



Specifications for 4D-13-23-29

Gear Reducer

Peak Torque Rating ----- 13,000 in. lbs.
 Nominal Horsepower Rating (at 20 SPM) ----- 2.0
 Reduction Ratio (Double Reduction) ----- 40:1
 Type of Bearings ----- Taperd Roller
 Sheave Pitch Dia, Number of Grooves, and Section ----- 18 inches, 1-AB
 Gear Design ----- Helical, Ductile Iron
 Pinion Design ----- Helical, Heat Treated Steel
 Oil Capacity ----- 2 Gallons

Structure

Structure Rating ----- 3,200 lbs.
 Stroke Length Selections ----- 22" - 26" - 29"
 Well Working Center ----- 34 inches
 Walking Beam size, weight, and section ----- 8" x 15# WF
 Height of Saddle Bearing above top of foundation ----- 54 inches
 Overall Length of T-Base Frame ----- 83 inches
 Overall Length of Wide Base Frame ----- 106 inches
 Width of Base of Samson Post ----- 30 inches
 Main Base Members size, weight, and section ----- 5" x 6.7# C Channel
 Beam Counterweights ----- 70 lbs. each
 Approximate weight of the Pump Jack - T-Base Frame ----- 800 lbs.
 Approximate weight of the Pump Jack - Wide Base Frame ----- 1,000 lbs.
 Wrist Pins equipped with double row taper roller bearings.

Note: This model is not equipped with a brake. (Optional Brake is available.)

Stroke Length	Pump Diameter	Lbs Counterbalance Required Per 100' Depth Sucker Rod Diameter			10 S.P.M.				20 S.P.M.			
					Max Well Depth in Ft Sucker Rod Diameter			Bbbs Per 24 Hours	Max Well Depth in Ft Sucker Rod Diameter			Bbbs Per 24 Hours
		1/2	5/8	3/4	1/2	5/8	3/4		1/2	5/8	3/4	
22	1-1/16	45	68	92	2081	1456	1109	25	1537	1065	808	49
	1-1/4	48	71	95	1836	1332	1035	34	1365	980	758	68
	1-1/2	54	77	101	1547	1173	937	49	1159	874	690	98
	1-3/4	61	84	108	1305	1028	842	67	983	767	623	134
	1-25/32	62	85	109	1277	1011	830	69	963	755	615	138
	2	69	92	116	1104	900	754	87	837	675	561	174
	2-1/8	73	96	120	1019	842	713	98	774	633	532	197
	2-1/4	78	101	125	941	788	674	110	716	594	504	221
	2-1/2	88	111	135	807	692	602	136	617	524	453	273
	2-3/4	99	122	146	698	610	539	165	535	463	407	330
26	1-1/16	45	48	92	2068	1446	1100	29	1277	884	669	58
	1-1/4	48	71	95	1826	1323	1027	40	1136	814	628	80
	1-1/2	54	77	101	1540	1166	930	58	967	723	573	116
	1-3/4	61	84	108	1299	1023	837	79	822	639	519	158
	1-25/32	62	85	109	1272	1006	825	82	806	629	511	164
	2	69	92	116	1101	896	750	103	701	563	468	206
	2-1/8	73	96	120	1015	838	709	116	649	529	444	232
	2-1/4	78	101	125	938	785	671	130	601	497	421	261
	2-1/2	88	111	135	805	699	600	161	518	439	378	322
	2-3/4	99	122	146	696	608	537	195	449	389	340	390
29	1-1/16	45	68	92	2068	1446	1100	33	1132	782	591	65
	1-1/4	48	71	95	1826	1323	1027	45	1008	721	555	90
	1-1/2	54	77	101	1540	1166	930	65	859	641	507	129
	1-3/4	61	84	108	1299	1023	837	88	732	567	460	176
	1-25/32	62	85	109	1272	1006	825	91	717	559	454	182
	2	69	92	116	1101	896	750	115	625	501	415	230
	2-1/8	73	96	120	1015	838	709	130	578	470	394	259
	2-1/4	78	101	125	938	785	671	145	536	442	374	291
	2-1/2	88	111	135	805	690	600	180	462	391	336	359
	2-3/4	99	122	146	696	608	537	217	401	346	303	435

>>>Note: Well Production Based on Pump Efficiency of 80%

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