100%

* : Joint Strength , not yield load

Recommended Field End Make-Up Torque

SMAX , SMAX2

Designation		Pipe body	Recommended Field End Make-Up Torque (Unit: Ft-Lbs)					
Size O.D. inch	Nom. Weight lbs/ft	Wall Thickness inch	J/K55		L/N80		P110	
			Min.	Max.	Min.	Max.	Min.	Max.
2-3/8	4.60	0.190	850	1,250	950	1,400	1,100	1,550
2-7/8	6.40	0.217	1,300	2,000	1,400	2,100	1,600	2,300
3-1/2	9.20	0.254	1,800	2,700	2,000	3,000	2,500	3,500
4-1/2	10.50	0.224	1,900	2,900	2,500	3,700	3,300	4,900
	11.60	0.250	2,100	3,100	2,700	4,100	3,500	5,300
	12.60	0.271	2,200	3,200	2,800	4,200	3,700	5,500
	13.50	0.290	2,200	3,400	3,000	4,400	3,800	5,800
5	15.00	0.296	3,000	4,600	3,900	5,900	5,200	7,800
	18.00	0.362	3,400	5,000	4,400	6,600	5,800	8,600
5-1/2	15.50	0.275	3,100	4,700	4,100	6,100	5,400	8,000
	17.00	0.304	3,400	5,000	4,400	6,600	5,800	8,600
	20.00	0.361	3,700	5,500	4,800	7,200	6,300	9,500
	23.00	0.415	4,600	6,800	6,000	9,000	7,800	11,800
7	26.00	0.476	5,000	7,400	6,400	9,600	8,400	12,600
	23.00	0.317	5,700	8,500	7,400	11,000	9,600	14,400
	26.00	0.362	6,200	9,200	8,000	12,000	10,500	15,700
	29.00	0.408	6,600	10,000	8,600	13,000	11,300	16,900
7-5/8	32.00	0.453	7,200	10,800	9,400	14,000	12,200	18,400
	26.40	0.328	7,000	10,600	9,200	13,800	12,000	18,000
	29.70	0.375	7,700	11,500	10,000	15,000	13,000	19,600
8-5/8	33.70	0.430	8,300	12,500	10,800	16,200	14,200	21,200
	32.00	0.352	9,000	13,600	11,800	17,600	15,400	23,000
9 5/8	36.00	0.400	9,800	14,600	12,700	19,100	16,700	25,100
	36.00	0.352	10,100	15,100	13,100	19,700	17,200	25,800
	40.00	0.395	10,900	16,300	14,200	21,200	18,500	27,700
	43.50	0.435	11,500	17,300	15,000	22,400	19,600	29,400
10-3/4	47.00	0.472	12,100	18,100	15,700	23,500	20,600	30,800
	53.50	0.545	13,000	19,600	17,000	25,400	22,200	33,400
	40.50	0.350	11,100	16,700	14,500	21,700	19,000	28,400
	45.50	0.400	12,200	18,200	15,800	23,800	20,600	31,000
13 3/8	51.00	0.450	13,000	19,600	17,000	25,400	22,200	33,400
	55.50	0.495	13,800	20,600	17,900	26,900	23,500	35,300
	54.50	0.380	12,200	18,200	15,800	23,800	20,700	31,100
	61.00	0.430	13,100	19,700	17,000	25,600	22,300	33,500
13 3/8	68.00	0.480	14,000	21,000	18,200	27,200	23,800	35,600
	72.00	0.514	14,500	21,700	18,900	28,300	24,700	37,100

Note: Torque for Special Clearance Coupling is multiplied by 0.95 of the above table

SMAX-TS , SMAX-TS2

Designation		Pipe body	Recommended Field End Make-Up Torque (Unit: Ft-Lbs)								
Size O.D. inch	Nom. Weight lbs/ft	Wall Thickness inch	J/K55			L/N80			P110		
			Min.	Max.	Op. Max.	Min.	Max.	Op. Max.	Min.	Max.	Op. Max.
2-3/8	4.60	0.190	1,080	1,320	-	1,170	1,430	-	1,260	1,540	-
2-7/8	6.40	0.217	1,620	1,980	-	1,800	2,200	-	1,980	2,420	-
3-1/2	9.20	0.254	2,880	3,520	3,520	3,060	3,740	3,740	3,240	3,960	4,400
4	10.70	0.262	3,150	3,850	3,920	3,420	4,180	4,480	3,690	4,510	5,440
4-1/2	10.50	0.224	3,330	4,070	4,070	3,510	4,290	4,290	3,690	4,510	4,960
	11.60	0.250	3,500	4,500	4,500	4,100	4,700	4,880	4,800	6,000	6,000
	12.60	0.271	4,000	5,000	5,000	4,700	5,700	5,700	5,000	6,000	6,720
	13.50	0.290	4,600	5,600	5,800	5,300	6,500	6,700	6,300	7,500	8,000
5	15.10	0.337	5,500	6,700	6,700	6,300	7,700	8,000	7,400	9,000	9,400
	15.00	0.296	5,400	6,600	7,000	6,200	7,600	8,200	7,200	8,900	10,000
5-1/2	18.00	0.362	7,000	8,600	9,200	8,100	9,900	10,800	9,500	11,500	13,200
	15.50	0.275	5,400	6,600	7,200	6,100	7,500	8,240	7,200	8,800	10,080
5-1/2	17.00	0.304	6,300	7,700	8,240	7,200	8,800	9,600	8,500	10,300	11,760
	20.00	0.361	7,900	9,700	10,320	9,100	11,000	12,080	10,800	13,200	14,880
6-5/8	20.00	0.288	9,000	11,000	10,800	10,000	12,000	12,480	11,500	14,500	15,200
	24.00	0.352	11,500	14,500	14,500	13,500	16,500	16,720	15,300	18,700	20,560
7	23.00	0.317	10,000	12,000	13,520	11,300	13,900	15,680	13,300	16,200	19,360
	26.00	0.362	11,700	14,300	16,240	13,500	16,500	18,960	15,700	19,200	23,440
	29.00	0.408	13,500	16,500	18,960	15,300	18,700	22,160	18,000	22,000	27,600
	32.00	0.453	15,200	18,600	22,200	16,200	19,800	27,200	19,400	23,800	35,100

Note: Torque for Special Clearance Coupling is multiplied by 0.95 of the above table

Recommended Field End Make-Up Torque

FLUSHMAX . FLUSHMAX-II . FLUSHMAX-III

Designation		Pipe body	Recommended Field End Make-Up Torque (Unit: Ft-Lbs)									
			J/K55			L/N80			P110			
Size	Nom.	Wall	Min.	Max.	Op. Max.	Min.	Max.	Op. Max.	Min.	Max.	Op. Max.	
O.D.	Weight	Thickness										
inch	lbs/ft	inch										
FLUSHMAX	2 3/8	4.60	0.190	800	1,200	-	900	1,300	-	-	-	
	2 7/8	6.40	0.217	1,500	2,000	-	1,700	2,100	-	-	-	
	3 1/2	7.70	0.216	1,700	2,300	-	1,900	2,500	-	-	-	
		9.20	0.254	2,000	2,800	-	2,200	3,000	-	-	-	
		10.20	0.289	2,300	3,100	-	2,500	3,300	-	-	-	
	4	9.50	0.226	2,200	3,000	-	2,500	3,300	-	-	-	
10.70		0.262	2,300	3,300	-	2,600	3,600	-	-	-		
FLUSHMAX-II	4 1/4	10.90	0.256	2,100	3,100	3,100	2,400	3,400	3,400	2,700	3,700	3,700
	4 1/2	10.50	0.224	2,000	3,000	3,000	2,300	3,300	3,300	2,600	3,600	3,600
		11.60	0.250	2,400	3,400	3,400	2,700	3,700	3,700	3,000	4,000	4,000
		12.60	0.271	2,700	3,700	3,700	3,000	4,000	4,000	3,300	4,300	4,300
		13.50	0.290	2,900	3,900	3,900	3,200	4,200	4,200	3,500	4,500	4,500
	5	15.00	0.296	3,200	3,800	4,700	3,700	4,500	5,600	5,000	6,200	7,800
		18.00	0.362	3,700	4,500	5,600	4,400	5,400	6,800	6,200	7,600	9,500
		21.40	0.437	-	-	-	5,400	6,600	8,200	7,600	9,200	11,500
		23.20	0.478	-	-	-	5,900	7,100	8,900	8,100	9,900	12,400
	5 1/2	15.50	0.275	3,400	4,200	5,300	4,100	5,100	6,400	5,900	7,100	8,900
		17.00	0.304	3,800	4,600	5,800	4,600	5,600	7,000	6,400	7,800	9,800
		20.00	0.361	4,400	5,400	6,800	5,400	6,600	8,200	7,700	9,300	11,600
		23.00	0.415	5,000	6,200	7,700	6,100	7,500	9,400	8,600	10,600	13,200
	6 5/8	17.00	0.250	4,500	5,500	6,900	5,400	6,600	8,300	7,700	9,400	11,700
		20.00	0.288	5,100	6,300	7,900	6,300	7,700	9,600	8,700	10,700	13,400
		24.00	0.352	6,300	7,700	9,600	7,700	9,300	11,600	10,600	13,000	16,200
	7	23.00	0.317	5,900	7,300	9,100	7,200	8,800	11,000	10,200	12,400	15,500
		26.00	0.362	7,300	8,900	11,100	8,600	10,600	13,300	12,200	15,000	18,700
		29.00	0.408	8,300	10,100	12,600	10,000	12,200	15,200	14,000	17,000	21,300
		32.00	0.453	9,100	11,100	13,900	11,000	13,400	16,700	15,300	18,700	23,400
	7 5/8	26.40	0.328	8,800	10,800	13,500	10,600	13,000	16,300	14,900	18,200	22,800
		29.70	0.375	9,200	11,200	14,000	11,200	13,600	17,000	15,500	18,900	23,600
		33.70	0.430	10,400	12,800	16,000	12,700	15,500	19,400	17,600	21,500	26,900
		35.80	0.465	11,300	13,800	17,300	13,700	16,700	20,900	19,100	23,300	29,100
39.00		0.500	12,200	15,000	18,700	14,800	18,000	22,500	20,500	25,100	31,400	
8	30.50	0.375	11,100	13,500	22,500	13,400	16,400	27,300	-	-	-	
	33.80	0.417	11,900	14,500	24,100	14,300	17,500	29,200	20,000	24,400	40,700	
8 5/8	32.00	0.352	8,200	10,000	16,700	10,000	12,200	20,300	11,600	14,200	28,400	
	36.00	0.400	9,400	11,400	19,000	11,300	13,800	23,000	15,800	19,300	32,100	
9 5/8	36.00	0.352	8,600	10,400	20,800	10,400	12,600	25,200	14,500	17,700	35,300	
	40.00	0.395	9,500	11,700	23,400	11,600	14,200	28,300	16,200	19,800	39,500	
	43.50	0.435	10,500	12,900	25,700	12,800	15,600	31,100	17,700	21,700	43,400	
	47.00	0.472	11,400	14,000	28,000	13,900	16,900	33,800	19,400	23,700	47,300	
10 3/4	53.50	0.545	-	-	-	16,000	19,600	39,200	22,300	27,300	54,600	
	40.50	0.350	10,500	12,900	25,800	12,900	15,700	31,300	-	-	-	
	45.50	0.400	12,200	14,800	29,500	14,700	17,900	35,700	-	-	-	
	51.00	0.450	13,600	16,600	33,200	16,500	20,100	40,100	23,000	28,000	56,000	
11 3/4	42.00	0.333	12,100	14,700	29,300	14,600	17,800	35,500	20,300	24,900	49,700	
	47.00	0.375	13,600	16,600	33,100	16,400	20,000	40,000	23,000	28,000	56,000	
	54.00	0.435	15,700	19,100	38,100	18,900	23,100	46,200	26,500	32,300	64,600	
	60.00	0.489	17,600	21,400	42,800	21,200	25,900	51,800	29,600	36,200	72,400	
13 3/8	65.00	0.534	19,200	23,400	46,800	23,100	28,300	56,600	32,400	39,600	79,100	
	54.50	0.380	14,000	17,200	43,000	17,100	20,900	52,200	-	-	-	
	61.00	0.430	15,800	19,400	48,600	19,400	23,600	58,900	27,000	33,000	82,500	
	68.00	0.480	17,700	21,700	54,200	21,400	26,200	65,600	30,200	36,800	92,000	
13 3/8	72.00	0.514	19,000	23,200	58,000	23,000	28,100	70,200	32,100	39,300	98,300	

GEOCONN

Designation		Pipe body	Recommended Field End Make-Up Torque (Unit: Ft-Lbs)								
			J/K55			L/N80			P110		
Size	Nom.	Wall	Min.	Max.	Op. Max.	Min.	Max.	Op. Max.	Min.	Max.	Op. Max.
O.D.	Weight	Thickness									
inch	lbs/ft	inch									
4 1/2	10.50	0.224	3,600	4,400	4,400	3,800	4,600	4,900	4,550	5,550	7,000
	11.60	0.250	4,700	5,700	5,700	5,000	6,100	6,100	6,000	7,300	8,300
	13.50	0.290	5,500	7,000	7,000	6,700	8,200	8,200	8,100	9,900	10,300
	15.10	0.337	6,300	7,700	7,800	7,200	8,800	8,900	9,000	11,000	13,000
5	15.00	0.296	6,300	7,700	7,700	7,200	8,800	8,800	8,650	10,550	12,800
	18.00	0.362	9,000	11,000	11,000	10,500	12,800	12,900	12,950	15,850	16,500
5 1/2	15.50	0.275	5,700	7,000	9,100	7,400	9,000	9,300	8,850	10,850	13,600
	17.00	0.304	7,000	8,500	9,300	9,000	11,000	11,600	10,800	13,200	15,600
	20.00	0.361	11,000	13,400	14,200	12,500	15,200	15,500	14,600	17,800	19,500
6 5/8	23.00	0.415	13,600	16,600	17,500	15,300	18,700	19,000	18,350	22,450	23,800
	20.00	0.288	8,600	10,500	12,300	10,000	12,000	14,500	11,900	14,500	20,600
7	23.00	0.317	10,500	12,800	15,600	12,500	15,200	17,700	15,100	18,500	26,000
	26.00	0.362	14,500	17,500	18,700	16,500	20,100	21,200	20,000	24,400	31,200
	29.00	0.408	16,500	20,000	21,900	18,000	22,000	24,800	22,700	27,700	36,400
	32.00	0.453	17,800	21,800	24,800	20,250	24,750	28,100	24,300	29,700	41,400
	35.00	0.498	19,800	24,200	27,700	22,400	27,400	31,400	26,900	32,900	46,200
7 5/8	38.00	0.540	21,500	26,300	30,300	24,400	29,800	34,300	29,250	35,750	50,500
	26.40	0.328	14,500	17,500	19,000	16,000	20,000	22,000	18,600	22,700	31,000
	29.70	0.375	16,000	20,000	22,500	18,000	22,000	26,000	21,600	26,400	37,000
	33.70	0.430	17,000	20,500	27,000	19,000	23,000	30,000	22,700	27,700	45,000
8 5/8	39.00	0.500	19,600	24,000	32,400	22,250	27,150	36,800	26,700	32,600	54,000
	24.00	0.264	9,600	11,700	14,400	-	-	-	-	-	-
	28.00	0.304	11,700	14,300	17,500	-	-	-	-	-	-
	32.00	0.352	16,000	19,000	26,000	17,500	21,500	29,000	21,400	26,150	42,000
9 5/8	36.00	0.400	17,500	20,500	31,000	19,000	23,000	35,000	22,150	27,050	50,000
	36.00	0.352	17,000	20,000	31,000	18,500	22,500	36,000	21,400	26,150	50,000
	40.00	0.395	17,500	21,000	37,000	19,000	23,000	42,000	22,050	26,950	60,000
	43.50	0.435	18,000	22,000	42,000	19,000	23,000	50,000	22,600	27,600	68,000
9 5/8	47.00	0.472	18,000	22,000	47,000	20,000	25,000	53,000	24,300	29,700	76,000
	53.50	0.545	19,700	24,100	56,000	22,300	27,300	63,000	26,800	32,750	90,000
	62.80	0.625	23,700	29,000	67,400	26,900	32,900	75,900	32,200	39,400	108,300
10 3/4	45.50	0.400	17,600	21,500	39,600	20,300	24,800	47,520	23,200	28,400	63,760
	51.00	0.450	18,000	22,000	46,400	21,100	25,700	55,840	24,000	29,400	75,200
	55.50	0.495	18,500	22,700	52,560	21,600	26,400	63,120	24,600	30,000	85,440
13 3/8	54.50	0.380	19,350	23,650	65,000	24,050	29,350	72,000	24,050	29,350	100,000
	61.00	0.430	21,250	25,950	77,000	26,550	32,450	86,000	26,550	32,450	122,000
	68.00	0.480	22,950	28,050	90,000	28,800	35,200	100,000	28,800	35,200	140,000
	72.00	0.514	24,100	29,500	98,000	30,400	37,200	110,000	30,400	37,200	150,000
16	65.00	0.375	23,850	29,150	70,000	-	-	-	-	-	-
	75.00	0.438	24,750	30,250	95,000	-	-	-	-	-	-
	84.00	0.495	25,550	31,250	115,000	-	-	-	-	-	-
18 5/8	87.50	0.435	26,100	31,900	119,000	-	-	-			

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