



**GP RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL**

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SYMMETRICAL DOUBLE-ACTING
IMPERIAL**

Model Number	40 PSI						50 PSI						60 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-350S-942*/D1	1,182,717	734,170	1,292,785	1,177,185	732,178	1,286,731	1,480,562	919,062	1,618,342	1,473,641	916,566	1,610,775	1,778,399	1,103,945	1,943,899	1,770,097	1,100,954	1,934,818
GP-350S-945*/D1	1,292,687	802,436	1,412,987	1,287,147	800,568	1,406,933	1,618,218	1,004,507	1,768,814	1,611,297	1,002,188	1,761,246	1,943,749	1,206,587	2,124,640	1,935,447	1,203,799	2,115,559
GP-350S-960*/D1	1,407,535	873,728	1,538,526	1,397,693	869,330	1,527,763	1,761,990	1,093,758	1,925,967	1,749,687	1,088,262	1,912,514	2,116,444	1,313,788	2,313,409	2,101,681	1,307,194	2,297,265
GP-350S-962*/D1	1,527,277	948,057	1,669,402	1,517,426	943,800	1,658,639	1,911,886	1,186,806	2,089,804	1,899,575	1,181,487	2,076,351	2,296,495	1,425,546	2,510,205	2,281,723	1,419,174	2,494,062
GP-350S-965*/D1	1,657,931	1,029,165	1,812,226	1,648,089	1,025,067	1,801,464	2,073,925	1,287,386	2,266,925	2,061,614	1,282,279	2,253,472	2,489,920	1,545,615	2,721,632	2,475,148	1,539,482	2,705,488
GP-350S-970*/D1	1,787,922	1,109,849	1,954,308	1,778,071	1,105,919	1,943,545	2,236,523	1,388,329	2,444,657	2,224,220	1,383,408	2,431,204	2,685,132	1,666,800	2,935,015	2,670,369	1,660,905	2,918,871
GP-350S-972*/D1	1,922,808	1,193,586	2,101,752	1,912,966	1,189,815	2,090,990	2,405,262	1,493,068	2,629,098	2,392,960	1,488,360	2,615,644	2,887,717	1,792,551	3,156,452	2,872,945	1,786,904	3,140,308
GP-350S-975*/D1	2,062,605	1,280,367	2,254,560	2,052,763	1,276,765	2,243,798	2,580,135	1,601,623	2,820,247	2,567,833	1,597,127	2,806,794	3,097,665	1,922,879	3,385,934	3,082,893	1,917,488	3,369,799
GP-350S-980*/D1	2,207,306	1,370,185	2,412,723	2,197,464	1,366,768	2,401,961	2,761,142	1,713,983	3,018,097	2,748,839	1,709,708	3,004,644	3,314,978	2,057,773	3,623,479	3,300,215	2,052,648	3,607,336
GP-350S-982*/D1	2,356,919	1,463,056	2,576,250	2,347,068	1,459,816	2,565,487	2,948,291	1,830,149	3,222,664	2,935,980	1,826,104	3,209,211	3,539,663	2,197,252	3,869,070	3,524,891	2,192,402	3,852,926
GP-350S-987*/D1	2,511,427	1,558,971	2,745,149	2,501,585	1,555,918	2,734,386	3,141,574	1,950,130	3,433,932	3,129,262	1,946,324	3,420,479	3,771,712	2,341,289	4,122,715	3,756,940	2,336,731	4,106,571
GP-350S-990*/D1	2,670,847	1,657,931	2,919,393	2,660,996	1,655,073	2,908,631	3,340,990	2,073,917	3,651,899	3,328,679	2,070,359	3,638,446	4,011,124	2,489,911	4,384,405	3,996,361	2,485,636	4,368,261
GP-350S-992*/D1	2,835,170	1,759,927	3,099,010	2,825,319	1,757,281	3,088,248	3,546,540	2,201,518	3,876,584	3,534,228	2,198,208	3,863,131	4,257,910	2,643,099	4,654,158	4,243,138	2,639,125	4,638,014
GP-350S-995*/D1	3,004,396	1,864,977	3,283,991	2,994,545	1,862,534	3,273,229	3,758,223	2,332,925	4,107,969	3,745,921	2,329,871	4,094,516	4,512,059	2,800,864	4,931,957	4,497,287	2,797,209	4,915,813
GP-350S-997*/D1	3,178,526	1,973,071	3,474,327	3,168,684	1,970,841	3,463,564	3,976,049	2,468,138	4,346,063	3,963,746	2,465,350	4,332,610	4,773,572	2,963,196	5,217,809	4,758,809	2,959,859	5,201,665



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Model Number	70 PSI Torque Output (lbf-inch)						80 PSI Torque Output (lbf-inch)						90 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-350S-942*/D1	2,076,244	1,288,829	2,269,465	2,066,553	1,285,341	2,258,871	2,374,081	1,473,712	2,595,022	2,363,009	1,469,729	2,582,914	2,671,926	1,658,595	2,920,579	2,659,465	1,654,117	2,906,958
GP-350S-945*/D1	2,269,279	1,408,659	2,480,467	2,259,588	1,405,411	2,469,873	2,594,819	1,610,730	2,836,294	2,583,737	1,607,022	2,824,186	2,920,349	1,812,811	3,192,120	2,907,887	1,808,633	3,178,499
GP-350S-960*/D1	2,470,899	1,533,817	2,700,851	2,453,667	1,526,126	2,682,016	2,825,354	1,753,838	3,088,292	2,805,661	1,745,058	3,066,767	3,179,809	1,973,868	3,475,725	3,157,656	1,963,981	3,451,518
GP-350S-962*/D1	2,681,096	1,664,295	2,930,607	2,663,872	1,656,860	2,911,773	3,065,705	1,903,044	3,351,009	3,046,012	1,894,547	3,329,484	3,450,314	2,141,784	3,771,411	3,428,161	2,132,234	3,747,195
GP-350S-965*/D1	2,905,914	1,803,845	3,176,339	2,888,681	1,796,685	3,157,505	3,321,899	2,062,074	3,631,047	3,302,215	2,053,896	3,609,522	3,737,893	2,320,304	4,085,745	3,715,740	2,311,099	4,061,530
GP-350S-970*/D1	3,133,741	1,945,271	3,425,373	3,116,508	1,938,394	3,406,539	3,582,350	2,223,742	3,915,722	3,562,657	2,215,883	3,894,206	4,030,959	2,502,222	4,406,080	4,008,806	2,493,380	4,381,865
GP-350S-972*/D1	3,370,171	2,092,034	3,683,797	3,352,938	2,085,449	3,664,972	3,852,625	2,391,517	4,211,151	3,832,932	2,383,985	4,189,626	4,335,071	2,691,000	4,738,506	4,312,917	2,682,530	4,714,290
GP-350S-975*/D1	3,615,195	2,244,134	3,951,630	3,597,963	2,237,841	3,932,795	4,132,725	2,565,390	4,517,317	4,113,032	2,558,203	4,495,792	4,650,255	2,886,646	5,083,012	4,628,101	2,878,565	5,058,797
GP-350S-980*/D1	3,868,813	2,401,571	4,228,853	3,851,590	2,395,588	4,210,019	4,422,649	2,745,361	4,834,235	4,402,965	2,738,537	4,812,710						
GP-350S-982*/D1	4,131,034	2,564,345	4,515,476	4,113,811	2,558,690	4,496,641	4,722,415	2,931,439	5,161,881	4,702,722	2,924,978	5,140,356						
GP-350S-987*/D1	4,401,859	2,732,457	4,811,498	4,384,626	2,727,128	4,792,663												
GP-350S-990*/D1	4,681,268	2,905,905	5,116,911	4,664,035	2,900,922	5,098,085												
GP-350S-992*/D1																		
GP-350S-995*/D1																		
GP-350S-997*/D1																		



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Model Number	100 PSI						125 PSI						150 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-350S-942*/D1	2,969,763	1,843,487	3,246,136	2,955,920	1,838,504	3,231,002	3,714,368	2,305,700	4,060,034	3,697,056	2,299,478	4,041,111	4,458,972	2,767,904	4,873,922	4,438,200	2,760,452	4,851,229
GP-350S-945*/D1	3,245,880	2,014,882	3,547,947	3,232,037	2,010,244	3,532,812	4,059,715	2,520,065	4,437,509	4,042,403	2,514,277	4,418,595						
GP-350S-960*/D1	3,534,264	2,193,897	3,863,167	3,509,650	2,182,914	3,836,260	4,420,401	2,743,971	4,831,775	4,389,636	2,730,244	4,798,142						
GP-350S-962*/D1	3,834,924	2,380,533	4,191,813	3,810,310	2,369,921	4,164,906	4,796,443	2,977,401	5,242,813	4,765,677	2,964,134	5,209,180						
GP-350S-965*/D1	4,153,887	2,578,524	4,540,452	4,129,273	2,568,311	4,513,546												
GP-350S-970*/D1	4,479,559	2,780,693	4,896,438	4,454,945	2,770,869	4,869,532												
GP-350S-972*/D1	4,817,525	2,990,483	5,265,851	4,792,911	2,981,074	5,238,945												
GP-350S-975*/D1																		
GP-350S-980*/D1																		
GP-350S-982*/D1																		
GP-350S-987*/D1																		
GP-350S-990*/D1																		
GP-350S-992*/D1																		
GP-350S-995*/D1																		
GP-350S-997*/D1																		



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Model Number	174 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065S-180*/D1	23,685	14,701	25,897	23,030	14,321	25,172
GP-065S-235*/D1						
GP-065S-280*/D1						
GP-085S-180*/D1	31,341	19,454	34,252	30,464	18,949	33,297
GP-085S-235*/D1	53,423	33,155	58,388	52,547	32,677	57,433
GP-085S-280*/D1	75,842	47,077	82,896	74,966	46,626	81,940
GP-085S-335*/D1						
GP-085S-385*/D1						
GP-085S-435*/D1						
GP-100S-335*/D1						
GP-100S-385*/D1						
GP-100S-435*/D1						
GP-100S-485*/D1						
GP-130S-335*/D1	169,855	105,430	185,662	167,412	104,129	182,998
GP-130S-385*/D1	224,526	139,373	245,422	222,092	138,134	242,758
GP-130S-435*/D1						
GP-130S-485*/D1						
GP-130S-535*/D1						
GP-130S-585*/D1						
GP-130S-635*/D1						
GP-161S-435A/D1	357,030	221,627	390,255	353,193	219,678	386,062
GP-161S-485A/D1	443,823	275,503	485,125	439,986	273,661	480,932
GP-161S-535A/D1						
GP-161S-585A/D1						
GP-161S-635A/D1						
GP-161S-685A/D1						
GP-200S-485*/D1	560,961	348,215	613,171	552,340	343,542	603,745
GP-200S-535*/D1	683,163	424,075	746,738	674,542	419,543	737,312
GP-200S-585*/D1						
GP-200S-635*/D1						
GP-200S-685*/D1						
GP-200S-735*/D1						
GP-200S-785*/D1						
GP-200S-835*/D1						
GP-201S-735*/D1						
GP-201S-785*/D1						
GP-201S-835*/D1						
GP-201S-935*/D1						
GP-270S-735*/D1	1,762,777	1,094,245	1,926,826	1,744,394	1,084,969	1,906,726
GP-270S-785*/D1	2,010,766	1,248,186	2,197,898	1,992,383	1,239,211	2,177,798
GP-270S-835*/D1						
GP-270S-935*/D1						
GP-270S-937*/D1						
GP-270S-940*/D1						
GP-270S-945*/D1						
GP-271S-940*/D1						
GP-271S-945*/D1						
GP-271S-960*/D1						
GP-271S-962*/D1						
GP-271S-965*/D1						
GP-271S-970*/D1						
GP-271S-972*/D1						
GP-271S-975*/D1						
GP-271S-980*/D1						
GP-350S-937*/D1	4,148,541	2,575,214	4,534,611	4,124,450	2,565,310	4,508,280
GP-350S-938*/D1	4,275,859	2,654,243	4,673,771	4,251,768	2,644,489	4,647,440
GP-350S-940*/D1	4,714,131	2,926,297	5,152,836	4,690,039	2,917,092	5,126,505



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Model Number	174 PSI					
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-350S-942*/D1						
GP-350S-945*/D1						
GP-350S-960*/D1						
GP-350S-962*/D1						
GP-350S-965*/D1						
GP-350S-970*/D1						
GP-350S-972*/D1						
GP-350S-975*/D1						
GP-350S-980*/D1						
GP-350S-982*/D1						
GP-350S-987*/D1						
GP-350S-990*/D1						
GP-350S-992*/D1						
GP-350S-995*/D1						
GP-350S-997*/D1						



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Model Number	40 PSI			SPRING			50 PSI	SPRING			60 PSI	SPRING						
	Torque Output (lbf-inch)							Torque Output (lbf-inch)										
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO		BTC	RTC	ETC	BTO	RTO	ETO	BTC
GP-200S-585*/C1																		
GP-200S-635*/C1																		
GP-200S-685*/C1																		
GP-200S-735*/C1							151,498	57,388	57,105	284,968	147,949	213,338	167,500	69,000	74,603	285,251	148,126	213,648
GP-200S-785*/C1	118,680	22,481	21,233	284,667	147,763	213,002	203,496	92,729	113,945	284,667	147,763	213,002	288,304	146,737	206,647	284,667	147,763	213,002
GP-200S-835*/C1	162,951	65,894	69,629	284,348	147,560	212,648	258,911	128,159	174,519	284,348	147,560	212,648	354,871	188,574	279,409	284,348	147,560	212,648
GP-200S-935*/C1	259,690	128,646	175,369	283,640	147,108	211,878	380,007	204,328	306,882	283,640	147,108	211,878	500,333	279,498	438,404	283,640	147,108	211,878
GP-200S-937*/C1	312,157	161,756	232,713	283,251	146,869	211,462	445,688	245,396	378,679	283,251	146,869	211,462	579,220	328,699	524,637	283,251	146,869	211,462
GP-200S-535*/C2																		
GP-200S-585*/C2																		
GP-200S-635*/C2																		
GP-200S-685*/C2																		
GP-200S-735*/C2																		
GP-200S-785*/C2																		
GP-200S-835*/C2							192,362	52,343	51,051	386,539	197,186	278,462	221,756	83,613	83,188	386,857	197,389	278,816
GP-200S-935*/C2	193,132	53,166	51,901	385,831	196,743	277,692	313,458	145,657	183,423	385,831	196,743	277,692	288,322	129,398	155,950	386,539	197,186	278,462
GP-200S-937*/C2	245,608	101,129	109,254	385,450	196,504	277,276	379,140	187,556	255,211	385,450	196,504	277,276	433,775	222,083	314,945	385,831	196,743	277,692
GP-201S-835*/C3																		
GP-201S-935*/C3																		
GP-201S-937*/C3																		
GP-201S-835*/C7																		
GP-201S-935*/C7																		
GP-201S-937*/C7							298,084	78,993	76,895	533,045	263,230	357,438	352,720	136,328	136,629	533,426	263,478	357,854
GP-270S-935*/C0																		
GP-270S-937*/C0																		
GP-270S-940*/C0																		
GP-270S-945*/C0																		
GP-270S-962*/C0							842,494	279,772	276,427	1,082,748	491,314	600,417	866,807	305,634	303,005	1,084,049	492,164	601,842
GP-270S-935*/C2													1,136,003	503,537	597,249	1,082,748	491,314	600,417
GP-270S-937*/C2																		
GP-270S-940*/C2																		
GP-270S-945*/C2																		
GP-270S-962*/C2																		
GP-270S-937*/C3																		
GP-270S-940*/C3																		
GP-270S-945*/C3																		
GP-270S-962*/C3																		
GP-270S-935*/C4																		
GP-270S-937*/C4																		
GP-270S-940*/C4																		
GP-270S-945*/C4																		
GP-270S-962*/C4							908,052	349,233	348,091	1,023,430	452,707	535,577	932,373	366,651	374,670	1,024,731	453,566	537,002
GP-271S-945*/C0													1,201,560	546,171	668,913	1,023,430	452,707	535,577
GP-271S-962*/C0							842,494	279,772	276,427	1,082,748	491,314	600,417	866,807	305,634	303,005	1,084,049	492,164	601,842
GP-271S-965*/C0							966,148	390,194	411,595	1,086,651	493,845	604,683	1,136,003	503,537	597,249	1,082,748	491,314	600,417
GP-271S-975*/C0	957,518	384,220	402,152	1,085,527	493,120	603,462	1,352,457	643,219	833,847	1,085,527	493,120	603,462	1,283,607	599,090	758,598	1,086,651	493,845	604,683
GP-271S-945*/C2																		
GP-271S-962*/C2																		
GP-271S-965*/C2													1,225,935	379,441	373,325	1,405,552	593,460	661,717
GP-271S-975*/C2							1,294,785	452,680	448,574	1,404,428	592,717	660,496	1,689,732	745,950	880,278	1,404,428	592,717	660,496
GP-271S-945*/C3																		
GP-271S-962*/C3																		
GP-271S-965*/C3													1,118,124	264,761	255,477	1,503,096	658,053	768,342
GP-271S-975*/C3							1,186,974	337,992	330,735	1,501,972	657,310	767,112	1,581,921	674,861	762,430	1,501,972	657,310	767,112
GP-271S-980*/C3							1,325,108	484,933	481,720	1,501,574	657,044	766,679	1,747,758	783,814	943,702	1,501,574	657,044	766,679
GP-271S-945*/C4													932,373	366,651	374,670	1,024,731	453,566	537,002
GP-271S-962*/C4							908,052	349,233	348,091	1,023,430	452,707	535,577	1,201,560	546,171	668,913	1,023,430	452,707	535,577



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FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	40 PSI						50 PSI						60 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271S-965*/C4	714,256	143,356	136,257	1,027,333	455,274	539,851	1,031,714	434,643	483,260	1,027,333	455,274	539,851	1,349,173	641,113	830,253	1,027,333	455,274	539,851
GP-271S-975*/C4	1,023,076	428,845	473,816	1,026,209	454,539	538,621	1,418,023	685,066	905,511	1,026,209	454,539	538,621	1,812,961	934,896	1,337,207	1,026,209	454,539	538,621
GP-350S-960*/C1																		
GP-350S-970*/C1																		
GP-350S-975*/C1													2,213,997	604,736	590,018	2,306,762	870,117	865,701
GP-350S-980*/C1													2,431,310	835,909	827,554	2,306,240	869,560	865,125
GP-350S-982*/C1							2,064,623	445,839	426,739	2,305,691	868,984	864,532	2,655,995	1,047,106	1,073,153	2,305,691	868,984	864,532
GP-350S-992*/C1	1,951,502	325,504	303,094	2,303,956	867,135	862,629	2,662,872	1,051,956	1,080,668	2,303,956	867,135	862,629	3,374,242	1,526,515	1,858,242	2,303,956	867,135	862,629



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	70 PSI						80 PSI						90 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271S-965*/C4	1,666,632	842,645	1,177,256	1,027,333	455,274	539,851	1,984,090	1,042,477	1,524,258	1,027,333	455,274	539,851	2,301,549	1,241,450	1,871,261	1,027,333	455,274	539,851
GP-271S-975*/C4	2,207,908	1,182,770	1,768,911	1,026,209	454,539	538,621	2,602,855	1,429,786	2,200,606	1,026,209	454,539	538,621						
GP-350S-960*/C1													2,296,141	692,120	679,808	2,303,992	867,170	862,674
GP-350S-970*/C1	2,250,073	643,113	629,448	2,307,762	871,179	866,798	2,698,682	1,077,004	1,119,806	2,307,762	871,179	866,798	3,147,291	1,378,372	1,610,164	2,307,762	871,179	866,798
GP-350S-975*/C1	2,731,527	1,099,741	1,155,713	2,306,762	870,117	865,701	3,249,057	1,445,027	1,721,400	2,306,762	870,117	865,701	3,766,587	1,779,249	2,287,096	2,306,762	870,117	865,701
GP-350S-980*/C1	2,985,146	1,271,224	1,432,936	2,306,240	869,560	865,125	3,538,981	1,633,052	2,038,310	2,306,240	869,560	865,125	4,092,826	1,987,445	2,643,692	2,306,240	869,560	865,125
GP-350S-982*/C1	3,247,367	1,443,929	1,719,559	2,305,691	868,984	864,532	3,838,747	1,825,405	2,365,965	2,305,691	868,984	864,532	4,430,119	2,201,536	3,012,370	2,305,691	868,984	864,532
GP-350S-992*/C1	4,085,612	1,982,860	2,635,806	2,303,956	867,135	862,629	4,796,983	2,433,425	3,413,380	2,303,956	867,135	862,629						



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	100 PSI						125 PSI						150 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271S-965*/C4	2,618,999	1,439,884	2,218,263	1,027,333	455,274	539,851												
GP-271S-975*/C4	0	0	0	0	0	0												
GP-350S-960*/C1	2,650,596	1,043,291	1,067,250	2,303,992	867,170	862,674	3,536,733	1,631,600	2,035,850	2,303,992	867,170	862,674	4,422,870	2,196,951	3,004,458	2,303,992	867,170	862,674
GP-350S-970*/C1	3,595,892	1,669,650	2,100,513	2,307,762	871,179	866,798	4,717,414	2,383,224	3,326,404	2,307,762	871,179	866,798						
GP-350S-975*/C1	4,284,117	2,109,045	2,852,783	2,306,762	870,117	865,701												
GP-350S-980*/C1	4,646,661	2,338,581	3,249,066	2,306,240	869,560	865,125												
GP-350S-982*/C1	5,021,491	2,575,064	3,658,785	2,305,691	868,984	864,532												
GP-350S-992*/C1																		



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	174 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065S-235*/C1	33,686	19,923	33,279	8,753	4,478	6,355
GP-065S-280*/C1						
GP-065S-335*/C1						
GP-065S-385*/C1						
GP-065S-235*/C2	29,871	16,799	26,552	14,321	7,240	10,134
GP-065S-280*/C2						
GP-065S-335*/C2						
GP-065S-385*/C2						
GP-065S-335*/C3						
GP-065S-385*/C3						
GP-065S-280*/C4						
GP-065S-335*/C4						
GP-065S-385*/C4						
GP-085S-235*/C1	44,564	25,942	42,572	12,772	6,257	8,408
GP-085S-280*/C1	66,982	39,881	67,080	12,639	6,169	8,267
GP-085S-335*/C1						
GP-085S-385*/C1						
GP-085S-435*/C1						
GP-085S-280*/C2	61,929	35,456	57,149	20,861	10,054	13,258
GP-085S-335*/C2						
GP-085S-385*/C2						
GP-085S-435*/C2						
GP-085S-335*/C3	86,764	48,847	77,285	33,606	16,029	20,852
GP-085S-385*/C3						
GP-085S-435*/C3						
GP-085S-485*/C3						
GP-085S-280*/C4	59,495	33,677	53,609	23,791	11,656	15,675
GP-085S-335*/C4						
GP-085S-385*/C4						
GP-085S-435*/C4						
GP-085S-485*/C4						
GP-085S-335*/C5	83,613	46,882	73,833	36,465	17,843	23,968
GP-085S-385*/C5						
GP-085S-435*/C5						
GP-085S-385*/C6						
GP-085S-435*/C6						
GP-085S-485*/C6						
GP-085S-435*/C7						
GP-085S-485*/C7						
GP-085S-535*/C7						
GP-100S-385*/C1						
GP-100S-435*/C1						
GP-100S-485*/C1						
GP-100S-535*/C1						
GP-100S-585*/C1						
GP-100S-385*/C2						
GP-100S-435*/C2						
GP-100S-485*/C2						
GP-100S-535*/C2						
GP-100S-585*/C2						
GP-130S-385*/C1	165,571	91,703	142,444	84,109	41,749	57,061
GP-130S-435*/C1	227,916	130,566	210,595	84,038	41,705	56,990
GP-130S-485*/C1	297,660	173,979	286,817	83,746	41,519	56,671
GP-130S-535*/C1						
GP-130S-585*/C1						
GP-130S-635*/C1						
GP-130S-385*/C2	157,083	81,834	118,467	103,952	49,909	65,460



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	174 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-130S-435*/C2	219,428	120,875	186,618	103,881	49,865	65,380
GP-130S-485*/C2	289,172	164,376	262,841	103,589	49,670	65,062
GP-130S-535*/C2						
GP-130S-585*/C2						
GP-130S-635*/C2						
GP-130S-685*/C2						
GP-130S-385*/C3	168,067	95,606	152,994	75,373	38,545	54,591
GP-130S-435*/C3	230,420	134,425	221,145	75,293	38,501	54,521
GP-130S-485*/C3	300,155	177,794	297,376	75,001	38,315	54,193
GP-130S-535*/C3	0	0	0	0	0	0
GP-130S-585*/C3						
GP-130S-385*/C4	157,242	88,853	141,169	85,162	44,705	65,301
GP-130S-435*/C4	219,596	127,681	209,311	85,091	44,661	65,221
GP-130S-485*/C4	289,331	171,067	285,543	84,799	44,475	64,903
GP-130S-535*/C4						
GP-130S-585*/C4						
GP-130S-635*/C4						
GP-130S-685*/C4						
GP-130S-485*/C5	275,444	157,322	252,901	111,812	56,415	78,630
GP-130S-535*/C5						
GP-130S-585*/C5						
GP-130S-635*/C5						
GP-130S-685*/C5						
GP-130S-735*/C5						
GP-130S-535*/C6						
GP-130S-585*/C6						
GP-130S-635*/C6						
GP-130S-685*/C6						
GP-130S-735*/C6						
GP-161S-485A/C2	330,842	190,179	307,907	144,832	75,601	109,704
GP-161S-485A/C3	305,019	174,099	279,681	168,196	90,255	135,242
GP-161S-535A/C2						
GP-161S-535A/C3						
GP-161S-535A/C4	362,060	205,210	327,086	216,478	116,298	174,496
GP-161S-585A/C2						
GP-161S-585A/C3						
GP-161S-585A/C4	468,349	271,400	443,267	216,664	116,415	174,700
GP-161S-585A/C5	429,254	237,482	368,433	278,607	146,171	213,363
GP-161S-635A/C2						
GP-161S-635A/C3						
GP-161S-635A/C4						
GP-161S-635A/C5	545,178	309,779	495,146	278,954	146,390	213,743
GP-161S-685A/C2						
GP-161S-685A/C3						
GP-161S-685A/C4						
GP-161S-685A/C5						
GP-161S-735A/C2						
GP-161S-735A/C3						
GP-161S-735A/C4						
GP-161S-735A/C5						
GP-161S-785A/C3						
GP-161S-785A/C4						
GP-161S-785A/C5						
GP-161S-835A/C4						
GP-161S-835A/C5						
GP-161S-885A/C4						
GP-161S-885A/C5						
GP-200S-535*/C1	465,054	257,495	399,850	284,844	147,869	213,197



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	174 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-200S-585*/C1	599,399	341,267	546,693	285,083	148,020	213,454
GP-200S-635*/C1	745,924	432,510	706,847	285,516	148,294	213,931
GP-200S-685*/C1						
GP-200S-735*/C1						
GP-200S-785*/C1						
GP-200S-835*/C1						
GP-200S-935*/C1						
GP-200S-937*/C1						
GP-200S-535*/C2	398,505	199,823	276,382	387,034	197,504	279,011
GP-200S-585*/C2	532,851	284,304	423,234	387,273	197,655	279,268
GP-200S-635*/C2	679,375	375,944	583,388	387,707	197,929	279,746
GP-200S-685*/C2	837,166	474,365	755,872	387,450	197,761	279,462
GP-200S-735*/C2						
GP-200S-785*/C2						
GP-200S-835*/C2						
GP-200S-935*/C2						
GP-200S-937*/C2						
GP-201S-835*/C3	1,202,366	652,663	991,010	685,092	337,329	456,389
GP-201S-935*/C3						
GP-201S-937*/C3						
GP-201S-835*/C7	1,301,211	736,860	1,173,379	534,134	263,921	358,624
GP-201S-935*/C7						
GP-201S-937*/C7						
GP-270S-935*/C0						
GP-270S-937*/C0						
GP-270S-940*/C0						
GP-270S-945*/C0						
GP-270S-962*/C0						
GP-270S-935*/C2	2,178,435	1,060,311	1,414,465	1,405,393	593,354	661,549
GP-270S-937*/C2						
GP-270S-940*/C2						
GP-270S-945*/C2						
GP-270S-962*/C2						
GP-270S-937*/C3						
GP-270S-940*/C3						
GP-270S-945*/C3						
GP-270S-962*/C3						
GP-270S-935*/C4						
GP-270S-937*/C4						
GP-270S-940*/C4						
GP-270S-945*/C4						
GP-270S-962*/C4						
GP-271S-945*/C0						
GP-271S-962*/C0						
GP-271S-965*/C0						
GP-271S-975*/C0						
GP-271S-945*/C2						
GP-271S-962*/C2						
GP-271S-965*/C2						
GP-271S-975*/C2						
GP-271S-945*/C3						
GP-271S-962*/C3						
GP-271S-965*/C3						
GP-271S-975*/C3						
GP-271S-980*/C3						
GP-271S-945*/C4						
GP-271S-962*/C4						



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	174 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-271S-965*/C4						
GP-271S-975*/C4						
GP-350S-960*/C1						
GP-350S-970*/C1						
GP-350S-975*/C1						
GP-350S-980*/C1						
GP-350S-982*/C1						
GP-350S-992*/C1						



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

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IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	40 PSI						50 PSI						60 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-200S-585*/O1																		
GP-200S-635*/O1																		
GP-200S-685*/O1																		
GP-200S-735*/O1							284,968	147,949	213,338	151,498	57,388	57,105	285,251	148,126	213,648	167,500	69,000	74,603
GP-200S-785*/O1							284,667	147,763	213,002	203,496	92,729	113,945	284,667	147,763	213,002	288,304	146,737	206,647
GP-200S-835*/O1	284,348	147,560	212,648	162,951	65,894	69,629	284,348	147,560	212,648	258,911	128,159	174,519	284,348	147,560	212,648	354,871	188,574	279,409
GP-200S-935*/O1	283,640	147,108	211,878	259,690	128,646	175,369	283,640	147,108	211,878	380,007	204,328	306,882	283,640	147,108	211,878	500,333	279,498	438,404
GP-200S-937*/O1	283,251	146,869	211,462	312,157	161,756	232,713	283,251	146,869	211,462	445,688	245,396	378,679	283,251	146,869	211,462	579,220	328,699	524,637
GP-200S-535*/O2																		
GP-200S-585*/O2																		
GP-200S-635*/O2																		
GP-200S-685*/O2																		
GP-200S-735*/O2																		
GP-200S-785*/O2																		
GP-200S-835*/O2							386,539	197,186	278,462	192,362	52,343	51,051	386,539	197,186	278,462	288,322	129,398	155,950
GP-200S-935*/O2	385,831	196,743	277,692	193,132	53,166	51,901	385,831	196,743	277,692	313,458	145,657	183,423	385,831	196,743	277,692	433,775	222,083	314,945
GP-200S-937*/O2	385,450	196,504	277,276	245,608	101,129	109,254	385,450	196,504	277,276	379,140	187,556	255,211	385,450	196,504	277,276	512,671	271,656	401,178
GP-201S-835*/O3																		
GP-201S-935*/O3																		
GP-201S-937*/O3																		
GP-201S-835*/O7																		
GP-201S-935*/O7																		
GP-201S-937*/O7							533,045	263,230	357,438	298,084	78,993	76,895	533,045	263,230	357,438	431,616	189,795	222,862
GP-270S-935*/O0																		
GP-270S-937*/O0																		
GP-270S-940*/O0																		
GP-270S-945*/O0																		
GP-270S-962*/O0							1,082,748	491,323	600,417	842,494	279,763	276,427	1,082,748	491,323	600,417	1,135,994	503,537	597,249
GP-270S-935*/O2																		
GP-270S-937*/O2																		
GP-270S-940*/O2																		
GP-270S-945*/O2																		
GP-270S-962*/O2																		
GP-270S-937*/O3																		
GP-270S-940*/O3																		
GP-270S-945*/O3																		
GP-270S-962*/O3																		
GP-270S-935*/O4																		
GP-270S-937*/O4																		
GP-270S-940*/O4																		
GP-270S-945*/O4																		
GP-270S-962*/O4							1,023,421	452,707	535,577	908,052	349,233	348,091	1,023,421	452,707	535,577	1,201,560	546,171	668,913
GP-271S-945*/O0																		
GP-271S-962*/O0							1,082,748	491,323	600,417	842,494	279,763	276,427	1,082,748	491,323	600,417	1,135,994	503,537	597,249
GP-271S-965*/O0							1,086,651	493,845	604,692	966,148	390,194	411,595	1,086,651	493,845	604,692	1,283,607	599,090	758,589
GP-271S-975*/O0	1,085,527	493,120	603,462	957,510	384,220	402,152	1,085,527	493,120	603,462	1,352,457	643,219	833,847	1,085,527	493,120	603,462	1,747,404	893,598	1,265,542
GP-271S-945*/O2																		
GP-271S-962*/O2																		
GP-271S-965*/O2																		
GP-271S-975*/O2							1,404,428	592,717	660,496	1,294,785	452,680	448,583	1,404,428	592,717	660,496	1,689,732	745,950	880,278
GP-271S-945*/O3																		
GP-271S-962*/O3																		
GP-271S-965*/O3																		
GP-271S-975*/O3							1,501,972	657,310	767,112	1,186,974	337,992	330,735	1,501,972	657,310	767,112	1,581,921	674,861	762,430
GP-271S-980*/O3							1,501,574	657,044	766,679	1,325,108	484,933	481,720	1,501,574	657,044	766,679	1,747,758	783,814	943,702
GP-271S-945*/O4																		
GP-271S-962*/O4							1,023,421	452,707	535,577	908,052	349,233	348,091	1,023,421	452,707	535,577	1,201,560	546,171	668,913



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
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FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	40 PSI						50 PSI						60 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271S-965"/O4																		
GP-271S-975"/O4	1,026,209	454,539	538,621	1,023,076	428,845	473,816	1,027,333	455,274	539,851	1,031,714	434,643	483,260	1,027,333	455,274	539,851	1,349,173	641,113	830,262
GP-350S-960"/O1																		
GP-350S-970"/O1																		
GP-350S-975"/O1													2,306,762	870,117	865,701	2,213,997	604,736	590,018
GP-350S-980"/O1													2,306,240	869,560	865,125	2,431,310	835,909	827,554
GP-350S-982"/O1							2,305,691	868,984	864,532	2,064,623	445,839	426,739	2,305,691	868,984	864,532	2,655,995	1,047,106	1,073,153
GP-350S-992"/O1							2,303,956	867,135	862,629	2,662,872	1,051,956	1,080,668	2,303,956	867,135	862,629	3,374,242	1,526,515	1,858,242



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	70 PSI						80 PSI						90 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271S-965*/O4	1,027,333	455,274	539,851	1,666,632	842,645	1,177,256	1,027,333	455,274	539,851	1,984,090	1,042,477	1,524,258	1,027,333	455,274	539,851	2,301,549	1,241,450	1,871,261
GP-271S-975*/O4	1,026,209	454,539	538,621	2,207,908	1,182,779	1,768,911	1,026,209	454,539	538,621	2,602,855	1,429,786	2,200,606						
GP-350S-960*/O1													2,303,992	867,170	862,674	2,296,141	692,120	679,808
GP-350S-970*/O1	2,307,762	871,179	866,798	2,250,073	643,113	629,448	2,307,762	871,179	866,798	2,698,682	1,077,004	1,119,806	2,307,762	871,179	866,798	3,147,291	1,378,372	1,610,164
GP-350S-975*/O1	2,306,762	870,117	865,701	2,731,527	1,099,741	1,155,713	2,306,762	870,117	865,701	3,249,057	1,445,027	1,721,400	2,306,762	870,117	865,701	3,766,587	1,779,249	2,287,096
GP-350S-980*/O1	2,306,240	869,560	865,125	2,985,146	1,271,224	1,432,936	2,306,240	869,560	865,125	3,538,981	1,633,052	2,038,310	2,306,240	869,560	865,125	4,092,826	1,987,445	2,643,692
GP-350S-982*/O1	2,305,691	868,984	864,532	3,247,367	1,443,929	1,719,559	2,305,691	868,984	864,532	3,838,747	1,825,405	2,365,965	2,305,691	868,984	864,532	4,430,119	2,201,536	3,012,370
GP-350S-992*/O1	2,303,956	867,135	862,629	4,085,612	1,982,860	2,635,806	2,303,956	867,135	862,629	4,796,983	2,433,425	3,413,380						



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	100 PSI						125 PSI						150 PSI					
	SPRING			Torque Output (lbf-inch)			SPRING			Torque Output (lbf-inch)			SPRING			Torque Output (lbf-inch)		
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271S-965"/O4	1,027,333	455,274	539,851	2,619,008	1,439,884	2,218,263												
GP-271S-975"/O4																		
GP-350S-960"/O1	2,303,992	867,170	862,674	2,650,596	1,043,291	1,067,250	2,303,992	867,170	862,674	3,536,733	1,631,600	2,035,850	2,303,992	867,170	862,674	4,422,870	2,196,951	3,004,458
GP-350S-970"/O1	2,307,762	871,179	866,798	3,595,892	1,669,650	2,100,513	2,307,762	871,179	866,798	4,717,414	2,383,224	3,326,404						
GP-350S-975"/O1	2,306,762	870,117	865,701	4,284,117	2,109,045	2,852,783												
GP-350S-980"/O1	2,306,240	869,560	865,125	4,646,661	2,338,581	3,249,066												
GP-350S-982"/O1	2,305,691	868,984	864,532	5,021,491	2,575,064	3,658,785												
GP-350S-992"/O1																		



**GP RANGE TORQUE DATA
 SYMMETRICAL SPRING-RETURN
 FAIL OPEN, CLOCK WISE TO CLOSE
 IMPERIAL**

Model Number	SPRING			174 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065S-235*/O1	8,745	4,478	6,346	33,695	19,923	33,279
GP-065S-280*/O1						
GP-065S-335*/O1						
GP-065S-385*/O1						
GP-065S-235*/O2	14,312	7,240	10,125	29,871	16,799	26,552
GP-065S-280*/O2						
GP-065S-335*/O2						
GP-065S-385*/O2						
GP-065S-335*/O3						
GP-065S-385*/O3						
GP-065S-280*/O4						
GP-065S-335*/O4						
GP-065S-385*/O4						
GP-085S-235*/O1	12,772	6,249	8,399	44,572	25,942	42,581
GP-085S-280*/O1	12,639	6,169	8,258	66,991	39,890	67,089
GP-085S-335*/O1						
GP-085S-385*/O1						
GP-085S-435*/O1						
GP-085S-280*/O2	20,852	10,054	13,250	61,938	35,456	57,158
GP-085S-335*/O2						
GP-085S-385*/O2						
GP-085S-435*/O2						
GP-085S-335*/O3	33,606	16,020	20,844	86,773	48,847	77,294
GP-085S-385*/O3						
GP-085S-435*/O3						
GP-085S-485*/O3						
GP-085S-280*/O4	23,782	11,648	15,666	59,504	33,686	53,627
GP-085S-335*/O4						
GP-085S-385*/O4						
GP-085S-435*/O4						
GP-085S-485*/O4						
GP-085S-335*/O5	36,456	17,843	23,968	83,613	46,882	73,842
GP-085S-385*/O5						
GP-085S-435*/O5						
GP-085S-385*/O6						
GP-085S-435*/O6						
GP-085S-485*/O6						
GP-085S-435*/O7						
GP-085S-485*/O7						
GP-085S-535*/O7						
GP-100S-385*/O1						
GP-100S-435*/O1						
GP-100S-485*/O1						
GP-100S-535*/O1						
GP-100S-585*/O1						
GP-100S-385*/O2						
GP-100S-435*/O2						
GP-100S-485*/O2						
GP-100S-535*/O2						
GP-100S-585*/O2						
GP-130S-385*/O1	84,109	41,758	57,070	165,571	91,694	142,444
GP-130S-435*/O1	84,038	41,705	56,990	227,916	130,566	210,586
GP-130S-485*/O1	83,746	41,528	56,671	297,660	173,979	286,817
GP-130S-535*/O1						
GP-130S-585*/O1						
GP-130S-635*/O1						
GP-130S-385*/O2	103,952	49,909	65,460	157,083	81,834	118,467



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	SPRING			174 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-130S-435*/O2	103,881	49,865	65,380	219,428	120,875	186,618
GP-130S-485*/O2	103,589	49,670	65,062	289,172	164,376	262,841
GP-130S-535*/O2						
GP-130S-585*/O2						
GP-130S-635*/O2						
GP-130S-685*/O2						
GP-130S-385*/O3	75,364	38,536	54,583	168,076	95,606	153,012
GP-130S-435*/O3	75,284	38,492	54,512	230,429	134,425	221,154
GP-130S-485*/O3	75,001	38,306	54,184	300,164	177,803	297,385
GP-130S-535*/O3						
GP-130S-585*/O3						
GP-130S-385*/O4	85,153	44,696	65,292	157,251	88,862	141,178
GP-130S-435*/O4	85,082	44,652	65,212	219,605	127,690	209,320
GP-130S-485*/O4	84,790	44,466	64,894	289,340	171,067	285,552
GP-130S-535*/O4						
GP-130S-585*/O4						
GP-130S-635*/O4						
GP-130S-685*/O4						
GP-130S-485*/O5	111,812	56,415	78,630	275,444	157,322	252,901
GP-130S-535*/O5						
GP-130S-585*/O5						
GP-130S-635*/O5						
GP-130S-685*/O5						
GP-130S-735*/O5						
GP-130S-535*/O6						
GP-130S-585*/O6						
GP-130S-635*/O6						
GP-130S-685*/O6						
GP-130S-735*/O6						
GP-161S-485A/O2	144,821	75,594	109,692	330,853	190,187	307,920
GP-161S-485A/O3	168,185	90,248	135,230	305,030	174,106	279,694
GP-161S-535A/O2	144,871	75,625	109,746	427,532	250,363	413,596
GP-161S-535A/O3	168,234	90,279	135,284	401,709	234,302	385,370
GP-161S-535A/O4	216,484	116,302	174,503	362,052	205,205	327,078
GP-161S-585A/O2	145,057	75,743	109,950	533,822	316,473	529,777
GP-161S-585A/O3	168,421	90,396	135,488	507,999	300,411	501,551
GP-161S-585A/O4	216,671	116,419	174,707	468,342	271,396	443,259
GP-161S-585A/O5	278,595	146,164	213,351	429,267	237,490	368,447
GP-161S-635A/O2						
GP-161S-635A/O3						
GP-161S-635A/O4						
GP-161S-635A/O5	278,943	146,382	213,731	545,191	309,787	495,159
GP-161S-685A/O2						
GP-161S-685A/O3						
GP-161S-685A/O4						
GP-161S-685A/O5						
GP-161S-735A/O2						
GP-161S-735A/O3						
GP-161S-735A/O4						
GP-161S-735A/O5						
GP-161S-785A/O3						
GP-161S-785A/O4						
GP-161S-785A/O5						
GP-161S-835A/O4						
GP-161S-835A/O5						
GP-161S-885A/O4						
GP-161S-885A/O5						
GP-200S-535*/O1	284,844	147,869	213,197	465,054	257,495	399,850



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	SPRING			174 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-200S-585"/O1	285,083	148,020	213,454	599,399	341,267	546,693
GP-200S-635"/O1	285,516	148,294	213,931	745,924	432,510	706,847
GP-200S-685"/O1						
GP-200S-735"/O1						
GP-200S-785"/O1						
GP-200S-835"/O1						
GP-200S-935"/O1						
GP-200S-937"/O1						
GP-200S-535"/O2	387,034	197,504	279,011	398,505	199,823	276,382
GP-200S-585"/O2	387,273	197,655	279,268	532,851	284,304	423,234
GP-200S-635"/O2	387,707	197,929	279,746	679,375	375,944	583,388
GP-200S-685"/O2	387,450	197,761	279,462	837,166	474,365	755,872
GP-200S-735"/O2						
GP-200S-785"/O2						
GP-200S-835"/O2						
GP-200S-935"/O2						
GP-200S-937"/O2						
GP-201S-835"/O3	697,147	344,958	469,559	1,189,045	644,335	976,450
GP-201S-935"/O3						
GP-201S-937"/O3						
GP-201S-835"/O7	534,134	263,921	358,624	1,301,211	736,860	1,173,379
GP-201S-935"/O7						
GP-201S-937"/O7						
GP-270S-935"/O0						
GP-270S-937"/O0						
GP-270S-940"/O0						
GP-270S-945"/O0						
GP-270S-962"/O0						
GP-270S-935"/O2	1,405,393	593,354	661,549	2,178,435	1,060,311	1,414,465
GP-270S-937"/O2						
GP-270S-940"/O2						
GP-270S-945"/O2						
GP-270S-962"/O2						
GP-270S-937"/O3						
GP-270S-940"/O3						
GP-270S-945"/O3						
GP-270S-962"/O3						
GP-270S-935"/O4						
GP-270S-937"/O4						
GP-270S-940"/O4						
GP-270S-945"/O4						
GP-270S-962"/O4						
GP-271S-945"/O0						
GP-271S-962"/O0						
GP-271S-965"/O0						
GP-271S-975"/O0						
GP-271S-945"/O2						
GP-271S-962"/O2						
GP-271S-965"/O2						
GP-271S-975"/O2						
GP-271S-945"/O3						
GP-271S-962"/O3						
GP-271S-965"/O3						
GP-271S-975"/O3						
GP-271S-980"/O3						
GP-271S-945"/O4						
GP-271S-962"/O4						



GP RANGE TORQUE DATA
SYMMETRICAL SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	SPRING			174 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-271S-965*/O4						
GP-271S-975*/O4						
GP-350S-960*/O1	2,303,992	867,170	862,674	5,273,569	2,733,625	3,934,318
GP-350S-970*/O1						
GP-350S-975*/O1						
GP-350S-980*/O1						
GP-350S-982*/O1						
GP-350S-992*/O1						



**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

Model Number	40 PSI Torque Output (lbf-inch)						50 PSI Torque Output (lbf-inch)						60 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-350C-942*/D1	1,857,056	725,142	1,028,696	993,169	723,505	2,041,806	2,324,703	907,751	1,287,758	1,243,291	905,706	2,555,999	2,792,359	1,090,359	1,546,810	1,493,405	1,087,908	3,070,201
GP-350C-945*/D1	2,029,716	792,558	1,124,346	1,085,952	791,089	2,232,540	2,540,847	992,151	1,407,482	1,359,431	990,310	2,794,766	3,051,986	1,191,736	1,690,626	1,632,910	1,189,532	3,356,992
GP-350C-960*/D1	2,210,050	862,975	1,224,236	1,179,212	859,027	2,424,274	2,766,594	1,080,296	1,532,534	1,476,181	1,075,366	3,034,798	3,323,138	1,297,617	1,840,832	1,773,159	1,291,705	3,645,323
GP-350C-962*/D1	2,398,058	936,392	1,328,383	1,280,234	932,621	2,631,956	3,001,944	1,172,202	1,662,905	1,602,650	1,167,494	3,294,780	3,605,840	1,408,013	1,997,428	1,925,056	1,402,357	3,957,613
GP-350C-965*/D1	2,603,209	1,016,500	1,442,026	1,390,471	1,012,924	2,858,580	3,256,377	1,271,552	1,803,845	1,739,358	1,267,082	3,575,845	3,909,544	1,526,604	2,165,672	2,088,255	1,521,240	4,293,109
GP-350C-970*/D1	2,807,307	1,096,192	1,555,086	1,500,140	1,092,811	3,084,044	3,511,686	1,371,247	1,945,271	1,876,545	1,367,016	3,857,874	4,216,064	1,646,293	2,335,465	2,252,950	1,641,221	4,631,704
GP-350C-972*/D1	3,019,106	1,178,902	1,672,411	1,613,943	1,175,716	3,318,005	3,776,633	1,474,694	2,092,034	2,018,909	1,470,720	4,150,542	4,534,151	1,770,495	2,511,666	2,423,866	1,765,733	4,983,078
GP-350C-975*/D1	3,238,604	1,264,613	1,794,003	1,731,888	1,261,639	3,560,480	4,051,201	1,581,912	2,244,134	2,166,442	1,578,204	4,453,857						
GP-350C-980*/D1	3,465,812	1,353,333	1,919,860	1,853,975	1,350,571	3,811,460	4,335,416	1,692,892	2,401,571	2,319,162	1,689,449	4,767,811						
GP-350C-982*/D1	3,700,711	1,445,053	2,049,984	1,980,196	1,442,522	4,070,956	4,629,261	1,807,633	2,564,345	2,477,051	1,804,473	5,092,412						
GP-350C-987*/D1	3,943,319	1,539,792	2,184,374	2,110,550	1,537,481	4,338,956												
GP-350C-990*/D1	4,193,627	1,637,530	2,323,030	2,245,055	1,635,468	4,615,454												
GP-350C-992*/D1	4,451,644	1,738,278	2,465,961	2,383,684	1,736,455	4,900,474												
GP-350C-995*/D1	4,717,352	1,842,036	2,613,149	2,526,464	1,840,469	5,193,992												
GP-350C-997*/D1																		



**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

Model Number	70 PSI						80 PSI						90 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-350C-942*/D1	3,260,014	1,272,968	1,805,863	1,743,518	1,270,109	3,584,394	3,727,670	1,455,585	2,064,915	1,993,640	1,452,320	4,098,596	3,727,670	1,455,585	2,064,915	1,993,640	1,452,320	4,098,596
GP-350C-945*/D1	3,563,117	1,391,329	1,973,762	1,906,390	1,388,753	3,919,218	4,074,257	1,590,913	2,256,906	2,179,869	1,587,984	4,481,453	4,074,257	1,590,913	2,256,906	2,179,869	1,587,984	4,481,453
GP-350C-960*/D1	3,879,691	1,514,939	2,149,130	2,070,128	1,508,044	4,255,848	4,436,235	1,732,260	2,457,420	2,367,107	1,724,374	4,866,381	4,436,235	1,732,260	2,457,420	2,367,107	1,724,374	4,866,381
GP-350C-962*/D1	4,209,735	1,643,814	2,331,951	2,247,471	1,637,229	4,620,437	4,813,631	1,879,625	2,666,474	2,569,886	1,872,102	5,283,260	4,813,631	1,879,625	2,666,474	2,569,886	1,872,102	5,283,260
GP-350C-965*/D1	4,562,721	1,781,656	2,527,491	2,437,143	1,775,398	5,010,365												
GP-350C-970*/D1																		
GP-350C-972*/D1																		
GP-350C-975*/D1																		
GP-350C-980*/D1																		
GP-350C-982*/D1																		
GP-350C-987*/D1																		
GP-350C-990*/D1																		
GP-350C-992*/D1																		
GP-350C-995*/D1																		
GP-350C-997*/D1																		



**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

Model Number	100 PSI Torque Output (lbf-inch)						125 PSI Torque Output (lbf-inch)						150 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-180*/D1	21,286	8,311	11,789	11,117	8,098	22,853	26,658	10,408	14,763	13,922	10,143	28,623	32,031	12,506	17,746	16,728	12,187	34,403
GP-065C-235*/D1																		
GP-065C-280*/D1																		
GP-085C-180*/D1	28,154	10,993	15,595	14,701	10,709	30,234	35,270	13,772	19,534	18,418	13,418	37,872	42,377	16,542	23,472	22,136	16,126	45,511
GP-085C-235*/D1	47,998	18,737	26,588	25,366	18,472	52,149	60,114	23,472	33,297	31,774	23,145	65,319	72,240	28,207	40,014	38,182	27,809	78,488
GP-085C-280*/D1	68,133	26,605	37,740	36,182	26,358	74,399												
GP-085C-335*/D1																		
GP-085C-385*/D1																		
GP-085C-435*/D1																		
GP-100C-335*/D1																		
GP-100C-385*/D1																		
GP-100C-435*/D1																		
GP-100C-485*/D1																		
GP-130C-335*/D1	152,605	59,583	84,534	80,816	58,875	166,146	191,150	74,638	105,882	101,235	73,744	208,117	229,695	89,685	127,238	121,645	88,614	250,087
GP-130C-385*/D1	201,859	78,816	111,812	107,280	78,152	220,552	252,760	98,695	140,010	134,337	97,863	276,179						
GP-130C-435*/D1	258,070	100,766	142,948	137,169	99,925	282,003												
GP-130C-485*/D1																		
GP-130C-535*/D1																		
GP-130C-585*/D1																		
GP-130C-635*/D1																		
GP-161C-435A/D1	204,554	126,977	223,590	202,349	125,856	221,180	256,066	158,953	279,896	253,310	157,553	276,883	307,578	190,930	336,202	304,271	189,249	332,587
GP-161C-485A/D1	254,281	157,845	277,944	252,076	156,785	275,534	318,315	197,594	347,938	315,559	196,270	344,925	382,350	237,344	417,931	379,042	235,755	414,316
GP-161C-535A/D1	309,864	192,349	338,701	307,659	191,357	336,290	387,782	240,716	423,870	385,026	239,477	420,857	465,700	289,084	509,039	462,393	287,597	505,423
GP-161C-585A/D1	371,030	230,317	405,558	368,307	229,078	402,582	464,192	288,148	507,391	460,789	286,600	503,671						
GP-161C-635A/D1	437,801	271,765	478,543	435,078	270,608	475,567												
GP-161C-685A/D1	509,460	316,248	556,871	506,738	315,179	553,895												
GP-200C-485*/D1	504,634	197,053	279,542	266,974	194,486	548,862	631,722	246,670	349,932	334,213	243,466	687,093	758,801	296,297	420,331	401,452	292,446	825,324
GP-200C-535*/D1	614,950	240,121	340,648	326,247	237,660	670,719	769,582	300,501	426,305	408,294	297,429	839,387						
GP-200C-585*/D1	736,338	287,525	407,887	391,469	285,180	804,808												
GP-200C-635*/D1																		
GP-200C-685*/D1																		
GP-200C-735*/D1																		
GP-200C-785*/D1																		
GP-200C-835*/D1																		
GP-201C-735*/D1	1,164,051	454,539	644,813	621,296	452,601	1,277,287												
GP-201C-785*/D1																		
GP-201C-835*/D1																		
GP-201C-935*/D1																		
GP-270C-735*/D1	1,588,736	620,367	880,074	844,760	615,384	1,736,694	1,987,082	775,919	1,100,732	1,056,567	769,688	2,172,142						
GP-270C-785*/D1	1,812,244	707,644	1,003,879	964,856	702,873	1,983,595												
GP-270C-835*/D1																		
GP-270C-935*/D1																		
GP-270C-937*/D1																		
GP-270C-940*/D1																		
GP-270C-945*/D1																		
GP-271C-940*/D1																		
GP-271C-945*/D1																		
GP-271C-960*/D1																		
GP-271C-962*/D1																		
GP-271C-965*/D1																		
GP-271C-970*/D1																		
GP-271C-972*/D1																		
GP-271C-975*/D1																		
GP-271C-980*/D1																		
GP-350C-937*/D1	3,738,955	1,459,993	2,071,173	1,997,366	1,455,037	4,106,261	4,676,418	1,826,051	2,590,473	2,498,168	1,819,856	5,135,834						
GP-350C-938*/D1	3,853,705	1,504,796	2,134,730	2,059,021	1,499,945	4,233,013	4,819,933	1,882,085	2,669,970	2,575,285	1,876,032	5,294,368						
GP-350C-940*/D1	4,248,705	1,659,038	2,353,547	2,271,271	1,654,568	4,669,364												



GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	100 PSI Torque Output (lbf-inch)						125 PSI Torque Output (lbf-inch)						150 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-350C-942*/D1	4,662,982	1,820,803	2,583,029	2,493,867	1,816,723	5,126,992												
GP-350C-945*/D1																		
GP-350C-960*/D1																		
GP-350C-962*/D1																		
GP-350C-965*/D1																		
GP-350C-970*/D1																		
GP-350C-972*/D1																		
GP-350C-975*/D1																		
GP-350C-980*/D1																		
GP-350C-982*/D1																		
GP-350C-987*/D1																		
GP-350C-990*/D1																		
GP-350C-992*/D1																		
GP-350C-995*/D1																		
GP-350C-997*/D1																		



**GP RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL**

Model Number	174 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-180*/D1						
GP-065C-235*/D1						
GP-065C-280*/D1						
GP-085C-180*/D1	49,210	19,215	27,260	25,703	18,719	52,839
GP-085C-235*/D1						
GP-085C-280*/D1						
GP-085C-335*/D1						
GP-085C-385*/D1						
GP-085C-435*/D1						
GP-100C-335*/D1						
GP-100C-385*/D1						
GP-100C-435*/D1						
GP-100C-485*/D1						
GP-130C-335*/D1	266,691	104,138	147,728	141,249	102,890	290,384
GP-130C-385*/D1						
GP-130C-435*/D1						
GP-130C-485*/D1						
GP-130C-535*/D1						
GP-130C-585*/D1						
GP-130C-635*/D1						
GP-161C-435A/D1	357,030	221,627	390,255	353,193	219,678	386,062
GP-161C-485A/D1	443,823	275,503	485,125	439,986	273,661	480,932
GP-161C-535A/D1						
GP-161C-585A/D1						
GP-161C-635A/D1						
GP-161C-685A/D1						
GP-200C-485*/D1						
GP-200C-535*/D1						
GP-200C-585*/D1						
GP-200C-635*/D1						
GP-200C-685*/D1						
GP-200C-735*/D1						
GP-200C-785*/D1						
GP-200C-835*/D1						
GP-201C-735*/D1						
GP-201C-785*/D1						
GP-201C-835*/D1						
GP-201C-935*/D1						
GP-270C-735*/D1						
GP-270C-785*/D1						
GP-270C-835*/D1						
GP-270C-935*/D1						
GP-270C-937*/D1						
GP-270C-940*/D1						
GP-270C-945*/D1						
GP-271C-940*/D1						
GP-271C-945*/D1						
GP-271C-960*/D1						
GP-271C-962*/D1						
GP-271C-965*/D1						
GP-271C-970*/D1						
GP-271C-972*/D1						
GP-271C-975*/D1						
GP-271C-980*/D1						
GP-350C-937*/D1						
GP-350C-938*/D1						
GP-350C-940*/D1						



GP RANGE TORQUE DATA
 CANTED DOUBLE-ACTING
 IMPERIAL

Model Number	174 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-350C-942*/D1						
GP-350C-945*/D1						
GP-350C-960*/D1						
GP-350C-962*/D1						
GP-350C-965*/D1						
GP-350C-970*/D1						
GP-350C-972*/D1						
GP-350C-975*/D1						
GP-350C-980*/D1						
GP-350C-982*/D1						
GP-350C-987*/D1						
GP-350C-990*/D1						
GP-350C-992*/D1						
GP-350C-995*/D1						
GP-350C-997*/D1						



**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL**

Model Number	40 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/C1						
GP-065C-280*/C1	9,780	2,345	2,461	7,408	4,664	9,913
GP-065C-335*/C1	18,533	5,850	7,311	7,284	4,576	9,656
GP-065C-385*/C1	27,986	9,559	12,550	7,231	4,532	9,550
GP-065C-235*/C2						
GP-065C-280*/C2						
GP-065C-335*/C2						
GP-065C-385*/C2	21,994	6,142	7,107	12,010	7,479	15,542
GP-065C-335*/C3						
GP-065C-385*/C3						
GP-065C-280*/C4						
GP-065C-335*/C4						
GP-065C-385*/C4	15,011	2,841	2,823	15,763	10,143	22,516
GP-085C-235*/C1						
GP-085C-280*/C1						
GP-085C-335*/C1	24,517	7,134	8,470	10,701	6,496	12,780
GP-085C-385*/C1	37,023	12,072	15,400	10,630	6,443	12,630
GP-085C-435*/C1	51,352	17,693	23,339	10,585	6,417	12,550
GP-085C-280*/C2						
GP-085C-335*/C2						
GP-085C-385*/C2	29,092	6,983	7,337	17,702	10,665	20,569
GP-085C-435*/C2	43,422	12,780	15,276	17,666	10,639	20,489
GP-085C-335*/C3						
GP-085C-385*/C3						
GP-085C-435*/C3	46,900	10,975	11,373	28,641	17,144	32,535
GP-085C-280*/C4						
GP-085C-335*/C4						
GP-085C-385*/C4						
GP-085C-435*/C4	39,589	10,878	12,435	20,162	12,285	24,313
GP-085C-485*/C4	55,450	17,179	21,215	20,003	12,161	23,994
GP-085C-335*/C5						
GP-085C-385*/C5						
GP-085C-435*/C5						
GP-085C-385*/C6						
GP-085C-435*/C6						
GP-085C-485*/C6						
GP-085C-435*/C7						
GP-085C-485*/C7						
GP-085C-535*/C7						
GP-100C-385*/C1						
GP-100C-435*/C1						
GP-100C-485*/C1						
GP-100C-535*/C1						
GP-100C-585*/C1	94,190	21,693	22,277	48,378	27,482	45,537
GP-100C-385*/C2						
GP-100C-435*/C2						
GP-100C-485*/C2						
GP-100C-535*/C2						
GP-100C-585*/C2						
GP-130C-385*/C1						
GP-130C-435*/C1						
GP-130C-485*/C1						
GP-130C-535*/C1						
GP-130C-585*/C1	93,446	19,728	19,711	72,027	44,404	90,242
GP-130C-635*/C1	127,407	34,199	38,518	72,266	44,581	90,729
GP-130C-385*/C2						

Model Number	50 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/C1						
GP-065C-280*/C1	14,984	4,443	5,346	7,408	4,664	9,913
GP-065C-335*/C1	25,977	8,771	11,435	7,284	4,576	9,656
GP-065C-385*/C1						
GP-065C-235*/C2						
GP-065C-280*/C2						
GP-065C-335*/C2	19,985	5,337	5,992	12,064	7,523	15,657
GP-065C-385*/C2	31,827	10,046	12,559	12,010	7,479	15,542
GP-065C-335*/C3						
GP-065C-385*/C3						
GP-065C-280*/C4						
GP-065C-335*/C4						
GP-065C-385*/C4	24,853	7,072	8,275	15,763	10,143	22,516
GP-085C-235*/C1						
GP-085C-280*/C1						
GP-085C-335*/C1	19,817	5,248	5,868	10,860	6,620	13,117
GP-085C-385*/C1	34,367	11,028	13,931	10,701	6,496	12,780
GP-085C-435*/C1	50,042	17,179	22,614	10,630	6,443	12,630
GP-085C-280*/C2	67,974	24,198	32,544	10,585	6,417	12,550
GP-085C-335*/C2						
GP-085C-385*/C2	42,103	12,258	14,551	17,702	10,665	20,569
GP-085C-435*/C2	60,035	19,339	24,481	17,666	10,639	20,489
GP-085C-335*/C3						
GP-085C-385*/C3						
GP-085C-435*/C3	47,652	11,294	11,789	28,800	17,259	32,863
GP-085C-485*/C3	67,558	19,401	22,817	28,641	17,144	32,535
GP-085C-280*/C4						
GP-085C-335*/C4						
GP-085C-385*/C4	38,279	10,347	11,701	20,197	12,311	24,393
GP-085C-435*/C4	56,202	17,480	21,640	20,162	12,285	24,313
GP-085C-485*/C4	76,108	25,304	32,659	20,003	12,161	23,994
GP-085C-335*/C5						
GP-085C-385*/C5						
GP-085C-435*/C5	42,696	9,054	9,045	31,208	19,038	37,810
GP-085C-385*/C6						
GP-085C-435*/C6						
GP-085C-485*/C6	54,937	12,090	12,161	37,996	23,047	45,148
GP-085C-435*/C7						
GP-085C-485*/C7						
GP-085C-535*/C7	61,194	12,568	12,542	48,582	30,031	61,362
GP-100C-385*/C1						
GP-100C-435*/C1						
GP-100C-485*/C1						
GP-100C-535*/C1						
GP-100C-585*/C1	100,509	24,384	25,782	48,290	27,411	45,342
GP-100C-385*/C2						
GP-100C-435*/C2						
GP-100C-485*/C2						
GP-100C-535*/C2						
GP-100C-585*/C2						
GP-130C-385*/C1						
GP-130C-435*/C1						
GP-130C-485*/C1						
GP-130C-535*/C1						
GP-130C-585*/C1	101,766	23,587	24,313	71,903	44,316	89,986
GP-130C-635*/C1	140,461	39,457	45,750	72,027	44,404	90,242
GP-130C-385*/C2	182,803	56,273	69,204	72,266	44,581	90,729

Model Number	60 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/C1						
GP-065C-280*/C1	11,117	2,894	3,204	7,497	4,726	10,081
GP-065C-335*/C1	20,189	6,496	8,231	7,408	4,664	9,913
GP-065C-385*/C1	33,429	11,692	15,560	7,284	4,576	9,656
GP-065C-235*/C2						
GP-065C-280*/C2						
GP-065C-335*/C2						
GP-065C-385*/C2						
GP-065C-335*/C3						
GP-065C-385*/C3						
GP-065C-280*/C4						
GP-065C-335*/C4						
GP-065C-385*/C4	26,030	5,877	5,974	22,569	14,356	31,172
GP-085C-235*/C1						
GP-085C-280*/C1						
GP-085C-335*/C1	20,454	5,302	5,841	15,825	10,187	22,623
GP-085C-385*/C1	34,695	10,966	13,728	15,763	10,143	22,516
GP-085C-435*/C1	14,701	3,036	3,036	10,966	6,700	13,338
GP-085C-280*/C2	26,703	8,001	9,683	10,860	6,620	13,117
GP-085C-335*/C2	44,227	14,896	19,392	10,701	6,496	12,780
GP-085C-385*/C2	63,062	22,277	29,818	10,630	6,443	12,630
GP-085C-435*/C2	84,587	30,694	41,749	10,585	6,417	12,550
GP-085C-335*/C3						
GP-085C-385*/C3						
GP-085C-435*/C3	42,740	9,081	9,072	28,836	17,286	32,942
GP-085C-485*/C3	64,265	18,082	20,994	28,800	17,259	32,863
GP-085C-280*/C4	88,215	27,579	34,261	28,641	17,144	32,535
GP-085C-335*/C4						
GP-085C-385*/C4	32,456	7,966	8,479	20,268	12,364	24,543
GP-085C-435*/C4	51,290	15,533	18,914	20,197	12,311	24,393
GP-085C-485*/C4	72,815	24,012	30,836	20,162	12,285	24,313
GP-085C-335*/C5						
GP-085C-385*/C5						
GP-085C-435*/C5	59,318	16,091	18,250	31,208	19,038	37,810
GP-085C-385*/C6						
GP-085C-435*/C6						
GP-085C-485*/C6	51,653	10,373	10,338	38,147	23,162	45,466
GP-085C-435*/C7	75,594	20,693	23,605	37,996	23,047	45,148
GP-085C-485*/C7						
GP-085C-535*/C7	59,415	11,603	11,559	48,564	30,013	61,318
GP-100C-385*/C1	86,321	23,366	26,464	48,582	30,031	61,362
GP-100C-435*/C1						
GP-100C-485*/C1						
GP-100C-535*/C1						
GP-100C-585*/C1	98,403	23,490	24,614	48,263	27,393	45,289
GP-100C-385*/C2						
GP-100C-435*/C2						
GP-100C-485*/C2						
GP-100C-535*/C2						
GP-100C-585*/C2						
GP-130C-385*/C1						
GP-130C-435*/C1						
GP-130C-485*/C1						
GP-130C-535*/C1						
GP-130C-585*/C1	98,987	22,375	22,773	71,868	44,289	89,915
GP-130C-635*/C1	141,081	39,704	46,095	71,903	44,316	89,986
GP-130C-385*/C2	187,477	58,123	71,797	72,027	44,404	90,242
GP-130C-435*/C2	238,200	78,081	99,890	72,266	44,581	90,729



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	40 PSI			SPRING			50 PSI	SPRING			60 PSI	SPRING						
	Torque Output (lbf-inch)							Torque Output (lbf-inch)										
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO		BTC	RTC	ETC	BTO	RTO	ETO	BTC
GP-130C-435*/C2																		
GP-130C-485*/C2																		
GP-130C-535*/C2																		
GP-130C-585*/C2																		
GP-130C-635*/C2																		
GP-130C-685*/C2	150,091	36,616	38,855	89,331	53,813	103,757												
GP-130C-685*/C3																		
GP-130C-435*/C3																		
GP-130C-485*/C3																		
GP-130C-535*/C3																		
GP-130C-585*/C3	97,367	25,561	28,384	64,407	40,572	86,330												
GP-130C-635*/C3																		
GP-130C-685*/C3																		
GP-130C-435*/C4																		
GP-130C-485*/C4																		
GP-130C-535*/C4																		
GP-130C-585*/C4	80,374	18,480	18,976	72,674	46,688	103,315												
GP-130C-635*/C4	114,334	32,403	37,784	72,904	46,865	103,802												
GP-130C-685*/C4																		
GP-130C-485*/C5																		
GP-130C-535*/C5																		
GP-130C-585*/C5																		
GP-130C-635*/C5																		
GP-130C-685*/C5	128,539	30,057	31,128	96,110	60,008	125,291												
GP-130C-735*/C5	167,270	45,980	52,582	95,960	59,893	124,981												
GP-130C-535*/C6																		
GP-130C-585*/C6																		
GP-130C-635*/C6																		
GP-130C-685*/C6																		
GP-130C-735*/C6																		
GP-161C-485A/C2																		
GP-161C-485A/C3																		
GP-161C-535A/C2																		
GP-161C-535A/C3																		
GP-161C-535A/C4																		
GP-161C-585A/C2																		
GP-161C-585A/C3																		
GP-161C-585A/C4																		
GP-161C-585A/C5																		
GP-161C-635A/C2																		
GP-161C-635A/C3																		
GP-161C-635A/C4																		
GP-161C-635A/C5																		
GP-161C-685A/C2	141,186	32,593	33,524	124,205	79,518	174,722												
GP-161C-685A/C3																		
GP-161C-685A/C4																		
GP-161C-685A/C5																		
GP-161C-735A/C2	189,391	52,428	60,227	124,016	79,378	174,333												
GP-161C-735A/C3	148,845	35,857	37,767	143,728	93,967	214,857												
GP-161C-735A/C4																		
GP-161C-735A/C5																		
GP-161C-785A/C3																		
GP-161C-785A/C4	200,445	56,857	66,350	143,525	93,817	214,441												
GP-161C-785A/C5																		
GP-161C-835A/C4																		
GP-161C-835A/C5																		
GP-161C-885A/C4	251,592	70,831	82,253	184,245	120,503	275,727												
GP-161C-885A/C5																		
GP-200C-535*/C1																		



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GP RANGE TORQUE DATA
CANTED SPRING-RETURN
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Model Number	40 PSI			SPRING			50 PSI	SPRING			60 PSI	SPRING						
	Torque Output (lbf-inch)							Torque Output (lbf-inch)										
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO		BTC	RTC	ETC	BTO	RTO	ETO	BTC
GP-200C-585*/C1																		
GP-200C-635*/C1																		
GP-200C-685*/C1																		
GP-200C-735*/C1																		
GP-200C-785*/C1																		
GP-200C-835*/C1	255,875	51,644	51,503	243,325	155,030	337,417	319,530	80,303	86,764	243,590	155,233	337,984	452,698	133,912	160,535	243,590	155,233	337,984
GP-200C-935*/C1	407,763	116,007	135,638	242,723	154,587	336,196	406,550	115,520	134,965	243,325	155,030	337,417	557,217	175,236	218,428	243,325	155,030	337,417
GP-200C-937*/C1	490,146	148,755	181,272	242,404	154,348	335,532	596,691	190,778	240,289	242,723	154,587	336,196	785,610	264,965	344,940	242,723	154,587	336,196
GP-200C-535*/C2							699,820	231,306	297,421	242,404	154,348	335,532						
GP-200C-585*/C2																		
GP-200C-635*/C2																		
GP-200C-685*/C2																		
GP-200C-735*/C2																		
GP-200C-785*/C2																		
GP-200C-835*/C2																		
GP-200C-935*/C2							492,199	127,415	140,222	330,549	207,869	440,626	452,734	111,130	118,361	331,142	208,311	441,847
GP-200C-937*/C2	385,663	81,312	81,206	330,221	207,630	439,962	595,328	169,023	197,354	330,221	207,630	439,962	681,127	203,169	244,883	330,549	207,869	440,626
GP-201C-835*/C3																		
GP-201C-935*/C3																		
GP-201C-937*/C3																		
GP-201C-835*/C7																		
GP-201C-935*/C7																		
GP-201C-937*/C7													677,746	161,101	168,377	457,584	281,171	567,147
GP-270C-935*/C0																		
GP-270C-937*/C0																		
GP-270C-940*/C0																		
GP-270C-945*/C0																		
GP-270C-962*/C0													1,783,789	429,385	452,061	933,843	542,197	952,650
GP-270C-935*/C2																		
GP-270C-937*/C2																		
GP-270C-940*/C2																		
GP-270C-945*/C2																		
GP-270C-962*/C2																		
GP-270C-937*/C3																		
GP-270C-940*/C3																		
GP-270C-945*/C3																		
GP-270C-962*/C3																		
GP-270C-935*/C4																		
GP-270C-937*/C4																		
GP-270C-940*/C4																		
GP-270C-945*/C4																		
GP-270C-962*/C4													1,886,732	472,338	509,086	883,792	504,926	849,761
GP-271C-945*/C0																		
GP-271C-962*/C0													1,783,789	429,385	452,061	933,843	542,197	952,650
GP-271C-965*/C0							1,517,107	305,209	304,333	937,135	544,649	959,430	2,015,564	525,230	580,450	937,135	544,649	959,430
GP-271C-975*/C0							2,123,667	569,156	640,334	936,188	543,941	957,483	2,743,786	817,119	983,849	936,188	543,941	957,483
GP-271C-945*/C2																		
GP-271C-962*/C2																		
GP-271C-965*/C2																		
GP-271C-975*/C2							2,033,159	325,982	322,176	1,215,412	674,684	1,047,938	2,653,278	634,643	665,683	1,215,412	674,684	1,047,938
GP-271C-945*/C3																		
GP-271C-962*/C3																		
GP-271C-965*/C3																		
GP-271C-975*/C3													2,483,998	561,810	571,918	1,297,715	736,453	1,217,129
GP-271C-980*/C3													2,744,396	672,887	716,158	1,297,369	736,205	1,216,429
GP-271C-945*/C4																		
GP-271C-962*/C4													1,886,732	472,338	509,086	883,792	504,926	849,761



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GP RANGE TORQUE DATA
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FAIL CLOSE, CLOCK WISE TO CLOSE
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Model Number	40 PSI						50 PSI						60 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271C-965*/C4							1,620,041	358,491	361,358	887,093	507,396	856,549						
GP-271C-975*/C4	1,606,482	352,304	353,844	886,146	506,688	854,593	2,226,601	610,711	697,359	886,146	506,688	854,593	2,118,498	567,068	637,475	887,093	507,396	856,549
GP-350C-960*/C1																		
GP-350C-970*/C1																		
GP-350C-975*/C1																		
GP-350C-980*/C1																		
GP-350C-982*/C1																		
GP-350C-992*/C1													5,298,342	1,316,700	1,412,828	2,001,579	1,049,469	1,368,565



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IMPERIAL**

**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL**

Model Number	70 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/C1	14,781	4,363	5,231	7,497	4,726	10,081
GP-065C-280*/C1	25,393	8,541	11,108	7,408	4,664	9,913
GP-065C-335*/C1						
GP-065C-385*/C1						
GP-065C-235*/C2						
GP-065C-280*/C2	19,392	5,098	5,664	12,187	7,612	15,905
GP-065C-335*/C2	34,881	11,249	14,250	12,064	7,523	15,657
GP-065C-385*/C2						
GP-065C-335*/C3						
GP-065C-385*/C3						
GP-065C-280*/C4						
GP-065C-335*/C4	27,906	8,284	9,966	15,825	10,187	22,623
GP-065C-385*/C4						
GP-085C-235*/C1	19,551	5,142	5,718	10,966	6,700	13,338
GP-085C-280*/C1	33,589	10,727	13,497	10,860	6,620	13,117
GP-085C-335*/C1	54,078	18,764	24,844	10,701	6,496	12,780
GP-085C-385*/C1	76,072	27,367	37,032	10,630	6,443	12,630
GP-085C-435*/C1						
GP-085C-280*/C2	25,649	5,434	5,434	17,932	10,833	21,047
GP-085C-335*/C2	46,139	13,860	16,781	17,772	10,718	20,711
GP-085C-385*/C2	68,133	22,525	28,969	17,702	10,665	20,569
GP-085C-435*/C2						
GP-085C-335*/C3						
GP-085C-385*/C3	55,760	14,648	16,277	28,836	17,286	32,942
GP-085C-435*/C3	80,887	24,685	30,199	28,800	17,259	32,863
GP-085C-485*/C3						
GP-085C-280*/C4						
GP-085C-335*/C4	42,307	11,966	13,940	20,268	12,364	24,543
GP-085C-385*/C4	64,310	20,667	26,127	20,197	12,311	24,393
GP-085C-435*/C4						
GP-085C-485*/C4						
GP-085C-335*/C5						
GP-085C-385*/C5	50,803	12,621	13,533	31,243	19,065	37,890
GP-085C-435*/C5	75,931	22,729	27,455	31,208	19,038	37,810
GP-085C-385*/C6						
GP-085C-435*/C6	68,266	17,719	19,542	38,147	23,162	45,466
GP-085C-485*/C6						
GP-085C-435*/C7						
GP-085C-485*/C7	80,073	20,835	23,003	48,564	30,013	61,318
GP-085C-535*/C7						
GP-100C-385*/C1						
GP-100C-435*/C1	89,685	19,684	19,781	48,449	27,526	45,670
GP-100C-485*/C1	122,981	33,580	38,226	48,263	27,393	45,289
GP-100C-535*/C1						
GP-100C-585*/C1						
GP-100C-385*/C2						
GP-100C-435*/C2						
GP-100C-485*/C2	105,678	26,526	28,641	56,671	33,642	62,575
GP-100C-535*/C2						
GP-100C-585*/C2						
GP-130C-385*/C1						
GP-130C-435*/C1						
GP-130C-485*/C1	131,301	35,775	40,678	71,868	44,289	89,915
GP-130C-535*/C1	180,405	55,326	67,876	71,903	44,316	89,986
GP-130C-585*/C1	234,492	76,630	97,836	72,027	44,404	90,242
GP-130C-635*/C1	293,597	99,810	130,575	72,266	44,581	90,729
GP-130C-385*/C2						

Model Number	80 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/C1	18,445	5,815	7,266	7,497	4,726	10,081
GP-065C-280*/C1	30,597	10,585	13,993	7,408	4,664	9,913
GP-065C-335*/C1						
GP-065C-385*/C1						
GP-065C-235*/C2						
GP-065C-280*/C2	24,596	7,187	8,550	12,187	7,612	15,905
GP-065C-335*/C2						
GP-065C-385*/C2						
GP-065C-335*/C3	26,685	6,160	6,337	22,623	14,400	31,287
GP-065C-385*/C3						
GP-065C-280*/C4	17,622	4,116	4,266	15,940	10,276	22,879
GP-065C-335*/C4	35,350	11,232	14,090	15,825	10,187	22,623
GP-065C-385*/C4						
GP-085C-235*/C1	24,402	7,089	8,408	10,966	6,700	13,338
GP-085C-280*/C1	40,474	13,427	17,312	10,860	6,620	13,117
GP-085C-335*/C1	63,929	22,614	30,305	10,701	6,496	12,780
GP-085C-385*/C1						
GP-085C-435*/C1						
GP-085C-280*/C2	32,535	8,408	9,249	17,932	10,833	21,047
GP-085C-335*/C2	55,999	17,755	22,242	17,772	10,718	20,711
GP-085C-385*/C2	81,153	27,623	36,173	17,702	10,665	20,569
GP-085C-435*/C2						
GP-085C-335*/C3	43,616	9,523	9,559	28,907	17,339	33,084
GP-085C-385*/C3	68,770	19,879	23,490	28,836	17,286	32,942
GP-085C-435*/C3						
GP-085C-485*/C3						
GP-085C-280*/C4	28,703	6,355	6,399	20,428	12,480	24,871
GP-085C-335*/C4	52,166	15,887	19,401	20,268	12,364	24,543
GP-085C-385*/C4	77,320	25,782	33,332	20,197	12,311	24,393
GP-085C-435*/C4						
GP-085C-485*/C4						
GP-085C-335*/C5						
GP-085C-385*/C5	63,814	17,905	20,746	31,243	19,065	37,890
GP-085C-435*/C5						
GP-085C-385*/C6	56,149	12,639	12,834	38,191	23,189	45,546
GP-085C-435*/C6	84,879	24,410	28,747	38,147	23,162	45,466
GP-085C-485*/C6						
GP-085C-435*/C7						
GP-085C-485*/C7	68,708	16,108	16,701	48,723	30,128	61,637
GP-085C-535*/C7						
GP-100C-385*/C1						
GP-100C-435*/C1	109,457	28,083	30,739	48,449	27,526	45,670
GP-100C-485*/C1						
GP-100C-535*/C1						
GP-100C-585*/C1						
GP-100C-385*/C2						
GP-100C-435*/C2						
GP-100C-485*/C2	92,154	20,799	21,153	56,857	33,783	62,964
GP-100C-535*/C2						
GP-100C-585*/C2						
GP-130C-385*/C1						
GP-130C-435*/C1						
GP-130C-485*/C1	113,520	28,526	30,827	72,116	44,466	90,419
GP-130C-535*/C1	163,615	48,679	58,574	71,868	44,289	89,915
GP-130C-585*/C1	219,729	70,824	89,658	71,903	44,316	89,986
GP-130C-635*/C1	281,507	95,075	123,884	72,027	44,404	90,242
GP-130C-385*/C2						

Model Number	90 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/C1	22,109	7,258	9,293	7,497	4,726	10,081
GP-065C-280*/C1						
GP-065C-335*/C1						
GP-065C-385*/C1						
GP-065C-235*/C2						
GP-065C-280*/C2	16,108	3,735	3,850	12,267	7,674	16,082
GP-065C-335*/C2	29,800	9,249	11,435	12,187	7,612	15,905
GP-065C-385*/C2						
GP-065C-335*/C3						
GP-065C-385*/C3	34,137	9,240	10,470	22,623	14,400	31,287
GP-065C-280*/C4						
GP-065C-335*/C4	22,826	6,257	7,151	15,940	10,276	22,879
GP-065C-385*/C4						
GP-085C-235*/C1						
GP-085C-280*/C1	29,252	9,010	11,090	10,966	6,700	13,338
GP-085C-335*/C1	47,360	16,126	21,127	10,860	6,620	13,117
GP-085C-385*/C1	73,789	26,473	35,766	10,701	6,496	12,780
GP-085C-435*/C1						
GP-085C-280*/C2						
GP-085C-335*/C2	39,421	11,187	13,055	17,932	10,833	21,047
GP-085C-385*/C2	65,850	21,622	27,703	17,772	10,718	20,711
GP-085C-435*/C2						
GP-085C-335*/C3						
GP-085C-385*/C3	53,467	13,719	15,011	28,907	17,339	33,084
GP-085C-435*/C3	81,790	25,048	30,703	28,836	17,286	32,942
GP-085C-485*/C3						
GP-085C-280*/C4						
GP-085C-335*/C4						
GP-085C-385*/C4	35,589	9,258	10,214	20,428	12,480	24,871
GP-085C-435*/C4	62,017	19,773	24,853	20,268	12,364	24,543
GP-085C-485*/C4						
GP-085C-335*/C5						
GP-085C-385*/C5						
GP-085C-435*/C5	48,511	11,665	12,267	31,314	19,118	38,041
GP-085C-485*/C5	76,833	23,083	27,951	31,243	19,065	37,890
GP-085C-385*/C6						
GP-085C-435*/C6	69,169	18,091	20,047	38,191	23,189	45,546
GP-085C-485*/C6						
GP-085C-435*/C7						
GP-085C-485*/C7						
GP-100C-385*/C1						
GP-100C-435*/C1						
GP-100C-485*/C1						
GP-100C-535*/C1						
GP-100C-585*/C1						
GP-100C-385*/C2						
GP-100C-435*/C2						
GP-100C-485*/C2						
GP-100C-535*/C2						
GP-100C-585*/C2						
GP-130C-385*/C1						
GP-130C-435*/C1						
GP-130C-485*/C1						
GP-130C-535*/C1	139,514	39,076	45,227	72,116	44,466	90,419
GP-130C-585*/C1	195,929	61,460	76,479	71,868	44,289	89,915
GP-130C-635*/C1	259,044	86,268	111,440	71,903	44,316	89,986
GP-130C-385*/C2						



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 IMPERIAL

GP RANGE TORQUE DATA
 CANTED SPRING-RETURN
 FAIL CLOSE, CLOCK WISE TO CLOSE
 IMPERIAL

Model Number	70 PSI			SPRING				80 PSI			SPRING				90 PSI			SPRING		
	Torque Output (lbf-inch)							Torque Output (lbf-inch)							Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC
GP-130C-435*/C2																				
GP-130C-485*/C2							150,286	36,704	38,970	89,074	53,627	103,235								
GP-130C-535*/C2	167,084	43,625	48,272	89,109	53,653	103,306	206,399	59,442	70,054	89,109	53,653	103,306	126,185	25,676	25,614	89,322	53,813	103,740		
GP-130C-585*/C2	221,171	65,319	78,232	89,233	53,751	103,563	268,187	83,923	104,280	89,233	53,751	103,563	182,609	49,909	56,866	89,074	53,627	103,235		
GP-130C-635*/C2	280,268	88,685	110,971	89,472	53,919	104,049							245,723	75,054	91,835	89,109	53,653	103,306		
GP-130C-685*/C2																				
GP-130C-385*/C3							72,486	14,648	14,604	64,557	40,687	86,631								
GP-130C-435*/C3	91,437	23,136	25,101	64,495	40,643	86,507	117,432	33,642	39,501	64,495	40,643	86,507	92,853	23,720	25,888	64,557	40,687	86,631		
GP-130C-485*/C3	135,222	40,705	49,352	64,248	40,457	86,003	167,536	53,459	67,257	64,248	40,457	86,003	143,435	43,953	53,901	64,495	40,643	86,507		
GP-130C-535*/C3	184,326	60,061	76,559	84,283	40,483	86,065	223,650	75,497	98,341	84,283	40,483	86,065	199,850	66,159	85,153	64,248	40,457	86,003		
GP-130C-585*/C3	238,413	81,285	106,519	64,407	40,572	86,330	285,428	99,895	132,567	64,407	40,572	86,330	262,965	90,906	120,122	84,283	40,483	86,065		
GP-130C-385*/C4																				
GP-130C-435*/C4	74,444	15,710	15,692	72,762	46,759	103,492	100,438	26,809	30,093	72,762	46,759	103,492	75,860	16,462	16,471	72,815	46,803	103,616		
GP-130C-485*/C4	118,219	33,951	39,943	72,514	46,573	102,987	150,534	46,759	57,840	72,514	46,573	102,987	126,433	37,226	44,493	72,762	46,759	103,492		
GP-130C-535*/C4	167,332	53,379	67,142	72,550	46,599	103,058	206,647	68,832	88,923	72,550	46,599	103,058	182,856	59,486	75,745	72,514	46,573	102,987		
GP-130C-585*/C4	221,419	74,621	97,102	72,674	46,688	103,315	268,434	93,039	123,149	72,674	46,688	103,315	245,971	84,241	110,705	72,550	46,599	103,058		
GP-130C-635*/C4	280,516	97,774	129,841	72,904	46,865	103,802														
GP-130C-485*/C5							128,743	30,146	31,243	95,854	59,813	124,769								
GP-130C-535*/C5	145,533	37,155	40,545	95,889	59,840	124,840	184,857	53,025	62,327	95,889	59,840	124,840	161,057	43,475	49,139	95,854	59,813	124,769		
GP-130C-585*/C5	199,620	58,902	70,505	96,022	59,937	125,097	246,635	77,497	96,544	96,022	59,937	125,097	224,172	68,629	84,109	95,889	59,840	124,840		
GP-130C-635*/C5	258,716	82,259	103,244	96,252	60,114	125,583							293,650	95,995	122,592	96,022	59,937	125,097		
GP-130C-685*/C5																				
GP-130C-735*/C5																				
GP-130C-535*/C6																				
GP-130C-585*/C6							219,906	54,866	59,017	128,955	78,002	151,817								
GP-130C-635*/C6	231,987	59,840	65,717	129,186	78,179	152,295	287,384	82,179	96,402	129,186	78,179	152,295	197,443	45,387	46,573	128,832	77,913	151,551		
GP-130C-685*/C6	295,199	85,295	100,722	129,053	78,072	152,012							266,921	73,983	85,065	128,955	78,002	151,817		
GP-130C-735*/C6																				
GP-161C-485A/C2																				
GP-161C-485A/C3																				
GP-161C-535A/C2	162,333	41,458	45,238	123,930	79,314	174,157	211,270	61,178	72,346	123,930	79,314	174,157	181,652	49,313	55,940	123,889	79,284	174,071		
GP-161C-535A/C3							170,724	44,886	49,886	143,642	93,903	214,680								
GP-161C-535A/C4																				
GP-161C-585A/C2	229,648	68,482	82,527	124,088	79,431	174,480	288,160	91,592	114,939	124,088	79,431	174,480	260,207	80,572	99,455	123,930	79,314	174,157		
GP-161C-585A/C3	189,102	52,312	60,066	143,799	94,020	215,004	247,614	75,599	92,479	143,799	94,020	215,004	219,661	64,517	76,995	143,642	93,903	214,680		
GP-161C-585A/C4																				
GP-161C-585A/C5																				
GP-161C-635A/C2	303,200	97,513	123,270	124,381	79,648	175,083														
GP-161C-635A/C3	262,654	81,538	100,810	144,093	94,237	215,607	331,595	108,673	139,000	144,093	94,237	215,607	346,672	114,593	147,351	124,088	79,431	174,480		
GP-161C-635A/C4	200,419	50,074	53,905	185,258	121,252	277,809	269,360	77,926	92,095	185,258	121,252	277,809	306,125	98,665	124,891	143,799	94,020	215,004		
GP-161C-635A/C5													243,890	67,741	77,986	184,964	121,035	277,205		
GP-161C-685A/C2	381,863	128,402	166,845	124,205	79,518	174,722														
GP-161C-685A/C3	341,317	112,490	144,385	143,917	94,107	215,246	462,089	159,838	211,286	124,205	79,518	174,722								
GP-161C-685A/C4	279,082	81,794	97,480	185,082	121,122	277,447	421,543	143,950	188,826	143,917	94,107	215,246								
GP-161C-685A/C5							359,307	113,524	141,921	185,082	121,122	277,447	439,533	145,066	186,361	185,082	121,122	277,447		
GP-161C-735A/C2													378,153	107,518	125,659	238,355	153,136	338,794		
GP-161C-735A/C3	425,939	145,673	191,261	143,728	93,967	214,857														
GP-161C-735A/C4	363,704	115,255	144,356	184,893	120,982	277,058	456,069	151,559	195,521	184,893	120,982	277,058	548,434	187,766	246,686	184,893	120,982	277,058		
GP-161C-735A/C5	302,324	76,871	83,655	238,166	152,996	338,405	394,689	114,119	134,819	238,166	152,996	338,405	487,053	150,727	185,984	238,166	152,996	338,405		
GP-161C-785A/C3																				
GP-161C-785A/C4	454,286	150,859	194,533	184,690	120,832	276,642														
GP-161C-785A/C5	392,905	113,410	133,832	237,964	152,846	337,989	498,264	155,154	192,194	237,964	152,846	337,989								
GP-161C-835A/C4																				
GP-161C-835A/C5	489,446	151,672	187,310	237,748	152,687	337,545														
GP-161C-885A/C4																				
GP-161C-885A/C5																				
GP-200C-535*/C1																				



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Model Number	70 PSI			SPRING			80 PSI						90 PSI			SPRING		
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-200C-585*/C1																		
GP-200C-635*/C1	264,991	56,601	56,556	244,316	155,764	339,453	352,136	93,632	104,819	244,316	155,764	339,453	319,937	80,471	86,985	243,944	155,490	338,692
GP-200C-685*/C1	364,421	98,606	111,626	244,086	155,596	339,001	465,824	139,107	167,801	244,086	155,596	339,001	439,272	128,566	153,091	244,316	155,764	339,453
GP-200C-735*/C1	471,382	141,311	170,881	243,847	155,419	338,506	588,123	187,406	235,545	243,847	155,419	338,506	567,227	179,175	223,968	244,086	155,596	339,001
GP-200C-785*/C1	585,867	186,521	234,297	243,590	155,233	337,984	719,035	238,855	308,068	243,590	155,233	337,984	704,865	233,288	300,217	243,847	155,419	338,506
GP-200C-835*/C1	707,892	234,474	301,890	243,325	155,030	337,417	858,567	293,553	385,353	243,325	155,030	337,417	852,203	291,057	381,830	243,590	155,233	337,984
GP-200C-935*/C1																		
GP-200C-937*/C1																		
GP-200C-535*/C2																		
GP-200C-585*/C2																		
GP-200C-635*/C2																		
GP-200C-685*/C2													462,735	115,290	123,902	331,912	208,878	443,431
GP-200C-735*/C2							483,640	123,911	135,478	331,673	208,701	442,936	600,382	171,041	200,151	331,673	208,701	442,936
GP-200C-785*/C2	481,383	122,981	134,230	331,416	208,515	442,414	614,552	176,705	208,001	331,416	208,515	442,414	747,720	229,526	281,772	331,416	208,515	442,414
GP-200C-835*/C2	603,409	172,244	201,824	331,142	208,311	441,847	754,075	232,040	285,295	331,142	208,311	441,847						
GP-200C-935*/C2	870,046	277,763	349,534	330,549	207,869	440,626												
GP-200C-937*/C2																		
GP-201C-835*/C3																		
GP-201C-935*/C3							776,512	161,544	161,270	587,610	360,243	722,929	965,440	244,785	265,921	587,610	360,243	722,929
GP-201C-937*/C3							941,879	235,058	252,875	587,292	360,004	722,265	1,151,545	320,273	369,023	587,292	360,004	722,265
GP-201C-835*/C7							626,819	138,957	140,169	458,504	281,852	569,041	777,494	202,452	223,641	458,504	281,852	569,041
GP-201C-935*/C7	742,790	188,229	204,417	457,902	281,410	567,811	931,710	264,629	309,068	457,902	281,410	567,811	1,120,638	339,727	413,719	457,902	281,410	567,811
GP-201C-937*/C7	887,412	246,883	284,525	457,584	281,171	567,147	1,097,077	330,390	400,673	457,584	281,171	567,147	1,306,751	413,197	516,813	457,584	281,171	567,147
GP-270C-935*/C0																		
GP-270C-937*/C0																		
GP-270C-940*/C0							1,624,033	360,296	363,562	935,949	543,772	956,996	1,599,215	348,941	349,817	936,560	544,224	958,244
GP-270C-945*/C0	1,751,183	415,605	434,005	934,940	543,020	954,916	2,141,253	576,263	650,079	934,940	543,020	954,916	1,949,210	498,085	543,693	935,949	543,772	956,996
GP-270C-962*/C0																		
GP-270C-935*/C2																		
GP-270C-937*/C2																		
GP-270C-940*/C2																		
GP-270C-945*/C2																		
GP-270C-962*/C2																		
GP-270C-937*/C3																		
GP-270C-940*/C3																		
GP-270C-945*/C3																		
GP-270C-962*/C3																		
GP-270C-935*/C4																		
GP-270C-937*/C4																		
GP-270C-940*/C4							1,726,967	405,302	420,588	885,907	506,511	854,115	1,702,159	394,646	406,842	886,518	506,971	855,363
GP-270C-945*/C4	1,854,126	458,814	491,031	884,898	505,758	852,035							2,052,144	540,126	600,718	885,907	506,511	854,115
GP-270C-962*/C4																		
GP-271C-945*/C0	1,751,183	415,605	434,005	934,940	543,020	954,916	2,141,253	576,263	650,079	934,940	543,020	954,916	2,531,315	732,665	866,152	934,940	543,020	954,916
GP-271C-962*/C0	2,244,639	617,951	707,352	933,843	542,197	952,650	2,705,488	801,940	962,634	933,843	542,197	952,650						
GP-271C-965*/C0	2,514,020	725,779	856,567	937,135	544,649	959,430												
GP-271C-975*/C0																		
GP-271C-945*/C2							2,614,989	618,393	644,476	1,213,066	672,914	1,043,105	2,440,816	542,595	547,994	1,214,164	673,746	1,045,371
GP-271C-962*/C2																		
GP-271C-965*/C2	2,423,512	534,762	538,409	1,216,359	675,401	1,049,885												
GP-271C-975*/C2																		
GP-271C-945*/C3																		
GP-271C-962*/C3							2,445,710	544,781	550,703	1,295,360	734,701	1,212,296						
GP-271C-965*/C3							2,752,689	676,357	720,752	1,298,662	737,170	1,219,076						
GP-271C-975*/C3																		
GP-271C-980*/C3																		
GP-271C-945*/C4	1,854,126	458,814	491,031	884,898	505,758	852,035	2,244,196	617,773	707,104	884,898	505,758	852,035	2,634,258	773,626	923,177	884,898	505,758	852,035
GP-271C-962*/C4	2,347,582	659,292	764,377	883,792	504,926	849,761	2,808,431	842,742	1,019,660	883,792	504,926	849,761						



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Model Number	70 PSI						80 PSI						90 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271C-965*/C4	2,616,954	766,740	913,592	887,093	507,396	856,549												
GP-271C-975*/C4																		
GP-350C-960*/C1																		
GP-350C-970*/C1																		
GP-350C-975*/C1							5,101,785	1,234,715	1,303,937	2,003,951	1,051,301	1,373,442	4,941,993	1,167,122	1,215,420	2,004,792	1,051,947	1,375,176
GP-350C-980*/C1	4,687,410	1,056,930	1,074,401	2,003,509	1,050,956	1,372,530												
GP-350C-982*/C1	5,099,138	1,233,600	1,302,476	2,003,049	1,050,602	1,371,583												
GP-350C-992*/C1																		



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Model Number	100 PSI			SPRING			125 PSI	SPRING			150 PSI	SPRING						
	Torque Output (lbf-inch)							Torque Output (lbf-inch)										
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO		BTC	RTC	ETC	BTO	RTO	ETO	BTC
GP-065C-235*/C1	25,773	8,691	11,320	7,497	4,726	10,081	34,934	12,285	16,400	7,497	4,726	10,081						
GP-065C-280*/C1																		
GP-065C-335*/C1																		
GP-065C-385*/C1																		
GP-065C-235*/C2	19,773	5,257	5,877	12,267	7,674	16,082	28,942	8,904	10,957	12,267	7,674	16,082						
GP-065C-280*/C2	35,005	11,294	14,312	12,187	7,612	15,905												
GP-065C-335*/C2																		
GP-065C-385*/C2																		
GP-065C-335*/C3																		
GP-065C-385*/C3																		
GP-065C-280*/C4	28,030	8,337	10,037	15,940	10,276	22,879												
GP-065C-335*/C4																		
GP-065C-385*/C4																		
GP-085C-235*/C1	34,102	10,922	13,781	10,966	6,700	13,338	46,219	15,684	20,498	10,966	6,700	13,338	58,344	20,428	27,207	10,966	6,700	13,338
GP-085C-280*/C1	54,237	18,826	24,933	10,860	6,620	13,117	71,452	25,561	34,474	10,860	6,620	13,117						
GP-085C-335*/C1	83,640	30,323	41,218	10,701	6,496	12,780												
GP-085C-385*/C1																		
GP-085C-435*/C1																		
GP-085C-280*/C2	46,307	13,922	16,870	17,932	10,833	21,047	63,513	20,711	26,402	17,932	10,833	21,047	80,728	27,464	35,943	17,932	10,833	21,047
GP-085C-335*/C2	75,700	25,490	33,155	17,772	10,718	20,711												
GP-085C-385*/C2																		
GP-085C-435*/C2																		
GP-085C-335*/C3	63,327	17,702	20,472	28,907	17,339	33,084	87,959	27,482	34,120	28,907	17,339	33,084						
GP-085C-385*/C3																		
GP-085C-435*/C3																		
GP-085C-485*/C3																		
GP-085C-280*/C4	42,475	12,028	14,028	20,428	12,480	24,871	59,681	18,852	23,561	20,428	12,480	24,871	76,895	25,614	33,093	20,428	12,480	24,871
GP-085C-335*/C4	71,877	23,640	30,314	20,268	12,364	24,543												
GP-085C-385*/C4																		
GP-085C-435*/C4																		
GP-085C-485*/C4																		
GP-085C-335*/C5	58,371	15,710	17,728	31,314	19,118	38,041	83,002	25,526	31,376	31,314	19,118	38,041						
GP-085C-385*/C5																		
GP-085C-435*/C5																		
GP-085C-385*/C6	82,188	23,339	27,251	38,191	23,189	45,546												
GP-085C-435*/C6																		
GP-085C-485*/C6																		
GP-085C-435*/C7																		
GP-085C-485*/C7																		
GP-085C-535*/C7																		
GP-100C-385*/C1	106,244	26,765	28,960	48,493	27,561	45,767												
GP-100C-435*/C1																		
GP-100C-485*/C1																		
GP-100C-535*/C1																		
GP-100C-585*/C1																		
GP-100C-385*/C2	88,941	19,348	19,374	56,901	33,819	63,062												
GP-100C-435*/C2																		
GP-100C-485*/C2																		
GP-100C-535*/C2																		
GP-100C-585*/C2																		
GP-130C-385*/C1	109,298	26,774	28,482	72,178	44,519	90,552	160,199	47,325	56,689	72,178	44,519	90,552	211,108	67,434	84,888	72,178	44,519	90,552
GP-130C-435*/C1	165,509	49,431	59,628	72,116	44,466	90,419	230,500	75,054	95,624	72,116	44,466	90,419	295,482	100,553	131,628	72,116	44,466	90,419
GP-130C-485*/C1	228,243	74,169	94,376	71,868	44,289	89,915	309,033	105,864	139,125	71,868	44,289	89,915						
GP-130C-535*/C1	298,368	101,686	133,221	71,903	44,316	89,986												
GP-130C-585*/C1																		
GP-130C-635*/C1																		
GP-130C-385*/C2							146,878	35,270	37,076	89,384	53,857	103,864	197,788	55,999	65,283	89,384	53,857	103,864



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FAIL CLOSE, CLOCK WISE TO CLOSE
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Model Number	100 PSI			SPRING			BTO	RTO	ETO	BTC	RTC	ETC	125 PSI			SPRING			BTO	RTO	ETO	BTC	RTC	ETC	150 PSI			SPRING		
	Torque Output (lbf-inch)												Torque Output (lbf-inch)												Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC							BTO	RTO	ETO	BTC	RTC	ETC							BTO	RTO	ETO	BTC	RTC	ETC
GP-130C-435*/C2	152,180	37,492	40,014	89,322	53,813	103,740	217,171	63,734	76,019	89,322	53,813	103,740	282,162	89,428	112,015	89,322	53,813	103,740												
GP-130C-485*/C2	214,923	62,831	74,771	89,074	53,627	103,235	295,704	94,756	119,521	89,074	53,627	103,235																		
GP-130C-535*/C2	285,047	90,561	113,617	89,109	53,653	103,306																								
GP-130C-585*/C2																														
GP-130C-635*/C2																														
GP-130C-685*/C2																														
GP-130C-385*/C3	113,219	31,951	37,164	64,557	40,687	86,631	164,119	52,113	65,363	64,557	40,687	86,631	215,029	72,116	93,570	64,557	40,687	86,631												
GP-130C-435*/C3	169,430	54,202	68,301	64,495	40,643	86,507	234,421	79,719	104,306	64,495	40,643	86,507	299,403	105,156	140,302	64,495	40,643	86,507												
GP-130C-485*/C3	232,164	78,834	103,058	64,248	40,457	86,003																								
GP-130C-535*/C3	302,289	106,289	141,904	84,283	40,483	86,065																								
GP-130C-585*/C3																														
GP-130C-385*/C4	96,217	25,092	27,747	72,815	46,803	103,616	147,126	45,413	55,954	72,815	46,803	103,616	198,036	65,451	84,153	72,815	46,803	103,616												
GP-130C-435*/C4	152,428	47,511	58,893	72,762	46,759	103,492	217,419	73,054	94,889	72,762	46,759	103,492	282,410	98,509	130,894	72,762	46,759	103,492												
GP-130C-485*/C4	215,171	72,169	93,641	72,514	46,573	102,987	295,960	103,810	138,390	72,514	46,573	102,987																		
GP-130C-535*/C4	285,295	99,642	132,487	72,550	46,599	103,058																								
GP-130C-585*/C4																														
GP-130C-635*/C4																														
GP-130C-485*/C5	193,371	56,415	67,044	95,854	59,813	124,769	274,161	88,330	111,794	95,854	59,813	124,769																		
GP-130C-535*/C5	263,496	84,135	105,890	95,889	59,840	124,840																								
GP-130C-585*/C5																														
GP-130C-635*/C5																														
GP-130C-685*/C5																														
GP-130C-735*/C5																														
GP-130C-535*/C6	236,766	61,796	68,354	128,832	77,913	151,551																								
GP-130C-585*/C6																														
GP-130C-635*/C6																														
GP-130C-685*/C6																														
GP-130C-735*/C6																														
GP-161C-485A/C2	221,870	65,396	78,218	123,889	79,284	174,071	322,414	105,068	133,914	123,889	79,284	174,071	422,957	144,504	189,609	123,889	79,284	174,071												
GP-161C-485A/C3	181,324	49,180	55,758	143,600	93,872	214,595	281,868	89,115	111,453	143,600	93,872	214,595	382,411	128,617	167,149	143,600	93,872	214,595												
GP-161C-535A/C2	309,144	99,854	126,563	123,930	79,314	174,157																								
GP-161C-535A/C3	268,598	83,886	104,103	143,642	93,903	214,680	390,941	131,959	171,874	143,642	93,903	214,680	513,284	179,868	239,645	143,642	93,903	214,680												
GP-161C-535A/C4	206,363	52,526	57,198	184,807	120,918	276,882	328,706	101,451	124,969	184,807	120,918	276,882	451,049	149,588	192,740	184,807	120,918	276,882												
GP-161C-585A/C2																														
GP-161C-585A/C3	364,637	121,647	157,303	143,799	94,020	215,004																								
GP-161C-585A/C4	302,402	91,048	110,398	184,964	121,035	277,205	448,682	148,659	191,429	184,964	121,035	277,205																		
GP-161C-585A/C5							387,301	111,175	130,727	238,238	153,049	338,552	533,581	169,075	211,758	238,238	153,049	338,552												
GP-161C-635A/C2																														
GP-161C-635A/C3	407,243	132,387	168,474	185,258	121,252	277,809																								
GP-161C-635A/C4	345,862	94,571	107,772	238,531	153,266	339,155																								
GP-161C-635A/C5							518,215	163,026	203,246	238,531	153,266	339,155																		
GP-161C-685A/C2																														
GP-161C-685A/C3																														
GP-161C-685A/C4	519,759	176,530	230,801	185,082	121,122	277,447																								
GP-161C-685A/C5	458,378	139,401	170,100	238,355	153,136	338,794																								
GP-161C-735A/C2																														
GP-161C-735A/C3																														
GP-161C-735A/C4																														
GP-161C-735A/C5																														
GP-161C-785A/C3																														
GP-161C-785A/C4																														
GP-161C-785A/C5																														
GP-161C-835A/C4																														
GP-161C-835A/C5																														
GP-161C-885A/C4																														
GP-161C-885A/C5																														
GP-200C-535*/C1	272,506	60,256	60,716	243,741	155,340	338,285	427,146	123,742	146,374	243,741	155,340	338,285	581,777	184,910	232,031	243,741	155,340	338,285												



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
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FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	100 PSI						125 PSI						150 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-200C-585*/C1	393,894	110,466	127,955	243,944	155,490	338,692	578,786	183,733	230,376	243,944	155,490	338,692	763,678	256,371	332,797	243,944	155,490	338,692
GP-200C-635*/C1	526,407	163,075	201,363	244,316	155,764	339,453	744,251	248,759	322,035	244,316	155,764	339,453						
GP-200C-685*/C1	668,621	219,056	280,135	244,086	155,596	339,001												
GP-200C-735*/C1	821,615	279,073	364,890	243,847	155,419	338,506												
GP-200C-785*/C1																		
GP-200C-835*/C1																		
GP-200C-937*/C1																		
GP-200C-535*/C2																		
GP-200C-585*/C2																		
GP-200C-635*/C2	421,924	98,102	101,297	332,133	209,046	443,883	474,303	120,069	130,310	331,762	208,771	443,122	477,294	121,300	131,965	331,558	208,621	442,715
GP-200C-685*/C2	564,138	156,526	180,077	331,912	208,878	443,431	639,768	186,742	221,968	332,133	209,046	443,883	659,186	194,469	232,730	331,762	208,771	443,122
GP-200C-735*/C2	717,123	217,436	264,823	331,673	208,701	442,936	817,641	257,132	320,503	331,912	208,878	443,431	857,611	272,869	342,648	332,133	209,046	443,883
GP-200C-785*/C2	880,889	282,029	355,535	331,416	208,515	442,414												
GP-200C-835*/C2																		
GP-200C-937*/C2																		
GP-201C-835*/C3	772,971	159,623	159,305	588,212	360,677	724,151	1,149,650	319,503	367,970	588,212	360,677	724,151						
GP-201C-935*/C3	1,154,359	321,397	370,572	587,610	360,243	722,929												
GP-201C-937*/C3																		
GP-201C-835*/C7	928,169	263,212	307,103	458,504	281,852	569,041	1,304,848	412,445	515,760	458,504	281,852	569,041						
GP-201C-935*/C7	1,309,557	414,304	518,371	457,902	281,410	567,811												
GP-201C-937*/C7																		
GP-270C-935*/C0	1,603,048	350,729	351,941	937,002	544,551	959,156												
GP-270C-937*/C0	1,885,378	471,772	508,334	936,560	544,224	958,244												
GP-270C-940*/C0																		
GP-270C-945*/C0																		
GP-270C-962*/C0																		
GP-270C-935*/C2																		
GP-270C-937*/C2																		
GP-270C-940*/C2																		
GP-270C-945*/C2																		
GP-270C-962*/C2																		
GP-270C-937*/C3																		
GP-270C-940*/C3																		
GP-270C-945*/C3																		
GP-270C-962*/C3																		
GP-270C-935*/C4	1,705,991	396,292	408,967	886,960	507,298	856,266												
GP-270C-937*/C4	1,988,321	514,096	565,359	886,518	506,971	855,363												
GP-270C-940*/C4																		
GP-270C-945*/C4																		
GP-270C-962*/C4																		
GP-271C-945*/C0																		
GP-271C-962*/C0																		
GP-271C-965*/C0																		
GP-271C-975*/C0																		
GP-271C-945*/C2	2,830,877	708,830	764,068	1,214,164	673,746	1,045,371												
GP-271C-962*/C2																		
GP-271C-965*/C2																		
GP-271C-975*/C2																		
GP-271C-945*/C3	2,661,598	638,148	670,294	1,296,467	735,524	1,214,562												
GP-271C-962*/C3																		
GP-271C-965*/C3																		
GP-271C-975*/C3																		
GP-271C-980*/C3																		
GP-271C-945*/C4																		
GP-271C-962*/C4																		



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
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GP RANGE TORQUE DATA
CANTED SPRING-RETURN
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GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	100 PSI						125 PSI						150 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-271C-965*/C4																		
GP-271C-975*/C4																		
GP-350C-960*/C1																		
GP-350C-970*/C1																		
GP-350C-975*/C1																		
GP-350C-980*/C1																		
GP-350C-982*/C1																		
GP-350C-992*/C1																		



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	174 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/C1						
GP-065C-280*/C1						
GP-065C-335*/C1						
GP-065C-385*/C1						
GP-065C-235*/C2						
GP-065C-280*/C2						
GP-065C-335*/C2						
GP-065C-385*/C2						
GP-065C-335*/C3						
GP-065C-385*/C3						
GP-065C-280*/C4						
GP-065C-335*/C4						
GP-065C-385*/C4						
GP-085C-235*/C1	69,983	24,986	33,659	10,966	6,700	13,338
GP-085C-280*/C1						
GP-085C-335*/C1						
GP-085C-385*/C1						
GP-085C-435*/C1						
GP-085C-280*/C2						
GP-085C-335*/C2						
GP-085C-385*/C2						
GP-085C-435*/C2						
GP-085C-335*/C3						
GP-085C-385*/C3						
GP-085C-435*/C3						
GP-085C-485*/C3						
GP-085C-280*/C4						
GP-085C-335*/C4						
GP-085C-385*/C4						
GP-085C-435*/C4						
GP-085C-485*/C4						
GP-085C-335*/C5						
GP-085C-385*/C5						
GP-085C-435*/C5						
GP-085C-385*/C6						
GP-085C-435*/C6						
GP-085C-485*/C6						
GP-085C-435*/C7						
GP-085C-485*/C7						
GP-085C-535*/C7						
GP-100C-385*/C1						
GP-100C-435*/C1						
GP-100C-485*/C1						
GP-100C-535*/C1						
GP-100C-585*/C1						
GP-100C-385*/C2						
GP-100C-435*/C2						
GP-100C-485*/C2						
GP-100C-535*/C2						
GP-100C-585*/C2						
GP-130C-385*/C1	259,982	86,640	111,953	72,178	44,519	90,552
GP-130C-435*/C1						
GP-130C-485*/C1						
GP-130C-535*/C1						
GP-130C-585*/C1						
GP-130C-635*/C1						
GP-130C-385*/C2	246,662	75,417	92,349	89,384	53,857	103,864



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	174 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-130C-435*/C2						
GP-130C-485*/C2						
GP-130C-535*/C2						
GP-130C-585*/C2						
GP-130C-635*/C2						
GP-130C-685*/C2						
GP-130C-385*/C3	263,903	91,269	120,636	64,557	40,687	86,631
GP-130C-435*/C3						
GP-130C-485*/C3						
GP-130C-535*/C3						
GP-130C-585*/C3						
GP-130C-385*/C4	246,909	84,613	111,227	72,815	46,803	103,616
GP-130C-435*/C4						
GP-130C-485*/C4						
GP-130C-535*/C4						
GP-130C-585*/C4						
GP-130C-635*/C4						
GP-130C-485*/C5						
GP-130C-535*/C5						
GP-130C-585*/C5						
GP-130C-635*/C5						
GP-130C-685*/C5						
GP-130C-735*/C5						
GP-130C-535*/C6						
GP-130C-585*/C6						
GP-130C-635*/C6						
GP-130C-685*/C6						
GP-130C-735*/C6						
GP-161C-485A/C2	519,479	182,291	243,077	123,889	79,284	174,071
GP-161C-485A/C3	478,933	166,429	220,617	143,600	93,872	214,595
GP-161C-535A/C2						
GP-161C-535A/C3						
GP-161C-535A/C4	568,498	195,628	257,801	184,807	120,918	276,882
GP-161C-585A/C2						
GP-161C-585A/C3						
GP-161C-585A/C4						
GP-161C-585A/C5						
GP-161C-635A/C2						
GP-161C-635A/C3						
GP-161C-635A/C4						
GP-161C-635A/C5						
GP-161C-685A/C2						
GP-161C-685A/C3						
GP-161C-685A/C4						
GP-161C-685A/C5						
GP-161C-735A/C2						
GP-161C-735A/C3						
GP-161C-735A/C4						
GP-161C-735A/C5						
GP-161C-785A/C3						
GP-161C-785A/C4						
GP-161C-785A/C5						
GP-161C-835A/C4						
GP-161C-835A/C5						
GP-161C-885A/C4						
GP-161C-885A/C5						
GP-200C-535*/C1	730,231	243,245	314,264	243,741	155,340	338,285



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	174 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-200C-585*/C1						
GP-200C-635*/C1						
GP-200C-685*/C1						
GP-200C-735*/C1						
GP-200C-785*/C1						
GP-200C-835*/C1						
GP-200C-935*/C1						
GP-200C-937*/C1						
GP-200C-535*/C2	625,739	181,157	214,197	331,558	208,621	442,715
GP-200C-585*/C2	836,679	264,629	331,053	331,762	208,771	443,122
GP-200C-635*/C2						
GP-200C-685*/C2						
GP-200C-735*/C2						
GP-200C-785*/C2						
GP-200C-835*/C2						
GP-200C-935*/C2						
GP-200C-937*/C2						
GP-201C-835*/C3						
GP-201C-935*/C3						
GP-201C-937*/C3						
GP-201C-835*/C7						
GP-201C-935*/C7						
GP-201C-937*/C7						
GP-270C-935*/C0						
GP-270C-937*/C0						
GP-270C-940*/C0						
GP-270C-945*/C0						
GP-270C-962*/C0						
GP-270C-935*/C2						
GP-270C-937*/C2						
GP-270C-940*/C2						
GP-270C-945*/C2						
GP-270C-962*/C2						
GP-270C-937*/C3						
GP-270C-940*/C3						
GP-270C-945*/C3						
GP-270C-962*/C3						
GP-270C-935*/C4						
GP-270C-937*/C4						
GP-270C-940*/C4						
GP-270C-945*/C4						
GP-270C-962*/C4						
GP-271C-945*/C0						
GP-271C-962*/C0						
GP-271C-965*/C0						
GP-271C-975*/C0						
GP-271C-945*/C2						
GP-271C-962*/C2						
GP-271C-965*/C2						
GP-271C-975*/C2						
GP-271C-945*/C3						
GP-271C-962*/C3						
GP-271C-965*/C3						
GP-271C-975*/C3						
GP-271C-980*/C3						
GP-271C-945*/C4						
GP-271C-962*/C4						



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	174 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-271C-965*/C4						
GP-271C-975*/C4						
GP-350C-960*/C1						
GP-350C-970*/C1						
GP-350C-975*/C1						
GP-350C-980*/C1						
GP-350C-982*/C1						
GP-350C-992*/C1						



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	40 PSI						50 PSI						60 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-130C-585*/O2	171,200	45,289	50,370	44,387	2,257	212	171,200	45,289	50,370	70,434	36,624	50,591	171,200	45,289	50,370	96,482	55,618	100,969
GP-130C-635*/O2	171,651	45,466	50,600	63,203	31,181	36,607	171,651	45,466	50,600	93,889	53,751	95,960	171,651	45,466	50,600	124,574	75,700	155,313
GP-130C-685*/O2	171,377	45,360	50,458	83,144	45,971	75,187	171,377	45,360	50,458	118,857	71,638	144,258	171,377	45,360	50,458	154,561	96,942	213,330
GP-130C-385*/O3																		
GP-130C-435*/O3																		
GP-130C-485*/O3							123,273	35,686	41,829	39,103	19,985	26,225	123,273	35,686	41,829	57,008	33,058	60,849
GP-130C-535*/O3	123,335	35,713	41,864	36,757	18,215	21,693	123,335	35,713	41,864	58,539	34,164	63,832	123,335	35,713	41,864	80,321	49,670	105,951
GP-130C-585*/O3	123,574	35,810	41,988	53,936	30,845	54,919	123,574	35,810	41,988	79,984	49,423	105,297	123,574	35,810	41,988	106,023	67,832	155,676
GP-130C-635*/O3																		
GP-130C-685*/O3																		
GP-130C-435*/O4																		
GP-130C-485*/O4							139,116	41,811	50,086	29,685	8,806	8,019	139,116	41,811	50,086	47,590	26,242	42,643
GP-130C-535*/O4	139,187	41,837	50,122	27,349	4,496	3,457	139,187	41,837	50,122	49,131	27,367	45,626	139,187	41,837	50,122	70,912	42,997	87,755
GP-130C-585*/O4	139,426	41,935	50,246	44,528	24,003	36,713	139,426	41,935	50,246	70,567	42,749	87,091	139,426	41,935	50,246	96,615	61,185	137,470
GP-130C-635*/O4	139,877	42,103	50,485	63,326	37,607	73,098	139,877	42,103	50,485	94,022	59,362	132,460	139,877	42,103	50,485	124,707	81,002	191,813
GP-130C-685*/O4																		
GP-130C-485*/O5													183,981	52,334	60,716	58,831	29,464	36,297
GP-130C-535*/O5							184,220	52,432	60,849	58,495	29,207	35,633	184,220	52,432	60,849	84,534	48,334	86,012
GP-130C-585*/O5	184,671	52,609	61,079	51,264	22,428	21,640	184,671	52,609	61,079	81,949	46,466	81,002	184,671	52,609	61,079	112,635	68,434	140,355
GP-130C-635*/O5	184,405	52,503	60,937	71,204	38,651	60,221	184,405	52,503	60,937	106,917	64,372	129,292	184,405	52,503	60,937	142,621	89,676	198,372
GP-130C-735*/O5	184,113	52,388	60,787	92,659	54,184	101,731	184,113	52,388	60,787	133,770	83,418	181,246	184,113	52,388	60,787	174,882	112,449	260,770
GP-130C-535*/O6																		
GP-130C-585*/O6													247,848	66,221	74,072	97,836	50,414	67,779
GP-130C-635*/O6							247,582	66,115	73,930	92,119	46,112	56,724	247,582	66,115	73,930	127,823	72,381	125,796
GP-130C-735*/O6	247,290	66,000	73,771	77,869	30,615	29,154	247,290	66,000	73,771	118,981	65,965	108,678	247,290	66,000	73,771	160,092	95,570	188,202
GP-161C-485A/O2																		
GP-161C-485A/O3																		
GP-161C-535A/O2																		
GP-161C-535A/O3																		
GP-161C-535A/O4																		
GP-161C-585A/O2							238,061	71,106	84,862	62,397	30,412	34,260	238,061	71,106	84,862	94,810	54,292	96,956
GP-161C-585A/O3																		
GP-161C-585A/O4																		
GP-161C-585A/O5																		
GP-161C-635A/O2							238,624	71,323	85,156	91,586	51,963	90,722	238,287	71,193	84,980	167,100	105,695	236,791
GP-161C-635A/O3							276,443	85,887	104,867	69,126	35,508	47,276	276,443	85,887	104,867	107,316	63,287	121,148
GP-161C-635A/O4																		
GP-161C-635A/O5																		
GP-161C-685A/O2	238,287	71,193	84,980	78,219	42,234	64,865	238,287	71,193	84,980	122,660	74,229	150,828	238,287	71,193	84,980	167,100	105,695	236,791
GP-161C-685A/O3							276,106	85,757	104,691	100,199	58,176	107,382	276,106	85,757	104,691	144,640	89,814	193,345
GP-161C-685A/O4																		
GP-161C-685A/O5																		
GP-161C-735A/O2	237,924	71,053	84,791	104,922	61,569	116,517	237,924	71,053	84,791	156,087	97,908	215,488	237,924	71,053	84,791	207,252	134,022	314,458
GP-161C-735A/O3	275,743	85,617	104,502	82,461	45,337	73,071	275,743	85,617	104,502	133,627	82,008	172,042	275,743	85,617	104,502	184,792	118,180	271,012
GP-161C-735A/O4																		
GP-161C-735A/O5																		
GP-161C-785A/O3	275,355	85,468	104,300	111,045	65,962	128,361	275,355	85,468	104,300	169,408	107,327	241,255	275,355	85,468	104,300	227,771	148,478	354,149
GP-161C-785A/O4													353,358	110,168	134,568	193,282	120,743	263,392
GP-161C-785A/O5																		
GP-161C-835A/O4							353,944	110,009	134,352	173,055	106,421	224,264	353,944	110,009	134,352	239,089	153,095	351,998
GP-161C-835A/O5																		
GP-161C-885A/O4	353,504	109,840	134,123	139,364	82,467	159,096	353,504	109,840	134,123	213,544	135,069	302,584	353,504	109,840	134,123	287,724	187,382	446,073
GP-161C-885A/O5							455,692	136,905	163,951	253,736	156,016	328,682	455,692	136,905	163,951	253,736	156,016	328,682
GP-200C-535*/O1																		
GP-200C-585*/O1																		
GP-200C-635*/O1																		
GP-200C-685*/O1																		
GP-200C-735*/O1							467,824	138,603	164,642	131,797	65,832	80,391	467,824	138,603	164,642	196,469	113,245	205,479
GP-200C-785*/O1	467,337	138,417	164,385	103,253	28,101	25,180	467,337	138,417	164,385	177,024	99,190	167,872	467,337	138,417	164,385	250,786	152,091	310,564
GP-200C-835*/O1	466,815	138,213	164,111	141,762	73,320	99,659	466,815	138,213	164,111	225,225	133,903	261,106	466,815	138,213	164,111	308,688	193,106	422,553



**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

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FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

Model Number	SPRING			40 PSI			Model Number	SPRING			50 PSI			Model Number	SPRING			60 PSI		
	Torque Output (lbf-inch)							Torque Output (lbf-inch)							Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC
GP-200C-935*/O1	465,673	137,771	163,509	225,898	134,381	262,416	GP-200C-935*/O1	465,673	137,771	163,509	330,549	208,568	464,850	GP-200C-935*/O1	465,673	137,771	163,509	435,200	282,401	667,285
GP-200C-937*/O1	465,054	137,532	163,190	271,532	166,801	350,684	GP-200C-937*/O1	465,054	137,532	163,190	387,681	248,883	575,352	GP-200C-937*/O1	465,054	137,532	163,190	503,820	330,717	800,019
GP-200C-535*/O2																				
GP-200C-585*/O2																				
GP-200C-635*/O2																				
GP-200C-685*/O2																				
GP-200C-735*/O2																				
GP-200C-785*/O2																				
GP-200C-835*/O2							635,333	183,591	214,914	167,323	70,302	67,522	635,333	183,591	214,914	250,795	139,028	228,969		
GP-200C-935*/O2	634,183	183,149	214,321	168,005	71,541	68,823	634,183	183,149	214,321	272,656	154,888	271,258	634,183	183,149	214,321	377,307	229,774	473,692		
GP-200C-937*/O2	633,563	182,901	214,002	213,639	111,767	157,101	633,563	182,901	214,002	329,788	195,982	381,759	633,563	182,901	214,002	445,927	278,391	606,427		
GP-201C-935*/O3																				
GP-201C-937*/O3																				
GP-201C-835*/O7													1,107,255	301,607	341,134	301,058	71,620	62,265		
GP-201C-935*/O7													878,517	242,360	276,179	306,829	154,401	193,017		
GP-201C-937*/O7							877,897	242,121	275,851	259,300	105,651	101,084	877,897	242,121	275,851	375,449	205,231	325,743		
GP-270C-935*/O0																				
GP-270C-937*/O0																				
GP-270C-940*/O0																				
GP-270C-945*/O0																				
GP-270C-962*/O0							1,791,312	436,236	463,186	733,055	352,888	381,069	1,791,312	436,236	463,186	988,346	543,224	874,879		
GP-270C-935*/O2																				
GP-270C-937*/O2																				
GP-270C-940*/O2																				
GP-270C-945*/O2																				
GP-270C-962*/O2																				
GP-270C-937*/O3																				
GP-270C-940*/O3																				
GP-270C-945*/O3																				
GP-270C-962*/O3																				
GP-270C-935*/O4																				
GP-270C-937*/O4																				
GP-270C-940*/O4																				
GP-270C-945*/O4							1,695,290	397,062	413,144	790,080	396,496	491,376	1,697,415	397,930	414,251	811,233	412,436	532,284		
GP-270C-962*/O4													1,695,290	397,062	413,144	1,045,371	584,734	985,186		
GP-271C-945*/O0							1,791,312	436,236	463,186	733,055	352,888	381,069	1,793,427	437,085	464,293	754,208	369,200	421,986		
GP-271C-962*/O0							1,797,640	438,794	466,488	840,618	434,439	589,124	1,791,312	436,236	463,186	988,346	543,224	874,879		
GP-271C-965*/O0	1,797,640	438,794	466,488	564,492	77,090	55,016	1,797,640	438,794	466,488	840,618	434,439	589,124	1,797,640	438,794	466,488	1,116,735	636,431	1,123,222		
GP-271C-975*/O0	1,795,817	438,059	465,541	833,103	428,845	574,591	1,795,817	438,059	465,541	1,176,619	679,587	1,239,061	1,795,817	438,059	465,541	1,520,134	925,010	1,903,531		
GP-271C-945*/O2																				
GP-271C-962*/O2													2,327,464	504,351	507,413	937,958	283,330	258,955		
GP-271C-965*/O2													2,333,792	507,148	510,706	1,066,347	503,342	507,307		
GP-271C-975*/O2							2,331,969	506,343	509,759	1,126,231	549,897	623,137	2,331,969	506,343	509,759	1,469,747	805,533	1,287,616		
GP-271C-945*/O3																				
GP-271C-962*/O3																				
GP-271C-965*/O3																				
GP-271C-975*/O3							2,489,176	573,334	591,699	1,032,865	457,814	442,546	2,490,999	574,086	592,646	972,981	347,719	326,708		
GP-271C-980*/O3							2,488,530	573,060	591,354	1,153,014	570,378	674,949	2,489,176	573,334	591,699	1,376,380	737,144	1,107,016		
GP-271C-945*/O4													2,488,530	573,060	591,354	1,520,630	842,609	1,386,036		
GP-271C-962*/O4							1,695,290	397,062	413,144	790,080	396,496	491,376	1,697,415	397,930	414,251	811,233	412,436	532,284		
GP-271C-965*/O4	1,701,619	399,664	416,445	621,517	181,927	165,314	1,701,619	399,664	416,445	897,634	476,710	699,422	1,695,290	397,062	413,144	1,045,371	584,734	985,186		
GP-271C-975*/O4	1,699,804	398,912	415,498	890,129	471,161	684,889	1,699,804	398,912	415,498	1,233,635	720,646	1,349,368	1,701,619	399,664	416,445	1,173,760	677,534	1,233,529		
GP-350C-960*/O1													1,699,804	398,912	415,498	1,577,151	965,449	2,013,838		
GP-350C-970*/O1																				
GP-350C-975*/O1													3,844,686	672,542	667,993	1,925,923	812,711	780,990		
GP-350C-980*/O1													3,843,836	672,108	667,550	2,114,940	1,027,811	1,146,615		
GP-350C-982*/O1	2,812,883	646,795	666,957	1,281,783	627,624	718,044	2,812,883	646,795	666,957	1,796,145	1,008,056	1,713,001	2,812,883	646,795	666,957	2,310,515	1,378,106	2,707,958		
GP-350C-992*/O1	3,840,137	670,214	665,621	1,697,600	392,973	339,355	3,840,137	670,214	665,621	2,316,339	1,180,743	1,536,198	3,840,137	670,214	665,621	2,935,077	1,636,238	2,733,041		



GP RANGE TORQUE DATA
 CANTED SPRING-RETURN
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GP RANGE TORQUE DATA
 CANTED SPRING-RETURN
 FAIL OPEN, CLOCK WISE TO CLOSE
 IMPERIAL

Model Number	40 PSI						50 PSI						60 PSI					
	SPRING			TORQUE OUTPUT (lbf-INCH)			SPRING			TORQUE OUTPUT (lbf-INCH)			SPRING			TORQUE OUTPUT (lbf-INCH)		
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC



**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

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**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

Model Number	70 PSI						80 PSI						90 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/O1	14,374	4,169	4,903	8,187	4,965	10,125	14,374	4,169	4,903	10,214	6,399	14,055	14,374	4,169	4,903	12,249	7,833	17,985
GP-065C-280*/O1	14,214	4,107	4,815	14,064	9,116	21,498	14,214	4,107	4,815	16,949	11,143	27,074	14,214	4,107	4,815	19,835	13,179	32,650
GP-065C-335*/O1																		
GP-065C-385*/O1																		
GP-065C-235*/O2							23,534	6,718	7,815	6,895	3,310	3,540	23,534	6,718	7,815	8,930	4,833	7,461
GP-065C-280*/O2	23,375	6,656	7,727	10,745	6,151	10,975	23,375	6,656	7,727	13,630	8,213	16,551	23,375	6,656	7,727	16,515	10,258	22,127
GP-065C-335*/O2	23,136	6,567	7,603	19,330	12,249	27,579												
GP-065C-385*/O2																		
GP-065C-335*/O3																		
GP-065C-385*/O3																		
GP-065C-280*/O4	30,093	9,063	10,869	7,169	3,346	3,257	30,093	9,063	10,869	10,054	5,514	8,833	30,093	9,063	10,869	12,940	7,594	14,409
GP-065C-335*/O4	29,862	8,966	10,745	15,754	9,603	19,852	29,862	8,966	10,745	19,879	12,524	27,836						
GP-065C-385*/O4																		
GP-085C-235*/O1	21,038	5,726	6,479	10,833	6,204	11,090	21,038	5,726	6,479	13,524	8,125	16,285	21,038	5,726	6,479	16,206	10,037	21,481
GP-085C-280*/O1	20,826	5,647	6,373	18,613	11,736	26,127	20,826	5,647	6,373	22,428	14,427	33,500	20,826	5,647	6,373	26,242	17,117	40,882
GP-085C-335*/O1	20,516	5,523	6,204	29,960	19,737	48,086	20,516	5,523	6,204	35,421	23,578	58,645	20,516	5,523	6,204	40,882	27,411	69,195
GP-085C-385*/O1	20,374	5,470	6,134	42,147	28,305	71,647	20,374	5,470	6,134	49,361	33,376	85,596						
GP-085C-435*/O1																		
GP-085C-280*/O2	34,403	9,161	10,223	14,214	7,452	10,532	34,403	9,161	10,223	18,029	10,240	17,905	34,403	9,161	10,223	21,844	12,975	25,287
GP-085C-335*/O2	34,093	9,037	10,063	25,570	15,622	32,482	34,093	9,037	10,063	31,022	19,489	43,041	34,093	9,037	10,063	36,483	23,348	53,600
GP-085C-385*/O2	33,951	8,984	9,992	37,748	24,242	56,052	33,951	8,984	9,992	44,962	29,323	70,001	33,951	8,984	9,992	52,175	34,394	83,949
GP-085C-435*/O2	33,881	8,957	9,957	51,671	34,040	82,976												
GP-085C-335*/O3	55,459	14,542	16,091	18,702	8,213	7,930	55,459	14,542	16,091	24,163	12,772	18,489	55,459	14,542	16,091	29,623	16,754	29,048
GP-085C-385*/O3	55,326	14,489	16,020	30,889	17,675	31,500	55,326	14,489	16,020	38,094	22,844	45,449	55,326	14,489	16,020	45,307	27,960	59,389
GP-085C-435*/O3	55,255	14,453	15,976	44,802	27,605	58,424	55,255	14,453	15,976	54,007	34,120	76,232						
GP-085C-485*/O3	54,945	14,338	15,825	60,309	38,563	88,410												
GP-085C-280*/O4	39,200	10,683	12,090	12,090	5,213	5,018	39,200	10,683	12,090	15,905	8,444	12,400	39,200	10,683	12,090	19,719	11,223	19,773
GP-085C-335*/O4	38,881	10,559	11,931	23,437	13,905	26,977	38,881	10,559	11,931	28,898	17,781	37,536	38,881	10,559	11,931	34,359	21,640	48,095
GP-085C-385*/O4	38,749	10,506	11,860	35,624	22,543	50,547	38,749	10,506	11,860	42,838	27,623	64,487	38,749	10,506	11,860	50,042	32,704	78,435
GP-085C-435*/O4	38,678	10,479	11,825	49,546	32,358	77,471												
GP-085C-485*/O4																		
GP-085C-335*/O5							60,088	16,356	18,498	21,419	10,718	13,179	60,088	16,356	18,498	26,871	14,763	23,738
GP-085C-385*/O5	59,946	16,303	18,427	28,145	15,684	26,189	59,946	16,303	18,427	35,350	20,879	40,138	59,946	16,303	18,427	42,563	26,012	54,087
GP-085C-435*/O5	59,875	16,277	18,392	42,059	25,658	53,113	59,875	16,277	18,392	51,264	32,172	70,921						
GP-085C-385*/O6	73,267	19,719	22,153	23,897	11,170	10,886	73,267	19,719	22,153	31,102	16,622	24,835	73,267	19,719	22,153	38,315	21,870	38,775
GP-085C-435*/O6	73,196	19,693	22,109	37,819	21,516	37,810	73,196	19,693	22,109	47,024	28,119	55,618	73,196	19,693	22,109	56,220	34,660	73,417
GP-085C-485*/O6	72,895	19,569	21,959	53,317	32,597	67,797												
GP-085C-435*/O7																		
GP-085C-485*/O7																		
GP-085C-535*/O7																		
GP-100C-385*/O1							93,030	21,516	22,251	41,705	20,312	22,844	93,030	21,516	22,251	50,281	26,747	39,439
GP-100C-435*/O1	92,942	21,481	22,207	49,688	26,313	38,288	92,942	21,481	22,207	60,636	34,306	59,477	92,942	21,481	22,207	71,594	42,192	80,666
GP-100C-485*/O1	92,579	21,330	22,021	68,133	39,713	73,975	92,579	21,330	22,021	81,746	49,440	100,306						
GP-100C-535*/O1	92,632	21,348	22,038	88,817	54,459	113,989												
GP-100C-585*/O1																		
GP-100C-385*/O2																		
GP-100C-435*/O2	109,077	28,004	30,615	40,103	19,073	19,755	109,077	28,004	30,615	51,051	27,322	40,935	109,077	28,004	30,615	62,008	35,297	62,123
GP-100C-485*/O2	108,723	27,862	30,429	58,548	32,792	55,432	108,723	27,862	30,429	72,160	42,599	81,763	108,723	27,862	30,429	85,781	52,299	108,103
GP-100C-535*/O2	108,767	27,880	30,455	79,241	47,652	95,455												
GP-100C-585*/O2																		
GP-130C-385*/O1							138,488	38,492	44,050	37,979	12,373	11,453	138,488	38,492	44,050	49,254	25,225	33,270
GP-130C-435*/O1	138,373	38,439	43,988	48,476	24,632	31,765	138,373	38,439	43,988	62,876	35,226	59,619	138,373	38,439	43,988	77,276	45,608	87,472
GP-130C-485*/O1	137,904	38,262	43,740	72,727	42,342	78,674	137,904	38,262	43,740	90,623	55,114	113,298	137,904	38,262	43,740	108,528	67,797	147,923
GP-130C-535*/O1	137,965	38,279	43,776	99,925	61,716	131,292	137,965	38,279	43,776	121,707	77,117	173,422	137,965	38,279	43,776	143,488	92,481	215,560
GP-130C-585*/O1	138,204	38,377	43,900	129,885	82,887	189,247	138,204	38,377	43,900	155,933	101,261	239,625	138,204	38,377	43,900	181,980	119,591	290,004
GP-130C-635*/O1	138,665	38,554	44,139	162,624	105,970	252,574												
GP-130C-385*/O2																		
GP-130C-435*/O2							171,368	45,351	50,449	55,503	22,684	21,720	171,368	45,351	50,449	69,903	36,235	49,573
GP-130C-485*/O2	170,890	45,165	50,210	65,354	32,819	40,767	170,890	45,165	50,210	83,259	46,050	75,400	170,890	45,165	50,210	101,155	58,990	110,024
GP-130C-535*/O2	170,961	45,192	50,237	92,561	52,795	93,393	170,961	45,192	50,237	114,343	68,425	135,523	170,961	45,192	50,237	136,125	83,896	177,661



**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

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CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

Model Number	70 PSI							80 PSI							90 PSI					
	Torque Output (lbf-inch)							Torque Output (lbf-inch)							Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC
GP-130C-585*/O2	171,200	45,289	50,370	122,521	74,249	151,348		171,200	45,289	50,370	148,569	92,703	201,726		171,200	45,289	50,370	174,608	111,103	252,105
GP-130C-635*/O2	171,651	45,466	50,600	155,260	97,438	214,675		171,651	45,466	50,600	185,945	119,105	274,028							
GP-130C-685*/O2	171,377	45,360	50,458	190,273	122,158	282,401														
GP-130C-585*/O3	123,857	35,916	42,130	28,871	7,302	6,443		123,857	35,916	42,130	40,156	20,773	28,260		123,857	35,916	42,130	51,432	29,039	50,078
GP-130C-635*/O3	123,742	35,872	42,076	50,653	28,473	48,573		123,742	35,872	42,076	65,053	38,828	76,426		123,742	35,872	42,076	79,453	49,051	104,280
GP-130C-685*/O3	123,273	35,686	41,829	74,904	45,829	95,482		123,273	35,686	41,829	92,809	58,495	130,106		123,273	35,686	41,829	110,705	71,133	164,730
GP-130C-585*/O4	123,335	35,713	41,864	102,111	65,062	148,100		123,335	35,713	41,864	123,893	80,427	190,229		123,335	35,713	41,864	145,674	95,765	232,368
GP-130C-635*/O4	123,574	35,810	41,988	132,071	86,189	206,054		123,574	35,810	41,988	158,110	104,527	256,433		123,574	35,810	41,988	184,158	122,848	306,811
GP-130C-685*/O4	139,594	41,997	50,334	41,244	21,578	30,358		139,709	42,041	50,396	30,739	10,736	10,054		139,709	42,041	50,396	42,023	22,162	31,872
GP-130C-485*/O4	139,116	41,811	50,086	65,496	39,138	77,267		139,594	41,997	50,334	55,645	32,075	58,220		139,594	41,997	50,334	70,045	42,377	86,074
GP-130C-535*/O4	139,187	41,837	50,122	92,694	58,415	129,855		139,116	41,811	50,086	83,392	51,839	111,900		139,116	41,811	50,086	101,297	64,495	146,524
GP-130C-585*/O4	139,428	41,935	50,246	122,854	79,559	187,848		139,187	41,837	50,122	114,476	73,789	172,023		139,187	41,837	50,122	136,257	89,136	214,153
GP-130C-635*/O4	139,877	42,103	50,485	155,393	102,607	261,175		139,428	41,935	50,246	148,701	97,988	238,227		139,428	41,935	50,246	174,740	116,228	288,596
GP-130C-485*/O5	183,919	52,317	60,690	53,414	25,295	25,809		183,919	52,317	60,690	71,319	38,731	60,433		183,919	52,317	60,690	89,216	51,706	95,066
GP-130C-535*/O5	183,981	52,334	60,716	80,613	45,502	78,426		183,981	52,334	60,716	102,403	61,159	120,565		183,981	52,334	60,716	124,185	76,621	162,694
GP-130C-585*/O5	184,220	52,432	60,849	110,581	66,982	136,390		184,220	52,432	60,849	136,620	85,427	186,760		184,220	52,432	60,849	162,668	103,828	237,138
GP-130C-635*/O5	184,671	52,609	61,079	143,320	90,163	199,717		184,671	52,609	61,079	174,006	111,820	259,070							
GP-130C-685*/O5	184,405	52,503	60,937	178,334	114,874	267,443														
GP-130C-735*/O5																				
GP-130C-535*/O6								247,157	65,947	73,709	87,605	42,669	47,989		247,157	65,947	73,709	109,386	58,955	90,127
GP-130C-585*/O6	247,396	66,044	73,833	95,783	48,874	63,814		247,396	66,044	73,833	121,831	68,036	114,192		247,396	66,044	73,833	147,869	86,826	164,571
GP-130C-635*/O6	247,848	66,221	74,072	128,522	72,886	127,141		247,848	66,221	74,072	159,207	94,942	186,494		247,848	66,221	74,072	189,893	116,741	245,856
GP-130C-685*/O6	247,582	66,115	73,930	163,535	98,022	194,867		247,582	66,115	73,930	199,239	123,371	263,938							
GP-130C-735*/O6	247,290	66,000	73,771	201,204	124,760	267,726														
GP-161C-485A/O2								237,679	70,959	84,663	78,357	42,334	65,131		237,679	70,959	84,663	100,635	58,490	108,225
GP-161C-485A/O3															237,759	70,989	84,705	144,150	89,468	192,398
GP-161C-535A/O2								237,759	70,989	84,705	117,042	70,231	139,961		237,759	70,989	84,705	144,150	89,468	192,398
GP-161C-535A/O3								275,578	85,554	104,416	94,581	54,127	96,515		275,881	85,670	104,574	169,586	107,453	241,600
GP-161C-535A/O4																				
GP-161C-585A/O2	238,061	71,106	84,862	127,222	77,466	159,653		238,061	71,106	84,862	159,634	100,416	222,349		238,061	71,106	84,862	192,047	123,297	285,046
GP-161C-585A/O3								275,881	85,670	104,574	137,174	84,524	178,904		275,881	85,670	104,574	169,586	107,453	241,600
GP-161C-585A/O4																				
GP-161C-585A/O5																				
GP-161C-635A/O2	238,624	71,323	85,156	167,966	106,307	238,466		238,624	71,323	85,156	206,156	133,249	312,337		238,624	71,323	85,156	244,346	160,147	386,209
GP-161C-635A/O3	276,443	85,887	104,867	145,506	90,426	195,020		276,443	85,887	104,867	183,695	117,406	268,891		276,443	85,887	104,867	221,885	144,334	342,763
GP-161C-635A/O4								355,447	110,587	135,135	149,207	89,487	178,134		355,447	110,587	135,135	187,396	116,581	252,006
GP-161C-635A/O5																				
GP-161C-685A/O2	238,287	71,193	84,980	211,541	137,048	322,754		238,287	71,193	84,980	255,982	168,339	408,718		238,287	71,193	84,980	300,423	199,621	494,681
GP-161C-685A/O3	276,106	85,757	104,691	189,081	121,205	279,309		276,106	85,757	104,691	233,521	152,526	365,272		276,106	85,757	104,691	277,962	183,815	451,235
GP-161C-685A/O4	355,109	110,457	134,959	154,592	93,320	188,551		355,109	110,457	134,959	199,033	124,809	274,514		355,109	110,457	134,959	243,473	156,187	360,478
GP-161C-685A/O5								457,297	137,524	164,787	209,486	124,580	243,086		457,297	137,524	164,787	209,486	124,580	243,086
GP-161C-735A/O2	237,924	71,053	84,791	258,417	170,054	413,429		237,924	71,053	84,791	309,583	206,062	512,400							
GP-161C-735A/O3	275,743	85,617	104,502	235,957	154,241	369,983		275,743	85,617	104,502	287,122	190,264	468,954		275,743	85,617	104,502	338,287	226,245	567,924
GP-161C-735A/O4	354,746	110,317	134,770	201,468	126,531	279,226		354,746	110,317	134,770	252,633	162,648	378,196		354,746	110,317	134,770	303,799	198,699	477,167
GP-161C-735A/O5																				
GP-161C-785A/O3	275,355	85,468	104,300	286,135	189,568	467,043														
GP-161C-785A/O4	354,358	110,168	134,568	251,646	161,952	376,286		354,358	110,168	134,568	310,009	203,071	489,180							
GP-161C-785A/O5	456,546	137,235	164,396	217,658	130,396	258,894		456,546	137,235	164,396	276,021	171,802	371,788		456,546	137,235	164,396	334,384	213,043	484,682
GP-161C-835A/O4	353,944	110,009	134,352	305,124	199,632	479,731														
GP-161C-835A/O5	456,132	137,075	164,180	271,136	168,348	362,340		456,132	137,075	164,180	337,171	215,009	490,073							
GP-161C-885A/O4																				
GP-161C-885A/O5	455,692	136,905	163,951	327,916	208,481	472,171														
GP-200C-535*/O1																				
GP-200C-585*/O1								468,001	138,674	164,730	136,275	69,213	89,065		468,001	138,674	164,730	116,706	52,839	51,202
GP-200C-635*/O1	468,718	138,948	165,102	146,807	77,072	109,431		468,718	138,948	165,102	195,079	112,245	202,797		468,718	138,948	165,102	177,245	99,350	168,306
GP-200C-685*/O1	468,284	138,780	164,881	201,886	117,149	215,967		468,284	138,780	164,881	258,061	157,242	324,619		468,284	138,780	164,881	243,351	146,799	296,173
GP-200C-735*/O1	467,824	138,603	164,642	261,133	159,429	330,576		467,824	138,603	164,642	325,805	205,213	455,672		468,284	138,603	164,881	314,228	197,027	433,271
GP-200C-785*/O1	467,337	138,417	164,385	324,557	204,328	453,256		467,337	138,417	164,385	398,328	256,397	595,948		467,337	138,417	164,385	472,090	308,378	738,639
GP-200C-835*/O1	466,815	138,213	164,111	392,150	252,043	58														



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**GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

Model Number	70 PSI						80 PSI						90 PSI					
	Torque Output (lb-ft)						Torque Output (lb-ft)						Torque Output (lb-ft)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-200C-935*/O1	465,673	137,771	163,509	539,860	356,083	869,719												
GP-200C-937*/O1																		
GP-200C-535*/O2																		
GP-200C-585*/O2																		
GP-200C-635*/O2																		
GP-200C-685*/O2																		
GP-200C-735*/O2	636,342	183,981	215,445	203,240	104,014	136,983	636,803	184,158	215,684	200,160	101,704	131,035	637,227	184,326	215,905	185,459	90,543	102,580
GP-200C-785*/O2	635,856	183,786	215,188	266,664	150,551	259,663	636,342	183,981	215,445	267,912	151,454	262,080	636,803	184,158	215,684	256,335	143,064	239,687
GP-200C-835*/O2	635,333	183,591	214,914	334,257	199,160	390,415	635,856	183,786	215,188	340,426	203,558	402,355	635,856	183,786	215,188	414,197	255,937	545,047
GP-200C-935*/O2	634,183	183,149	214,321	481,959	303,864	676,126	635,333	183,591	214,914	417,720	258,433	551,862	635,333	183,591	214,914	501,183	317,459	713,308
GP-200C-937*/O2	633,563	182,901	214,002	562,076	360,411	831,094	634,183	183,149	214,321	586,619	377,723	878,561						
GP-201C-835*/O3													1,109,017	302,297	342,055	356,313	168,111	169,147
GP-201C-935*/O3	1,107,875	301,846	341,462	337,090	137,859	131,965	1,107,875	301,846	341,462	441,750	232,837	334,399	1,107,875	301,846	341,462	546,401	309,272	536,833
GP-201C-937*/O3	1,107,255	301,607	341,134	417,207	214,604	286,924	1,107,255	301,607	341,134	533,346	299,819	511,591	1,107,255	301,607	341,134	649,495	383,503	736,250
GP-201C-835*/O7	879,658	242,811	276,772	263,779	113,874	109,732	879,658	242,811	276,772	347,241	184,520	271,187	879,658	242,811	276,772	430,704	245,360	432,634
GP-201C-935*/O7	878,517	242,360	276,179	411,480	231,438	395,452	878,517	242,360	276,179	516,140	306,785	597,886	878,517	242,360	276,179	620,792	381,140	800,320
GP-201C-937*/O7	877,897	242,121	275,851	491,597	289,181	550,410	877,897	242,121	275,851	607,737	371,891	775,078	877,897	242,121	275,851	723,885	454,123	999,736
GP-270C-935*/O0					-13,052	-16,683	1,797,384	438,687	466,355	602,559	147,064	128,637	1,797,384	438,687	466,355	745,392	362,412	404,922
GP-270C-937*/O0							1,796,534	438,351	465,912	727,576	348,622	370,475	1,796,534	438,351	465,912	886,102	468,187	677,100
GP-270C-940*/O0	1,795,366	437,873	465,302	719,716	342,480	355,260	1,795,366	437,873	465,302	899,847	478,339	703,697	1,795,366	437,873	465,302	1,079,977	609,808	1,052,124
GP-270C-945*/O0	1,793,427	437,085	464,293	970,281	530,071	839,945	1,793,427	437,085	464,293	1,186,355	686,615	1,257,904	1,793,427	437,085	464,293	1,402,437	841,343	1,675,872
GP-270C-962*/O0	1,791,312	436,236	463,186	1,243,628	727,815	1,368,689	1,791,312	436,236	463,186	1,498,919	909,972	1,862,499						
GP-270C-935*/O2																		
GP-270C-937*/O2																		
GP-270C-940*/O2																		
GP-270C-945*/O2																		
GP-270C-962*/O2																		
GP-270C-937*/O3																		
GP-270C-940*/O3																		
GP-270C-945*/O3																		
GP-270C-962*/O3																		
GP-270C-935*/O4							1,701,362	399,558	416,304	659,576	251,901	238,935	1,701,362	399,558	416,304	802,418	405,825	515,229
GP-270C-937*/O4	1,700,521	399,213	415,870	626,084	190,318	174,147	1,700,521	399,213	415,870	784,601	392,345	480,782	1,700,521	399,213	415,870	943,118	510,157	787,407
GP-270C-940*/O4	1,699,353	398,726	415,259	776,742	386,397	465,567	1,699,353	398,726	415,259	956,872	520,238	813,995	1,699,353	398,726	415,259	1,137,003	651,043	1,162,431
GP-270C-945*/O4	1,697,415	397,930	414,251	1,027,307	571,617	950,252	1,697,415	397,930	414,251	1,243,380	727,629	1,368,211	1,697,415	397,930	414,251	1,459,462	881,924	1,786,170
GP-270C-962*/O4	1,695,290	397,062	413,144	1,300,653	768,723	1,478,996	1,695,290	397,062	413,144	1,555,944	950,411	1,972,806						
GP-271C-945*/O0	1,793,427	437,085	464,293	970,281	530,071	839,945	1,793,427	437,085	464,293	1,186,355	686,615	1,257,904	1,793,427	437,085	464,293	1,402,437	841,343	1,675,872
GP-271C-962*/O0	1,791,312	436,236	463,186	1,243,628	727,815	1,368,689	1,791,312	436,236	463,186	1,498,919	909,972	1,862,499	1,791,312	436,236	463,186	1,754,210	1,090,917	2,356,317
GP-271C-965*/O0	1,797,640	438,794	466,488	1,392,851	834,528	1,657,329	1,797,640	438,794	466,488	1,668,968	1,030,564	2,191,437	1,797,640	438,794	466,488	1,945,085	1,225,882	2,725,544
GP-271C-975*/O0	1,795,817	438,059	465,541	1,863,640	1,168,299	2,568,001												
GP-271C-945*/O2	2,329,579	505,289	508,511	919,894	250,131	224,021	2,329,579	505,289	508,511	1,135,976	557,358	641,989	2,329,579	505,289	508,511	1,352,049	719,194	1,059,948
GP-271C-962*/O2	2,327,464	504,351	507,413	1,193,249	600,895	752,774	2,327,464	504,351	507,413	1,448,531	790,053	1,246,584	2,327,464	504,351	507,413	1,703,822	975,353	1,740,394
GP-271C-965*/O2	2,333,792	507,148	510,706	1,342,464	712,122	1,041,415	2,333,792	507,148	510,706	1,618,581	913,707	1,575,522	2,333,792	507,148	510,706	1,894,707	1,112,707	2,109,621
GP-271C-975*/O2	2,331,969	506,343	509,759	1,813,262	1,054,222	1,952,086	2,331,969	506,343	509,759	2,156,777	1,299,821	2,616,556						
GP-271C-945*/O3							2,486,786	572,343	590,451	1,042,609	475,728	461,390	2,486,786	572,343	590,451	1,258,683	649,990	879,349
GP-271C-962*/O3	2,484,671	571,458	589,345	1,099,883	529,558	572,174	2,484,671	571,458	589,345	1,355,165	721,504	1,065,984	2,484,671	571,458	589,345	1,610,556	907,821	1,559,794
GP-271C-965*/O3	2,490,999	574,086	592,646	1,249,097	642,857	860,815	2,490,999	574,086	592,646	1,525,223	845,955	1,394,922	2,490,999	574,086	592,646	1,801,340	1,045,636	1,929,030
GP-271C-975*/O3	2,489,176	573,334	591,699	1,719,895	986,938	1,771,486	2,489,176	573,334	591,699	2,063,411	1,233,379	2,435,965						
GP-271C-980*/O3	2,488,530	573,060	591,354	1,888,237	1,108,070	2,097,123	2,488,530	573,060	591,354	2,255,853	1,370,255	2,808,210						
GP-271C-945*/O4	1,697,415	397,930	414,251	1,027,307	571,617	950,252	1,697,415	397,930	414,251	1,243,380	727,629	1,368,211	1,697,415	397,930	414,251	1,459,462	881,924	1,786,170
GP-271C-962*/O4	1,695,290	397,062	413,144	1,300,653	768,723	1,478,996	1,695,290	397,062	413,144	1,555,944	950,411	1,972,806	1,695,290	397,062	413,144	1,811,226	1,131,241	2,466,616
GP-271C-965*/O4	1,701,619	399,664	416,445	1,449,877	875,109	1,767,636	1,701,619	399,664	416,445	1,725,994	1,070,967	2,301,744						
GP-271C-975*/O4	1,699,804	398,912	415,498	1,920,666	1,208,614	2,678,308												
GP-350C-960*/O1													3,840,199	670,241	665,656	1,997,366	936,055	919,195
GP-350C-970*/O1	3,846,306	673,374	668,842	1,957,299	870,400	841,689	3,846,306	673,374	668,842	2,347,448	1,204,109	1,596,445	3,846,306	673,374	668,842	2,737,679	1,492,334	2,351,202
GP-350C-975*/O1	3,844,686	672,542	667,993	2,376,055	1,225,484	1,651,709	3,844,686	672,542	667,993	2,826,195	1,556,900	2,522,419	3,844,686	672,542	667,993	3,276,326	1,883,077	3,393,139
GP-350C-980*/O1	3,843,836	672,108	667,550	2,596,651	1,388,913	2,078,413	3,843,836	672,108	667,550	3,078,371	1,740,057	3,010,211	3,843,836	672,108	667,550	3,560,081	2,087,264	3,942,018
GP-350C-982*/O1	2,812,883	646,795	666,957	2,824,876	1,743,394	3,702,915	2,812,883	646,795	666,957	3,339,246	2,107,249	4,697,872						
GP-350C-992*/O1	3,840,137	670,214	665,621	3,553,815	2,082,767	3,929,892	3,840,137	670,214	665,621	4,172,553	2,524,455	5,126,735						



GP RANGE TORQUE DATA
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 FAIL OPEN, CLOCK WISE TO CLOSE
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 IMPERIAL

GP RANGE TORQUE DATA
 CANTED SPRING-RETURN
 FAIL OPEN, CLOCK WISE TO CLOSE
 IMPERIAL

Model Number	70 PSI						80 PSI						90 PSI					
	SPRING			70 PSI			SPRING			80 PSI			SPRING			90 PSI		
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC



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FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
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Model Number	SPRING			100 PSI				SPRING			125 PSI				SPRING			150 PSI		
	Torque Output (lbf-inch)							Torque Output (lbf-inch)							Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/O1	14,374	4,169	4,903	14,276	9,267	21,914		14,374	4,169	4,903	19,357	12,842	31,730							
GP-065C-280*/O1																				
GP-065C-335*/O1																				
GP-065C-385*/O1																				
GP-065C-235*/O2	23,534	6,718	7,815	10,957	6,302	11,391		23,534	6,718	7,815	16,038	9,922	21,215	23,534	6,718	7,815	21,109	13,506	31,031	
GP-065C-280*/O2	23,375	6,656	7,727	19,392	12,294	27,703														
GP-065C-335*/O2																				
GP-065C-385*/O2																				
GP-065C-335*/O3																				
GP-065C-385*/O3																				
GP-065C-280*/O4	30,093	9,063	10,869	15,816	9,647	19,985		30,093	9,063	10,869	23,021	14,745	33,925							
GP-065C-335*/O4																				
GP-065C-385*/O4																				
GP-085C-235*/O1	21,038	5,726	6,479	18,896	11,931	26,676		21,038	5,726	6,479	25,614	16,675	39,660	21,038	5,726	6,479	32,323	21,401	52,653	
GP-085C-280*/O1	20,826	5,647	6,373	30,057	19,799	48,254		20,826	5,647	6,373	39,589	26,508	66,699	20,826	5,647	6,373	49,122	33,208	85,135	
GP-085C-335*/O1	20,516	5,523	6,204	46,343	31,252	79,754														
GP-085C-385*/O1																				
GP-085C-435*/O1																				
GP-085C-280*/O2	34,403	9,161	10,223	25,658	15,692	32,659		34,403	9,161	10,223	35,191	22,428	51,104	34,403	9,161	10,223	44,723	29,154	69,540	
GP-085C-335*/O2	34,093	9,037	10,063	41,944	27,198	64,159														
GP-085C-385*/O2																				
GP-085C-435*/O2																				
GP-085C-335*/O3	55,459	14,542	16,091	35,076	20,684	39,607		55,459	14,542	16,091	48,723	30,376	66,009							
GP-085C-385*/O3	55,326	14,489	16,020	52,511	33,058	73,337														
GP-085C-435*/O3																				
GP-085C-485*/O3																				
GP-085C-280*/O4	39,200	10,683	12,090	23,534	13,966	27,154		39,200	10,683	12,090	33,066	20,728	45,590	39,200	10,683	12,090	42,599	27,464	64,035	
GP-085C-335*/O4	38,881	10,559	11,931	39,820	25,499	58,654		38,881	10,559	11,931	53,459	35,111	85,047							
GP-085C-385*/O4																				
GP-085C-435*/O4																				
GP-085C-485*/O4																				
GP-085C-335*/O5	60,088	16,356	18,498	32,332	18,710	34,297		60,088	16,356	18,498	45,980	28,437	60,698	60,088	16,356	18,498	59,628	38,085	87,091	
GP-085C-385*/O5	59,946	16,303	18,427	49,768	31,119	68,027														
GP-085C-435*/O5																				
GP-085C-385*/O6	73,267	19,719	22,153	45,528	27,057	52,724		73,267	19,719	22,153	63,548	39,837	87,587							
GP-085C-435*/O6																				
GP-085C-485*/O6																				
GP-085C-435*/O7																				
GP-085C-485*/O7																				
GP-085C-535*/O7																				
GP-100C-385*/O1	93,030	21,516	22,251	58,857	33,013	56,034		93,030	21,516	22,251	80,312	48,414	97,526							
GP-100C-435*/O1	92,942	21,481	22,207	82,542	50,007	101,854														
GP-100C-485*/O1																				
GP-100C-535*/O1																				
GP-100C-585*/O1																				
GP-100C-385*/O2	109,165	28,039	30,659	49,272	26,004	37,501		109,165	28,039	30,659	70,726	41,572	78,984	109,165	28,039	30,659	92,172	56,831	120,476	
GP-100C-435*/O2	109,077	28,004	30,615	72,957	43,174	83,312														
GP-100C-485*/O2																				
GP-100C-535*/O2																				
GP-100C-585*/O2																				
GP-130C-385*/O1	138,488	38,492	44,050	60,539	33,527	55,096		138,488	38,492	44,050	88,738	53,777	109,643	138,488	38,492	44,050	116,936	73,744	164,190	
GP-130C-435*/O1	138,373	38,439	43,988	91,676	55,857	115,325		138,373	38,439	43,988	127,672	81,330	184,963	138,373	38,439	43,988	163,677	106,705	254,601	
GP-130C-485*/O1	137,904	38,262	43,740	126,424	80,444	182,547		137,904	38,262	43,740	171,182	111,989	269,116							
GP-130C-535*/O1	137,965	38,279	43,776	165,270	107,838	257,690														
GP-130C-585*/O1																				
GP-130C-635*/O1																				
GP-130C-385*/O2	171,483	45,395	50,511	53,166	18,392	17,197		171,483	45,395	50,511	81,365	44,670	71,744	171,483	45,395	50,511	109,572	65,026	126,291	
GP-130C-435*/O2	171,368	45,351	50,449	84,303	46,812	77,426		171,368	45,351	50,449	120,308	72,674	147,064	171,368	45,351	50,449	156,304	98,173	216,702	
GP-130C-485*/O2	170,890	45,165	50,210	119,060	71,780	144,648		170,890	45,165	50,210	163,810	103,483	231,217							
GP-130C-535*/O2	170,961	45,192	50,237	157,906	99,305	219,791														



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FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL**

Model Number	SPRING			100 PSI			Model Number	SPRING			125 PSI			Model Number	SPRING			150 PSI		
	Torque Output (lbf-inch)							Torque Output (lbf-inch)							Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC		BTO	RTO	ETO	BTC	RTC	ETC
GP-130C-585*/O2	171,200	45,289	50,370	200,655	129,478	302,474														
GP-130C-635*/O2																				
GP-130C-685*/O2																				
GP-130C-585*/O3	123,857	35,916	42,130	62,716	37,155	71,903	123,857	35,916	42,130	90,915	57,158	126,451	123,857	35,916	42,130	119,113	77,063	180,998		
GP-130C-635*/O3	123,742	35,872	42,076	93,853	59,238	132,133	123,742	35,872	42,076	129,858	84,631	201,771	123,742	35,872	42,076	165,854	109,971	271,408		
GP-130C-685*/O3	123,273	35,686	41,829	128,610	83,746	199,354	123,273	35,686	41,829	173,360	115,254	286,923								
GP-130C-585*/O4	123,336	35,713	41,864	167,456	111,103	274,497														
GP-130C-635*/O4																				
GP-130C-685*/O4																				
GP-130C-585*/O4	139,709	42,041	50,396	53,299	30,385	53,689	139,709	42,041	50,396	81,507	50,502	108,245	139,709	42,041	50,396	109,705	70,425	162,792		
GP-130C-635*/O4	139,594	41,997	50,334	84,445	52,582	113,927	139,594	41,997	50,334	120,441	78,002	183,565	139,594	41,997	50,334	156,446	103,350	253,202		
GP-130C-685*/O4	139,116	41,811	50,086	119,193	77,117	181,148	139,116	41,811	50,086	163,942	108,634	267,717								
GP-130C-585*/O5	139,187	41,837	50,122	158,039	104,474	256,291														
GP-130C-635*/O5																				
GP-130C-685*/O5																				
GP-130C-735*/O5																				
GP-130C-535*/O6	247,157	65,947	73,709	131,168	74,807	132,257	247,157	65,947	73,709	185,618	113,714	237,590								
GP-130C-585*/O6	247,396	66,044	73,833	173,917	105,412	214,940														
GP-130C-635*/O6	247,848	66,221	74,072	220,578	138,461	305,209														
GP-130C-685*/O6																				
GP-130C-735*/O6																				
GP-161C-485A/O2	237,679	70,959	84,663	122,913	74,409	151,319	237,679	70,959	84,663	178,609	113,819	259,053	237,679	70,959	84,663	234,305	153,078	366,788		
GP-161C-485A/O3	275,499	85,523	104,375	100,453	58,359	107,873	275,499	85,523	104,375	156,149	97,952	215,607	275,499	85,523	104,375	211,845	137,262	323,342		
GP-161C-535A/O2	237,759	70,989	84,705	171,259	108,634	244,835	237,759	70,989	84,705	239,030	156,405	375,928	237,759	70,989	84,705	306,802	204,107	507,021		
GP-161C-535A/O3	275,578	85,554	104,416	148,798	92,755	201,389	275,578	85,554	104,416	216,570	140,592	332,482	275,578	85,554	104,416	284,342	188,306	463,575		
GP-161C-535A/O4							355,313	110,535	135,066	182,474	113,101	242,485	355,313	110,535	135,066	250,246	160,964	373,578		
GP-161C-585A/O2	238,061	71,106	84,862	224,459	146,146	347,743	238,061	71,106	84,862	305,490	203,185	504,484								
GP-161C-585A/O3	275,881	85,670	104,574	201,999	130,317	304,297	275,881	85,670	104,574	283,030	187,383	461,038								
GP-161C-585A/O4	354,884	110,370	134,842	167,510	102,489	213,539	354,884	110,370	134,842	248,541	159,762	370,281	354,884	110,370	134,842	329,572	216,845	527,022		
GP-161C-585A/O5							457,072	137,437	164,670	214,553	128,186	252,889	457,072	137,437	164,670	295,584	185,635	409,630		
GP-161C-635A/O2	238,624	71,323	85,156	282,535	187,034	460,081														
GP-161C-635A/O3	276,443	85,887	104,867	260,075	171,221	416,635														
GP-161C-635A/O4	355,447	110,587	135,135	225,586	143,570	325,878	355,447	110,587	135,135	321,061	210,852	510,558								
GP-161C-635A/O5	457,634	137,654	164,963	191,598	111,752	208,486	457,634	137,654	164,963	287,073	179,616	393,166								
GP-161C-685A/O2																				
GP-161C-685A/O3	276,106	85,757	104,691	322,403	215,076	537,198														
GP-161C-685A/O4	355,109	110,457	134,959	287,914	187,515	446,441														
GP-161C-685A/O5	457,297	137,524	164,787	253,926	156,151	329,049	457,297	137,524	164,787	365,028	234,658	543,957								
GP-161C-735A/O2																				
GP-161C-735A/O3																				
GP-161C-735A/O4																				
GP-161C-735A/O5	456,934	137,384	164,598	320,976	203,585	458,746														
GP-161C-785A/O3																				
GP-161C-785A/O4																				
GP-161C-785A/O5																				
GP-161C-835A/O4																				
GP-161C-835A/O5																				
GP-161C-885A/O4																				
GP-161C-885A/O5																				
GP-200C-535*/O1	467,621	138,523	164,527	150,976	80,152	117,485	467,621	138,523	164,527	236,634	142,019	283,180	467,621	138,523	164,527	322,291	202,726	448,875		
GP-200C-585*/O1	468,001	138,674	164,730	218,215	128,876	247,555	468,001	138,674	164,730	320,636	201,558	445,662	468,001	138,674	164,730	423,057	273,833	643,777		
GP-200C-635*/O1	468,718	138,948	165,102	291,623	181,042	389,539	468,718	138,948	165,102	412,294	266,248	622,969	468,718	138,948	165,102	532,966	351,233	856,390		
GP-200C-685*/O1	468,284	138,780	164,881	370,395	236,696	541,923	468,284	138,780	164,881	510,830	335,647	813,561								
GP-200C-735*/O1	467,824	138,603	164,642	455,150	296,447	705,856														
GP-200C-785*/O1	467,337	138,417	164,385	545,861	360,314	881,331														
GP-200C-835*/O1																				



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IMPERIAL**

Model Number	100 PSI						125 PSI						150 PSI					
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC
GP-200C-935*/O1																		
GP-200C-937*/O1																		
GP-200C-535*/O2																		
GP-200C-585*/O2	636,519	184,051	215,533	160,322	57,415	53,963	636,519	183,901	215,339	178,741	85,339	89,587	636,139	183,901	215,339	264,398	148,905	255,282
GP-200C-635*/O2	637,227	184,326	215,905	233,722	126,566	195,956	637,227	184,051	215,533	262,735	147,710	252,078	636,519	184,051	215,533	365,155	221,154	450,185
GP-200C-685*/O2	636,803	184,158	215,684	312,502	183,582	348,339	637,227	184,326	215,905	354,402	213,498	429,376	637,227	184,326	215,905	475,073	298,996	662,806
GP-200C-735*/O2	636,342	183,981	215,445	397,248	243,918	512,264	636,803	184,158	215,684	452,928	283,339	619,968						
GP-200C-785*/O2	635,856	183,786	215,188	487,968	308,112	687,739	636,342	183,981	215,445	558,925	358,190	825,005						
GP-200C-835*/O2	635,333	183,591	214,914	584,654	376,334	874,764												
GP-200C-935*/O2																		
GP-200C-937*/O2																		
GP-201C-835*/O3	1,109,017	302,297	342,055	439,785	231,385	330,593	1,109,017	302,297	342,055	648,441	382,751	734,214	1,109,017	302,297	342,055	857,107	531,080	1,137,835
GP-201C-935*/O3	1,107,875	301,846	341,462	651,052	384,618	739,268	1,107,875	301,846	341,462	912,680	570,378	1,245,354						
GP-201C-937*/O3	1,107,255	301,607	341,134	765,643	466,213	960,917												
GP-201C-835*/O7	879,658	242,811	276,772	514,175	305,377	594,080	879,658	242,811	276,772	722,832	453,380	997,701						
GP-201C-935*/O7	878,517	242,360	276,179	725,443	455,221	1,002,755												
GP-201C-937*/O7	877,897	242,121	275,851	840,034	536,152	1,224,404												
GP-270C-935*/O0	1,797,384	438,687	466,355	888,226	469,762	681,216	1,797,384	438,687	466,355	1,245,309	729,019	1,371,937	1,797,384	438,687	466,355	1,602,393	983,354	2,062,658
GP-270C-937*/O0	1,796,534	438,351	465,912	1,044,619	584,194	983,734	1,796,534	438,351	465,912	1,440,920	868,737	1,750,307						
GP-270C-940*/O0	1,795,366	437,873	465,302	1,260,108	739,631	1,400,560												
GP-270C-945*/O0	1,793,427	437,085	464,293	1,618,510	994,780	2,093,831												
GP-270C-962*/O0																		
GP-270C-935*/O2																		
GP-270C-937*/O2																		
GP-270C-940*/O2																		
GP-270C-945*/O2																		
GP-270C-962*/O2																		
GP-270C-937*/O3																		
GP-270C-940*/O3																		
GP-270C-945*/O3																		
GP-270C-962*/O3																		
GP-270C-935*/O4	1,701,362	399,558	416,304	945,251	511,715	791,514	1,701,362	399,558	416,304	1,302,335	769,927	1,482,244	1,701,362	399,558	416,304	1,659,418	1,023,793	2,172,965
GP-270C-937*/O4	1,700,521	399,213	415,870	1,101,644	625,500	1,094,032	1,700,521	399,213	415,870	1,497,936	909,273	1,860,605						
GP-270C-940*/O4	1,699,353	398,726	415,259	1,317,133	780,539	1,510,867												
GP-270C-945*/O4	1,697,415	397,930	414,251	1,675,535	1,035,219	2,204,138												
GP-270C-962*/O4																		
GP-271C-945*/O0	1,793,427	437,085	464,293	1,618,510	994,780	2,093,831												
GP-271C-962*/O0																		
GP-271C-965*/O0																		
GP-271C-975*/O0																		
GP-271C-945*/O2	2,329,579	505,289	508,511	1,568,123	877,154	1,477,907	2,329,579	505,289	508,511	2,108,311	1,265,339	2,522,818						
GP-271C-962*/O2	2,327,464	504,351	507,413	1,959,105	1,158,908	2,234,204												
GP-271C-965*/O2	2,333,792	507,148	510,706	2,170,823	1,309,822	2,643,728												
GP-271C-975*/O2																		
GP-271C-945*/O3	2,486,786	572,343	590,451	1,474,756	809,189	1,297,316	2,486,786	572,343	590,451	2,014,944	1,198,896	2,342,218						
GP-271C-962*/O3	2,484,671	571,458	589,345	1,865,747	1,091,926	2,053,613												
GP-271C-965*/O3	2,490,999	574,086	592,646	2,077,457	1,243,380	2,463,137												
GP-271C-975*/O3																		
GP-271C-980*/O3																		
GP-271C-945*/O4	1,697,415	397,930	414,251	1,675,535	1,035,219	2,204,138												
GP-271C-962*/O4																		
GP-271C-965*/O4																		
GP-271C-975*/O4																		
GP-350C-960*/O1	3,840,199	670,241	665,656	2,305,665	1,172,742	1,515,549	3,840,199	670,241	665,656	3,076,414	1,738,641	3,006,432	3,840,199	670,241	665,656	3,847,156	2,292,884	4,497,314
GP-350C-970*/O1	3,846,306	673,374	668,842	3,127,864	1,775,921	3,105,958	3,846,306	673,374	668,842	4,103,340	2,475,201	4,992,859						
GP-350C-975*/O1	3,844,686	672,542	667,993	3,726,467	2,206,634	4,263,858												
GP-350C-980*/O1	3,843,836	672,108	667,550	4,041,801	2,431,398	4,873,816												
GP-350C-982*/O1																		
GP-350C-992*/O1																		



GP RANGE TORQUE DATA
 CANTED SPRING-RETURN
 FAIL OPEN, CLOCK WISE TO CLOSE
 IMPERIAL

GP RANGE TORQUE DATA
 CANTED SPRING-RETURN
 FAIL OPEN, CLOCK WISE TO CLOSE
 IMPERIAL

GP RANGE TORQUE DATA
 CANTED SPRING-RETURN
 FAIL OPEN, CLOCK WISE TO CLOSE
 IMPERIAL

Model Number	100 PSI						125 PSI						150 PSI					
	SPRING			100 PSI			SPRING			125 PSI			SPRING			150 PSI		
	Torque Output (lbf-inch)						Torque Output (lbf-inch)						Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC	BTO	RTO	ETO	BTC	RTC	ETC



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	SPRING			174 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-065C-235*/O1						
GP-065C-280*/O1						
GP-065C-335*/O1						
GP-065C-385*/O1						
GP-065C-235*/O2						
GP-065C-280*/O2						
GP-065C-335*/O2						
GP-065C-385*/O2						
GP-065C-335*/O3						
GP-065C-385*/O3						
GP-065C-280*/O4						
GP-065C-335*/O4						
GP-065C-385*/O4						
GP-085C-235*/O1	21,038	5,726	6,479	38,775	25,933	65,124
GP-085C-280*/O1						
GP-085C-335*/O1						
GP-085C-385*/O1						
GP-085C-435*/O1						
GP-085C-280*/O2	34,403	9,161	10,223	53,875	35,598	87,242
GP-085C-335*/O2						
GP-085C-385*/O2						
GP-085C-435*/O2						
GP-085C-335*/O3						
GP-085C-385*/O3						
GP-085C-435*/O3						
GP-085C-485*/O3						
GP-085C-280*/O4	39,200	10,683	12,090	51,750	33,907	81,737
GP-085C-335*/O4						
GP-085C-385*/O4						
GP-085C-435*/O4						
GP-085C-485*/O4						
GP-085C-335*/O5						
GP-085C-385*/O5						
GP-085C-435*/O5						
GP-085C-385*/O6						
GP-085C-435*/O6						
GP-085C-485*/O6						
GP-085C-435*/O7						
GP-085C-485*/O7						
GP-085C-535*/O7						
GP-100C-385*/O1						
GP-100C-435*/O1						
GP-100C-485*/O1						
GP-100C-535*/O1						
GP-100C-585*/O1						
GP-100C-385*/O2						
GP-100C-435*/O2						
GP-100C-485*/O2						
GP-100C-535*/O2						
GP-100C-585*/O2						
GP-130C-385*/O1	138,488	38,492	44,050	144,011	92,853	216,560
GP-130C-435*/O1						
GP-130C-485*/O1						
GP-130C-535*/O1						
GP-130C-585*/O1						
GP-130C-635*/O1						
GP-130C-385*/O2	171,483	45,395	50,511	136,638	84,259	178,661
GP-130C-435*/O2	171,368	45,351	50,449	190,866	122,574	283,551
GP-130C-485*/O2						
GP-130C-535*/O2						



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	SPRING			174 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-130C-585"/O2						
GP-130C-635"/O2						
GP-130C-685"/O2						
GP-130C-585"/O3	123,857	35,916	42,130	146,188	96,128	233,368
GP-130C-435"/O3						
GP-130C-485"/O3						
GP-130C-535"/O3						
GP-130C-585"/O3						
GP-130C-635"/O3						
GP-130C-685"/O3	139,709	42,041	50,396	136,771	89,499	215,153
GP-130C-435"/O4						
GP-130C-485"/O4						
GP-130C-535"/O4						
GP-130C-585"/O4						
GP-130C-635"/O4						
GP-130C-685"/O4						
GP-130C-735"/O4						
GP-130C-485"/O5						
GP-130C-535"/O5						
GP-130C-585"/O5						
GP-130C-635"/O5						
GP-130C-685"/O5						
GP-130C-735"/O5						
GP-130C-535"/O6						
GP-130C-585"/O6						
GP-130C-635"/O6						
GP-130C-685"/O6						
GP-130C-735"/O6						
GP-161C-485A/O2	237,679.40	70,958.50	84,663.10	287,773.30	190,722.10	470,213.10
GP-161C-485A/O3	275,498.50	85,523.30	104,374.70	265,312.90	174,908.90	426,767.10
GP-161C-535A/O2						
GP-161C-535A/O3						
GP-161C-535A/O4						
GP-161C-585A/O2						
GP-161C-585A/O3						
GP-161C-585A/O4						
GP-161C-585A/O5						
GP-161C-635A/O2						
GP-161C-635A/O3						
GP-161C-635A/O4						
GP-161C-635A/O5						
GP-161C-685A/O2						
GP-161C-685A/O3						
GP-161C-685A/O4						
GP-161C-685A/O5						
GP-161C-735A/O2						
GP-161C-735A/O3						
GP-161C-735A/O4						
GP-161C-735A/O5						
GP-161C-785A/O3						
GP-161C-785A/O4						
GP-161C-785A/O5						
GP-161C-835A/O4						
GP-161C-835A/O5						
GP-161C-885A/O4						
GP-161C-885A/O5						
GP-200C-535"/O1	467,621	138,523	164,527	404,524	260,770	607,940
GP-200C-585"/O1	468,001	138,674	164,730	521,371	343,073	833,962
GP-200C-635"/O1						
GP-200C-685"/O1						
GP-200C-735"/O1						
GP-200C-785"/O1						
GP-200C-835"/O1						



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	SPRING			174 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GP-200C-935"/O1						
GP-200C-937"/O1						
GP-200C-535"/O2	636,139	183,901	215,339	346,631	207,966	414,348
GP-200C-585"/O2	636,519	184,051	215,533	463,478	290,800	640,378
GP-200C-635"/O2						
GP-200C-685"/O2						
GP-200C-735"/O2						
GP-200C-785"/O2						
GP-200C-835"/O2						
GP-200C-935"/O2						
GP-200C-937"/O2						
GP-201C-835"/O3						
GP-201C-935"/O3						
GP-201C-937"/O3						
GP-201C-835"/O7						
GP-201C-935"/O7						
GP-201C-937"/O7						
GP-270C-935"/O0						
GP-270C-937"/O0						
GP-270C-940"/O0						
GP-270C-945"/O0						
GP-270C-962"/O0						
GP-270C-935"/O2						
GP-270C-937"/O2						
GP-270C-940"/O2						
GP-270C-945"/O2						
GP-270C-962"/O2						
GP-270C-937"/O3						
GP-270C-940"/O3						
GP-270C-945"/O3						
GP-270C-962"/O3						
GP-270C-935"/O4						
GP-270C-937"/O4						
GP-270C-940"/O4						
GP-270C-945"/O4						
GP-270C-962"/O4						
GP-271C-945"/O0						
GP-271C-962"/O0						
GP-271C-965"/O0						
GP-271C-975"/O0						
GP-271C-945"/O2						
GP-271C-962"/O2						
GP-271C-965"/O2						
GP-271C-975"/O2						
GP-271C-945"/O3						
GP-271C-962"/O3						
GP-271C-965"/O3						
GP-271C-975"/O3						
GP-271C-980"/O3						
GP-271C-945"/O4						
GP-271C-962"/O4						
GP-271C-965"/O4						
GP-271C-975"/O4						
GP-350C-960"/O1						
GP-350C-970"/O1						
GP-350C-975"/O1						
GP-350C-980"/O1						
GP-350C-982"/O1						
GP-350C-992"/O1						



GP RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
IMPERIAL

Model Number	SPRING			174 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC