

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	4,089	2,540	4,470	3,248	2,018	3,549
GH-065S-050*/D1	5,054	3,133	5,523	4,204	2,611	4,594
GH-065S-060*/D1	7,275	4,514	7,948	4,682	2,912	5,125
GH-065S-070*/D1	9,904	6,142	10,824	7,311	4,549	7,992
GH-065S-080*/D1	12,931	8,028	14,135	10,347	6,434	11,311
GH-065S-090*/D1	16,374	10,161	17,896	13,781	8,568	15,064
GH-065S-100*/D1	20,215	12,542	22,091	17,622	10,957	19,259
GH-065S-110*/D1	24,826	15,409	27,136	22,242	13,834	24,313
GH-065S-125*/D1	32,066	19,905	35,049	29,473	18,330	32,217
GH-085S-045*/D1	5,408	3,354	5,912	4,293	2,664	4,691
GH-085S-050*/D1	6,682	4,142	7,302	5,567	3,461	6,080
GH-085S-060*/D1	9,621	5,974	10,524	6,196	3,850	6,780
GH-085S-070*/D1	13,099	8,134	14,321	9,674	6,019	10,577
GH-085S-080*/D1	17,108	10,621	18,702	13,683	8,514	14,958
GH-085S-090*/D1	21,658	13,444	23,676	18,233	11,338	19,932
GH-085S-100*/D1	26,738	16,595	29,225	23,313	14,498	25,481
GH-085S-125*/D1	42,422	26,331	46,369	38,996	24,251	42,625
GH-085S-140*/D1	53,211	33,031	58,158	49,785	30,960	54,414
GH-085S-160*/D1	69,496	43,139	75,966	66,071	41,094	72,222
GH-085S-110*/D1	32,845	20,392	35,907	29,420	18,295	32,164
GH-100S-050*/D1	7,948	4,939	8,691	3,877	2,407	4,240
GH-100S-060*/D1	11,453	7,107	12,515	7,373	4,585	8,063
GH-100S-070*/D1	15,586	9,674	17,038	11,515	7,160	12,586
GH-100S-080*/D1	20,366	12,639	22,260	16,285	10,125	17,808
GH-100S-090*/D1	25,773	16,002	28,172	21,702	13,497	23,720
GH-100S-100*/D1	31,818	19,755	34,783	27,747	17,259	30,332
GH-100S-110*/D1	39,085	24,260	42,731	35,014	21,773	38,271
GH-100S-125*/D1	50,476	31,332	55,176	46,404	28,862	50,724
GH-100S-140*/D1	63,318	39,306	69,213	59,247	36,846	64,761
GH-100S-160*/D1	82,701	51,334	90,402	78,630	48,900	85,950
GH-100S-180*/D1	104,678	64,973	114,414	100,598	62,566	109,962
GH-100S-200*/D1						
GH-130S-050*/D1	10,453	6,488	11,426	5,098	3,169	5,576
GH-130S-060*/D1	15,055	9,346	16,462	9,700	6,027	10,603
GH-130S-070*/D1	20,498	12,727	22,410	15,144	9,417	16,551
GH-130S-080*/D1	26,774	16,622	29,269	21,419	13,320	23,410
GH-130S-090*/D1	33,890	21,038	37,040	28,526	17,746	31,190
GH-130S-100*/D1	41,837	25,968	45,732	36,483	22,684	39,873
GH-130S-110*/D1	51,396	31,898	56,176	46,033	28,632	50,317
GH-130S-125*/D1	66,372	41,200	72,541	61,008	37,943	66,690
GH-130S-140*/D1	83,250	51,680	91,003	77,895	48,449	85,144
GH-130S-160*/D1	108,740	67,496	118,857	103,386	64,301	113,006
GH-130S-180*/D1	137,629	85,427	150,436	132,266	82,268	144,577
GH-130S-200*/D1	172,448	107,041	188,494	167,084	103,926	182,635
GH-130S-210*/D1	190,123	118,016	207,816	184,768	114,918	201,956
GH-130S-220*/D1	208,665	129,522	228,084	203,302	126,451	222,225

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1	248,325	154,145	271,435	242,971	151,118	265,576
GH-161S-110F/D1	63,968	39,708	69,921	52,943	32,929	57,870
GH-161S-125F/D1	82,604	51,276	90,291	71,578	44,520	78,240
GH-161S-140F/D1	103,618	64,321	113,261	92,593	57,590	101,209
GH-161S-160F/D1	135,338	84,011	147,932	124,312	77,319	135,881
GH-161S-180F/D1	171,287	106,326	187,227	160,261	99,679	175,176
GH-161S-200F/D1	211,465	131,267	231,144	200,440	124,669	219,093
GH-161S-210F/D1	233,140	144,722	254,836	222,115	138,150	242,785
GH-161S-220F/D1	255,873	158,833	279,684	244,847	152,289	267,633
GH-161S-230F/D1	279,662	173,601	305,688	268,637	167,086	293,637
GH-161S-260F/D1	357,376	221,841	390,634	346,351	215,422	378,582
GH-200S-090*/D1	53,308	33,093	58,273	39,377	24,490	43,041
GH-200S-100*/D1	65,814	40,855	71,939	51,883	32,270	56,716
GH-200S-110*/D1	80,852	50,184	88,375	66,912	41,616	73,143
GH-200S-125*/D1	104,403	64,805	114,122	79,630	49,529	87,038
GH-200S-140*/D1	130,965	81,294	143,152	106,191	66,044	116,069
GH-200S-160*/D1	171,058	106,182	186,972	146,285	90,986	159,898
GH-200S-180*/D1	216,489	134,390	236,643	191,716	119,246	209,559
GH-200S-200*/D1	271,267	168,386	296,509	246,493	153,313	269,435
GH-200S-210*/D1	299,076	185,644	326,902	274,302	170,607	299,828
GH-200S-220*/D1	328,239	203,753	358,783	303,457	188,742	331,700
GH-200S-230*/D1	358,756	222,694	392,141	333,983	207,727	365,058
GH-200S-240*/D1	390,628	242,484	426,978	365,855	227,553	399,903
GH-200S-260*/D1	458,442	284,578	501,112	433,669	269,735	474,028
GH-200S-280*/D1	531,691	330,044	581,167	506,918	315,290	554,092
GH-200S-300*/D1	610,357	378,883	667,161	585,583	364,217	640,077
GH-200S-320*/D1	694,456	431,085	759,076	669,674	416,525	732,001
GH-200S-340*/D1	783,973	486,650	856,930	759,200	472,205	829,855
GH-201S-110*/D1	80,852	50,184	88,375	66,912	41,616	73,143
GH-201S-125*/D1	104,403	64,805	114,122	79,630	49,529	87,038
GH-201S-140*/D1	130,965	81,294	143,152	106,191	66,044	116,069
GH-201S-160*/D1	171,058	106,182	186,972	146,285	90,986	159,898
GH-201S-180*/D1	216,489	134,390	236,643	191,716	119,246	209,559
GH-201S-200*/D1	271,267	168,386	296,509	246,493	153,313	269,435
GH-201S-210*/D1	299,076	185,644	326,902	274,302	170,607	299,828
GH-201S-220*/D1	328,239	203,753	358,783	303,457	188,742	331,700
GH-201S-240*/D1	390,628	242,484	426,978	365,855	227,553	399,903
GH-201S-260*/D1	458,442	284,578	501,112	433,669	269,735	474,028
GH-201S-280*/D1	531,691	330,044	581,167	506,918	315,290	554,092
GH-201S-300*/D1	610,357	378,883	667,161	585,583	364,217	640,077
GH-201S-320*/D1	694,456	431,085	759,076	669,674	416,525	732,001
GH-201S-340*/D1	783,973	486,650	856,930	759,200	472,205	829,855
GH-201S-360*/D1	878,915	545,587	960,714	854,142	531,257	933,630
GH-201S-380*/D1	979,291	607,896	1,070,419	954,518	593,682	1,043,344
GH-270S-125*/D1	144,621	89,773	158,083	98,597	61,327	107,776
GH-270S-140*/D1	181,414	112,608	198,301	135,390	84,206	147,993

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	500 PSI					
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	236,952	147,082	258,999	190,928	118,751	208,701
GH-270S-180*/D1	299,890	186,158	327,796	253,866	157,897	277,498
GH-270S-200*/D1	370,236	229,827	404,692	324,212	201,655	354,384
GH-270S-220*/D1	447,990	278,091	489,677	401,966	250,016	439,378
GH-270S-240*/D1	533,143	330,947	582,760	480,313	298,739	525,009
GH-270S-250*/D1	578,503	359,101	632,333	525,664	326,947	574,591
GH-270S-280*/D1	725,673	450,459	793,204	672,834	418,490	735,453
GH-270S-300*/D1	833,041	517,105	910,565	780,211	485,269	852,814
GH-270S-320*/D1	947,818	588,354	1,036,016	894,979	556,659	978,273
GH-270S-340*/D1	1,069,994	664,196	1,169,574	1,017,164	632,652	1,111,822
GH-270S-360*/D1	1,199,578	744,640	1,311,212	1,146,747	713,247	1,253,470
GH-270S-380*/D1	1,336,569	829,678	1,460,949	1,283,739	798,453	1,403,207
GH-270S-400*/D1	1,480,961	919,310	1,618,784	1,428,130	888,261	1,561,033
GH-271S-140*/D1	181,414	112,608	198,301	135,390	84,206	147,993
GH-271S-160*/D1	236,952	147,082	258,999	190,928	118,751	208,701
GH-271S-180*/D1	299,890	186,158	327,796	253,866	157,897	277,498
GH-271S-200*/D1	370,236	229,827	404,692	324,212	201,655	354,384
GH-271S-220*/D1	447,990	278,091	489,677	401,966	250,016	439,378
GH-271S-240*/D1	533,143	330,947	582,760	480,313	298,739	525,009
GH-271S-250*/D1	578,503	359,101	632,333	525,664	326,947	574,591
GH-271S-280*/D1	725,673	450,459	793,204	672,834	418,490	735,453
GH-271S-300*/D1	833,041	517,105	910,565	780,211	485,269	852,814
GH-271S-320*/D1	947,818	588,354	1,036,016	894,979	556,659	978,273
GH-271S-340*/D1	1,069,994	664,196	1,169,574	1,017,164	632,652	1,111,822
GH-271S-360*/D1	1,199,578	744,640	1,311,212	1,146,747	713,247	1,253,470
GH-271S-380*/D1	1,336,569	829,678	1,460,949	1,283,739	798,453	1,403,207
GH-271S-400*/D1	1,480,961	919,310	1,618,784	1,428,130	888,261	1,561,033
GH-271S-420*/D1	1,632,760	1,013,535	1,784,709	1,579,930	982,681	1,726,958
GH-350S-160*/D1	310,502	192,743	339,391	231,730	144,126	253,300
GH-350S-180*/D1	392,973	243,936	429,545	314,210	195,425	343,445
GH-350S-200*/D1	485,154	301,156	530,302	406,391	252,760	444,210
GH-350S-220*/D1	587,035	364,403	641,671	508,272	316,131	555,570
GH-350S-250*/D1	758,058	470,568	828,607	679,286	422,499	742,507
GH-350S-280*/D1	950,907	590,274	1,039,406	872,144	542,445	953,305
GH-350S-300*/D1	1,091,607	677,613	1,193,196	968,529	602,400	1,058,665
GH-350S-320*/D1	1,242,008	770,971	1,357,590	1,118,930	695,943	1,223,059
GH-350S-350*/D1	1,485,802	922,310	1,624,068	1,362,723	847,583	1,489,537
GH-350S-380*/D1	1,751,422	1,087,200	1,914,408	1,628,352	1,012,791	1,779,886
GH-350S-400*/D1	1,940,633	1,204,649	2,121,233	1,817,563	1,130,480	1,986,701
GH-350S-440*/D1	2,348,166	1,457,630	2,566,691	2,225,096	1,383,956	2,432,168
GH-350S-460*/D1	2,566,487	1,593,153	2,805,334	2,443,418	1,519,745	2,670,802

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	6,231	3,868	6,806	4,965	3,080	5,426
GH-065S-050*/D1	7,691	4,771	8,408	6,426	3,992	7,019
GH-065S-060*/D1	11,081	6,877	12,108	7,196	4,470	7,868
GH-065S-070*/D1	15,082	9,355	16,480	11,196	6,966	12,241
GH-065S-080*/D1	19,702	12,223	21,534	15,816	9,833	17,286
GH-065S-090*/D1	24,933	15,471	27,251	21,047	13,090	23,003
GH-065S-100*/D1	30,783	19,109	33,642	26,897	16,728	29,402
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	8,240	5,116	9,010	6,567	4,080	7,178
GH-085S-050*/D1	10,178	6,319	11,125	8,497	5,284	9,293
GH-085S-060*/D1	14,657	9,099	16,020	9,515	5,921	10,408
GH-085S-070*/D1	19,950	12,382	21,808	14,816	9,214	16,188
GH-085S-080*/D1	26,057	16,179	28,482	20,923	13,011	22,870
GH-085S-090*/D1	32,987	20,472	36,049	27,844	17,321	30,438
GH-085S-100*/D1	40,722	25,278	44,510	35,580	22,127	38,899
GH-085S-125*/D1	64,265	39,890	70,240	59,123	36,775	64,628
GH-085S-140*/D1	80,613	50,042	88,118	75,470	46,944	82,498
GH-085S-160*/D1						
GH-085S-110*/D1	49,768	30,889	54,397	44,625	27,756	48,776
GH-100S-050*/D1	12,108	7,514	13,241	6,001	3,726	6,558
GH-100S-060*/D1	17,445	10,824	19,065	11,329	7,045	12,382
GH-100S-070*/D1	23,747	14,736	25,950	17,631	10,966	19,268
GH-100S-080*/D1	31,013	19,250	33,898	24,897	15,480	27,216
GH-100S-090*/D1	39,253	24,366	42,900	33,137	20,605	36,217
GH-100S-100*/D1	48,458	30,075	52,972	42,342	26,340	46,289
GH-100S-110*/D1	59,220	36,757	64,734	53,105	33,031	58,052
GH-100S-125*/D1	76,470	47,467	83,586	70,355	43,758	76,904
GH-100S-140*/D1	95,924	59,548	104,855	89,817	55,857	98,173
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	15,922	9,886	17,409	7,886	4,903	8,621
GH-130S-060*/D1	22,932	14,232	25,065	14,896	9,267	16,285
GH-130S-070*/D1	31,217	19,374	34,120	23,180	14,418	25,340
GH-130S-080*/D1	40,775	25,313	44,572	32,739	20,357	35,784
GH-130S-090*/D1	51,609	32,031	56,406	43,572	27,101	47,626
GH-130S-100*/D1	63,717	39,545	69,647	55,671	34,624	60,858
GH-130S-110*/D1	77,860	48,334	85,109	69,824	43,431	76,320
GH-130S-125*/D1	100,545	62,415	109,900	92,508	57,539	101,120
GH-130S-140*/D1	126,123	78,294	137,859	118,087	73,444	129,079
GH-130S-160*/D1	164,739	102,262	180,069	156,703	97,464	171,280
GH-130S-180*/D1	208,497	129,425	227,898	200,461	124,681	219,109
GH-130S-200*/D1	259,938	161,358	284,136	251,901	156,676	275,347
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	96,908	60,156	105,926	80,370	49,988	87,849
GH-161S-125F/D1	125,139	77,680	136,784	108,601	67,547	118,708
GH-161S-140F/D1	156,974	97,442	171,582	140,436	87,348	153,506
GH-161S-160F/D1	205,028	127,271	224,108	188,490	117,236	206,031
GH-161S-180F/D1	259,488	161,077	283,636	242,950	151,109	265,559
GH-161S-200F/D1	320,356	198,861	350,168	303,818	188,967	332,091
GH-161S-210F/D1	353,192	219,244	386,060	336,654	209,391	367,984
GH-161S-220F/D1	387,630	240,622	423,704	371,092	230,811	405,627
GH-161S-230F/D1	423,670	262,994	463,097	407,132	253,227	445,021
GH-161S-260F/D1						
GH-200S-090*/D1	81,179	50,396	88,738	60,282	37,492	65,885
GH-200S-100*/D1	100,226	62,212	109,555	79,320	49,334	86,702
GH-200S-110*/D1	122,486	76,028	133,876	101,580	63,177	111,033
GH-200S-125*/D1	158,163	98,181	172,882	121,007	75,258	132,266
GH-200S-140*/D1	198,398	123,158	216,870	161,243	100,288	176,245
GH-200S-160*/D1	259,141	160,862	283,259	221,977	138,063	242,634
GH-200S-180*/D1	327,973	203,585	358,500	290,818	180,874	317,875
GH-200S-200*/D1	408,896	253,822	446,954	371,740	231,208	406,338
GH-200S-210*/D1	450,813	279,843	492,766	413,649	257,282	452,149
GH-200S-220*/D1	494,766	307,130	540,816	457,610	284,622	500,191
GH-200S-230*/D1	540,772	335,682	591,097	503,608	313,228	550,481
GH-200S-240*/D1	588,814	365,509	643,618	551,658	343,117	602,993
GH-200S-260*/D1	691,040	428,960	755,350	653,885	406,701	714,733
GH-200S-280*/D1	801,444	497,501	876,030	764,289	475,365	835,413
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	122,486	76,028	133,876	101,580	63,177	111,033
GH-201S-125*/D1	158,163	98,181	172,882	121,007	75,258	132,266
GH-201S-140*/D1	198,398	123,158	216,870	161,243	100,288	176,245
GH-201S-160*/D1	259,141	160,862	283,259	221,977	138,063	242,634
GH-201S-180*/D1	327,973	203,585	358,500	290,818	180,874	317,875
GH-201S-200*/D1	408,896	253,822	446,954	371,740	231,208	406,338
GH-201S-210*/D1	450,813	279,843	492,766	413,649	257,282	452,149
GH-201S-220*/D1	494,766	307,130	540,816	457,610	284,622	500,191
GH-201S-240*/D1	588,814	365,509	643,618	551,658	343,117	602,993
GH-201S-260*/D1	691,040	428,960	755,350	653,885	406,701	714,733
GH-201S-280*/D1	801,444	497,501	876,030	764,289	475,365	835,413
GH-201S-300*/D1	920,027	571,103	1,005,649	882,871	549,118	965,033
GH-201S-320*/D1	1,046,787	649,796	1,144,207	1,009,632	627,961	1,103,591
GH-201S-340*/D1	1,181,726	733,559	1,291,705	1,144,570	711,892	1,251,080
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	217,994	135,319	238,289	148,967	92,650	162,827
GH-270S-140*/D1	273,462	169,749	298,908	204,426	127,150	223,446

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	750 PSI					
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	357,172	221,711	390,407	288,136	179,210	314,954
GH-270S-180*/D1	452,043	280,604	494,111	383,016	238,227	418,658
GH-270S-200*/D1	558,084	346,427	610,020	489,048	304,174	534,559
GH-270S-220*/D1	675,277	419,180	738,126	606,250	377,069	662,665
GH-270S-240*/D1	803,639	498,855	878,428	724,390	450,556	791,806
GH-270S-250*/D1	872,002	541,294	953,155	792,762	493,075	866,533
GH-270S-280*/D1	1,093,846	679,003	1,195,639	1,014,597	631,058	1,109,017
GH-270S-300*/D1	1,255,691	779,468	1,372,548	1,176,442	731,718	1,285,925
GH-270S-320*/D1	1,428,697	886,863	1,561,653	1,349,447	839,325	1,475,031
GH-270S-340*/D1	1,612,863	1,001,188	1,762,963	1,533,623	953,872	1,676,341
GH-270S-360*/D1	1,808,199	1,122,434	1,976,470	1,728,950	1,075,366	1,889,848
GH-270S-380*/D1	2,014,687	1,250,620	2,202,182	1,935,438	1,203,799	2,115,559
GH-270S-400*/D1						
GH-271S-140*/D1	273,462	169,749	298,908	204,426	127,150	223,446
GH-271S-160*/D1	357,172	221,711	390,407	288,136	179,210	314,954
GH-271S-180*/D1	452,043	280,604	494,111	383,016	238,227	418,658
GH-271S-200*/D1	558,084	346,427	610,020	489,048	304,174	534,559
GH-271S-220*/D1	675,277	419,180	738,126	606,250	377,069	662,665
GH-271S-240*/D1	803,639	498,855	878,428	724,390	450,556	791,806
GH-271S-250*/D1	872,002	541,294	953,155	792,762	493,075	866,533
GH-271S-280*/D1	1,093,846	679,003	1,195,639	1,014,597	631,058	1,109,017
GH-271S-300*/D1	1,255,691	779,468	1,372,548	1,176,442	731,718	1,285,925
GH-271S-320*/D1	1,428,697	886,863	1,561,653	1,349,447	839,325	1,475,031
GH-271S-340*/D1	1,612,863	1,001,188	1,762,963	1,533,623	953,872	1,676,341
GH-271S-360*/D1	1,808,199	1,122,434	1,976,470	1,728,950	1,075,366	1,889,848
GH-271S-380*/D1	2,014,687	1,250,620	2,202,182	1,935,438	1,203,799	2,115,559
GH-271S-400*/D1	2,232,345	1,385,727	2,440,090	2,153,095	1,339,172	2,353,468
GH-271S-420*/D1	2,461,155	1,527,763	2,690,194	2,381,914	1,481,492	2,603,572
GH-350S-160*/D1	468,037	290,535	511,591	349,879	217,613	382,441
GH-350S-180*/D1	592,354	367,704	647,485	474,205	294,942	518,335
GH-350S-200*/D1	731,302	453,955	799,364	613,153	381,361	670,214
GH-350S-220*/D1	884,880	549,286	967,228	766,732	476,887	838,078
GH-350S-250*/D1	1,142,667	709,308	1,249,009	1,024,519	637,219	1,119,859
GH-350S-280*/D1	1,433,361	889,757	1,566,751	1,315,213	818,031	1,437,610
GH-350S-300*/D1	1,645,443	1,021,412	1,798,570	1,460,825	908,600	1,596,773
GH-350S-320*/D1	1,872,146	1,162,139	2,046,373	1,687,537	1,049,602	1,844,576
GH-350S-350*/D1	2,239,629	1,390,249	2,448,055	2,055,020	1,278,172	2,246,258
GH-350S-380*/D1	2,640,019	1,638,796	2,885,707	2,455,410	1,527,206	2,683,910
GH-350S-400*/D1	2,925,235	1,815,838	3,197,457	2,740,617	1,704,601	2,995,669
GH-350S-440*/D1	3,539,530	2,197,163	3,868,928	3,354,921	2,086,679	3,667,131
GH-350S-460*/D1	3,868,619	2,401,447	4,228,641	3,684,010	2,291,362	4,026,852

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	8,373	5,195	9,152	6,682	4,151	7,302
GH-065S-050*/D1	10,338	6,417	11,294	8,647	5,372	9,444
GH-065S-060*/D1	14,887	9,240	16,268	9,700	6,036	10,612
GH-065S-070*/D1	20,259	12,577	22,145	15,082	9,382	16,480
GH-065S-080*/D1	26,464	16,427	28,924	21,286	13,232	23,269
GH-065S-090*/D1						
GH-065S-100*/D1						
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	11,072	6,868	12,108	8,833	5,496	9,656
GH-085S-050*/D1	13,674	8,488	14,949	11,435	7,107	12,497
GH-085S-060*/D1	19,693	12,223	21,525	12,842	7,983	14,037
GH-085S-070*/D1	26,800	16,639	29,296	19,950	12,409	21,808
GH-085S-080*/D1	35,005	21,729	38,262	28,154	17,516	30,774
GH-085S-090*/D1	44,307	27,499	48,431	37,456	23,295	40,944
GH-085S-100*/D1	54,698	33,951	59,796	47,847	29,756	52,308
GH-085S-125*/D1						
GH-085S-140*/D1						
GH-085S-160*/D1						
GH-085S-110*/D1	66,682	41,386	72,886	59,831	37,209	65,398
GH-100S-050*/D1	16,268	10,099	17,781	8,116	5,045	8,877
GH-100S-060*/D1	23,428	14,542	25,614	15,276	9,506	16,701
GH-100S-070*/D1	31,898	19,799	34,863	23,747	14,763	25,950
GH-100S-080*/D1	41,660	25,862	45,537	33,509	20,844	36,624
GH-100S-090*/D1	52,724	32,730	57,636	44,572	27,721	48,723
GH-100S-100*/D1	65,097	40,404	71,151	56,946	35,412	62,247
GH-100S-110*/D1	79,347	49,254	86,737	71,195	44,280	77,825
GH-100S-125*/D1	102,465	63,601	112,006	94,314	58,663	103,094
GH-100S-140*/D1						
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	21,392	13,276	23,384	10,674	6,638	11,665
GH-130S-060*/D1	30,809	19,126	33,677	20,091	12,497	21,959
GH-130S-070*/D1	41,935	26,030	45,838	31,217	19,419	34,120
GH-130S-080*/D1	54,777	33,996	59,875	44,059	27,402	48,157
GH-130S-090*/D1	69,328	43,032	75,780	58,610	36,447	64,062
GH-130S-100*/D1	85,587	53,122	93,552	74,868	46,564	81,834
GH-130S-110*/D1	104,333	64,761	114,042	93,614	58,220	102,324
GH-130S-125*/D1	134,726	83,631	147,259	124,008	77,125	135,549
GH-130S-140*/D1	168,996	104,908	184,724	158,278	98,447	173,014
GH-130S-160*/D1	220,738	137,018	241,271	210,019	130,619	229,562
GH-130S-180*/D1	279,365	173,413	305,369	268,647	167,093	293,650
GH-130S-200*/D1						
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	129,847	80,603	141,931	107,797	67,047	117,828
GH-161S-125F/D1	167,674	104,084	183,278	145,624	90,575	159,176
GH-161S-140F/D1	210,331	130,563	229,904	188,280	117,106	205,802
GH-161S-160F/D1	274,718	170,531	300,283	252,667	157,153	276,181
GH-161S-180F/D1	347,689	215,829	380,046	325,639	202,540	355,943
GH-161S-200F/D1	429,246	266,455	469,192	407,196	253,266	445,090
GH-161S-210F/D1	473,244	293,767	517,284	451,193	280,631	493,182
GH-161S-220F/D1	519,388	322,411	567,723	497,337	309,332	543,620
GH-161S-230F/D1						
GH-161S-260F/D1						
GH-200S-090*/D1	109,050	67,691	119,202	81,179	50,494	88,738
GH-200S-100*/D1	134,638	83,569	147,161	106,767	66,398	116,697
GH-200S-110*/D1	164,119	101,872	179,387	136,248	84,737	148,923
GH-200S-125*/D1	211,931	131,549	231,651	162,376	100,996	177,493
GH-200S-140*/D1	265,841	165,022	290,579	216,295	134,531	236,421
GH-200S-160*/D1	347,224	215,542	379,538	297,677	185,149	325,380
GH-200S-180*/D1	439,457	272,789	480,357	389,911	242,511	426,199
GH-200S-200*/D1	546,534	339,258	597,390	496,987	309,112	543,232
GH-200S-210*/D1	602,550	374,033	658,629	553,004	343,958	604,471
GH-200S-220*/D1	661,301	410,507	722,850	611,755	380,494	668,692
GH-200S-230*/D1	722,788	448,671	790,053	673,241	418,738	735,896
GH-200S-240*/D1	787,009	488,535	860,249	737,462	458,681	806,091
GH-200S-260*/D1						
GH-200S-280*/D1						
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	164,119	101,872	179,387	136,248	84,737	148,923
GH-201S-125*/D1	211,931	131,549	231,651	162,376	100,996	177,493
GH-201S-140*/D1	265,841	165,022	290,579	216,295	134,531	236,421
GH-201S-160*/D1	347,224	215,542	379,538	297,677	185,149	325,380
GH-201S-180*/D1	439,457	272,789	480,357	389,911	242,511	426,199
GH-201S-200*/D1	546,534	339,258	597,390	496,987	309,112	543,232
GH-201S-210*/D1	602,550	374,033	658,629	553,004	343,958	604,471
GH-201S-220*/D1	661,301	410,507	722,850	611,755	380,494	668,692
GH-201S-240*/D1	787,009	488,535	860,249	737,462	458,681	806,091
GH-201S-260*/D1	923,638	573,352	1,009,596	874,091	543,666	955,438
GH-201S-280*/D1	1,071,206	664,948	1,170,892	1,021,660	635,448	1,116,735
GH-201S-300*/D1						
GH-201S-320*/D1						
GH-201S-340*/D1						
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	291,376	180,874	318,494	199,328	123,981	217,879
GH-270S-140*/D1	365,501	226,880	399,514	273,462	170,085	298,908

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	477,392	296,341	521,823	385,344	239,678	421,207
GH-270S-180*/D1	604,196	375,059	660,425	512,157	318,547	559,819
GH-270S-200*/D1	745,924	463,036	815,349	653,885	406,701	714,733
GH-270S-220*/D1	902,573	560,270	986,567	810,525	504,130	885,960
GH-270S-240*/D1	1,074,136	666,771	1,174,096	968,476	602,364	1,058,603
GH-270S-250*/D1	1,165,511	723,496	1,273,977	1,059,851	659,204	1,158,484
GH-270S-280*/D1	1,462,020	907,547	1,598,083	1,356,360	843,618	1,482,580
GH-270S-300*/D1	1,678,341	1,041,831	1,834,530	1,572,681	978,167	1,719,037
GH-270S-320*/D1	1,909,585	1,185,372	2,087,290	1,803,916	1,121,992	1,971,797
GH-270S-340*/D1						
GH-270S-360*/D1						
GH-270S-380*/D1						
GH-270S-400*/D1						
GH-271S-140*/D1	365,501	226,880	399,514	273,462	170,085	298,908
GH-271S-160*/D1	477,392	296,341	521,823	385,344	239,678	421,207
GH-271S-180*/D1	604,196	375,059	660,425	512,157	318,547	559,819
GH-271S-200*/D1	745,924	463,036	815,349	653,885	406,701	714,733
GH-271S-220*/D1	902,573	560,270	986,567	810,525	504,130	885,960
GH-271S-240*/D1	1,074,136	666,771	1,174,096	968,476	602,364	1,058,603
GH-271S-250*/D1	1,165,511	723,496	1,273,977	1,059,851	659,204	1,158,484
GH-271S-280*/D1	1,462,020	907,547	1,598,083	1,356,360	843,618	1,482,580
GH-271S-300*/D1	1,678,341	1,041,831	1,834,530	1,572,681	978,167	1,719,037
GH-271S-320*/D1	1,909,585	1,185,372	2,087,290	1,803,916	1,121,992	1,971,797
GH-271S-340*/D1	2,155,742	1,338,171	2,356,353	2,050,073	1,275,092	2,240,859
GH-271S-360*/D1	2,416,812	1,500,238	2,641,728	2,311,152	1,437,477	2,526,234
GH-271S-380*/D1						
GH-271S-400*/D1						
GH-271S-420*/D1						
GH-350S-160*/D1	625,571	388,318	683,782	468,037	291,101	511,591
GH-350S-180*/D1	791,735	491,473	865,417	634,200	394,460	693,217
GH-350S-200*/D1	977,450	606,754	1,068,418	819,916	509,971	896,218
GH-350S-220*/D1	1,182,717	734,170	1,292,785	1,025,182	637,635	1,120,593
GH-350S-250*/D1	1,527,277	948,057	1,669,402	1,369,742	851,947	1,497,211
GH-350S-280*/D1	1,915,816	1,189,240	2,094,105	1,758,281	1,093,608	1,921,905
GH-350S-300*/D1	2,199,279	1,365,202	2,403,943	1,953,130	1,214,801	2,134,889
GH-350S-320*/D1	2,502,293	1,553,298	2,735,156	2,256,145	1,403,260	2,466,102
GH-350S-350*/D1	2,993,465	1,858,197	3,272,043	2,747,317	1,708,761	3,002,980
GH-350S-380*/D1	3,528,617	2,190,392	3,856,998	3,282,469	2,041,620	3,587,944
GH-350S-400*/D1	3,909,828	2,427,026	4,273,682	3,663,679	2,278,723	4,004,628
GH-350S-440*/D1	4,730,894	2,936,705	5,171,157	4,484,746	2,789,402	4,902,103
GH-350S-460*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	10,506	6,523	11,488	8,399	5,222	9,178
GH-065S-050*/D1	12,975	8,054	14,188	10,860	6,753	11,878
GH-065S-060*/D1	18,684	11,594	20,428	12,214	7,594	13,347
GH-065S-070*/D1	25,437	15,790	27,809	18,967	11,789	20,728
GH-065S-080*/D1						
GH-065S-090*/D1						
GH-065S-100*/D1						
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	13,905	8,629	15,197	11,108	6,904	12,143
GH-085S-050*/D1	17,170	10,656	18,764	14,374	8,939	15,710
GH-085S-060*/D1	24,720	15,347	27,021	16,161	10,046	17,666
GH-085S-070*/D1	33,651	20,888	36,784	25,092	15,604	27,428
GH-085S-080*/D1	43,953	27,287	48,042	35,394	22,012	38,687
GH-085S-090*/D1	55,636	34,536	60,814	47,068	29,278	51,449
GH-085S-100*/D1	68,682	42,634	75,072	60,123	37,394	65,717
GH-085S-125*/D1						
GH-085S-140*/D1						
GH-085S-160*/D1						
GH-085S-110*/D1						
GH-100S-050*/D1	20,428	12,683	22,330	10,240	6,364	11,196
GH-100S-060*/D1	29,420	18,259	32,155	19,233	11,957	21,021
GH-100S-070*/D1	40,050	24,853	43,776	29,854	18,569	32,633
GH-100S-080*/D1	52,308	32,465	57,176	42,121	26,198	46,033
GH-100S-090*/D1	66,204	41,094	72,364	56,016	34,837	61,229
GH-100S-100*/D1	81,728	50,732	89,339	71,541	44,493	78,196
GH-100S-110*/D1	99,482	61,752	108,740	89,286	55,538	97,597
GH-100S-125*/D1						
GH-100S-140*/D1						
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	26,862	16,675	29,358	13,462	8,373	14,719
GH-130S-060*/D1	38,687	24,012	42,280	25,287	15,728	27,641
GH-130S-070*/D1	52,653	32,686	57,556	39,253	24,410	42,908
GH-130S-080*/D1	68,770	42,687	75,169	55,379	34,438	60,530
GH-130S-090*/D1	87,038	54,034	95,146	73,647	45,803	80,498
GH-130S-100*/D1	107,457	66,708	117,458	94,066	58,503	102,819
GH-130S-110*/D1	130,796	81,188	142,966	117,396	73,019	128,327
GH-130S-125*/D1	168,899	104,846	184,618	155,508	96,721	169,979
GH-130S-140*/D1	211,869	131,513	231,589	198,469	123,441	216,941
GH-130S-160*/D1	276,728	171,775	302,483	263,336	163,783	287,835
GH-130S-180*/D1						
GH-130S-200*/D1						
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	162,786	101,050	177,935	135,223	84,106	147,807
GH-161S-125F/D1	210,210	130,488	229,772	182,647	113,602	199,644
GH-161S-140F/D1	263,687	163,684	288,226	236,124	146,863	258,098
GH-161S-160F/D1	344,407	213,791	376,458	316,845	197,070	346,330
GH-161S-180F/D1	435,891	270,580	476,455	408,328	253,970	446,327
GH-161S-200F/D1						
GH-161S-210F/D1						
GH-161S-220F/D1						
GH-161S-230F/D1						
GH-161S-260F/D1						
GH-200S-090*/D1	136,921	84,994	149,666	102,085	63,495	111,581
GH-200S-100*/D1	169,040	104,934	184,777	134,204	83,471	146,692
GH-200S-110*/D1	205,745	127,716	224,898	170,908	106,298	186,813
GH-200S-125*/D1	265,691	164,925	290,411	203,753	126,725	222,720
GH-200S-140*/D1	333,284	206,886	364,297	271,346	168,766	296,597
GH-200S-160*/D1	435,306	270,213	475,816	373,378	232,226	408,117
GH-200S-180*/D1	550,941	341,993	602,214	489,004	304,147	534,514
GH-200S-200*/D1	684,163	424,694	747,835	622,225	387,008	680,136
GH-200S-210*/D1	754,287	468,222	824,483	692,359	430,624	756,792
GH-200S-220*/D1						
GH-200S-230*/D1						
GH-200S-240*/D1						
GH-200S-260*/D1						
GH-200S-280*/D1						
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	205,745	127,716	224,898	170,908	106,298	186,813
GH-201S-125*/D1	265,691	164,925	290,411	203,753	126,725	222,720
GH-201S-140*/D1	333,284	206,886	364,297	271,346	168,766	296,597
GH-201S-160*/D1	435,306	270,213	475,816	373,378	232,226	408,117
GH-201S-180*/D1	550,941	341,993	602,214	489,004	304,147	534,514
GH-201S-200*/D1	684,163	424,694	747,835	622,225	387,008	680,136
GH-201S-210*/D1	754,287	468,222	824,483	692,359	430,624	756,792
GH-201S-220*/D1	827,837	513,883	904,883	765,909	476,374	837,184
GH-201S-240*/D1	985,195	611,560	1,076,880	923,266	574,246	1,009,180
GH-201S-260*/D1	1,156,235	717,734	1,263,843	1,094,307	680,632	1,196,143
GH-201S-280*/D1						
GH-201S-300*/D1						
GH-201S-320*/D1						
GH-201S-340*/D1						
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	364,748	226,420	398,700	249,697	155,304	272,931
GH-270S-140*/D1	457,548	284,021	500,129	342,489	213,020	374,360

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	597,611	370,970	653,230	482,561	300,138	527,469
GH-270S-180*/D1	756,359	469,506	826,740	641,299	398,868	700,979
GH-270S-200*/D1	933,772	579,636	1,020,668	818,721	509,219	894,908
GH-270S-220*/D1	1,129,869	701,360	1,235,016	1,014,809	631,182	1,109,247
GH-270S-240*/D1	1,344,632	834,679	1,469,764	1,212,553	754,181	1,325,400
GH-270S-250*/D1	1,459,020	905,688	1,594,799	1,326,940	825,324	1,450,434
GH-270S-280*/D1	1,830,193	1,136,091	2,000,517	1,698,123	1,056,187	1,856,153
GH-270S-300*/D1						
GH-270S-320*/D1						
GH-270S-340*/D1						
GH-270S-360*/D1						
GH-270S-380*/D1						
GH-270S-400*/D1						
GH-271S-140*/D1	457,548	284,021	500,129	342,489	213,020	374,360
GH-271S-160*/D1	597,611	370,970	653,230	482,561	300,138	527,469
GH-271S-180*/D1	756,359	469,506	826,740	641,299	398,868	700,979
GH-271S-200*/D1	933,772	579,636	1,020,668	818,721	509,219	894,908
GH-271S-220*/D1	1,129,869	701,360	1,235,016	1,014,809	631,182	1,109,247
GH-271S-240*/D1	1,344,632	834,679	1,469,764	1,212,553	754,181	1,325,400
GH-271S-250*/D1	1,459,020	905,688	1,594,799	1,326,940	825,324	1,450,434
GH-271S-280*/D1	1,830,193	1,136,091	2,000,517	1,698,123	1,056,187	1,856,153
GH-271S-300*/D1	2,100,991	1,304,193	2,296,513	1,968,911	1,224,616	2,152,148
GH-271S-320*/D1	2,390,464	1,483,881	2,612,927	2,258,384	1,404,658	2,468,554
GH-271S-340*/D1						
GH-271S-360*/D1						
GH-271S-380*/D1						
GH-271S-400*/D1						
GH-271S-420*/D1						
GH-350S-160*/D1	783,106	486,110	855,983	586,185	364,589	640,732
GH-350S-180*/D1	991,116	615,233	1,083,350	794,195	493,969	868,108
GH-350S-200*/D1	1,223,607	759,554	1,337,472	1,026,687	638,573	1,122,231
GH-350S-220*/D1	1,480,562	919,062	1,618,342	1,283,642	798,391	1,403,101
GH-350S-250*/D1	1,911,886	1,186,806	2,089,804	1,714,966	1,066,666	1,874,562
GH-350S-280*/D1	2,398,270	1,488,723	2,621,451	2,201,350	1,369,184	2,406,209
GH-350S-300*/D1	2,753,114	1,709,000	3,009,326	2,445,427	1,520,993	2,672,997
GH-350S-320*/D1	3,132,431	1,944,457	3,423,939	2,824,743	1,756,918	3,087,620
GH-350S-350*/D1	3,747,292	2,326,136	4,096,021	3,439,605	2,139,350	3,759,701
GH-350S-380*/D1	4,417,223	2,741,989	4,828,297	4,109,536	2,556,026	4,491,968
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	12,648	7,851	13,825	10,116	6,293	11,055
GH-065S-050*/D1	15,622	9,692	17,073	13,081	8,134	14,303
GH-065S-060*/D1	22,490	13,958	24,587	14,728	9,161	16,091
GH-065S-070*/D1	30,615	19,003	33,465	22,844	14,205	24,977
GH-065S-080*/D1						
GH-065S-090*/D1						
GH-065S-100*/D1						
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	16,737	10,391	18,295	13,382	8,320	14,630
GH-085S-050*/D1	20,667	12,825	22,587	17,303	10,763	18,914
GH-085S-060*/D1	29,756	18,472	32,527	19,481	12,117	21,295
GH-085S-070*/D1	40,501	25,136	44,271	30,225	18,799	33,040
GH-085S-080*/D1	52,901	32,836	57,822	42,625	26,508	46,590
GH-085S-090*/D1	66,956	41,563	73,187	56,680	35,253	61,955
GH-085S-100*/D1						
GH-085S-125*/D1						
GH-085S-140*/D1						
GH-085S-160*/D1						
GH-085S-110*/D1						
GH-100S-050*/D1	24,587	15,259	26,880	12,364	7,682	13,515
GH-100S-060*/D1	35,412	21,976	38,704	23,180	14,418	25,340
GH-100S-070*/D1	48,201	29,916	52,689	35,969	22,375	39,315
GH-100S-080*/D1	62,955	39,076	68,815	50,724	31,553	55,450
GH-100S-090*/D1	79,674	49,458	87,091	67,452	41,953	73,727
GH-100S-100*/D1	98,367	61,061	107,528	86,144	53,574	94,154
GH-100S-110*/D1						
GH-100S-125*/D1						
GH-100S-140*/D1						
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	32,332	20,065	35,341	16,250	10,108	17,763
GH-130S-060*/D1	46,555	28,898	50,892	30,482	18,958	33,314
GH-130S-070*/D1	63,371	39,333	69,266	47,298	29,411	51,697
GH-130S-080*/D1	82,772	51,379	90,472	66,699	41,483	72,904
GH-130S-090*/D1	104,757	65,026	114,511	88,685	55,158	96,933
GH-130S-100*/D1	129,336	80,285	141,373	113,254	70,443	123,795
GH-130S-110*/D1	157,260	97,624	171,899	141,187	87,808	154,322
GH-130S-125*/D1	203,080	126,061	221,977	186,999	116,308	204,408
GH-130S-140*/D1	254,742	158,127	278,453	238,669	148,445	260,876
GH-130S-160*/D1						
GH-130S-180*/D1						
GH-130S-200*/D1						
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	195,726	121,497	213,940	162,650	101,165	177,787
GH-161S-125F/D1	252,745	156,892	276,266	219,670	136,629	240,112
GH-161S-140F/D1	317,043	196,805	346,548	283,968	176,621	310,394
GH-161S-160F/D1	414,097	257,051	452,634	381,022	236,986	416,480
GH-161S-180F/D1	524,092	325,331	572,865	491,017	305,400	536,711
GH-161S-200F/D1						
GH-161S-210F/D1						
GH-161S-220F/D1						
GH-161S-230F/D1						
GH-161S-260F/D1						
GH-200S-090*/D1	164,792	102,297	180,130	122,990	76,497	134,434
GH-200S-100*/D1	203,452	126,291	222,384	161,641	100,536	176,688
GH-200S-110*/D1	247,378	153,561	270,408	205,576	127,858	224,712
GH-200S-125*/D1	319,450	198,301	349,180	245,130	152,463	267,948
GH-200S-140*/D1	400,718	248,750	438,015	326,398	203,010	356,774
GH-200S-160*/D1	523,389	324,893	572,104	449,069	279,312	490,863
GH-200S-180*/D1	662,417	411,197	724,062	588,097	365,784	642,830
GH-200S-200*/D1						
GH-200S-210*/D1						
GH-200S-220*/D1						
GH-200S-230*/D1						
GH-200S-240*/D1						
GH-200S-260*/D1						
GH-200S-280*/D1						
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	247,378	153,561	270,408	205,576	127,858	224,712
GH-201S-125*/D1	319,450	198,301	349,180	245,130	152,463	267,948
GH-201S-140*/D1	400,718	248,750	438,015	326,398	203,010	356,774
GH-201S-160*/D1	523,389	324,893	572,104	449,069	279,312	490,863
GH-201S-180*/D1	662,417	411,197	724,062	588,097	365,784	642,830
GH-201S-200*/D1	821,792	510,131	898,271	747,472	464,912	817,039
GH-201S-210*/D1	906,034	562,421	990,346	831,705	517,300	909,105
GH-201S-220*/D1	994,373	617,260	1,086,908	920,053	572,245	1,005,675
GH-201S-240*/D1	1,183,390	734,586	1,293,519	1,109,070	689,810	1,212,278
GH-201S-260*/D1						
GH-201S-280*/D1						
GH-201S-300*/D1						
GH-201S-320*/D1						
GH-201S-340*/D1						
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	438,130	271,966	478,905	300,067	186,627	327,991
GH-270S-140*/D1	549,587	341,161	600,736	411,524	255,955	449,822

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	717,831	445,591	784,637	579,768	360,597	633,723
GH-270S-180*/D1	908,512	563,952	993,054	770,440	479,197	842,140
GH-270S-200*/D1	1,121,620	696,244	1,225,997	983,548	611,746	1,075,083
GH-270S-220*/D1	1,357,156	842,459	1,483,457	1,219,093	758,244	1,332,542
GH-270S-240*/D1	1,615,129	1,002,595	1,765,433	1,456,639	905,989	1,592,197
GH-270S-250*/D1	1,752,528	1,087,881	1,915,621	1,594,038	991,452	1,742,376
GH-270S-280*/D1						
GH-270S-300*/D1						
GH-270S-320*/D1						
GH-270S-340*/D1						
GH-270S-360*/D1						
GH-270S-380*/D1						
GH-270S-400*/D1						
GH-271S-140*/D1	549,587	341,161	600,736	411,524	255,955	449,822
GH-271S-160*/D1	717,831	445,591	784,637	579,768	360,597	633,723
GH-271S-180*/D1	908,512	563,952	993,054	770,440	479,197	842,140
GH-271S-200*/D1	1,121,620	696,244	1,225,997	983,548	611,746	1,075,083
GH-271S-220*/D1	1,357,156	842,459	1,483,457	1,219,093	758,244	1,332,542
GH-271S-240*/D1	1,615,129	1,002,595	1,765,433	1,456,639	905,989	1,592,197
GH-271S-250*/D1	1,752,528	1,087,881	1,915,621	1,594,038	991,452	1,742,376
GH-271S-280*/D1	2,198,376	1,364,644	2,402,961	2,039,877	1,268,755	2,229,716
GH-271S-300*/D1	2,523,641	1,566,556	2,758,496	2,365,151	1,471,065	2,585,251
GH-271S-320*/D1						
GH-271S-340*/D1						
GH-271S-360*/D1						
GH-271S-380*/D1						
GH-271S-400*/D1						
GH-271S-420*/D1						
GH-350S-160*/D1	940,640	583,902	1,028,174	704,334	438,077	769,882
GH-350S-180*/D1	1,190,497	739,002	1,301,290	954,199	593,487	1,042,999
GH-350S-200*/D1	1,469,756	912,353	1,606,526	1,233,449	767,174	1,348,235
GH-350S-220*/D1	1,778,399	1,103,945	1,943,899	1,542,102	959,147	1,685,608
GH-350S-250*/D1	2,296,495	1,425,546	2,510,205	2,060,189	1,281,385	2,251,914
GH-350S-280*/D1	2,880,724	1,788,206	3,148,805	2,644,418	1,644,761	2,890,513
GH-350S-300*/D1	3,306,950	2,052,790	3,614,699	2,937,723	1,827,193	3,211,114
GH-350S-320*/D1	3,762,578	2,335,624	4,112,722	3,393,351	2,110,576	3,709,137
GH-350S-350*/D1	4,501,129	2,794,076	4,920,008	4,131,902	2,569,939	4,516,423
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	14,790	9,178	16,170	11,833	7,355	12,931
GH-065S-050*/D1	18,259	11,329	19,958	15,303	9,515	16,728
GH-065S-060*/D1	26,296	16,321	28,747	17,232	10,718	18,834
GH-065S-070*/D1						
GH-065S-080*/D1						
GH-065S-090*/D1						
GH-065S-100*/D1						
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	19,569	12,143	21,392	15,648	9,736	17,108
GH-085S-050*/D1	24,154	14,993	26,402	20,242	12,586	22,127
GH-085S-060*/D1	34,792	21,596	38,023	22,800	14,179	24,924
GH-085S-070*/D1	47,352	29,393	51,759	35,368	21,994	38,660
GH-085S-080*/D1	61,849	38,395	67,602	49,865	31,013	54,503
GH-085S-090*/D1	78,276	48,591	85,569	66,292	41,227	72,461
GH-085S-100*/D1						
GH-085S-125*/D1						
GH-085S-140*/D1						
GH-085S-160*/D1						
GH-085S-110*/D1						
GH-100S-050*/D1	28,747	17,843	31,420	14,480	9,010	15,834
GH-100S-060*/D1	41,395	25,694	45,254	27,136	16,878	29,659
GH-100S-070*/D1	56,353	34,978	61,592	42,085	26,172	45,997
GH-100S-080*/D1	73,603	45,688	80,453	59,335	36,908	64,858
GH-100S-090*/D1	93,154	57,822	101,819	78,887	49,069	86,233
GH-100S-100*/D1						
GH-100S-110*/D1						
GH-100S-125*/D1						
GH-100S-140*/D1						
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	37,802	23,463	41,315	19,038	11,842	20,817
GH-130S-060*/D1	54,432	33,783	59,495	35,677	22,189	38,996
GH-130S-070*/D1	74,090	45,988	80,984	55,335	34,412	60,486
GH-130S-080*/D1	96,774	60,070	105,775	78,011	48,520	85,277
GH-130S-090*/D1	122,477	76,028	133,876	103,722	64,513	113,378
GH-130S-100*/D1	151,206	93,862	165,279	132,451	82,383	144,781
GH-130S-110*/D1	183,733	114,051	200,832	164,969	102,607	180,325
GH-130S-125*/D1	237,253	147,276	259,336	218,498	135,903	238,837
GH-130S-140*/D1						
GH-130S-160*/D1						
GH-130S-180*/D1						
GH-130S-200*/D1						
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	228,665	141,944	249,945	190,077	118,223	207,766
GH-161S-125F/D1	295,280	183,296	322,760	256,692	159,656	280,580
GH-161S-140F/D1	370,400	229,926	404,870	331,812	206,379	362,690
GH-161S-160F/D1	483,787	300,312	528,809	445,199	276,903	486,630
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-161S-210F/D1						
GH-161S-220F/D1						
GH-161S-230F/D1						
GH-161S-260F/D1						
GH-200S-090*/D1	192,663	119,591	210,595	143,887	89,499	157,278
GH-200S-100*/D1	237,855	147,648	259,991	189,087	117,600	206,683
GH-200S-110*/D1	289,012	179,405	315,910	240,245	149,427	262,602
GH-200S-125*/D1	373,218	231,668	407,949	286,508	178,201	313,166
GH-200S-140*/D1	468,160	290,606	511,733	381,450	237,253	416,950
GH-200S-160*/D1	611,481	379,573	668,382	524,770	326,389	573,608
GH-200S-180*/D1	773,901	480,401	845,919	687,190	427,420	751,145
GH-200S-200*/D1						
GH-200S-210*/D1						
GH-200S-220*/D1						
GH-200S-230*/D1						
GH-200S-240*/D1						
GH-200S-260*/D1						
GH-200S-280*/D1						
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	289,012	179,405	315,910	240,245	149,427	262,602
GH-201S-125*/D1	373,218	231,668	407,949	286,508	178,201	313,166
GH-201S-140*/D1	468,160	290,606	511,733	381,450	237,253	416,950
GH-201S-160*/D1	611,481	379,573	668,382	524,770	326,389	573,608
GH-201S-180*/D1	773,901	480,401	845,919	687,190	427,420	751,145
GH-201S-200*/D1	959,430	595,567	1,048,717	872,719	542,808	953,934
GH-201S-210*/D1	1,057,771	656,611	1,156,209	971,060	603,975	1,061,426
GH-201S-220*/D1	1,160,909	720,637	1,268,941	1,074,198	668,125	1,174,167
GH-201S-240*/D1						
GH-201S-260*/D1						
GH-201S-280*/D1						
GH-201S-300*/D1						
GH-201S-320*/D1						
GH-201S-340*/D1						
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	511,503	317,512	559,111	350,428	217,959	383,043
GH-270S-140*/D1	641,635	398,293	701,342	480,560	298,890	525,274

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	1,750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	838,051	520,221	916,044	676,976	421,066	739,976
GH-270S-180*/D1	1,060,665	658,407	1,159,369	899,590	559,518	983,301
GH-270S-200*/D1	1,309,460	812,844	1,431,326	1,148,385	714,264	1,255,258
GH-270S-220*/D1	1,584,452	983,548	1,731,897	1,423,369	885,305	1,555,838
GH-270S-240*/D1	1,885,626	1,170,503	2,061,110	1,700,716	1,057,806	1,858,985
GH-270S-250*/D1						
GH-270S-280*/D1						
GH-270S-300*/D1						
GH-270S-320*/D1						
GH-270S-340*/D1						
GH-270S-360*/D1						
GH-270S-380*/D1						
GH-270S-400*/D1						
GH-271S-140*/D1	641,635	398,293	701,342	480,560	298,890	525,274
GH-271S-160*/D1	838,051	520,221	916,044	676,976	421,066	739,976
GH-271S-180*/D1	1,060,665	658,407	1,159,369	899,590	559,518	983,301
GH-271S-200*/D1	1,309,460	812,844	1,431,326	1,148,385	714,264	1,255,258
GH-271S-220*/D1	1,584,452	983,548	1,731,897	1,423,369	885,305	1,555,838
GH-271S-240*/D1	1,885,626	1,170,503	2,061,110	1,700,716	1,057,806	1,858,985
GH-271S-250*/D1	2,046,037	1,270,074	2,236,443	1,861,127	1,157,572	2,034,327
GH-271S-280*/D1	2,566,549	1,593,188	2,805,396	2,381,639	1,481,323	2,603,280
GH-271S-300*/D1						
GH-271S-320*/D1						
GH-271S-340*/D1						
GH-271S-360*/D1						
GH-271S-380*/D1						
GH-271S-400*/D1						
GH-271S-420*/D1						
GH-350S-160*/D1	1,098,175	681,694	1,200,374	822,491	511,564	899,033
GH-350S-180*/D1	1,389,878	862,771	1,519,222	1,114,194	692,996	1,217,881
GH-350S-200*/D1	1,715,904	1,065,144	1,875,589	1,440,212	895,776	1,574,247
GH-350S-220*/D1	2,076,244	1,288,829	2,269,465	1,800,552	1,119,903	1,968,115
GH-350S-250*/D1	2,681,096	1,664,295	2,930,607	2,405,413	1,496,104	2,629,266
GH-350S-280*/D1	3,363,170	2,087,688	3,676,150	3,087,487	1,920,338	3,374,809
GH-350S-300*/D1	3,860,786	2,396,588	4,220,073	3,430,029	2,133,394	3,749,231
GH-350S-320*/D1	4,392,716	2,726,783	4,801,505	3,961,959	2,464,244	4,330,663
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	16,931	10,506	18,507	13,550	8,426	14,807
GH-065S-050*/D1	20,905	12,975	22,844	17,524	10,895	19,153
GH-065S-060*/D1	30,101	18,684	32,898	19,746	12,276	21,578
GH-065S-070*/D1						
GH-065S-080*/D1						
GH-065S-090*/D1						
GH-065S-100*/D1						
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	22,401	13,905	24,481	17,923	11,143	19,596
GH-085S-050*/D1	27,650	17,162	30,225	23,180	14,418	25,340
GH-085S-060*/D1	39,820	24,720	43,528	26,119	16,241	28,553
GH-085S-070*/D1	54,202	33,642	59,247	40,501	25,189	44,271
GH-085S-080*/D1	70,797	43,944	77,391	57,096	35,509	62,407
GH-085S-090*/D1						
GH-085S-100*/D1						
GH-085S-125*/D1						
GH-085S-140*/D1						
GH-085S-160*/D1						
GH-085S-110*/D1						
GH-100S-050*/D1	32,907	20,428	35,969	16,604	10,329	18,153
GH-100S-060*/D1	47,387	29,411	51,795	31,084	19,330	33,978
GH-100S-070*/D1	64,504	40,041	70,505	48,201	29,977	52,689
GH-100S-080*/D1	84,250	52,299	92,092	67,947	42,262	74,267
GH-100S-090*/D1	106,634	66,186	116,556	90,322	56,176	98,730
GH-100S-100*/D1						
GH-100S-110*/D1						
GH-100S-125*/D1						
GH-100S-140*/D1						
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	43,271	26,853	47,290	21,835	13,577	23,862
GH-130S-060*/D1	62,309	38,678	68,107	40,873	25,419	44,679
GH-130S-070*/D1	84,808	52,644	92,703	63,371	39,412	69,266
GH-130S-080*/D1	110,767	68,761	121,078	89,331	55,565	97,650
GH-130S-090*/D1	140,196	87,021	153,242	118,759	73,860	129,814
GH-130S-100*/D1	173,085	107,439	189,185	151,649	94,322	165,757
GH-130S-110*/D1	210,196	130,478	229,757	188,760	117,405	206,329
GH-130S-125*/D1	271,435	168,492	296,695	249,998	155,490	273,267
GH-130S-140*/D1						
GH-130S-160*/D1						
GH-130S-180*/D1						
GH-130S-200*/D1						
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	261,605	162,391	285,950	217,504	135,282	237,745
GH-161S-125F/D1	337,816	209,700	369,253	293,715	182,684	321,049
GH-161S-140F/D1	423,756	263,047	463,191	379,655	236,137	414,987
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-161S-210F/D1						
GH-161S-220F/D1						
GH-161S-230F/D1						
GH-161S-260F/D1						
GH-200S-090*/D1	220,534	136,895	241,059	164,792	102,492	180,130
GH-200S-100*/D1	272,267	169,005	297,606	216,525	134,673	236,678
GH-200S-110*/D1	330,646	205,249	361,420	274,913	170,988	300,492
GH-200S-125*/D1	426,978	265,045	466,709	327,885	203,930	358,393
GH-200S-140*/D1	535,603	332,470	585,442	436,510	271,497	477,126
GH-200S-160*/D1	699,563	434,253	764,661	600,470	373,475	656,345
GH-200S-180*/D1						
GH-200S-200*/D1						
GH-200S-210*/D1						
GH-200S-220*/D1						
GH-200S-230*/D1						
GH-200S-240*/D1						
GH-200S-260*/D1						
GH-200S-280*/D1						
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	330,646	205,249	361,420	274,913	170,988	300,492
GH-201S-125*/D1	426,978	265,045	466,709	327,885	203,930	358,393
GH-201S-140*/D1	535,603	332,470	585,442	436,510	271,497	477,126
GH-201S-160*/D1	699,563	434,253	764,661	600,470	373,475	656,345
GH-201S-180*/D1	885,385	549,605	967,776	786,292	489,048	859,461
GH-201S-200*/D1	1,097,059	681,003	1,199,153	997,966	620,712	1,090,837
GH-201S-210*/D1	1,209,508	750,800	1,322,063	1,110,415	690,651	1,213,748
GH-201S-220*/D1						
GH-201S-240*/D1						
GH-201S-260*/D1						
GH-201S-280*/D1						
GH-201S-300*/D1						
GH-201S-320*/D1						
GH-201S-340*/D1						
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	584,884	363,067	639,316	400,797	249,281	438,094
GH-270S-140*/D1	733,674	455,433	801,958	549,587	341,834	600,736

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	958,271	594,850	1,047,451	774,184	481,525	846,238
GH-270S-180*/D1	1,212,818	752,854	1,325,683	1,028,732	639,847	1,124,461
GH-270S-200*/D1	1,497,308	929,453	1,636,645	1,313,221	816,791	1,435,432
GH-270S-220*/D1	1,811,740	1,124,638	1,980,346	1,627,653	1,012,358	1,779,125
GH-270S-240*/D1						
GH-270S-250*/D1						
GH-270S-280*/D1						
GH-270S-300*/D1						
GH-270S-320*/D1						
GH-270S-340*/D1						
GH-270S-360*/D1						
GH-270S-380*/D1						
GH-270S-400*/D1						
GH-271S-140*/D1	733,674	455,433	801,958	549,587	341,834	600,736
GH-271S-160*/D1	958,271	594,850	1,047,451	774,184	481,525	846,238
GH-271S-180*/D1	1,212,818	752,854	1,325,683	1,028,732	639,847	1,124,461
GH-271S-200*/D1	1,497,308	929,453	1,636,645	1,313,221	816,791	1,435,432
GH-271S-220*/D1	1,811,740	1,124,638	1,980,346	1,627,653	1,012,358	1,779,125
GH-271S-240*/D1	2,156,122	1,338,410	2,356,778	1,944,802	1,209,614	2,125,782
GH-271S-250*/D1	2,339,545	1,452,275	2,557,265	2,128,216	1,323,700	2,326,278
GH-271S-280*/D1						
GH-271S-300*/D1						
GH-271S-320*/D1						
GH-271S-340*/D1						
GH-271S-360*/D1						
GH-271S-380*/D1						
GH-271S-400*/D1						
GH-271S-420*/D1						
GH-350S-160*/D1	1,255,709	779,486	1,372,574	940,640	585,052	1,028,174
GH-350S-180*/D1	1,589,258	986,531	1,737,163	1,274,189	792,514	1,392,772
GH-350S-200*/D1	1,962,052	1,217,943	2,144,643	1,646,983	1,024,377	1,800,251
GH-350S-220*/D1	2,374,081	1,473,712	2,595,022	2,059,012	1,280,650	2,250,631
GH-350S-250*/D1	3,065,705	1,903,044	3,351,009	2,750,636	1,710,832	3,006,617
GH-350S-280*/D1	3,845,624	2,387,171	4,203,504	3,530,555	2,195,915	3,859,113
GH-350S-300*/D1	4,414,621	2,740,378	4,825,455	3,922,325	2,439,585	4,287,339
GH-350S-320*/D1						
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	19,073	11,833	20,844	15,268	9,497	16,684
GH-065S-050*/D1	23,543	14,613	25,738	19,737	12,276	21,578
GH-065S-060*/D1						
GH-065S-070*/D1						
GH-065S-080*/D1						
GH-065S-090*/D1						
GH-065S-100*/D1						
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	25,225	15,657	27,579	20,197	12,559	22,074
GH-085S-050*/D1	31,146	19,330	34,049	26,119	16,241	28,544
GH-085S-060*/D1	44,856	27,844	49,033	29,438	18,312	32,181
GH-085S-070*/D1	61,052	37,899	66,735	45,643	28,384	49,892
GH-085S-080*/D1	79,745	49,502	87,171	64,336	40,014	70,319
GH-085S-090*/D1						
GH-085S-100*/D1						
GH-085S-125*/D1						
GH-085S-140*/D1						
GH-085S-160*/D1						
GH-085S-110*/D1						
GH-100S-050*/D1	37,067	23,003	40,519	18,728	11,648	20,472
GH-100S-060*/D1	53,379	33,128	58,344	35,031	21,791	38,297
GH-100S-070*/D1	72,656	45,095	79,418	54,308	33,783	59,371
GH-100S-080*/D1	94,898	58,902	103,731	76,559	47,617	83,684
GH-100S-090*/D1						
GH-100S-100*/D1						
GH-100S-110*/D1						
GH-100S-125*/D1						
GH-100S-140*/D1						
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	48,732	30,252	53,273	24,623	15,312	26,915
GH-130S-060*/D1	70,178	43,563	76,709	46,068	28,650	50,352
GH-130S-070*/D1	95,526	59,300	104,412	71,408	44,413	78,055
GH-130S-080*/D1	124,769	77,453	136,381	100,651	62,601	110,024
GH-130S-090*/D1	157,915	98,022	172,607	133,797	83,215	146,250
GH-130S-100*/D1	194,955	121,016	213,100	170,837	106,253	186,742
GH-130S-110*/D1	236,660	146,905	258,690	212,551	132,195	232,332
GH-130S-125*/D1						
GH-130S-140*/D1						
GH-130S-160*/D1						
GH-130S-180*/D1						
GH-130S-200*/D1						
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	294,544	182,838	321,955	244,931	152,341	267,724
GH-161S-125F/D1	380,351	236,103	415,747	330,738	205,711	361,517
GH-161S-140F/D1	477,112	296,168	521,513	427,499	265,894	467,283
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-161S-210F/D1						
GH-161S-220F/D1						
GH-161S-230F/D1						
GH-161S-260F/D1						
GH-200S-090*/D1	248,405	154,198	271,523	185,698	115,493	202,974
GH-200S-100*/D1	306,670	190,362	335,213	243,962	151,737	266,673
GH-200S-110*/D1	372,280	231,093	406,931	309,573	192,548	338,382
GH-200S-125*/D1	480,737	298,421	525,478	369,253	229,668	403,621
GH-200S-140*/D1	603,037	374,334	659,160	491,562	305,740	537,302
GH-200S-160*/D1	787,646	488,933	860,948	676,162	420,552	739,091
GH-200S-180*/D1						
GH-200S-200*/D1						
GH-200S-210*/D1						
GH-200S-220*/D1						
GH-200S-230*/D1						
GH-200S-240*/D1						
GH-200S-260*/D1						
GH-200S-280*/D1						
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	372,280	231,093	406,931	309,573	192,548	338,382
GH-201S-125*/D1	480,737	298,421	525,478	369,253	229,668	403,621
GH-201S-140*/D1	603,037	374,334	659,160	491,562	305,740	537,302
GH-201S-160*/D1	787,646	488,933	860,948	676,162	420,552	739,091
GH-201S-180*/D1	996,869	618,800	1,089,634	885,385	550,685	967,776
GH-201S-200*/D1						
GH-201S-210*/D1						
GH-201S-220*/D1						
GH-201S-240*/D1						
GH-201S-260*/D1						
GH-201S-280*/D1						
GH-201S-300*/D1						
GH-201S-320*/D1						
GH-201S-340*/D1						
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	658,257	408,613	719,522	451,158	280,613	493,146
GH-270S-140*/D1	825,722	512,565	902,564	618,623	384,769	676,197

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	1,078,499	669,480	1,178,858	871,401	541,985	952,491
GH-270S-180*/D1	1,364,972	847,309	1,491,997	1,157,873	720,168	1,265,631
GH-270S-200*/D1	1,685,147	1,046,061	1,841,974	1,478,049	919,310	1,615,598
GH-270S-220*/D1						
GH-270S-240*/D1						
GH-270S-250*/D1						
GH-270S-280*/D1						
GH-270S-300*/D1						
GH-270S-320*/D1						
GH-270S-340*/D1						
GH-270S-360*/D1						
GH-270S-380*/D1						
GH-270S-400*/D1						
GH-271S-140*/D1	825,722	512,565	902,564	618,623	384,769	676,197
GH-271S-160*/D1	1,078,499	669,480	1,178,858	871,401	541,985	952,491
GH-271S-180*/D1	1,364,972	847,309	1,491,997	1,157,873	720,168	1,265,631
GH-271S-200*/D1	1,685,147	1,046,061	1,841,974	1,478,049	919,310	1,615,598
GH-271S-220*/D1	2,039,036	1,265,728	2,228,787	1,831,937	1,139,419	2,002,420
GH-271S-240*/D1	2,426,619	1,506,327	2,652,446	2,188,879	1,361,431	2,392,579
GH-271S-250*/D1						
GH-271S-280*/D1						
GH-271S-300*/D1						
GH-271S-320*/D1						
GH-271S-340*/D1						
GH-271S-360*/D1						
GH-271S-380*/D1						
GH-271S-400*/D1						
GH-271S-420*/D1						
GH-350S-160*/D1	1,413,244	877,269	1,544,766	1,058,789	658,540	1,157,324
GH-350S-180*/D1	1,788,639	1,110,300	1,955,095	1,434,184	892,032	1,567,654
GH-350S-200*/D1	2,208,200	1,370,742	2,413,697	1,853,745	1,152,987	2,026,255
GH-350S-220*/D1	2,671,926	1,658,595	2,920,579	2,317,472	1,441,407	2,533,138
GH-350S-250*/D1	3,450,314	2,141,784	3,771,411	3,095,860	1,925,551	3,383,969
GH-350S-280*/D1	4,328,079	2,686,654	4,730,859	3,973,624	2,471,492	4,343,417
GH-350S-300*/D1						
GH-350S-320*/D1						
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	21206.397	13161.0653	23180.1143	16984.5893	10558.9447	18560.0228
GH-065S-050*/D1	26189.3693	16249.977	28623.3255	21958.7107	13656.7073	24003.234
GH-065S-060*/D1						
GH-065S-070*/D1						
GH-065S-080*/D1						
GH-065S-090*/D1						
GH-065S-100*/D1						
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	28056.8775	17418.276	30667.8488	22472.0542	13975.3343	24560.8313
GH-085S-050*/D1	34641.8355	21507.3225	37863.5085	29048.1615	18064.3808	31756.491
GH-085S-060*/D1	49891.6777	30968.7743	54529.4708	32765.4765	20374.4265	35810.1345
GH-085S-070*/D1	67902.954	42147.2715	74222.3895	50776.7528	31579.476	55503.0533
GH-085S-080*/D1						
GH-085S-090*/D1						
GH-085S-100*/D1						
GH-085S-125*/D1						
GH-085S-140*/D1						
GH-085S-160*/D1						
GH-085S-110*/D1						
GH-100S-050*/D1	41226.8	25587.5	45059.2	20843.5	12966.3	22781.8
GH-100S-060*/D1	59370.8	36854.5	64893.7	38987.6	24251.1	42616.4
GH-100S-070*/D1	80807.3	50157.2	88330.5	60424.1	37580.3	66053.1
GH-100S-080*/D1	105545.2	65513.3	115369.5	85161.9	52971.7	93092.2
GH-100S-090*/D1						
GH-100S-100*/D1						
GH-100S-110*/D1						
GH-100S-125*/D1						
GH-100S-140*/D1						
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	54202.0	33641.7	59246.9	27410.8	17046.5	29959.8
GH-130S-060*/D1	78054.8	48449.0	85321.2	51263.5	31880.4	56034.1
GH-130S-070*/D1	106244.4	65946.9	116130.7	79444.3	49413.7	86843.6
GH-130S-080*/D1	138770.9	86135.5	151684.2	111970.8	69646.6	122397.0
GH-130S-090*/D1	175634.3	109023.5	191972.8	148834.2	92570.0	162685.6
GH-130S-100*/D1	216825.7	134593.4	237005.4	190034.5	118192.9	207718.3
GH-130S-110*/D1	263132.8	163340.6	287622.8	236332.7	146993.3	258326.8
GH-130S-125*/D1						
GH-130S-140*/D1						
GH-130S-160*/D1						
GH-130S-180*/D1						
GH-130S-200*/D1						
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	327,483	203,286	357,959	272,357	169,400	297,703
GH-161S-125F/D1	422,886	262,507	462,241	367,761	228,738	401,985
GH-161S-140F/D1						
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-161S-210F/D1						
GH-161S-220F/D1						
GH-161S-230F/D1						
GH-161S-260F/D1						
GH-200S-090*/D1	276276.2	171492.1	301987.6	206603.1	128495.2	225826.9
GH-200S-100*/D1	341081.4	211727.6	372820.1	271408.2	168810.4	296659.4
GH-200S-110*/D1	413914.2	256937.3	452441.5	344241.1	214108.5	376280.8
GH-200S-125*/D1	534505.6	331788.1	584246.9	410630.5	255406.1	448848.1
GH-200S-140*/D1	670479.7	416197.7	732877.5	546613.5	339975.0	597478.7
GH-200S-160*/D1						
GH-200S-180*/D1						
GH-200S-200*/D1						
GH-200S-210*/D1						
GH-200S-220*/D1						
GH-200S-230*/D1						
GH-200S-240*/D1						
GH-200S-260*/D1						
GH-200S-280*/D1						
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	413914.2	256937.3	452441.5	344241.1	214108.5	376280.8
GH-201S-125*/D1	534505.6	331788.1	584246.9	410630.5	255406.1	448848.1
GH-201S-140*/D1	670479.7	416197.7	732877.5	546613.5	339975.0	597478.7
GH-201S-160*/D1	875728.6	543613.1	957226.3	751862.4	467638.2	821827.5
GH-201S-180*/D1	1108344.0	688004.2	1211490.7	984477.8	612321.4	1076091.9
GH-201S-200*/D1						
GH-201S-210*/D1						
GH-201S-220*/D1						
GH-201S-240*/D1						
GH-201S-260*/D1						
GH-201S-280*/D1						
GH-201S-300*/D1						
GH-201S-320*/D1						
GH-201S-340*/D1						
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	731638.4	454158.5	799727.2	501527.7	311935.8	548197.8
GH-270S-140*/D1	917769.7	569705.1	1003170.6	687659.0	427703.6	751649.9

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	2,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	1198719.0	744100.3	1310273.9	968608.4	602444.0	1058744.4
GH-270S-180*/D1	1517124.8	941755.2	1658311.9	1287014.1	800488.4	1406791.3
GH-270S-200*/D1	1872995.7	1162661.1	2047302.4	1642885.1	1021836.8	1795772.9
GH-270S-220*/D1						
GH-270S-240*/D1						
GH-270S-250*/D1						
GH-270S-280*/D1						
GH-270S-300*/D1						
GH-270S-320*/D1						
GH-270S-340*/D1						
GH-270S-360*/D1						
GH-270S-380*/D1						
GH-270S-400*/D1						
GH-271S-140*/D1	917769.7	569705.1	1003170.6	687659.0	427703.6	751649.9
GH-271S-160*/D1	1198719.0	744100.3	1310273.9	968608.4	602444.0	1058744.4
GH-271S-180*/D1	1517124.8	941755.2	1658311.9	1287014.1	800488.4	1406791.3
GH-271S-200*/D1	1872995.7	1162661.1	2047302.4	1642885.1	1021836.8	1795772.9
GH-271S-220*/D1	2266323.0	1406826.7	2477236.4	2036212.4	1266480.4	2225707.0
GH-271S-240*/D1						
GH-271S-250*/D1						
GH-271S-280*/D1						
GH-271S-300*/D1						
GH-271S-320*/D1						
GH-271S-340*/D1						
GH-271S-360*/D1						
GH-271S-380*/D1						
GH-271S-400*/D1						
GH-271S-420*/D1						
GH-350S-160*/D1	1570786.9	975060.6	1716965.8	1176946.2	732027.8	1286474.2
GH-350S-180*/D1	1988020.1	1234068.9	2173027.3	1594188.2	991540.7	1742544.5
GH-350S-200*/D1	2454348.4	1523541.6	2682759.7	2060507.7	1281588.6	2252268.1
GH-350S-220*/D1	2969763.0	1843487.3	3246136.5	2575922.3	1602162.8	2815644.8
GH-350S-250*/D1	3834923.8	2380533.1	4191812.6	3441083.1	2140270.7	3761320.9
GH-350S-280*/D1	4810533.1	2986136.8	5258204.0	4416692.4	2747078.1	4827712.4
GH-350S-300*/D1						
GH-350S-320*/D1						
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	3,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045*/D1	25,490	15,825	27,862	20,419	12,701	22,322
GH-065S-050*/D1	31,473	19,534	34,403	26,402	16,418	28,853
GH-065S-060*/D1						
GH-065S-070*/D1						
GH-065S-080*/D1						
GH-065S-090*/D1						
GH-065S-100*/D1						
GH-065S-110*/D1						
GH-065S-125*/D1						
GH-085S-045*/D1	33,721	20,932	36,863	27,012	16,799	29,526
GH-085S-050*/D1	41,634	25,844	45,511	34,925	21,720	38,173
GH-085S-060*/D1	59,955	37,217	65,531	39,404	24,508	43,068
GH-085S-070*/D1						
GH-085S-080*/D1						
GH-085S-090*/D1						
GH-085S-100*/D1						
GH-085S-125*/D1						
GH-085S-140*/D1						
GH-085S-160*/D1						
GH-085S-110*/D1						
GH-100S-050*/D1	49,546	30,756	54,158	25,092	15,604	27,420
GH-100S-060*/D1	71,346	44,289	77,984	46,891	29,163	51,255
GH-100S-070*/D1	97,110	60,282	106,147	72,656	45,192	79,418
GH-100S-080*/D1						
GH-100S-090*/D1						
GH-100S-100*/D1						
GH-100S-110*/D1						
GH-100S-125*/D1						
GH-100S-140*/D1						
GH-100S-160*/D1						
GH-100S-180*/D1						
GH-100S-200*/D1						
GH-130S-050*/D1	65,142	40,430	71,204	32,987	20,516	36,058
GH-130S-060*/D1	93,800	58,229	102,536	61,654	38,341	67,390
GH-130S-070*/D1	127,681	79,258	139,559	95,526	59,415	104,412
GH-130S-080*/D1	166,766	103,518	182,290	134,611	83,728	147,144
GH-130S-090*/D1	211,064	131,018	230,713	178,909	111,280	195,557
GH-130S-100*/D1	260,575	161,747	284,826	228,420	142,072	249,680
GH-130S-110*/D1						
GH-130S-125*/D1						
GH-130S-140*/D1						
GH-130S-160*/D1						
GH-130S-180*/D1						
GH-130S-200*/D1						
GH-130S-210*/D1						
GH-130S-220*/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
IMPERIAL

Model Number	3,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240*/D1						
GH-161S-110F/D1	393,362	244,180	429,969	327,211	203,517	357,662
GH-161S-125F/D1	507,957	315,315	555,228	441,806	274,793	482,921
GH-161S-140F/D1						
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-161S-210F/D1						
GH-161S-220F/D1						
GH-161S-230F/D1						
GH-161S-260F/D1						
GH-200S-090*/D1	332,018	206,099	362,916	248,405	154,499	271,523
GH-200S-100*/D1	409,896	254,441	448,043	326,283	202,939	356,650
GH-200S-110*/D1	497,182	308,626	543,454	413,569	257,229	452,061
GH-200S-125*/D1	642,025	398,540	701,776	493,385	306,873	539,303
GH-200S-140*/D1	805,356	499,926	880,304	656,717	408,462	717,831
GH-200S-160*/D1						
GH-200S-180*/D1						
GH-200S-200*/D1						
GH-200S-210*/D1						
GH-200S-220*/D1						
GH-200S-230*/D1						
GH-200S-240*/D1						
GH-200S-260*/D1						
GH-200S-280*/D1						
GH-200S-300*/D1						
GH-200S-320*/D1						
GH-200S-340*/D1						
GH-201S-110*/D1	497,182	308,626	543,454	413,569	257,229	452,061
GH-201S-125*/D1	642,025	398,540	701,776	493,385	306,873	539,303
GH-201S-140*/D1	805,356	499,926	880,304	656,717	408,462	717,831
GH-201S-160*/D1	1,051,903	652,964	1,149,792	903,254	561,801	987,319
GH-201S-180*/D1						
GH-201S-200*/D1						
GH-201S-210*/D1						
GH-201S-220*/D1						
GH-201S-240*/D1						
GH-201S-260*/D1						
GH-201S-280*/D1						
GH-201S-300*/D1						
GH-201S-320*/D1						
GH-201S-340*/D1						
GH-201S-360*/D1						
GH-201S-380*/D1						
GH-270S-125*/D1	878,393	545,259	960,138	602,258	374,590	658,310
GH-270S-140*/D1	1,101,856	683,977	1,204,392	825,722	513,574	902,564

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

Model Number	3,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270S-160*/D1	1,439,159	893,359	1,573,088	1,163,024	723,372	1,271,260
GH-270S-180*/D1	1,821,431	1,130,657	1,990,941	1,545,306	961,138	1,689,113
GH-270S-200*/D1						
GH-270S-220*/D1						
GH-270S-240*/D1						
GH-270S-250*/D1						
GH-270S-280*/D1						
GH-270S-300*/D1						
GH-270S-320*/D1						
GH-270S-340*/D1						
GH-270S-360*/D1						
GH-270S-380*/D1						
GH-270S-400*/D1						
GH-271S-140*/D1	1,101,856	683,977	1,204,392	825,722	513,574	902,564
GH-271S-160*/D1	1,439,159	893,359	1,573,088	1,163,024	723,372	1,271,260
GH-271S-180*/D1	1,821,431	1,130,657	1,990,941	1,545,306	961,138	1,689,113
GH-271S-200*/D1	2,248,684	1,395,869	2,457,951	1,972,558	1,226,882	2,156,122
GH-271S-220*/D1						
GH-271S-240*/D1						
GH-271S-250*/D1						
GH-271S-280*/D1						
GH-271S-300*/D1						
GH-271S-320*/D1						
GH-271S-340*/D1						
GH-271S-360*/D1						
GH-271S-380*/D1						
GH-271S-400*/D1						
GH-271S-420*/D1						
GH-350S-160*/D1	1,885,856	1,170,644	2,061,357	1,413,244	879,003	1,544,766
GH-350S-180*/D1	2,386,782	1,481,598	2,608,900	1,914,178	1,190,567	2,092,317
GH-350S-200*/D1	2,946,654	1,829,131	3,220,868	2,474,041	1,538,791	2,704,285
GH-350S-220*/D1	3,565,445	2,213,254	3,897,251	3,092,841	1,923,666	3,380,668
GH-350S-250*/D1	4,604,142	2,858,022	5,032,607	4,131,539	2,569,718	4,516,024
GH-350S-280*/D1						
GH-350S-300*/D1						
GH-350S-320*/D1						
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1						
GH-065S-060*/C1						
GH-065S-050*/C2						
GH-065S-060*/C2						
GH-065S-070*/C2						
GH-065S-080*/C2						
GH-065S-090*/C2						
GH-065S-070*/C3						
GH-065S-050*/C4						
GH-065S-060*/C4						
GH-065S-070*/C4						
GH-085S-050*/C1						
GH-085S-060*/C1						
GH-085S-070*/C1						
GH-085S-050*/C2						
GH-085S-060*/C2						
GH-085S-070*/C2						
GH-085S-060*/C3						
GH-085S-070*/C3						
GH-085S-080*/C3						
GH-085S-090*/C3						
GH-085S-050*/C4						
GH-085S-060*/C4						
GH-085S-070*/C4						
GH-085S-080*/C4						
GH-085S-090*/C4						
GH-085S-050*/C5						
GH-085S-060*/C5						
GH-085S-070*/C5						
GH-085S-080*/C5						
GH-085S-090*/C5						
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6						
GH-085S-080*/C6						
GH-085S-090*/C6						
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7						
GH-085S-090*/C7						
GH-100S-070*/C1						
GH-100S-080*/C1						
GH-100S-090*/C1						
GH-100S-110*/C1						
GH-100S-080*/C2						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2						
GH-100S-110*/C2						
GH-130S-070*/C1						
GH-130S-080*/C1						
GH-130S-090*/C1						
GH-130S-100*/C1						
GH-130S-110*/C1						
GH-130S-125*/C1						
GH-130S-080*/C2						
GH-130S-090*/C2						
GH-130S-100*/C2						
GH-130S-110*/C2						
GH-130S-125*/C2						
GH-130S-070*/C3						
GH-130S-080*/C3						
GH-130S-090*/C3						
GH-130S-100*/C3						
GH-130S-110*/C3						
GH-130S-125*/C3						
GH-130S-080*/C4						
GH-130S-090*/C4						
GH-130S-100*/C4						
GH-130S-110*/C4						
GH-130S-125*/C4						
GH-130S-080*/C5						
GH-130S-090*/C5						
GH-130S-110*/C5						
GH-130S-125*/C5						
GH-130S-140*/C5						
GH-130S-090*/C6						
GH-130S-110*/C6						
GH-130S-125*/C6						
GH-130S-140*/C6						
GH-130S-100*/O5						
GH-130S-100*/O6						
GH-161S-110F/C2						
GH-161S-110F/C3						
GH-161S-110F/C4						
GH-161S-110F/C5						
GH-161S-125F/C2						
GH-161S-125F/C3						
GH-161S-125F/C4						
GH-161S-125F/C5						
GH-161S-140F/C2						
GH-161S-140F/C3						
GH-161S-140F/C4						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5						
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						
GH-161S-160F/C5						
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5						
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1						
GH-200S-125*/C1						
GH-200S-140*/C1						
GH-200S-160*/C1						
GH-200S-180*/C1						
GH-200S-125*/C2						
GH-200S-140*/C2						
GH-200S-160*/C2						
GH-200S-180*/C2						
GH-201S-200*/C3						
GH-201S-160*/C7						
GH-201S-200*/C7						
GH-270S-200*/C0						
GH-270S-220*/C0						
GH-270S-240*/C0						
GH-270S-200*/C2						
GH-270S-220*/C2						
GH-270S-240*/C2						
GH-270S-250*/C2						
GH-270S-280*/C2						
GH-270S-220*/C3						
GH-270S-250*/C3						
GH-270S-280*/C3						
GH-270S-200*/C4						
GH-270S-220*/C4						
GH-270S-240*/C4						
GH-271S-200*/C0						
GH-271S-220*/C0						
GH-271S-240*/C0						
GH-271S-250*/C0						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0						
GH-271S-300*/C0						
GH-271S-320*/C0						
GH-271S-340*/C0						
GH-271S-360*/C0						
GH-271S-380*/C0						
GH-271S-400*/C0	864,435	303,112	300,412	1,069,463	482,720	585,902
GH-271S-420*/C0	1,016,234	424,243	466,337	1,067,232	481,260	583,459
GH-271S-440*/C0	1,175,433	529,231	640,352	1,064,887	479,737	580,892
GH-271S-460*/C0	1,342,048	636,555	822,465	1,062,435	478,144	578,219
GH-271S-200*/C2						
GH-271S-220*/C2						
GH-271S-240*/C2						
GH-271S-250*/C2						
GH-271S-280*/C2						
GH-271S-300*/C2						
GH-271S-320*/C2						
GH-271S-340*/C2						
GH-271S-360*/C2						
GH-271S-380*/C2						
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2	1,117,770	264,372	255,079	1,383,788	578,857	637,927
GH-271S-460*/C2	1,284,377	441,608	437,192	1,381,337	577,211	635,254
GH-271S-200*/C3						
GH-271S-220*/C3						
GH-271S-240*/C3						
GH-271S-250*/C3						
GH-271S-280*/C3						
GH-271S-300*/C3						
GH-271S-320*/C3						
GH-271S-340*/C3						
GH-271S-360*/C3						
GH-271S-380*/C3						
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3	1,176,566	326,920	319,353	1,478,881	642,122	741,870
GH-271S-200*/C4						
GH-271S-220*/C4						
GH-271S-240*/C4						
GH-271S-250*/C4						
GH-271S-280*/C4						
GH-271S-300*/C4						
GH-271S-320*/C4						
GH-271S-340*/C4						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4						
GH-271S-380*/C4	785,601	219,251	214,241	1,012,269	445,396	523,380
GH-271S-400*/C4	929,993	364,970	372,068	1,010,145	443,998	521,061
GH-271S-420*/C4	1,081,792	467,913	538,002	1,007,915	442,538	518,619
GH-271S-440*/C4	1,240,999	571,688	712,016	1,005,569	440,997	516,061
GH-271S-460*/C4	1,407,606	678,437	894,129	1,003,117	439,387	513,379
GH-350S-220*/C1						
GH-350S-250*/C1						
GH-350S-280*/C1						
GH-350S-300*/C1						
GH-350S-320*/C1						
GH-350S-350*/C1						
GH-350S-380*/C1						
GH-350S-400*/C1						
GH-350S-420*/C1						
GH-350S-440*/C1						
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1	2,148,573	535,143	518,512	2,269,651	830,643	825,138

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1						
GH-065S-060*/C1	4,390	1,275	1,248	8,656	4,417	6,249
GH-065S-050*/C2						
GH-065S-060*/C2						
GH-065S-070*/C2						
GH-065S-080*/C2	9,187	3,717	3,947	13,966	7,019	9,745
GH-065S-090*/C2	14,418	7,116	9,665	13,807	6,921	9,577
GH-065S-070*/C3						
GH-065S-050*/C4						
GH-065S-060*/C4						
GH-065S-070*/C4						
GH-085S-050*/C1						
GH-085S-060*/C1						
GH-085S-070*/C1	11,099	4,974	5,992	12,488	6,072	8,098
GH-085S-050*/C2						
GH-085S-060*/C2						
GH-085S-070*/C2						
GH-085S-060*/C3						
GH-085S-070*/C3						
GH-085S-080*/C3						
GH-085S-090*/C3						
GH-085S-050*/C4						
GH-085S-060*/C4						
GH-085S-070*/C4						
GH-085S-080*/C4						
GH-085S-090*/C4	16,639	6,576	6,771	23,251	11,311	15,082
GH-085S-050*/C5						
GH-085S-060*/C5						
GH-085S-070*/C5						
GH-085S-080*/C5						
GH-085S-090*/C5						
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6						
GH-085S-080*/C6						
GH-085S-090*/C6						
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7						
GH-085S-090*/C7						
GH-100S-070*/C1						
GH-100S-080*/C1						
GH-100S-090*/C1						
GH-100S-110*/C1						
GH-100S-080*/C2						

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2						
GH-100S-110*/C2						
GH-130S-070*/C1						
GH-130S-080*/C1						
GH-130S-090*/C1						
GH-130S-100*/C1						
GH-130S-110*/C1						
GH-130S-125*/C1						
GH-130S-080*/C2						
GH-130S-090*/C2						
GH-130S-100*/C2						
GH-130S-110*/C2						
GH-130S-125*/C2						
GH-130S-070*/C3						
GH-130S-080*/C3						
GH-130S-090*/C3						
GH-130S-100*/C3						
GH-130S-110*/C3						
GH-130S-125*/C3	44,086	17,232	17,480	74,514	38,005	53,662
GH-130S-080*/C4						
GH-130S-090*/C4						
GH-130S-100*/C4						
GH-130S-110*/C4						
GH-130S-125*/C4						
GH-130S-080*/C5						
GH-130S-090*/C5						
GH-130S-110*/C5						
GH-130S-125*/C5						
GH-130S-140*/C5						
GH-130S-090*/C6						
GH-130S-110*/C6						
GH-130S-125*/C6						
GH-130S-140*/C6						
GH-130S-100*/O5						
GH-130S-100*/O6						
GH-161S-110F/C2						
GH-161S-110F/C3						
GH-161S-110F/C4						
GH-161S-110F/C5						
GH-161S-125F/C2						
GH-161S-125F/C3						
GH-161S-125F/C4						
GH-161S-125F/C5						
GH-161S-140F/C2						
GH-161S-140F/C3						
GH-161S-140F/C4						

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5						
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						
GH-161S-160F/C5						
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5						
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1						
GH-200S-125*/C1						
GH-200S-140*/C1						
GH-200S-160*/C1						
GH-200S-180*/C1						
GH-200S-125*/C2						
GH-200S-140*/C2						
GH-200S-160*/C2						
GH-200S-180*/C2						
GH-201S-200*/C3						
GH-201S-160*/C7						
GH-201S-200*/C7						
GH-270S-200*/C0						
GH-270S-220*/C0						
GH-270S-240*/C0						
GH-270S-200*/C2						
GH-270S-220*/C2						
GH-270S-240*/C2						
GH-270S-250*/C2						
GH-270S-280*/C2						
GH-270S-220*/C3						
GH-270S-250*/C3						
GH-270S-280*/C3						
GH-270S-200*/C4						
GH-270S-220*/C4						
GH-270S-240*/C4						
GH-271S-200*/C0						
GH-271S-220*/C0						
GH-271S-240*/C0						
GH-271S-250*/C0						

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0						
GH-271S-300*/C0						
GH-271S-320*/C0	812,171	247,511	243,281	1,077,313	487,800	594,469
GH-271S-340*/C0	996,338	410,808	444,591	1,075,508	486,641	592,505
GH-271S-360*/C0	1,191,665	539,772	658,098	1,073,605	485,402	590,425
GH-271S-380*/C0	1,398,162	672,427	883,800	1,071,587	484,101	588,221
GH-271S-400*/C0	1,615,811	810,578	1,121,718	1,069,463	482,720	585,902
GH-271S-420*/C0	1,844,629	954,801	1,371,822	1,067,232	481,260	583,459
GH-271S-440*/C0	2,084,608	1,105,503	1,634,132	1,064,887	479,737	580,892
GH-271S-460*/C0	2,335,748	1,262,834	1,908,647	1,062,435	478,144	578,219
GH-271S-200*/C2						
GH-271S-220*/C2						
GH-271S-240*/C2						
GH-271S-250*/C2						
GH-271S-280*/C2						
GH-271S-300*/C2						
GH-271S-320*/C2						
GH-271S-340*/C2						
GH-271S-360*/C2	1,133,993	281,640	272,824	1,392,506	584,716	647,459
GH-271S-380*/C2	1,340,490	501,298	498,527	1,390,488	583,362	645,255
GH-271S-400*/C2	1,558,139	659,018	736,444	1,388,364	581,937	642,936
GH-271S-420*/C2	1,786,958	809,304	986,549	1,386,134	580,432	640,493
GH-271S-440*/C2	2,026,937	963,705	1,248,859	1,383,788	578,857	637,927
GH-271S-460*/C2	2,278,077	1,123,603	1,523,373	1,381,337	577,211	635,254
GH-271S-200*/C3						
GH-271S-220*/C3						
GH-271S-240*/C3						
GH-271S-250*/C3						
GH-271S-280*/C3						
GH-271S-300*/C3						
GH-271S-320*/C3						
GH-271S-340*/C3						
GH-271S-360*/C3						
GH-271S-380*/C3	1,232,679	386,610	380,688	1,488,032	648,167	751,880
GH-271S-400*/C3	1,450,328	586,061	618,597	1,485,908	646,769	749,552
GH-271S-420*/C3	1,679,147	739,011	868,701	1,483,678	645,290	747,110
GH-271S-440*/C3	1,919,126	894,598	1,131,011	1,481,332	643,742	744,552
GH-271S-460*/C3	2,170,257	1,055,107	1,405,526	1,478,881	642,122	741,870
GH-271S-200*/C4						
GH-271S-220*/C4						
GH-271S-240*/C4						
GH-271S-250*/C4						
GH-271S-280*/C4						
GH-271S-300*/C4						
GH-271S-320*/C4	877,729	317,255	314,945	1,017,996	449,149	529,638
GH-271S-340*/C4	1,061,895	454,760	516,247	1,016,190	447,963	527,673

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4	1,257,231	582,123	729,762	1,014,287	446,715	525,584
GH-271S-380*/C4	1,463,719	714,149	955,465	1,012,269	445,396	523,380
GH-271S-400*/C4	1,681,377	851,947	1,193,373	1,010,145	443,998	521,061
GH-271S-420*/C4	1,910,187	996,019	1,443,487	1,007,915	442,538	518,619
GH-271S-440*/C4	2,150,166	1,146,588	1,705,796	1,005,569	440,997	516,061
GH-271S-460*/C4	2,401,306	1,303,813	1,980,302	1,003,117	439,387	513,379
GH-350S-220*/C1						
GH-350S-250*/C1						
GH-350S-280*/C1						
GH-350S-300*/C1						
GH-350S-320*/C1						
GH-350S-350*/C1						
GH-350S-380*/C1						
GH-350S-400*/C1						
GH-350S-420*/C1	2,341,404	740,259	729,275	2,282,785	844,618	839,494
GH-350S-440*/C1	2,655,862	1,047,017	1,073,003	2,279,714	841,352	836,139
GH-350S-460*/C1	2,984,951	1,271,092	1,432,724	2,276,501	837,927	832,625
GH-350S-480*/C1	3,328,670	1,496,883	1,808,421	2,273,147	834,360	828,961
GH-350S-500*/C1	3,687,010	1,728,251	2,200,111	2,269,651	830,643	825,138

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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1						
GH-065S-060*/C1	8,196	4,018	5,408	8,656	4,417	6,249
GH-065S-050*/C2						
GH-065S-060*/C2						
GH-065S-070*/C2	9,745	4,098	4,558	14,099	7,107	9,895
GH-065S-080*/C2	15,949	8,090	11,338	13,966	7,019	9,745
GH-065S-090*/C2	22,977	12,497	19,020	13,807	6,921	9,577
GH-065S-070*/C3						
GH-065S-050*/C4						
GH-065S-060*/C4						
GH-065S-070*/C4						
GH-085S-050*/C1						
GH-085S-060*/C1	10,842	4,806	5,709	12,648	6,178	8,267
GH-085S-070*/C1	17,949	9,329	13,480	12,488	6,072	8,098
GH-085S-050*/C2						
GH-085S-060*/C2						
GH-085S-070*/C2	12,896	3,629	3,549	20,711	9,957	13,099
GH-085S-060*/C3						
GH-085S-070*/C3						
GH-085S-080*/C3						
GH-085S-090*/C3	22,516	7,160	7,054	33,261	15,807	20,472
GH-085S-050*/C4						
GH-085S-060*/C4						
GH-085S-070*/C4						
GH-085S-080*/C4	18,666	7,957	8,984	23,454	11,444	15,312
GH-085S-090*/C4	27,960	13,940	19,144	23,251	11,311	15,082
GH-085S-050*/C5						
GH-085S-060*/C5						
GH-085S-070*/C5						
GH-085S-080*/C5						
GH-085S-090*/C5						
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6						
GH-085S-080*/C6						
GH-085S-090*/C6						
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7						
GH-085S-090*/C7						
GH-100S-070*/C1						
GH-100S-080*/C1						
GH-100S-090*/C1						
GH-100S-110*/C1	49,228	17,994	17,879	55,822	24,428	28,508
GH-100S-080*/C2						

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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2						
GH-100S-110*/C2						
GH-130S-070*/C1						
GH-130S-080*/C1						
GH-130S-090*/C1						
GH-130S-100*/C1						
GH-130S-110*/C1	45,378	11,409	11,063	83,702	41,492	56,618
GH-130S-125*/C1	75,771	35,191	44,280	83,250	41,209	56,131
GH-130S-080*/C2						
GH-130S-090*/C2						
GH-130S-100*/C2						
GH-130S-110*/C2						
GH-130S-125*/C2	67,283	20,649	20,304	103,094	49,361	64,522
GH-130S-070*/C3						
GH-130S-080*/C3						
GH-130S-090*/C3						
GH-130S-100*/C3						
GH-130S-110*/C3	47,874	19,843	21,614	74,966	38,288	54,149
GH-130S-125*/C3	78,267	39,421	54,839	74,514	38,005	53,662
GH-130S-080*/C4						
GH-130S-090*/C4						
GH-130S-100*/C4						
GH-130S-110*/C4	37,049	10,037	9,780	84,755	44,448	64,858
GH-130S-125*/C4	67,443	32,562	43,006	84,312	44,165	64,363
GH-130S-080*/C5						
GH-130S-090*/C5						
GH-130S-110*/C5						
GH-130S-125*/C5						
GH-130S-140*/C5	87,835	39,536	47,829	110,820	55,795	77,541
GH-130S-090*/C6						
GH-130S-110*/C6						
GH-130S-125*/C6						
GH-130S-140*/C6						
GH-130S-100*/O5						
GH-130S-100*/O6						
GH-161S-110F/C2						
GH-161S-110F/C3						
GH-161S-110F/C4						
GH-161S-110F/C5						
GH-161S-125F/C2						
GH-161S-125F/C3						
GH-161S-125F/C4						
GH-161S-125F/C5						
GH-161S-140F/C2	97,350	43,703	52,686	143,594	74,823	108,351
GH-161S-140F/C3	71,527	24,460	24,460	166,958	89,479	133,889
GH-161S-140F/C4						

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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5						
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						
GH-161S-160F/C5						
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5						
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1						
GH-200S-125*/C1						
GH-200S-140*/C1						
GH-200S-160*/C1	129,124	33,580	32,650	282,020	146,090	210,108
GH-200S-180*/C1	221,357	104,235	133,460	280,657	145,241	208,621
GH-200S-125*/C2						
GH-200S-140*/C2						
GH-200S-160*/C2						
GH-200S-180*/C2						
GH-201S-200*/C3						
GH-201S-160*/C7						
GH-201S-200*/C7						
GH-270S-200*/C0						
GH-270S-220*/C0						
GH-270S-240*/C0						
GH-270S-200*/C2						
GH-270S-220*/C2						
GH-270S-240*/C2						
GH-270S-250*/C2						
GH-270S-280*/C2						
GH-270S-220*/C3						
GH-270S-250*/C3						
GH-270S-280*/C3						
GH-270S-200*/C4						
GH-270S-220*/C4						
GH-270S-240*/C4						
GH-271S-200*/C0						
GH-271S-220*/C0						
GH-271S-240*/C0						
GH-271S-250*/C0						



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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0	845,494	282,958	279,701	1,080,579	489,916	598,045
GH-271S-300*/C0	1,061,816	454,707	516,158	1,078,995	488,898	596,319
GH-271S-320*/C0	1,293,050	605,170	768,918	1,077,313	487,800	594,469
GH-271S-340*/C0	1,539,207	762,050	1,037,981	1,075,508	486,641	592,505
GH-271S-360*/C0	1,800,287	926,930	1,323,355	1,073,605	485,402	590,425
GH-271S-380*/C0	2,076,280	1,100,281	1,625,033	1,071,587	484,101	588,221
GH-271S-400*/C0	2,367,195	1,282,483	1,943,014	1,069,463	482,720	585,902
GH-271S-420*/C0	2,673,024	1,473,650	2,277,307	1,067,232	481,260	583,459
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2						
GH-271S-220*/C2						
GH-271S-240*/C2						
GH-271S-250*/C2						
GH-271S-280*/C2						
GH-271S-300*/C2						
GH-271S-320*/C2	1,235,379	389,486	383,645	1,396,215	587,212	651,504
GH-271S-340*/C2	1,481,536	607,409	652,707	1,394,418	585,999	649,539
GH-271S-360*/C2	1,742,615	780,468	938,082	1,392,506	584,716	647,459
GH-271S-380*/C2	2,018,608	958,377	1,239,760	1,390,488	583,362	645,255
GH-271S-400*/C2	2,309,524	1,143,517	1,557,741	1,388,364	581,937	642,936
GH-271S-420*/C2	2,615,352	1,336,782	1,892,034	1,386,134	580,432	640,493
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3						
GH-271S-220*/C3						
GH-271S-240*/C3						
GH-271S-250*/C3						
GH-271S-280*/C3						
GH-271S-300*/C3						
GH-271S-320*/C3	1,127,568	274,798	265,797	1,493,759	651,920	758,129
GH-271S-340*/C3	1,373,725	532,284	534,860	1,491,962	650,743	756,164
GH-271S-360*/C3	1,634,804	709,874	820,234	1,490,050	649,495	754,084
GH-271S-380*/C3	1,910,797	889,235	1,121,912	1,488,032	648,167	751,880
GH-271S-400*/C3	2,201,713	1,075,118	1,439,902	1,485,908	646,769	749,552
GH-271S-420*/C3	2,507,541	1,268,764	1,774,195	1,483,678	645,290	747,110
GH-271S-440*/C3	2,828,293	1,470,773	2,124,791	1,481,332	643,742	744,552
GH-271S-460*/C3						
GH-271S-200*/C4						
GH-271S-220*/C4						
GH-271S-240*/C4						
GH-271S-250*/C4						
GH-271S-280*/C4	911,052	351,401	351,366	1,021,261	451,291	533,213
GH-271S-300*/C4	1,127,373	497,881	587,823	1,019,677	450,255	531,479
GH-271S-320*/C4	1,358,617	647,149	840,573	1,017,996	449,149	529,638
GH-271S-340*/C4	1,604,774	803,577	1,109,645	1,016,190	447,963	527,673

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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4	1,865,844	968,139	1,395,011	1,014,287	446,715	525,584
GH-271S-380*/C4	2,141,837	1,141,366	1,696,698	1,012,269	445,396	523,380
GH-271S-400*/C4	2,432,753	1,323,470	2,014,679	1,010,145	443,998	521,061
GH-271S-420*/C4	2,738,590	1,514,629	2,348,971	1,007,915	442,538	518,619
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1						
GH-350S-250*/C1						
GH-350S-280*/C1						
GH-350S-300*/C1						
GH-350S-320*/C1						
GH-350S-350*/C1	2,109,798	493,890	476,117	2,292,406	854,850	850,008
GH-350S-380*/C1	2,644,949	1,039,299	1,061,081	2,288,494	850,690	845,742
GH-350S-400*/C1	3,026,160	1,298,494	1,477,765	2,285,715	847,725	842,698
GH-350S-420*/C1	3,426,922	1,560,600	1,915,816	2,282,785	844,618	839,494
GH-350S-440*/C1	3,847,226	1,830,831	2,375,240	2,279,714	841,352	836,139
GH-350S-460*/C1	4,287,082	2,110,930	2,856,031	2,276,501	837,927	832,625
GH-350S-480*/C1	4,746,489	2,401,571	3,358,187	2,273,147	834,360	828,961
GH-350S-500*/C1	5,225,447	2,703,373	3,881,718	2,269,651	830,643	825,138

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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1	6,284	2,788	3,319	8,753	4,478	6,364
GH-065S-060*/C1	11,993	6,408	9,568	8,656	4,417	6,249
GH-065S-050*/C2						
GH-065S-060*/C2	8,178	2,868	2,841	14,223	7,187	10,028
GH-065S-070*/C2	14,922	7,435	10,214	14,099	7,107	9,895
GH-065S-080*/C2	22,711	12,329	18,728	13,966	7,019	9,745
GH-065S-090*/C2	31,544	17,843	28,376	13,807	6,921	9,577
GH-065S-070*/C3						
GH-065S-050*/C4						
GH-065S-060*/C4						
GH-065S-070*/C4	10,479	4,399	4,859	18,533	9,754	14,294
GH-085S-050*/C1	8,320	2,974	2,947	12,780	6,257	8,417
GH-085S-060*/C1	15,869	8,019	11,205	12,648	6,178	8,267
GH-085S-070*/C1	24,800	13,621	20,967	12,488	6,072	8,098
GH-085S-050*/C2						
GH-085S-060*/C2						
GH-085S-070*/C2	19,746	8,992	11,037	20,711	9,957	13,099
GH-085S-060*/C3						
GH-085S-070*/C3						
GH-085S-080*/C3	22,162	6,780	6,673	33,465	15,931	20,693
GH-085S-090*/C3	33,836	15,595	19,436	33,261	15,807	20,472
GH-085S-050*/C4						
GH-085S-060*/C4						
GH-085S-070*/C4	17,303	7,045	7,497	23,640	11,559	15,507
GH-085S-080*/C4	27,605	13,719	18,764	23,454	11,444	15,312
GH-085S-090*/C4	39,288	21,056	31,526	23,251	11,311	15,082
GH-085S-050*/C5						
GH-085S-060*/C5						
GH-085S-070*/C5						
GH-085S-080*/C5						
GH-085S-090*/C5	30,686	13,542	15,984	36,111	17,622	23,587
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6						
GH-085S-080*/C6						
GH-085S-090*/C6	25,800	6,443	6,240	44,174	21,410	28,420
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7						
GH-085S-090*/C7						
GH-100S-070*/C1						
GH-100S-080*/C1						
GH-100S-090*/C1						
GH-100S-110*/C1	69,363	31,978	39,881	55,822	24,428	28,508
GH-100S-080*/C2						

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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2						
GH-100S-110*/C2	58,344	24,773	27,836	65,796	30,889	39,404
GH-130S-070*/C1						
GH-130S-080*/C1						
GH-130S-090*/C1						
GH-130S-100*/C1	48,511	14,736	14,480	83,330	41,262	56,220
GH-130S-110*/C1	71,842	32,650	39,988	83,702	41,492	56,618
GH-130S-125*/C1	109,944	56,866	81,639	83,250	41,209	56,131
GH-130S-080*/C2						
GH-130S-090*/C2						
GH-130S-100*/C2						
GH-130S-110*/C2	63,354	16,471	16,011	103,545	49,644	65,018
GH-130S-125*/C2	101,456	46,537	57,663	103,094	49,361	64,522
GH-130S-070*/C3						
GH-130S-080*/C3						
GH-130S-090*/C3						
GH-130S-100*/C3	51,007	21,932	25,039	74,594	38,058	53,751
GH-130S-110*/C3	74,337	36,943	50,547	74,966	38,288	54,149
GH-130S-125*/C3	112,449	60,884	92,198	74,514	38,005	53,662
GH-130S-080*/C4						
GH-130S-090*/C4						
GH-130S-100*/C4	40,182	13,365	13,205	84,392	44,218	64,451
GH-130S-110*/C4	63,513	30,048	38,713	84,755	44,448	64,858
GH-130S-125*/C4	101,624	54,105	80,365	84,312	44,165	64,363
GH-130S-080*/C5						
GH-130S-090*/C5						
GH-130S-110*/C5						
GH-130S-125*/C5	87,737	39,474	47,723	111,325	56,105	78,099
GH-130S-140*/C5	130,708	66,850	94,694	110,820	55,795	77,541
GH-130S-090*/C6						
GH-130S-110*/C6						
GH-130S-125*/C6						
GH-130S-140*/C6	113,679	46,050	48,768	148,834	71,682	94,384
GH-130S-100*/O5						
GH-130S-100*/O6						
GH-161S-110F/C2						
GH-161S-110F/C3						
GH-161S-110F/C4						
GH-161S-110F/C5						
GH-161S-125F/C2	97,229	43,625	52,554	144,222	75,217	109,037
GH-161S-125F/C3	71,406	24,328	24,328	167,586	89,872	134,575
GH-161S-125F/C4						
GH-161S-125F/C5						
GH-161S-140F/C2	150,706	77,668	111,008	143,594	74,823	108,351
GH-161S-140F/C3	124,883	61,355	82,782	166,958	89,479	133,889
GH-161S-140F/C4	85,245	24,511	24,511	215,191	115,491	173,089

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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5						
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						
GH-161S-160F/C5						
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5						
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1						
GH-200S-125*/C1						
GH-200S-140*/C1						
GH-200S-160*/C1	217,206	101,571	128,929	282,020	146,090	210,108
GH-200S-180*/C1	332,832	174,758	255,318	280,657	145,241	208,621
GH-200S-125*/C2						
GH-200S-140*/C2						
GH-200S-160*/C2						
GH-200S-180*/C2	266,284	114,954	131,858	382,857	194,867	274,435
GH-201S-200*/C3						
GH-201S-160*/C7						
GH-201S-200*/C7	318,450	100,660	99,164	532,930	263,159	357,305
GH-270S-200*/C0						
GH-270S-220*/C0						
GH-270S-240*/C0	728,107	158,092	151,392	1,083,411	491,748	601,143
GH-270S-200*/C2						
GH-270S-220*/C2						
GH-270S-240*/C2						
GH-270S-250*/C2						
GH-270S-280*/C2	1,155,996	305,041	296,872	1,399,481	589,407	655,079
GH-270S-220*/C3						
GH-270S-250*/C3						
GH-270S-280*/C3						
GH-270S-200*/C4						
GH-270S-220*/C4						
GH-270S-240*/C4	793,664	227,827	223,057	1,024,094	453,150	536,302
GH-271S-200*/C0						
GH-271S-220*/C0						
GH-271S-240*/C0	728,107	158,092	151,392	1,083,411	491,748	601,143
GH-271S-250*/C0	842,494	279,772	276,427	1,082,748	491,314	600,417



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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0	1,213,668	554,004	682,145	1,080,579	489,916	598,045
GH-271S-300*/C0	1,484,465	727,346	978,141	1,078,995	488,898	596,319
GH-271S-320*/C0	1,773,938	910,344	1,294,546	1,077,313	487,800	594,469
GH-271S-340*/C0	2,082,077	1,103,919	1,631,370	1,075,508	486,641	592,505
GH-271S-360*/C0	2,408,900	1,308,557	1,988,604	1,073,605	485,402	590,425
GH-271S-380*/C0	2,754,398	1,524,489	2,366,257	1,071,587	484,101	588,221
GH-271S-400*/C0						
GH-271S-420*/C0						
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2						
GH-271S-220*/C2						
GH-271S-240*/C2						
GH-271S-250*/C2						
GH-271S-280*/C2	1,155,996	305,041	296,872	1,399,481	589,407	655,079
GH-271S-300*/C2	1,426,794	569,776	592,867	1,397,905	588,345	653,354
GH-271S-320*/C2	1,716,267	763,306	909,273	1,396,215	587,212	651,504
GH-271S-340*/C2	2,024,405	962,094	1,246,097	1,394,418	585,999	649,539
GH-271S-360*/C2	2,351,228	1,169,945	1,603,331	1,392,506	584,716	647,459
GH-271S-380*/C2	2,696,726	1,388,072	1,980,984	1,390,488	583,362	645,255
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3						
GH-271S-220*/C3						
GH-271S-240*/C3						
GH-271S-250*/C3						
GH-271S-280*/C3						
GH-271S-300*/C3	1,318,983	478,418	475,020	1,495,449	653,026	759,978
GH-271S-320*/C3	1,608,447	692,456	791,434	1,493,759	651,920	758,129
GH-271S-340*/C3	1,916,595	892,970	1,128,249	1,491,962	650,743	756,164
GH-271S-360*/C3	2,243,417	1,101,644	1,485,492	1,490,050	649,495	754,084
GH-271S-380*/C3	2,588,915	1,320,098	1,863,136	1,488,032	648,167	751,880
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3						
GH-271S-200*/C4						
GH-271S-220*/C4						
GH-271S-240*/C4	793,664	227,827	223,057	1,024,094	453,150	536,302
GH-271S-250*/C4	908,052	349,233	348,091	1,023,430	452,707	535,577
GH-271S-280*/C4	1,279,225	596,275	753,810	1,021,261	451,291	533,213
GH-271S-300*/C4	1,550,023	768,900	1,049,805	1,019,677	450,255	531,479
GH-271S-320*/C4	1,839,496	951,580	1,366,211	1,017,996	449,149	529,638
GH-271S-340*/C4	2,147,643	1,145,004	1,703,035	1,016,190	447,963	527,673

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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4	2,474,466	1,349,536	2,060,269	1,014,287	446,715	525,584
GH-271S-380*/C4	2,819,964	1,565,388	2,437,921	1,012,269	445,396	523,380
GH-271S-400*/C4						
GH-271S-420*/C4						
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1						
GH-350S-250*/C1						
GH-350S-280*/C1						
GH-350S-300*/C1						
GH-350S-320*/C1	2,248,763	641,715	628,023	2,295,991	858,664	853,929
GH-350S-350*/C1	2,863,625	1,189,859	1,300,104	2,292,406	854,850	850,008
GH-350S-380*/C1	3,533,556	1,629,556	2,032,371	2,288,494	850,690	845,742
GH-350S-400*/C1	4,010,762	1,935,225	2,553,990	2,285,715	847,725	842,698
GH-350S-420*/C1	4,512,440	2,253,684	3,102,356	2,282,785	844,618	839,494
GH-350S-440*/C1	5,038,590	2,585,853	3,677,469	2,279,714	841,352	836,139
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1						

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1	8,930	4,478	6,213	8,753	4,478	6,364
GH-065S-060*/C1	15,799	8,789	13,719	8,656	4,417	6,249
GH-065S-050*/C2						
GH-065S-060*/C2	11,984	5,558	7,001	14,223	7,187	10,028
GH-065S-070*/C2	20,100	10,701	15,878	14,099	7,107	9,895
GH-065S-080*/C2	29,482	16,551	26,119	13,966	7,019	9,745
GH-065S-090*/C2						
GH-065S-070*/C3						
GH-065S-050*/C4						
GH-065S-060*/C4	7,541	1,708	1,637	18,657	9,833	14,418
GH-065S-070*/C4	15,666	7,736	10,524	18,533	9,754	14,294
GH-085S-050*/C1	11,807	5,434	6,771	12,780	6,257	8,417
GH-085S-060*/C1	20,905	11,187	16,710	12,648	6,178	8,267
GH-085S-070*/C1	31,650	17,896	28,455	12,488	6,072	8,098
GH-085S-050*/C2						
GH-085S-060*/C2	15,852	6,408	6,771	20,870	10,063	13,267
GH-085S-070*/C2	26,597	13,356	18,525	20,711	9,957	13,099
GH-085S-060*/C3						
GH-085S-070*/C3						
GH-085S-080*/C3	31,110	13,825	16,454	33,465	15,931	20,693
GH-085S-090*/C3	45,165	22,800	31,810	33,261	15,807	20,472
GH-085S-050*/C4						
GH-085S-060*/C4	13,409	3,346	3,239	23,800	11,656	15,684
GH-085S-070*/C4	24,154	11,524	14,993	23,640	11,559	15,507
GH-085S-080*/C4	36,554	19,348	28,544	23,454	11,444	15,312
GH-085S-090*/C4	50,609	28,137	43,909	23,251	11,311	15,082
GH-085S-050*/C5						
GH-085S-060*/C5						
GH-085S-070*/C5						
GH-085S-080*/C5	27,960	11,736	13,002	36,323	17,755	23,817
GH-085S-090*/C5	42,006	20,808	28,358	36,111	17,622	23,587
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6						
GH-085S-080*/C6						
GH-085S-090*/C6	37,129	16,117	18,622	44,174	21,410	28,420
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7						
GH-085S-090*/C7						
GH-100S-070*/C1						
GH-100S-080*/C1						
GH-100S-090*/C1	49,954	18,764	18,657	56,211	24,676	28,924
GH-100S-110*/C1	89,490	44,811	61,884	55,822	24,428	28,508
GH-100S-080*/C2						

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2						
GH-100S-110*/C2	78,471	37,819	49,839	65,796	30,889	39,404
GH-130S-070*/C1						
GH-130S-080*/C1						
GH-130S-090*/C1	45,803	11,869	11,533	83,693	41,492	56,609
GH-130S-100*/C1	70,381	31,703	38,395	83,330	41,262	56,220
GH-130S-110*/C1	98,305	49,538	68,921	83,702	41,492	56,618
GH-130S-125*/C1	144,126	78,294	118,998	83,250	41,209	56,131
GH-130S-080*/C2						
GH-130S-090*/C2						
GH-130S-100*/C2	61,893	14,922	14,418	103,173	49,414	64,610
GH-130S-110*/C2	89,826	38,952	44,944	103,545	49,644	65,018
GH-130S-125*/C2	135,638	68,319	95,022	103,094	49,361	64,522
GH-130S-070*/C3						
GH-130S-080*/C3						
GH-130S-090*/C3	48,307	20,135	22,083	74,957	38,279	54,140
GH-130S-100*/C3	72,877	36,014	48,945	74,594	38,058	53,751
GH-130S-110*/C3	100,810	53,600	79,471	74,966	38,288	54,149
GH-130S-125*/C3	146,622	82,232	129,557	74,514	38,005	53,662
GH-130S-080*/C4						
GH-130S-090*/C4	37,483	10,488	10,258	84,746	44,448	64,849
GH-130S-100*/C4	62,053	29,119	37,120	84,392	44,218	64,451
GH-130S-110*/C4	89,986	46,803	67,646	84,755	44,448	64,858
GH-130S-125*/C4	135,797	75,479	117,724	84,312	44,165	64,363
GH-130S-080*/C5						
GH-130S-090*/C5						
GH-130S-110*/C5	76,099	31,801	35,005	111,776	56,388	78,586
GH-130S-125*/C5	121,910	61,300	85,082	111,325	56,105	78,099
GH-130S-140*/C5	173,581	93,756	141,559	110,820	55,795	77,541
GH-130S-090*/C6						
GH-130S-110*/C6						
GH-130S-125*/C6	104,890	39,359	39,156	149,339	72,001	94,933
GH-130S-140*/C6	156,552	74,143	95,624	148,834	71,682	94,384
GH-130S-100*/O5	111,404	56,158	78,188	48,166	5,160	4,478
GH-130S-100*/O6						
GH-161S-110F/C2						
GH-161S-110F/C3						
GH-161S-110F/C4						
GH-161S-110F/C5						
GH-161S-125F/C2	139,764	70,769	99,048	144,222	75,217	109,037
GH-161S-125F/C3	113,941	54,386	70,822	167,586	89,872	134,575
GH-161S-125F/C4						
GH-161S-125F/C5						
GH-161S-140F/C2	204,062	111,117	169,330	143,594	74,823	108,351
GH-161S-140F/C3	178,239	94,954	141,104	166,958	89,479	133,889
GH-161S-140F/C4	138,601	65,013	82,833	215,191	115,491	173,089

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5						
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						
GH-161S-160F/C5						
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5						
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1						
GH-200S-125*/C1						
GH-200S-140*/C1	182,618	79,108	91,127	283,215	146,843	211,418
GH-200S-160*/C1	305,289	157,437	225,207	282,020	146,090	210,108
GH-200S-180*/C1	444,317	244,537	377,175	280,657	145,241	208,621
GH-200S-125*/C2						
GH-200S-140*/C2						
GH-200S-160*/C2	238,740	96,438	101,748	384,211	195,725	275,922
GH-200S-180*/C2	377,768	186,689	253,716	382,857	194,867	274,435
GH-201S-200*/C3						
GH-201S-160*/C7						
GH-201S-200*/C7	456,088	205,762	249,609	532,930	263,159	357,305
GH-270S-200*/C0						
GH-270S-220*/C0	740,631	171,412	165,084	1,084,668	492,562	602,515
GH-270S-240*/C0	998,604	412,339	447,060	1,083,411	491,748	601,143
GH-270S-200*/C2						
GH-270S-220*/C2						
GH-270S-240*/C2						
GH-270S-250*/C2						
GH-270S-280*/C2	1,524,170	636,245	699,307	1,399,481	589,407	655,079
GH-270S-220*/C3						
GH-270S-250*/C3						
GH-270S-280*/C3	1,416,359	562,483	581,468	1,497,025	654,062	761,704
GH-270S-200*/C4						
GH-270S-220*/C4	806,188	241,148	236,749	1,025,351	453,973	537,674
GH-270S-240*/C4	1,064,161	456,256	518,725	1,024,094	453,150	536,302
GH-271S-200*/C0						
GH-271S-220*/C0	740,631	171,412	165,084	1,084,668	492,562	602,515
GH-271S-240*/C0	998,604	412,339	447,060	1,083,411	491,748	601,143
GH-271S-250*/C0	1,136,003	503,537	597,249	1,082,748	491,314	600,417

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0	1,581,841	789,053	1,084,580	1,080,579	489,916	598,045
GH-271S-300*/C0	1,907,115	994,090	1,440,123	1,078,995	488,898	596,319
GH-271S-320*/C0	2,254,817	1,212,172	1,820,183	1,077,313	487,800	594,469
GH-271S-340*/C0	2,624,955	1,443,602	2,224,760	1,075,508	486,641	592,505
GH-271S-360*/C0						
GH-271S-380*/C0						
GH-271S-400*/C0						
GH-271S-420*/C0						
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2						
GH-271S-220*/C2						
GH-271S-240*/C2						
GH-271S-250*/C2						
GH-271S-280*/C2	1,524,170	636,245	699,307	1,399,481	589,407	655,079
GH-271S-300*/C2	1,849,444	849,734	1,054,850	1,397,905	588,345	653,354
GH-271S-320*/C2	2,197,146	1,072,215	1,434,910	1,396,215	587,212	651,504
GH-271S-340*/C2	2,567,284	1,306,450	1,839,487	1,394,418	585,999	649,539
GH-271S-360*/C2						
GH-271S-380*/C2						
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3						
GH-271S-220*/C3						
GH-271S-240*/C3						
GH-271S-250*/C3						
GH-271S-280*/C3	1,416,359	562,483	581,468	1,497,025	654,062	761,704
GH-271S-300*/C3	1,741,633	779,822	937,002	1,495,449	653,026	759,978
GH-271S-320*/C3	2,089,335	1,003,604	1,317,062	1,493,759	651,920	758,129
GH-271S-340*/C3	2,459,464	1,238,432	1,721,648	1,491,962	650,743	756,164
GH-271S-360*/C3						
GH-271S-380*/C3						
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3						
GH-271S-200*/C4						
GH-271S-220*/C4	806,188	241,148	236,749	1,025,351	453,973	537,674
GH-271S-240*/C4	1,064,161	456,256	518,725	1,024,094	453,150	536,302
GH-271S-250*/C4	1,201,560	546,171	668,913	1,023,430	452,707	535,577
GH-271S-280*/C4	1,647,408	830,519	1,156,244	1,021,261	451,291	533,213
GH-271S-300*/C4	1,972,673	1,035,299	1,511,788	1,019,677	450,255	531,479
GH-271S-320*/C4	2,320,375	1,253,222	1,891,848	1,017,996	449,149	529,638
GH-271S-340*/C4	2,690,513	1,484,581	2,296,424	1,016,190	447,963	527,673

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4						
GH-271S-380*/C4						
GH-271S-400*/C4						
GH-271S-420*/C4						
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1						
GH-350S-250*/C1						
GH-350S-280*/C1						
GH-350S-300*/C1	2,423,282	827,359	818,783	2,298,203	861,019	856,354
GH-350S-320*/C1	2,878,910	1,200,126	1,316,806	2,295,991	858,664	853,929
GH-350S-350*/C1	3,617,461	1,683,519	2,124,091	2,292,406	854,850	850,008
GH-350S-380*/C1	4,422,153	2,196,491	3,003,670	2,288,494	850,690	845,742
GH-350S-400*/C1	4,995,354	2,558,584	3,630,215	2,285,715	847,725	842,698
GH-350S-420*/C1						
GH-350S-440*/C1						
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1						

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1	11,568	6,142	9,099	8,753	4,478	6,364
GH-065S-060*/C1	19,604	11,161	17,879	8,656	4,417	6,249
GH-065S-050*/C2	7,753	2,407	2,372	14,321	7,249	10,143
GH-065S-060*/C2	15,790	7,983	11,152	14,223	7,187	10,028
GH-065S-070*/C2	25,287	13,940	21,534	14,099	7,107	9,895
GH-065S-080*/C2						
GH-065S-090*/C2						
GH-065S-070*/C3	15,321	6,213	6,603	26,464	13,719	19,746
GH-065S-050*/C4						
GH-065S-060*/C4	11,347	4,965	5,797	18,657	9,833	14,418
GH-065S-070*/C4	20,844	11,001	16,179	18,533	9,754	14,294
GH-085S-050*/C1	15,303	7,665	10,594	12,780	6,257	8,417
GH-085S-060*/C1	25,942	14,329	22,215	12,648	6,178	8,267
GH-085S-070*/C1	38,501	22,162	35,943	12,488	6,072	8,098
GH-085S-050*/C2						
GH-085S-060*/C2	20,879	9,718	12,276	20,870	10,063	13,267
GH-085S-070*/C2	33,447	17,666	26,012	20,711	9,957	13,099
GH-085S-060*/C3						
GH-085S-070*/C3	25,561	10,099	10,382	33,651	16,055	20,897
GH-085S-080*/C3	40,058	19,569	26,234	33,465	15,931	20,693
GH-085S-090*/C3	56,485	29,924	44,192	33,261	15,807	20,472
GH-085S-050*/C4						
GH-085S-060*/C4	18,445	7,806	8,745	23,800	11,656	15,684
GH-085S-070*/C4	31,004	15,861	22,481	23,640	11,559	15,507
GH-085S-080*/C4	45,502	24,950	38,324	23,454	11,444	15,312
GH-085S-090*/C4	61,938	35,199	56,282	23,251	11,311	15,082
GH-085S-050*/C5						
GH-085S-060*/C5						
GH-085S-070*/C5	22,410	7,045	6,939	36,500	17,870	24,012
GH-085S-080*/C5	36,908	17,560	22,782	36,323	17,755	23,817
GH-085S-090*/C5	53,335	27,951	40,740	36,111	17,622	23,587
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6						
GH-085S-080*/C6	32,022	12,665	13,037	44,387	21,543	28,641
GH-085S-090*/C6	48,449	23,428	30,995	44,174	21,410	28,420
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7						
GH-085S-090*/C7	38,147	15,312	16,029	56,565	28,154	38,607
GH-100S-070*/C1						
GH-100S-080*/C1	43,794	12,214	11,931	56,379	24,791	29,110
GH-100S-090*/C1	63,424	28,128	33,394	56,211	24,676	28,924
GH-100S-110*/C1	109,625	57,494	83,887	55,822	24,428	28,508
GH-100S-080*/C2						

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2	52,405	20,737	21,348	66,177	31,137	39,828
GH-100S-110*/C2	98,606	50,564	71,842	65,796	30,889	39,404
GH-130S-070*/C1						
GH-130S-080*/C1						
GH-130S-090*/C1	63,522	27,207	30,898	83,693	41,492	56,609
GH-130S-100*/C1	92,251	45,705	62,300	83,330	41,262	56,220
GH-130S-110*/C1	124,778	66,177	97,854	83,702	41,492	56,618
GH-130S-125*/C1	178,298	99,642	156,357	83,250	41,209	56,131
GH-130S-080*/C2						
GH-130S-090*/C2						
GH-130S-100*/C2	83,763	34,925	38,324	103,173	49,414	64,610
GH-130S-110*/C2	116,290	56,052	73,877	103,545	49,644	65,018
GH-130S-125*/C2	169,819	89,826	132,381	103,094	49,361	64,522
GH-130S-070*/C3						
GH-130S-080*/C3	40,315	13,506	13,356	75,276	38,492	54,494
GH-130S-090*/C3	66,018	31,659	41,457	74,957	38,279	54,140
GH-130S-100*/C3	94,756	49,803	72,859	74,594	38,058	53,751
GH-130S-110*/C3	127,274	70,160	108,404	74,966	38,288	54,149
GH-130S-125*/C3	180,803	103,527	166,916	74,514	38,005	53,662
GH-130S-080*/C4						
GH-130S-090*/C4	55,193	24,685	29,623	84,746	44,448	64,849
GH-130S-100*/C4	83,932	42,997	61,026	84,392	44,218	64,451
GH-130S-110*/C4	116,449	63,389	96,571	84,755	44,448	64,858
GH-130S-125*/C4	169,979	96,792	155,083	84,312	44,165	64,363
GH-130S-080*/C5						
GH-130S-090*/C5						
GH-130S-110*/C5	102,562	49,015	63,938	111,776	56,388	78,586
GH-130S-125*/C5	156,092	82,799	122,441	111,325	56,105	78,099
GH-130S-140*/C5	216,454	120,538	188,415	110,820	55,795	77,541
GH-130S-090*/C6						
GH-130S-110*/C6	85,542	18,781	18,002	149,790	72,284	95,420
GH-130S-125*/C6	139,063	62,885	76,515	149,339	72,001	94,933
GH-130S-140*/C6	199,425	101,350	142,488	148,834	71,682	94,384
GH-130S-100*/O5	111,404	56,158	78,188	70,045	27,650	28,384
GH-130S-100*/O6						
GH-161S-110F/C2	115,684	55,501	72,727	144,778	75,567	109,645
GH-161S-110F/C3	89,861	38,796	44,501	168,142	90,221	135,183
GH-161S-110F/C4						
GH-161S-110F/C5						
GH-161S-125F/C2	182,299	97,498	145,542	144,222	75,217	109,037
GH-161S-125F/C3	156,476	81,295	117,315	167,586	89,872	134,575
GH-161S-125F/C4	116,838	50,896	59,044	215,818	115,885	173,775
GH-161S-125F/C5						
GH-161S-140F/C2	257,419	144,429	227,652	143,594	74,823	108,351
GH-161S-140F/C3	231,596	128,322	199,425	166,958	89,479	133,889
GH-161S-140F/C4	191,958	98,851	141,154	215,191	115,491	173,089

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5	152,863	62,242	66,321	277,133	145,245	211,752
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4	305,345	169,835	265,094	214,243	114,897	172,054
GH-161S-160F/C5	266,251	135,325	190,260	276,185	144,649	210,717
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5	394,757	215,921	330,725	275,112	143,974	209,543
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1						
GH-200S-125*/C1	155,109	60,406	61,052	284,012	147,347	212,285
GH-200S-140*/C1	250,060	122,547	164,836	283,215	146,843	211,418
GH-200S-160*/C1	393,372	212,692	321,495	282,020	146,090	210,108
GH-200S-180*/C1	555,801	314,095	499,032	280,657	145,241	208,621
GH-200S-125*/C2						
GH-200S-140*/C2	183,503	42,926	41,377	385,406	196,478	277,232
GH-200S-160*/C2	326,823	154,242	198,036	384,211	195,725	275,922
GH-200S-180*/C2	489,252	256,964	375,573	382,857	194,867	274,435
GH-201S-200*/C3	495,138	202,974	218,082	683,543	336,382	454,805
GH-201S-160*/C7						
GH-201S-200*/C7	593,717	293,836	400,045	532,930	263,159	357,305
GH-270S-200*/C0						
GH-270S-220*/C0	967,918	391,416	413,525	1,084,668	492,562	602,515
GH-270S-240*/C0	1,269,100	589,761	742,728	1,083,411	491,748	601,143
GH-270S-200*/C2						
GH-270S-220*/C2						
GH-270S-240*/C2	1,211,429	364,005	357,455	1,402,313	591,301	658,177
GH-270S-250*/C2	1,371,840	530,912	532,797	1,401,649	590,858	657,451
GH-270S-280*/C2	1,892,352	877,375	1,101,750	1,399,481	589,407	655,079
GH-270S-220*/C3						
GH-270S-250*/C3	1,264,020	419,959	414,950	1,499,193	655,487	764,068
GH-270S-280*/C3	1,784,532	807,737	983,902	1,497,025	654,062	761,704
GH-270S-200*/C4	758,492	190,415	184,609	1,026,492	454,716	538,922
GH-270S-220*/C4	1,033,484	435,829	485,189	1,025,351	453,973	537,674
GH-270S-240*/C4	1,334,658	631,828	814,393	1,024,094	453,150	536,302
GH-271S-200*/C0						
GH-271S-220*/C0	967,918	391,416	413,525	1,084,668	492,562	602,515
GH-271S-240*/C0	1,269,100	589,761	742,728	1,083,411	491,748	601,143
GH-271S-250*/C0	1,429,511	692,376	918,071	1,082,748	491,314	600,417

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0	1,950,024	1,021,058	1,487,023	1,080,579	489,916	598,045
GH-271S-300*/C0	2,329,765	1,259,090	1,902,106	1,078,995	488,898	596,319
GH-271S-320*/C0	2,735,696	1,512,823	2,345,820	1,077,313	487,800	594,469
GH-271S-340*/C0						
GH-271S-360*/C0						
GH-271S-380*/C0						
GH-271S-400*/C0						
GH-271S-420*/C0						
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2						
GH-271S-220*/C2						
GH-271S-240*/C2	1,211,429	364,005	357,455	1,402,313	591,301	658,177
GH-271S-250*/C2	1,371,840	530,912	532,797	1,401,649	590,858	657,451
GH-271S-280*/C2	1,892,352	877,375	1,101,750	1,399,481	589,407	655,079
GH-271S-300*/C2	2,272,094	1,119,815	1,516,833	1,397,905	588,345	653,354
GH-271S-320*/C2	2,678,025	1,376,309	1,960,547	1,396,215	587,212	651,504
GH-271S-340*/C2						
GH-271S-360*/C2						
GH-271S-380*/C2						
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3						
GH-271S-220*/C3						
GH-271S-240*/C3	1,103,618	249,317	239,616	1,499,857	655,920	764,802
GH-271S-250*/C3	1,264,020	419,959	414,950	1,499,193	655,487	764,068
GH-271S-280*/C3	1,784,532	807,737	983,902	1,497,025	654,062	761,704
GH-271S-300*/C3	2,164,283	1,051,301	1,398,985	1,495,449	653,026	759,978
GH-271S-320*/C3	2,570,214	1,308,300	1,842,700	1,493,759	651,920	758,129
GH-271S-340*/C3						
GH-271S-360*/C3						
GH-271S-380*/C3						
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3						
GH-271S-200*/C4	758,492	190,415	184,609	1,026,492	454,716	538,922
GH-271S-220*/C4	1,033,484	435,829	485,189	1,025,351	453,973	537,674
GH-271S-240*/C4	1,334,658	631,828	814,393	1,024,094	453,150	536,302
GH-271S-250*/C4	1,495,069	734,090	989,735	1,023,430	452,707	535,577
GH-271S-280*/C4	2,015,581	1,062,240	1,558,688	1,021,261	451,291	533,213
GH-271S-300*/C4	2,395,323	1,300,069	1,973,770	1,019,677	450,255	531,479
GH-271S-320*/C4	2,801,262	1,553,723	2,417,476	1,017,996	449,149	529,638
GH-271S-340*/C4						

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4						
GH-271S-380*/C4						
GH-271S-400*/C4						
GH-271S-420*/C4						
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1						
GH-350S-250*/C1						
GH-350S-280*/C1	2,479,502	887,173	880,234	2,300,275	863,222	858,611
GH-350S-300*/C1	2,977,118	1,265,870	1,424,156	2,298,203	861,019	856,354
GH-350S-320*/C1	3,509,048	1,613,740	2,005,589	2,295,991	858,664	853,929
GH-350S-350*/C1	4,371,288	2,164,274	2,948,070	2,292,406	854,850	850,008
GH-350S-380*/C1						
GH-350S-400*/C1						
GH-350S-420*/C1						
GH-350S-440*/C1						
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1						



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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1	14,214	7,798	11,984	8,753	4,478	6,364
GH-065S-060*/C1	23,410	13,533	22,038	8,656	4,417	6,249
GH-065S-050*/C2	10,391	4,532	5,257	14,321	7,249	10,143
GH-065S-060*/C2	19,587	10,373	15,312	14,223	7,187	10,028
GH-065S-070*/C2	30,464	17,170	27,198	14,099	7,107	9,895
GH-065S-080*/C2						
GH-065S-090*/C2						
GH-065S-070*/C3	20,498	9,621	12,258	26,464	13,719	19,746
GH-065S-050*/C4						
GH-065S-060*/C4	15,144	7,408	9,957	18,657	9,833	14,418
GH-065S-070*/C4	26,021	14,241	21,844	18,533	9,754	14,294
GH-085S-050*/C1	18,799	9,869	14,409	12,780	6,257	8,417
GH-085S-060*/C1	30,969	17,471	27,712	12,648	6,178	8,267
GH-085S-070*/C1	45,351	26,428	43,431	12,488	6,072	8,098
GH-085S-050*/C2	13,745	4,532	4,478	21,003	10,143	13,418
GH-085S-060*/C2	25,915	12,931	17,781	20,870	10,063	13,267
GH-085S-070*/C2	40,297	21,959	33,500	20,711	9,957	13,099
GH-085S-060*/C3						
GH-085S-070*/C3	32,411	14,666	17,870	33,651	16,055	20,897
GH-085S-080*/C3	49,007	25,225	36,014	33,465	15,931	20,693
GH-085S-090*/C3	67,814	37,014	56,565	33,261	15,807	20,472
GH-085S-050*/C4						
GH-085S-060*/C4	23,472	11,081	14,241	23,800	11,656	15,684
GH-085S-070*/C4	37,855	20,162	29,969	23,640	11,559	15,507
GH-085S-080*/C4	54,450	30,535	48,104	23,454	11,444	15,312
GH-085S-090*/C4	73,258	42,253	68,664	23,251	11,311	15,082
GH-085S-050*/C5						
GH-085S-060*/C5						
GH-085S-070*/C5	29,261	12,603	14,427	36,500	17,870	24,012
GH-085S-080*/C5	45,847	23,233	32,562	36,323	17,755	23,817
GH-085S-090*/C5	64,655	35,040	53,122	36,111	17,622	23,587
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6						
GH-085S-080*/C6	40,970	18,622	22,817	44,387	21,543	28,641
GH-085S-090*/C6	59,778	30,597	43,378	44,174	21,410	28,420
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7	30,668	8,072	7,851	56,778	28,287	38,828
GH-085S-090*/C7	49,476	22,800	28,411	56,565	28,154	38,607
GH-100S-070*/C1						
GH-100S-080*/C1	54,441	22,145	23,570	56,379	24,791	29,110
GH-100S-090*/C1	76,904	36,819	48,122	56,211	24,676	28,924
GH-100S-110*/C1						
GH-100S-080*/C2	43,422	11,816	11,524	66,345	31,243	40,005

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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2	65,885	29,730	36,076	66,177	31,137	39,828
GH-100S-110*/C2	118,733	63,203	93,845	65,796	30,889	39,404
GH-130S-070*/C1						
GH-130S-080*/C1	51,821	18,259	18,100	84,020	41,696	56,963
GH-130S-090*/C1	81,241	38,695	50,263	83,693	41,492	56,609
GH-130S-100*/C1	114,130	59,495	86,206	83,330	41,262	56,220
GH-130S-110*/C1	151,242	82,746	126,778	83,702	41,492	56,618
GH-130S-125*/C1	212,480	120,945	193,716	83,250	41,209	56,131
GH-130S-080*/C2						
GH-130S-090*/C2	72,753	26,473	26,287	103,536	49,644	65,009
GH-130S-100*/C2	105,643	49,237	62,238	103,173	49,414	64,610
GH-130S-110*/C2	142,754	72,815	102,801	103,545	49,644	65,018
GH-130S-125*/C2	203,992	111,219	169,740	103,094	49,361	64,522
GH-130S-070*/C3						
GH-130S-080*/C3	54,317	24,109	28,659	75,276	38,492	54,494
GH-130S-090*/C3	83,737	42,873	60,822	74,957	38,279	54,140
GH-130S-100*/C3	116,626	63,504	96,765	74,594	38,058	53,751
GH-130S-110*/C3	153,738	86,667	137,337	74,966	38,288	54,149
GH-130S-125*/C3	214,976	124,813	204,266	74,514	38,005	53,662
GH-130S-080*/C4	43,493	16,799	16,825	85,073	44,652	65,203
GH-130S-090*/C4	72,912	36,040	48,989	84,746	44,448	64,849
GH-130S-100*/C4	105,802	56,724	84,932	84,392	44,218	64,451
GH-130S-110*/C4	142,913	79,922	125,504	84,755	44,448	64,858
GH-130S-125*/C4	204,151	118,069	192,442	84,312	44,165	64,363
GH-130S-080*/C5						
GH-130S-090*/C5	59,035	16,710	16,347	111,767	56,388	78,577
GH-130S-110*/C5	129,035	65,796	92,862	111,776	56,388	78,586
GH-130S-125*/C5	190,273	104,191	159,800	111,325	56,105	78,099
GH-130S-140*/C5	259,327	147,276	235,279	110,820	55,795	77,541
GH-130S-090*/C6						
GH-130S-110*/C6	112,006	44,900	46,936	149,790	72,284	95,420
GH-130S-125*/C6	173,245	84,790	113,874	149,339	72,001	94,933
GH-130S-140*/C6	242,298	128,309	189,353	148,834	71,682	94,384
GH-130S-100*/O5	111,404	56,158	78,188	91,915	42,183	52,290
GH-130S-100*/O6	149,418	72,054	95,013	74,895	7,461	6,373
GH-161S-110F/C2	148,624	76,359	108,732	144,778	75,567	109,645
GH-161S-110F/C3	122,801	60,031	80,506	168,142	90,221	135,183
GH-161S-110F/C4						
GH-161S-110F/C5						
GH-161S-125F/C2	224,835	124,101	192,035	144,222	75,217	109,037
GH-161S-125F/C3	199,012	107,960	163,809	167,586	89,872	134,575
GH-161S-125F/C4	159,374	78,264	105,538	215,818	115,885	173,775
GH-161S-125F/C5	120,279	30,704	30,704	277,761	145,639	212,438
GH-161S-140F/C2	310,775	177,684	285,973	143,594	74,823	108,351
GH-161S-140F/C3	284,952	161,603	257,747	166,958	89,479	133,889
GH-161S-140F/C4	245,314	132,330	199,476	215,191	115,491	173,089

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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5	206,219	97,216	124,643	277,133	145,245	211,752
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4	375,035	213,293	341,269	214,243	114,897	172,054
GH-161S-160F/C5	335,940	179,119	266,436	276,185	144,649	210,717
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5	482,958	270,979	427,135	275,112	143,974	209,543
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1						
GH-200S-125*/C1	208,878	96,217	119,821	284,012	147,347	212,285
GH-200S-140*/C1	317,494	165,111	238,554	283,215	146,843	211,418
GH-200S-160*/C1	481,454	267,726	417,773	282,020	146,090	210,108
GH-200S-180*/C1	667,285	383,538	620,889	280,657	145,241	208,621
GH-200S-125*/C2						
GH-200S-140*/C2	250,945	104,740	115,095	385,406	196,478	277,232
GH-200S-160*/C2	414,905	210,179	294,314	384,211	195,725	275,922
GH-200S-180*/C2	600,727	326,787	497,430	382,857	194,867	274,435
GH-201S-200*/C3	632,767	293,420	368,519	683,543	336,382	454,805
GH-201S-160*/C7	333,850	117,042	115,998	531,806	262,451	356,083
GH-201S-200*/C7	731,346	380,653	550,490	532,930	263,159	357,305
GH-270S-200*/C0	880,774	320,495	318,273	1,085,810	493,297	603,763
GH-270S-220*/C0	1,195,214	542,064	661,974	1,084,668	492,562	602,515
GH-270S-240*/C0	1,539,597	762,289	1,038,405	1,083,411	491,748	601,143
GH-270S-200*/C2						
GH-270S-220*/C2	1,137,543	285,410	276,701	1,403,570	592,142	659,549
GH-270S-240*/C2	1,481,925	607,675	653,132	1,402,313	591,301	658,177
GH-270S-250*/C2	1,665,348	729,957	853,619	1,401,649	590,858	657,451
GH-270S-280*/C2						
GH-270S-220*/C3						
GH-270S-250*/C3	1,557,528	658,611	735,772	1,499,193	655,487	764,068
GH-270S-280*/C3	2,152,715	1,043,937	1,386,346	1,497,025	654,062	761,704
GH-270S-200*/C4	946,340	376,458	389,937	1,026,492	454,716	538,922
GH-270S-220*/C4	1,260,772	584,406	733,630	1,025,351	453,973	537,674
GH-270S-240*/C4	1,605,154	803,825	1,110,061	1,024,094	453,150	536,302
GH-271S-200*/C0	880,774	320,495	318,273	1,085,810	493,297	603,763
GH-271S-220*/C0	1,195,214	542,064	661,974	1,084,668	492,562	602,515
GH-271S-240*/C0	1,539,597	762,289	1,038,405	1,083,411	491,748	601,143
GH-271S-250*/C0	1,723,011	878,216	1,238,893	1,082,748	491,314	600,417

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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0	2,318,197	1,251,859	1,889,458	1,080,579	489,916	598,045
GH-271S-300*/C0	2,752,415	1,523,258	2,364,088	1,078,995	488,898	596,319
GH-271S-320*/C0						
GH-271S-340*/C0						
GH-271S-360*/C0						
GH-271S-380*/C0						
GH-271S-400*/C0						
GH-271S-420*/C0						
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2						
GH-271S-220*/C2	1,137,543	285,410	276,701	1,403,570	592,142	659,549
GH-271S-240*/C2	1,481,925	607,675	653,132	1,402,313	591,301	658,177
GH-271S-250*/C2	1,665,348	729,957	853,619	1,401,649	590,858	657,451
GH-271S-280*/C2	2,260,526	1,112,486	1,504,185	1,399,481	589,407	655,079
GH-271S-300*/C2	2,694,744	1,386,824	1,978,815	1,397,905	588,345	653,354
GH-271S-320*/C2						
GH-271S-340*/C2						
GH-271S-360*/C2						
GH-271S-380*/C2						
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3						
GH-271S-220*/C3						
GH-271S-240*/C3	1,374,114	532,558	535,285	1,499,857	655,920	764,802
GH-271S-250*/C3	1,557,528	658,611	735,772	1,499,193	655,487	764,068
GH-271S-280*/C3	2,152,715	1,043,937	1,386,346	1,497,025	654,062	761,704
GH-271S-300*/C3	2,586,933	1,318,850	1,860,968	1,495,449	653,026	759,978
GH-271S-320*/C3						
GH-271S-340*/C3						
GH-271S-360*/C3						
GH-271S-380*/C3						
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3						
GH-271S-200*/C4	946,340	376,458	389,937	1,026,492	454,716	538,922
GH-271S-220*/C4	1,260,772	584,406	733,630	1,025,351	453,973	537,674
GH-271S-240*/C4	1,605,154	803,825	1,110,061	1,024,094	453,150	536,302
GH-271S-250*/C4	1,788,577	919,566	1,310,557	1,023,430	452,707	535,577
GH-271S-280*/C4	2,383,755	1,292,838	1,961,123	1,021,261	451,291	533,213
GH-271S-300*/C4	2,817,981	1,564,149	2,435,753	1,019,677	450,255	531,479
GH-271S-320*/C4						
GH-271S-340*/C4						

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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4						
GH-271S-380*/C4						
GH-271S-400*/C4						
GH-271S-420*/C4						
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1						
GH-350S-250*/C1	2,182,037	570,741	555,084	2,303,116	866,241	861,718
GH-350S-280*/C1	2,961,957	1,255,771	1,407,588	2,300,275	863,222	858,611
GH-350S-300*/C1	3,530,954	1,627,883	2,029,530	2,298,203	861,019	856,354
GH-350S-320*/C1	4,139,195	2,016,953	2,694,372	2,295,991	858,664	853,929
GH-350S-350*/C1	5,125,124	2,640,311	3,772,057	2,292,406	854,850	850,008
GH-350S-380*/C1						
GH-350S-400*/C1						
GH-350S-420*/C1						
GH-350S-440*/C1						
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1						



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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1	16,852	9,444	14,869	8,753	4,478	6,364
GH-065S-060*/C1	27,216	15,896	26,198	8,656	4,417	6,249
GH-065S-050*/C2	13,037	6,231	8,152	14,321	7,249	10,143
GH-065S-060*/C2	23,393	12,754	19,472	14,223	7,187	10,028
GH-065S-070*/C2						
GH-065S-080*/C2						
GH-065S-090*/C2						
GH-065S-070*/C3	25,676	12,913	17,923	26,464	13,719	19,746
GH-065S-050*/C4	8,594	2,823	2,788	18,755	9,895	14,533
GH-065S-060*/C4	18,949	9,815	14,117	18,657	9,833	14,418
GH-065S-070*/C4	31,199	17,471	27,499	18,533	9,754	14,294
GH-085S-050*/C1	22,295	12,055	18,233	12,780	6,257	8,417
GH-085S-060*/C1	36,005	20,605	33,217	12,648	6,178	8,267
GH-085S-070*/C1	52,202	30,686	50,918	12,488	6,072	8,098
GH-085S-050*/C2	17,241	7,346	8,293	21,003	10,143	13,418
GH-085S-060*/C2	30,951	16,100	23,277	20,870	10,063	13,267
GH-085S-070*/C2	47,148	26,242	40,988	20,711	9,957	13,099
GH-085S-060*/C3	23,065	7,744	7,656	33,810	16,153	21,065
GH-085S-070*/C3	39,262	19,065	25,357	33,651	16,055	20,897
GH-085S-080*/C3	57,955	30,845	45,794	33,465	15,931	20,693
GH-085S-090*/C3	79,135	44,086	68,947	33,261	15,807	20,472
GH-085S-050*/C4	14,798	4,824	4,762	23,932	11,745	15,825
GH-085S-060*/C4	28,508	14,285	19,746	23,800	11,656	15,684
GH-085S-070*/C4	44,705	24,455	37,456	23,640	11,559	15,507
GH-085S-080*/C4	63,398	36,111	57,884	23,454	11,444	15,312
GH-085S-090*/C4	84,587	49,299	81,037	23,251	11,311	15,082
GH-085S-050*/C5						
GH-085S-060*/C5	19,905	4,381	4,204	36,660	17,976	24,189
GH-085S-070*/C5	36,111	17,047	21,914	36,500	17,870	24,012
GH-085S-080*/C5	54,795	28,871	42,342	36,323	17,755	23,817
GH-085S-090*/C5	75,984	42,121	65,496	36,111	17,622	23,587
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6	31,225	12,099	12,170	44,564	21,658	28,845
GH-085S-080*/C6	49,918	24,357	32,597	44,387	21,543	28,641
GH-085S-090*/C6	71,098	37,713	55,751	44,174	21,410	28,420
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7	39,616	16,312	17,631	56,778	28,287	38,828
GH-085S-090*/C7	60,796	30,031	40,784	56,565	28,154	38,607
GH-100S-070*/C1	42,776	11,125	10,816	56,521	24,879	29,261
GH-100S-080*/C1	65,088	29,207	35,208	56,379	24,791	29,110
GH-100S-090*/C1	90,375	45,369	62,849	56,211	24,676	28,924
GH-100S-110*/C1						
GH-100S-080*/C2	54,069	21,888	23,162	66,345	31,243	40,005

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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2	79,356	38,377	50,803	66,177	31,137	39,828
GH-100S-110*/C2						
GH-130S-070*/C1						
GH-130S-080*/C1	65,814	28,721	33,403	84,020	41,696	56,963
GH-130S-090*/C1	98,960	49,945	69,629	83,693	41,492	56,609
GH-130S-100*/C1	136,001	73,213	110,121	83,330	41,262	56,220
GH-130S-110*/C1	177,714	99,270	155,711	83,702	41,492	56,618
GH-130S-125*/C1	246,662	142,232	231,075	83,250	41,209	56,131
GH-130S-080*/C2						
GH-130S-090*/C2	90,472	39,386	45,652	103,536	49,644	65,009
GH-130S-100*/C2	127,513	63,177	86,144	103,173	49,414	64,610
GH-130S-110*/C2	169,226	89,455	131,735	103,545	49,644	65,018
GH-130S-125*/C2	238,174	132,567	207,099	103,094	49,361	64,522
GH-130S-070*/C3	39,067	12,187	11,993	75,568	38,669	54,813
GH-130S-080*/C3	68,310	33,111	43,962	75,276	38,492	54,494
GH-130S-090*/C3	101,456	54,007	80,188	74,957	38,279	54,140
GH-130S-100*/C3	138,497	77,161	120,671	74,594	38,058	53,751
GH-130S-110*/C3	180,210	103,164	166,270	74,966	38,288	54,149
GH-130S-125*/C3	249,157	146,073	241,625	74,514	38,005	53,662
GH-130S-080*/C4	57,486	26,172	32,128	85,073	44,652	65,203
GH-130S-090*/C4	90,632	47,210	68,354	84,746	44,448	64,849
GH-130S-100*/C4	127,672	70,408	108,847	84,392	44,218	64,451
GH-130S-110*/C4	169,386	96,420	154,437	84,755	44,448	64,858
GH-130S-125*/C4	238,333	139,346	229,801	84,312	44,165	64,363
GH-130S-080*/C5						
GH-130S-090*/C5	76,745	32,234	35,713	111,767	56,388	78,577
GH-130S-110*/C5	155,499	82,427	121,795	111,776	56,388	78,586
GH-130S-125*/C5	224,446	125,530	197,159	111,325	56,105	78,099
GH-130S-140*/C5	302,191	173,970	282,144	110,820	55,795	77,541
GH-130S-090*/C6						
GH-130S-110*/C6	138,470	62,504	75,869	149,790	72,284	95,420
GH-130S-125*/C6	207,417	106,395	151,224	149,339	72,001	94,933
GH-130S-140*/C6	285,171	155,154	236,209	148,834	71,682	94,384
GH-130S-100*/O5	111,404	56,158	78,188	113,794	56,158	76,205
GH-130S-100*/O6	149,418	72,054	95,013	96,774	30,730	30,278
GH-161S-110F/C2	181,563	97,037	144,737	144,778	75,567	109,645
GH-161S-110F/C3	155,740	80,832	116,510	168,142	90,221	135,183
GH-161S-110F/C4	116,102	50,410	58,239	216,375	116,233	174,384
GH-161S-110F/C5						
GH-161S-125F/C2	267,370	150,636	238,529	144,222	75,217	109,037
GH-161S-125F/C3	241,547	134,529	210,303	167,586	89,872	134,575
GH-161S-125F/C4	201,909	105,107	152,032	215,818	115,885	173,775
GH-161S-125F/C5	162,814	68,959	77,198	277,761	145,639	212,438
GH-161S-140F/C2	364,132	210,909	344,295	143,594	74,823	108,351
GH-161S-140F/C3	338,308	194,829	316,069	166,958	89,479	133,889
GH-161S-140F/C4	298,670	165,672	257,798	215,191	115,491	173,089



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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5	259,576	131,114	182,964	277,133	145,245	211,752
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4	444,725	256,690	417,445	214,243	114,897	172,054
GH-161S-160F/C5	405,630	222,718	342,611	276,185	144,649	210,717
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5	571,159	325,958	523,544	275,112	143,974	209,543
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1	154,180	59,743	60,035	284,711	147,790	213,055
GH-200S-125*/C1	262,637	130,513	178,590	284,012	147,347	212,285
GH-200S-140*/C1	384,937	207,417	312,272	283,215	146,843	211,418
GH-200S-160*/C1	569,546	322,663	514,052	282,020	146,090	210,108
GH-200S-180*/C1	778,760	452,955	742,746	280,657	145,241	208,621
GH-200S-125*/C2	196,088	56,308	55,122	386,202	196,973	278,099
GH-200S-140*/C2	318,388	148,825	188,813	385,406	196,478	277,232
GH-200S-160*/C2	502,988	265,593	390,592	384,211	195,725	275,922
GH-200S-180*/C2	712,211	396,425	619,287	382,857	194,867	274,435
GH-201S-200*/C3	770,396	381,228	518,955	683,543	336,382	454,805
GH-201S-160*/C7	421,933	183,441	212,276	531,806	262,451	356,083
GH-201S-200*/C7	868,984	466,983	700,926	532,930	263,159	357,305
GH-270S-200*/C0	1,068,622	459,203	523,602	1,085,810	493,297	603,763
GH-270S-220*/C0	1,422,501	687,916	910,415	1,084,668	492,562	602,515
GH-270S-240*/C0	1,810,093	933,090	1,334,074	1,083,411	491,748	601,143
GH-270S-200*/C2						
GH-270S-220*/C2	1,364,830	525,841	525,142	1,403,570	592,142	659,549
GH-270S-240*/C2	1,752,422	786,849	948,800	1,402,313	591,301	658,177
GH-270S-250*/C2	1,958,848	920,151	1,174,441	1,401,649	590,858	657,451
GH-270S-280*/C2						
GH-270S-220*/C3	1,257,019	412,507	407,294	1,501,114	656,743	766,174
GH-270S-250*/C3	1,851,037	850,769	1,056,594	1,499,193	655,487	764,068
GH-270S-280*/C3						
GH-270S-200*/C4	1,134,179	502,351	595,266	1,026,492	454,716	538,922
GH-270S-220*/C4	1,488,068	729,638	982,079	1,025,351	453,973	537,674
GH-270S-240*/C4	1,875,651	974,308	1,405,729	1,024,094	453,150	536,302
GH-271S-200*/C0	1,068,622	459,203	523,602	1,085,810	493,297	603,763
GH-271S-220*/C0	1,422,501	687,916	910,415	1,084,668	492,562	602,515
GH-271S-240*/C0	1,810,093	933,090	1,334,074	1,083,411	491,748	601,143
GH-271S-250*/C0	2,016,519	1,062,833	1,559,715	1,082,748	491,314	600,417



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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0	2,686,371	1,481,996	2,291,902	1,080,579	489,916	598,045
GH-271S-300*/C0						
GH-271S-320*/C0						
GH-271S-340*/C0						
GH-271S-360*/C0						
GH-271S-380*/C0						
GH-271S-400*/C0						
GH-271S-420*/C0						
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2						
GH-271S-220*/C2	1,364,830	525,841	525,142	1,403,570	592,142	659,549
GH-271S-240*/C2	1,752,422	786,849	948,800	1,402,313	591,301	658,177
GH-271S-250*/C2	1,958,848	920,151	1,174,441	1,401,649	590,858	657,451
GH-271S-280*/C2	2,628,699	1,345,199	1,906,629	1,399,481	589,407	655,079
GH-271S-300*/C2						
GH-271S-320*/C2						
GH-271S-340*/C2						
GH-271S-360*/C2						
GH-271S-380*/C2						
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3						
GH-271S-220*/C3	1,257,019	412,507	407,294	1,501,114	656,743	766,174
GH-271S-240*/C3	1,644,611	716,353	830,953	1,499,857	655,920	764,802
GH-271S-250*/C3	1,851,037	850,769	1,056,594	1,499,193	655,487	764,068
GH-271S-280*/C3	2,520,888	1,277,181	1,788,781	1,497,025	654,062	761,704
GH-271S-300*/C3						
GH-271S-320*/C3						
GH-271S-340*/C3						
GH-271S-360*/C3						
GH-271S-380*/C3						
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3						
GH-271S-200*/C4	1,134,179	502,351	595,266	1,026,492	454,716	538,922
GH-271S-220*/C4	1,488,068	729,638	982,079	1,025,351	453,973	537,674
GH-271S-240*/C4	1,875,651	974,308	1,405,729	1,024,094	453,150	536,302
GH-271S-250*/C4	2,082,086	1,103,919	1,631,379	1,023,430	452,707	535,577
GH-271S-280*/C4	2,751,937	1,522,957	2,363,566	1,021,261	451,291	533,213
GH-271S-300*/C4						
GH-271S-320*/C4						
GH-271S-340*/C4						

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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4						
GH-271S-380*/C4						
GH-271S-400*/C4						
GH-271S-420*/C4						
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1						
GH-350S-250*/C1	2,566,647	979,867	975,485	2,303,116	866,241	861,718
GH-350S-280*/C1	3,444,411	1,571,920	1,934,933	2,300,275	863,222	858,611
GH-350S-300*/C1	4,084,789	1,982,338	2,634,913	2,298,203	861,019	856,354
GH-350S-320*/C1	4,769,333	2,415,980	3,383,155	2,295,991	858,664	853,929
GH-350S-350*/C1						
GH-350S-380*/C1						
GH-350S-400*/C1						
GH-350S-420*/C1						
GH-350S-440*/C1						
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1						



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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1	19,498	11,090	17,763	8,753	4,478	6,364
GH-065S-060*/C1	31,022	18,268	30,358	8,656	4,417	6,249
GH-065S-050*/C2	15,675	7,913	11,037	14,321	7,249	10,143
GH-065S-060*/C2	27,198	15,135	23,632	14,223	7,187	10,028
GH-065S-070*/C2						
GH-065S-080*/C2						
GH-065S-090*/C2						
GH-065S-070*/C3	30,854	16,170	23,578	26,464	13,719	19,746
GH-065S-050*/C4	11,232	4,894	5,682	18,755	9,895	14,533
GH-065S-060*/C4	22,755	12,205	18,277	18,657	9,833	14,418
GH-065S-070*/C4						
GH-085S-050*/C1	25,791	14,241	22,056	12,780	6,257	8,417
GH-085S-060*/C1	41,041	23,738	38,713	12,648	6,178	8,267
GH-085S-070*/C1	59,052	34,952	58,406	12,488	6,072	8,098
GH-085S-050*/C2	20,737	9,630	12,117	21,003	10,143	13,418
GH-085S-060*/C2	35,978	19,259	28,783	20,870	10,063	13,267
GH-085S-070*/C2	53,998	30,509	48,476	20,711	9,957	13,099
GH-085S-060*/C3	28,101	11,833	13,152	33,810	16,153	21,065
GH-085S-070*/C3	46,112	23,401	32,845	33,651	16,055	20,897
GH-085S-080*/C3	66,903	36,447	55,574	33,465	15,931	20,693
GH-085S-090*/C3						
GH-085S-050*/C4	18,295	7,709	8,585	23,932	11,745	15,825
GH-085S-060*/C4	33,544	17,454	25,251	23,800	11,656	15,684
GH-085S-070*/C4	51,556	28,730	44,944	23,640	11,559	15,507
GH-085S-080*/C4	72,346	41,687	67,664	23,454	11,444	15,312
GH-085S-090*/C4						
GH-085S-050*/C5						
GH-085S-060*/C5	24,941	9,656	9,709	36,660	17,976	24,189
GH-085S-070*/C5	42,962	21,410	29,402	36,500	17,870	24,012
GH-085S-080*/C5	63,743	34,474	52,122	36,323	17,755	23,817
GH-085S-090*/C5	87,304	49,184	77,878	36,111	17,622	23,587
GH-085S-050*/C6						
GH-085S-060*/C6						
GH-085S-070*/C6	38,076	16,737	19,658	44,564	21,658	28,845
GH-085S-080*/C6	58,866	30,022	42,377	44,387	21,543	28,641
GH-085S-090*/C6	82,427	44,802	68,133	44,174	21,410	28,420
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7						
GH-085S-080*/C7	48,564	22,207	27,411	56,778	28,287	38,828
GH-085S-090*/C7	72,125	37,182	53,166	56,565	28,154	38,607
GH-100S-070*/C1	50,927	19,684	19,728	56,521	24,879	29,261
GH-100S-080*/C1	75,736	36,067	46,847	56,379	24,791	29,110
GH-100S-090*/C1	103,855	53,866	77,577	56,211	24,676	28,924
GH-100S-110*/C1						
GH-100S-080*/C2	64,717	28,969	34,801	66,345	31,243	40,005

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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2	92,836	46,918	65,540	66,177	31,137	39,828
GH-100S-110*/C2						
GH-130S-070*/C1	47,290	13,444	13,152	84,303	41,873	57,282
GH-130S-080*/C1	79,816	37,784	48,706	84,020	41,696	56,963
GH-130S-090*/C1	116,679	61,097	88,994	83,693	41,492	56,609
GH-130S-100*/C1	157,880	86,888	134,027	83,330	41,262	56,220
GH-130S-110*/C1	204,178	115,777	184,644	83,702	41,492	56,618
GH-130S-125*/C1	280,834	163,518	268,434	83,250	41,209	56,131
GH-130S-080*/C2	71,328	24,950	24,729	103,864	49,847	65,363
GH-130S-090*/C2	108,192	50,874	65,018	103,536	49,644	65,009
GH-130S-100*/C2	149,392	76,993	110,050	103,173	49,414	64,610
GH-130S-110*/C2	195,690	106,032	160,668	103,545	49,644	65,018
GH-130S-125*/C2	272,346	153,888	244,458	103,094	49,361	64,522
GH-130S-070*/C3	49,785	21,127	23,711	75,568	38,669	54,813
GH-130S-080*/C3	82,312	41,979	59,256	75,276	38,492	54,494
GH-130S-090*/C3	119,175	65,097	99,553	74,957	38,279	54,140
GH-130S-100*/C3	160,376	90,809	144,586	74,594	38,058	53,751
GH-130S-110*/C3	206,674	119,644	195,194	74,966	38,288	54,149
GH-130S-125*/C3	283,330	167,332	278,984	74,514	38,005	53,662
GH-130S-080*/C4	71,488	35,137	47,431	85,073	44,652	65,203
GH-130S-090*/C4	108,351	58,326	87,720	84,746	44,448	64,849
GH-130S-100*/C4	149,551	84,056	132,752	84,392	44,218	64,451
GH-130S-110*/C4	195,849	112,900	183,361	84,755	44,448	64,858
GH-130S-125*/C4	272,506	160,597	267,160	84,312	44,165	64,363
GH-130S-080*/C5	57,601	15,197	14,790	112,086	56,592	78,931
GH-130S-090*/C5	94,464	43,829	55,078	111,767	56,388	78,577
GH-130S-110*/C5	181,963	99,004	150,728	111,776	56,388	78,586
GH-130S-125*/C5	258,628	146,843	234,518	111,325	56,105	78,099
GH-130S-140*/C5						
GH-130S-090*/C6						
GH-130S-110*/C6	164,943	79,506	104,793	149,790	72,284	95,420
GH-130S-125*/C6	241,599	127,876	188,583	149,339	72,001	94,933
GH-130S-140*/C6						
GH-130S-100*/O5	111,404	56,158	78,188	135,664	69,974	100,111
GH-130S-100*/O6	149,418	72,054	95,013	118,644	49,423	54,193
GH-161S-110F/C2	214,502	117,643	180,741	144,778	75,567	109,645
GH-161S-110F/C3	188,679	101,497	152,515	168,142	90,221	135,183
GH-161S-110F/C4	149,041	71,690	94,244	216,375	116,233	174,384
GH-161S-110F/C5	109,946	19,410	19,410	278,317	145,989	213,047
GH-161S-125F/C2	309,906	177,142	285,023	144,222	75,217	109,037
GH-161S-125F/C3	284,083	161,060	256,797	167,586	89,872	134,575
GH-161S-125F/C4	244,444	131,786	198,526	215,818	115,885	173,775
GH-161S-125F/C5	205,350	96,659	123,692	277,761	145,639	212,438
GH-161S-140F/C2	417,488	244,116	402,617	143,594	74,823	108,351
GH-161S-140F/C3	391,665	228,054	374,391	166,958	89,479	133,889
GH-161S-140F/C4	352,027	198,952	316,120	215,191	115,491	173,089

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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5	312,932	164,699	241,286	277,133	145,245	211,752
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4	514,415	300,076	493,620	214,243	114,897	172,054
GH-161S-160F/C5	475,320	266,215	418,787	276,185	144,649	210,717
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5						
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1	195,814	87,746	105,545	284,711	147,790	213,055
GH-200S-125*/C1	316,397	164,420	237,351	284,012	147,347	212,285
GH-200S-140*/C1	452,380	249,573	385,990	283,215	146,843	211,418
GH-200S-160*/C1	657,628	377,520	610,339	282,020	146,090	210,108
GH-200S-180*/C1						
GH-200S-125*/C2	249,848	103,996	113,891	386,202	196,973	278,099
GH-200S-140*/C2	385,822	191,787	262,522	385,406	196,478	277,232
GH-200S-160*/C2	591,080	320,751	486,880	384,211	195,725	275,922
GH-200S-180*/C2	823,695	465,957	741,144	382,857	194,867	274,435
GH-201S-200*/C3	908,025	468,134	669,400	683,543	336,382	454,805
GH-201S-160*/C7	510,024	240,537	308,564	531,806	262,451	356,083
GH-201S-200*/C7	1,006,613	553,048	851,362	532,930	263,159	357,305
GH-270S-200*/C0	1,256,470	581,636	728,930	1,085,810	493,297	603,763
GH-270S-220*/C0	1,649,798	832,024	1,158,864	1,084,668	492,562	602,515
GH-270S-240*/C0	2,080,590	1,102,980	1,629,742	1,083,411	491,748	601,143
GH-270S-200*/C2	1,198,799	350,569	343,657	1,404,711	592,903	660,797
GH-270S-220*/C2	1,592,126	681,667	773,591	1,403,570	592,142	659,549
GH-270S-240*/C2	2,022,919	961,138	1,244,469	1,402,313	591,301	658,177
GH-270S-250*/C2						
GH-270S-280*/C2						
GH-270S-220*/C3	1,484,315	609,294	655,743	1,501,114	656,743	766,174
GH-270S-250*/C3	2,144,546	1,038,742	1,377,416	1,499,193	655,487	764,068
GH-270S-280*/C3						
GH-270S-200*/C4	1,322,028	623,757	800,586	1,026,492	454,716	538,922
GH-270S-220*/C4	1,715,355	873,383	1,230,520	1,025,351	453,973	537,674
GH-270S-240*/C4	2,146,148	1,144,066	1,701,406	1,024,094	453,150	536,302
GH-271S-200*/C0	1,256,470	581,636	728,930	1,085,810	493,297	603,763
GH-271S-220*/C0	1,649,798	832,024	1,158,864	1,084,668	492,562	602,515
GH-271S-240*/C0	2,080,590	1,102,980	1,629,742	1,083,411	491,748	601,143
GH-271S-250*/C0	2,310,028	1,246,752	1,880,537	1,082,748	491,314	600,417



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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0						
GH-271S-300*/C0						
GH-271S-320*/C0						
GH-271S-340*/C0						
GH-271S-360*/C0						
GH-271S-380*/C0						
GH-271S-400*/C0						
GH-271S-420*/C0						
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2	1,198,799	350,569	343,657	1,404,711	592,903	660,797
GH-271S-220*/C2	1,592,126	681,667	773,591	1,403,570	592,142	659,549
GH-271S-240*/C2	2,022,919	961,138	1,244,469	1,402,313	591,301	658,177
GH-271S-250*/C2	2,252,357	1,107,308	1,495,263	1,401,649	590,858	657,451
GH-271S-280*/C2						
GH-271S-300*/C2						
GH-271S-320*/C2						
GH-271S-340*/C2						
GH-271S-360*/C2						
GH-271S-380*/C2						
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3	1,090,988	235,881	225,809	1,502,255	657,496	767,422
GH-271S-220*/C3	1,484,315	609,294	655,743	1,501,114	656,743	766,174
GH-271S-240*/C3	1,915,108	892,005	1,126,621	1,499,857	655,920	764,802
GH-271S-250*/C3	2,144,546	1,038,742	1,377,416	1,499,193	655,487	764,068
GH-271S-280*/C3						
GH-271S-300*/C3						
GH-271S-320*/C3						
GH-271S-340*/C3						
GH-271S-360*/C3						
GH-271S-380*/C3						
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3						
GH-271S-200*/C4	1,322,028	623,757	800,586	1,026,492	454,716	538,922
GH-271S-220*/C4	1,715,355	873,383	1,230,520	1,025,351	453,973	537,674
GH-271S-240*/C4	2,146,148	1,144,066	1,701,406	1,024,094	453,150	536,302
GH-271S-250*/C4	2,375,594	1,287,740	1,952,201	1,023,430	452,707	535,577
GH-271S-280*/C4						
GH-271S-300*/C4						
GH-271S-320*/C4						
GH-271S-340*/C4						



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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4						
GH-271S-380*/C4						
GH-271S-400*/C4						
GH-271S-420*/C4						
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1	2,086,095	468,683	450,220	2,305,629	868,914	864,470
GH-350S-250*/C1	2,951,256	1,248,637	1,395,887	2,303,116	866,241	861,718
GH-350S-280*/C1	3,926,865	1,881,767	2,462,288	2,300,275	863,222	858,611
GH-350S-300*/C1	4,638,625	2,333,518	3,240,286	2,298,203	861,019	856,354
GH-350S-320*/C1						
GH-350S-350*/C1						
GH-350S-380*/C1						
GH-350S-400*/C1						
GH-350S-420*/C1						
GH-350S-440*/C1						
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1						



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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1	22,136	12,736	20,649	8,753	4,478	6,364
GH-065S-060*/C1	34,828	20,631	34,518	8,656	4,417	6,249
GH-065S-050*/C2	18,321	9,577	13,922	14,321	7,249	10,143
GH-065S-060*/C2	31,004	17,507	27,791	14,223	7,187	10,028
GH-065S-070*/C2						
GH-065S-080*/C2						
GH-065S-090*/C2						
GH-065S-070*/C3						
GH-065S-050*/C4	13,878	6,603	8,568	18,755	9,895	14,533
GH-065S-060*/C4	26,561	14,586	22,437	18,657	9,833	14,418
GH-065S-070*/C4						
GH-085S-050*/C1	29,287	16,418	25,871	12,780	6,257	8,417
GH-085S-060*/C1	46,068	26,871	44,218	12,648	6,178	8,267
GH-085S-070*/C1	65,903	39,209	65,894	12,488	6,072	8,098
GH-085S-050*/C2	24,233	11,860	15,940	21,003	10,143	13,418
GH-085S-060*/C2	41,014	22,410	34,279	20,870	10,063	13,267
GH-085S-070*/C2	60,849	34,783	55,963	20,711	9,957	13,099
GH-085S-060*/C3	33,128	15,135	18,657	33,810	16,153	21,065
GH-085S-070*/C3	52,963	27,712	40,333	33,651	16,055	20,897
GH-085S-080*/C3	75,851	42,032	65,354	33,465	15,931	20,693
GH-085S-090*/C3						
GH-085S-050*/C4	21,791	10,001	12,409	23,932	11,745	15,825
GH-085S-060*/C4	38,572	20,613	30,748	23,800	11,656	15,684
GH-085S-070*/C4	58,406	33,004	52,432	23,640	11,559	15,507
GH-085S-080*/C4	81,294	47,254	77,444	23,454	11,444	15,312
GH-085S-090*/C4						
GH-085S-050*/C5						
GH-085S-060*/C5	29,977	13,081	15,206	36,660	17,976	24,189
GH-085S-070*/C5	49,812	25,729	36,890	36,500	17,870	24,012
GH-085S-080*/C5	72,691	40,067	61,902	36,323	17,755	23,817
GH-085S-090*/C5						
GH-085S-050*/C6						
GH-085S-060*/C6	25,092	5,682	5,461	44,723	21,755	29,013
GH-085S-070*/C6	44,926	21,171	27,145	44,564	21,658	28,845
GH-085S-080*/C6	67,814	35,651	52,157	44,387	21,543	28,641
GH-085S-090*/C6						
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7	34,624	12,276	12,179	56,955	28,402	39,032
GH-085S-080*/C7	57,512	27,942	37,191	56,778	28,287	38,828
GH-085S-090*/C7	83,445	44,289	65,540	56,565	28,154	38,607
GH-100S-070*/C1	59,079	25,269	28,632	56,521	24,879	29,261
GH-100S-080*/C1	86,383	42,838	58,486	56,379	24,791	29,110
GH-100S-090*/C1	117,326	62,327	92,313	56,211	24,676	28,924
GH-100S-110*/C1						
GH-100S-080*/C2	75,364	35,828	46,440	66,345	31,243	40,005

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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2	106,306	55,406	80,267	66,177	31,137	39,828
GH-100S-110*/C2						
GH-130S-070*/C1	58,008	23,490	24,871	84,303	41,873	57,282
GH-130S-080*/C1	93,818	46,688	64,009	84,020	41,696	56,963
GH-130S-090*/C1	134,399	72,204	108,360	83,693	41,492	56,609
GH-130S-100*/C1	179,750	100,545	157,942	83,330	41,262	56,220
GH-130S-110*/C1	230,642	132,257	213,569	83,702	41,492	56,618
GH-130S-125*/C1						
GH-130S-080*/C2	85,330	35,969	40,032	103,864	49,847	65,363
GH-130S-090*/C2	125,911	62,159	84,392	103,536	49,644	65,009
GH-130S-100*/C2	171,262	90,729	133,965	103,173	49,414	64,610
GH-130S-110*/C2	222,154	122,574	189,592	103,545	49,644	65,018
GH-130S-125*/C2	306,528	175,183	281,817	103,094	49,361	64,522
GH-130S-070*/C3	60,504	28,119	35,421	75,568	38,669	54,813
GH-130S-080*/C3	96,314	50,786	74,559	75,276	38,492	54,494
GH-130S-090*/C3	136,895	76,161	118,919	74,957	38,279	54,140
GH-130S-100*/C3	182,246	104,430	168,492	74,594	38,058	53,751
GH-130S-110*/C3	233,146	136,116	224,128	74,966	38,288	54,149
GH-130S-125*/C3						
GH-130S-080*/C4	85,489	43,979	62,734	85,073	44,652	65,203
GH-130S-090*/C4	126,070	69,399	107,085	84,746	44,448	64,849
GH-130S-100*/C4	171,421	97,686	156,658	84,392	44,218	64,451
GH-130S-110*/C4	222,322	129,380	212,294	84,755	44,448	64,858
GH-130S-125*/C4	306,687	181,856	304,510	84,312	44,165	64,363
GH-130S-080*/C5	71,603	28,738	30,093	112,086	56,592	78,931
GH-130S-090*/C5	112,183	55,140	74,444	111,767	56,388	78,577
GH-130S-110*/C5	208,435	115,538	179,653	111,776	56,388	78,586
GH-130S-125*/C5	292,801	168,129	271,877	111,325	56,105	78,099
GH-130S-140*/C5						
GH-130S-090*/C6	95,154	29,013	28,517	149,781	72,284	95,420
GH-130S-110*/C6	191,406	96,296	133,726	149,790	72,284	95,420
GH-130S-125*/C6	275,772	149,277	225,942	149,339	72,001	94,933
GH-130S-140*/C6						
GH-130S-100*/O5	111,404	56,158	78,188	157,534	83,710	124,026
GH-130S-100*/O6	149,418	72,054	95,013	140,515	63,823	78,099
GH-161S-110F/C2	247,442	138,206	216,746	144,778	75,567	109,645
GH-161S-110F/C3	221,619	122,091	188,520	168,142	90,221	135,183
GH-161S-110F/C4	181,981	92,561	130,249	216,375	116,233	174,384
GH-161S-110F/C5	142,886	55,260	55,415	278,317	145,989	213,047
GH-161S-125F/C2	352,441	203,629	331,517	144,222	75,217	109,037
GH-161S-125F/C3	326,618	187,549	303,290	167,586	89,872	134,575
GH-161S-125F/C4	286,980	158,374	245,019	215,818	115,885	173,775
GH-161S-125F/C5	247,885	123,725	170,186	277,761	145,639	212,438
GH-161S-140F/C2	470,844	277,302	460,939	143,594	74,823	108,351
GH-161S-140F/C3	445,021	261,241	432,712	166,958	89,479	133,889
GH-161S-140F/C4	405,383	232,191	374,441	215,191	115,491	173,089

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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5	366,288	198,126	299,608	277,133	145,245	211,752
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						
GH-161S-160F/C5	545,010	309,675	494,962	276,185	144,649	210,717
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5						
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1	237,448	114,520	151,056	284,711	147,790	213,055
GH-200S-125*/C1	370,165	198,159	296,120	284,012	147,347	212,285
GH-200S-140*/C1	519,813	291,650	459,699	283,215	146,843	211,418
GH-200S-160*/C1	745,711	432,377	706,617	282,020	146,090	210,108
GH-200S-180*/C1						
GH-200S-125*/C2	303,607	139,311	172,660	386,202	196,973	278,099
GH-200S-140*/C2	453,265	234,350	336,240	385,406	196,478	277,232
GH-200S-160*/C2	679,162	375,812	583,158	384,211	195,725	275,922
GH-200S-180*/C2						
GH-201S-200*/C3	1,045,663	554,570	819,836	683,543	336,382	454,805
GH-201S-160*/C7	598,107	296,615	404,842	531,806	262,451	356,083
GH-201S-200*/C7	1,144,243	638,953	1,001,808	532,930	263,159	357,305
GH-270S-200*/C0	1,444,310	701,794	934,250	1,085,810	493,297	603,763
GH-270S-220*/C0	1,877,094	975,211	1,407,305	1,084,668	492,562	602,515
GH-270S-240*/C0						
GH-270S-200*/C2	1,386,638	541,524	548,977	1,404,711	592,903	660,797
GH-270S-220*/C2	1,819,422	830,307	1,022,032	1,403,570	592,142	659,549
GH-270S-240*/C2						
GH-270S-250*/C2						
GH-270S-280*/C2						
GH-270S-220*/C3	1,711,602	760,271	904,184	1,501,114	656,743	766,174
GH-270S-250*/C3						
GH-270S-280*/C3						
GH-270S-200*/C4	1,509,876	743,463	1,005,914	1,026,492	454,716	538,922
GH-270S-220*/C4	1,942,651	1,016,429	1,478,969	1,025,351	453,973	537,674
GH-270S-240*/C4						
GH-271S-200*/C0	1,444,310	701,794	934,250	1,085,810	493,297	603,763
GH-271S-220*/C0	1,877,094	975,211	1,407,305	1,084,668	492,562	602,515
GH-271S-240*/C0	2,351,087	1,272,419	1,925,410	1,083,411	491,748	601,143
GH-271S-250*/C0	2,603,537	1,430,219	2,201,359	1,082,748	491,314	600,417

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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0						
GH-271S-300*/C0						
GH-271S-320*/C0						
GH-271S-340*/C0						
GH-271S-360*/C0						
GH-271S-380*/C0						
GH-271S-400*/C0						
GH-271S-420*/C0						
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2	1,386,638	541,524	548,977	1,404,711	592,903	660,797
GH-271S-220*/C2	1,819,422	830,307	1,022,032	1,403,570	592,142	659,549
GH-271S-240*/C2	2,293,415	1,133,321	1,540,137	1,402,313	591,301	658,177
GH-271S-250*/C2	2,545,865	1,292,935	1,816,085	1,401,649	590,858	657,451
GH-271S-280*/C2						
GH-271S-300*/C2						
GH-271S-320*/C2						
GH-271S-340*/C2						
GH-271S-360*/C2						
GH-271S-380*/C2						
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3	1,278,827	435,705	431,138	1,502,255	657,496	767,422
GH-271S-220*/C3	1,711,602	760,271	904,184	1,501,114	656,743	766,174
GH-271S-240*/C3	2,185,604	1,064,869	1,422,289	1,499,857	655,920	764,802
GH-271S-250*/C3	2,438,054	1,224,917	1,698,238	1,499,193	655,487	764,068
GH-271S-280*/C3						
GH-271S-300*/C3						
GH-271S-320*/C3						
GH-271S-340*/C3						
GH-271S-360*/C3						
GH-271S-380*/C3						
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3						
GH-271S-200*/C4	1,509,876	743,463	1,005,914	1,026,492	454,716	538,922
GH-271S-220*/C4	1,942,651	1,016,429	1,478,969	1,025,351	453,973	537,674
GH-271S-240*/C4	2,416,644	1,313,398	1,997,074	1,024,094	453,150	536,302
GH-271S-250*/C4	2,669,103	1,471,198	2,273,023	1,023,430	452,707	535,577
GH-271S-280*/C4						
GH-271S-300*/C4						
GH-271S-320*/C4						
GH-271S-340*/C4						

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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4						
GH-271S-380*/C4						
GH-271S-400*/C4						
GH-271S-420*/C4						
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1	2,383,941	785,513	775,777	2,305,629	868,914	864,470
GH-350S-250*/C1	3,335,865	1,501,574	1,816,289	2,303,116	866,241	861,718
GH-350S-280*/C1	4,409,320	2,188,357	2,989,633	2,300,275	863,222	858,611
GH-350S-300*/C1	5,192,461	2,682,645	3,845,660	2,298,203	861,019	856,354
GH-350S-320*/C1						
GH-350S-350*/C1						
GH-350S-380*/C1						
GH-350S-400*/C1						
GH-350S-420*/C1						
GH-350S-440*/C1						
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1						

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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/C1	24,782	14,382	23,534	8,753	4,478	6,364
GH-065S-060*/C1						
GH-065S-050*/C2	20,959	11,232	16,808	14,321	7,249	10,143
GH-065S-060*/C2	34,810	19,879	31,951	14,223	7,187	10,028
GH-065S-070*/C2						
GH-065S-080*/C2						
GH-065S-090*/C2						
GH-065S-070*/C3						
GH-065S-050*/C4	16,515	8,284	11,453	18,755	9,895	14,533
GH-065S-060*/C4	30,367	16,958	26,597	18,657	9,833	14,418
GH-065S-070*/C4						
GH-085S-050*/C1	32,783	18,604	29,694	12,780	6,257	8,417
GH-085S-060*/C1	51,104	30,004	49,715	12,648	6,178	8,267
GH-085S-070*/C1	72,753	43,466	73,382	12,488	6,072	8,098
GH-085S-050*/C2	27,729	14,073	19,755	21,003	10,143	13,418
GH-085S-060*/C2	46,050	25,552	39,784	20,870	10,063	13,267
GH-085S-070*/C2	67,699	39,041	63,451	20,711	9,957	13,099
GH-085S-060*/C3	38,164	18,365	24,154	33,810	16,153	21,065
GH-085S-070*/C3	59,813	32,013	47,821	33,651	16,055	20,897
GH-085S-080*/C3	84,799	47,617	75,134	33,465	15,931	20,693
GH-085S-090*/C3						
GH-085S-050*/C4	25,287	12,241	16,223	23,932	11,745	15,825
GH-085S-060*/C4	43,608	23,764	36,253	23,800	11,656	15,684
GH-085S-070*/C4	65,257	37,271	59,920	23,640	11,559	15,507
GH-085S-080*/C4						
GH-085S-090*/C4						
GH-085S-050*/C5						
GH-085S-060*/C5	35,005	16,347	20,711	36,660	17,976	24,189
GH-085S-070*/C5	56,663	30,031	44,378	36,500	17,870	24,012
GH-085S-080*/C5	81,639	45,652	71,682	36,323	17,755	23,817
GH-085S-090*/C5						
GH-085S-050*/C6						
GH-085S-060*/C6	30,128	11,037	10,966	44,723	21,755	29,013
GH-085S-070*/C6	51,777	25,534	34,633	44,564	21,658	28,845
GH-085S-080*/C6	76,763	41,253	61,938	44,387	21,543	28,641
GH-085S-090*/C6						
GH-085S-050*/C7						
GH-085S-060*/C7						
GH-085S-070*/C7	41,475	17,560	19,666	56,955	28,402	39,032
GH-085S-080*/C7	66,460	33,606	46,971	56,778	28,287	38,828
GH-085S-090*/C7						
GH-100S-070*/C1	67,230	30,597	37,545	56,521	24,879	29,261
GH-100S-080*/C1	97,031	49,573	70,124	56,379	24,791	29,110
GH-100S-090*/C1						
GH-100S-110*/C1						
GH-100S-080*/C2	86,012	42,608	58,079	66,345	31,243	40,005

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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/C2	119,786	63,867	94,995	66,177	31,137	39,828
GH-100S-110*/C2						
GH-130S-070*/C1	68,726	30,624	36,580	84,303	41,873	57,282
GH-130S-080*/C1	107,811	55,530	79,312	84,020	41,696	56,963
GH-130S-090*/C1	152,109	83,286	127,725	83,693	41,492	56,609
GH-130S-100*/C1	201,620	114,184	181,848	83,330	41,262	56,220
GH-130S-110*/C1	257,114	148,746	242,502	83,702	41,492	56,618
GH-130S-125*/C1						
GH-130S-080*/C2	99,323	45,157	55,335	103,864	49,847	65,363
GH-130S-090*/C2	143,621	73,364	103,757	103,536	49,644	65,009
GH-130S-100*/C2	193,132	104,430	157,871	103,173	49,414	64,610
GH-130S-110*/C2	248,626	139,090	218,525	103,545	49,644	65,018
GH-130S-125*/C2						
GH-130S-070*/C3	71,222	34,969	47,139	75,568	38,669	54,813
GH-130S-080*/C3	110,307	59,557	89,862	75,276	38,492	54,494
GH-130S-090*/C3	154,614	87,215	138,284	74,957	38,279	54,140
GH-130S-100*/C3	204,116	118,051	192,406	74,594	38,058	53,751
GH-130S-110*/C3	259,610	152,578	253,061	74,966	38,288	54,149
GH-130S-125*/C3						
GH-130S-080*/C4	99,482	52,768	78,028	85,073	44,652	65,203
GH-130S-090*/C4	143,789	80,462	126,451	84,746	44,448	64,849
GH-130S-100*/C4	193,292	111,307	180,573	84,392	44,218	64,451
GH-130S-110*/C4	248,786	145,843	241,227	84,755	44,448	64,858
GH-130S-125*/C4						
GH-130S-080*/C5	85,604	38,085	45,395	112,086	56,592	78,931
GH-130S-090*/C5	129,902	66,345	93,809	111,767	56,388	78,577
GH-130S-110*/C5	234,899	132,044	208,586	111,776	56,388	78,586
GH-130S-125*/C5						
GH-130S-140*/C5						
GH-130S-090*/C6	112,874	45,502	47,883	149,781	72,284	95,420
GH-130S-110*/C6	217,879	112,971	162,659	149,790	72,284	95,420
GH-130S-125*/C6						
GH-130S-140*/C6						
GH-130S-100*/O5	111,404	56,158	78,188	179,414	97,403	147,931
GH-130S-100*/O6	149,418	72,054	95,013	162,394	77,878	102,005
GH-161S-110F/C2	280,381	158,751	252,751	144,778	75,567	109,645
GH-161S-110F/C3	254,558	142,645	224,525	168,142	90,221	135,183
GH-161S-110F/C4	214,920	113,283	166,254	216,375	116,233	174,384
GH-161S-110F/C5	175,825	77,554	91,420	278,317	145,989	213,047
GH-161S-125F/C2						
GH-161S-125F/C3	369,153	214,036	349,784	167,586	89,872	134,575
GH-161S-125F/C4	329,515	184,911	291,513	215,818	115,885	173,775
GH-161S-125F/C5	290,420	150,548	216,680	277,761	145,639	212,438
GH-161S-140F/C2						
GH-161S-140F/C3						
GH-161S-140F/C4	458,739	265,416	432,763	215,191	115,491	173,089

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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/C5	419,645	231,478	357,930	277,133	145,245	211,752
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						
GH-161S-160F/C5						
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5						
GH-161S-200F/C3						
GH-161S-200F/C4						
GH-161S-200F/C5						
GH-161S-210F/C4						
GH-161S-210F/C5						
GH-161S-220F/C4						
GH-161S-220F/C5						
GH-200S-110*/C1	279,082	140,913	196,566	284,711	147,790	213,055
GH-200S-125*/C1	423,924	231,792	354,889	284,012	147,347	212,285
GH-200S-140*/C1	587,256	333,700	533,417	283,215	146,843	211,418
GH-200S-160*/C1	833,794	487,190	802,905	282,020	146,090	210,108
GH-200S-180*/C1						
GH-200S-125*/C2	357,376	173,731	231,421	386,202	196,973	278,099
GH-200S-140*/C2	520,707	276,692	409,958	385,406	196,478	277,232
GH-200S-160*/C2	767,245	430,748	679,437	384,211	195,725	275,922
GH-200S-180*/C2						
GH-201S-200*/C3	1,183,292	640,777	970,281	683,543	336,382	454,805
GH-201S-160*/C7	686,190	352,251	501,121	531,806	262,451	356,083
GH-201S-200*/C7	1,281,881	724,806	1,152,244	532,930	263,159	357,305
GH-270S-200*/C0	1,632,158	820,898	1,139,578	1,085,810	493,297	603,763
GH-270S-220*/C0	2,104,381	1,117,894	1,655,745	1,084,668	492,562	602,515
GH-270S-240*/C0						
GH-270S-200*/C2	1,574,486	669,913	754,305	1,404,711	592,903	660,797
GH-270S-220*/C2	2,046,709	976,353	1,270,472	1,403,570	592,142	659,549
GH-270S-240*/C2						
GH-270S-250*/C2						
GH-270S-280*/C2						
GH-270S-220*/C3	1,938,898	907,317	1,152,633	1,501,114	656,743	766,174
GH-270S-250*/C3						
GH-270S-280*/C3						
GH-270S-200*/C4	1,697,715	862,258	1,211,243	1,026,492	454,716	538,922
GH-270S-220*/C4	2,169,947	1,158,979	1,727,410	1,025,351	453,973	537,674
GH-270S-240*/C4						
GH-271S-200*/C0	1,632,158	820,898	1,139,578	1,085,810	493,297	603,763
GH-271S-220*/C0	2,104,381	1,117,894	1,655,745	1,084,668	492,562	602,515
GH-271S-240*/C0	2,621,583	1,441,495	2,221,078	1,083,411	491,748	601,143
GH-271S-250*/C0						



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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/C0						
GH-271S-300*/C0						
GH-271S-320*/C0						
GH-271S-340*/C0						
GH-271S-360*/C0						
GH-271S-380*/C0						
GH-271S-400*/C0						
GH-271S-420*/C0						
GH-271S-440*/C0						
GH-271S-460*/C0						
GH-271S-200*/C2	1,574,486	669,913	754,305	1,404,711	592,903	660,797
GH-271S-220*/C2	2,046,709	976,353	1,270,472	1,403,570	592,142	659,549
GH-271S-240*/C2	2,563,912	1,304,326	1,835,805	1,402,313	591,301	658,177
GH-271S-250*/C2						
GH-271S-280*/C2						
GH-271S-300*/C2						
GH-271S-320*/C2						
GH-271S-340*/C2						
GH-271S-360*/C2						
GH-271S-380*/C2						
GH-271S-400*/C2						
GH-271S-420*/C2						
GH-271S-440*/C2						
GH-271S-460*/C2						
GH-271S-200*/C3	1,466,675	597,249	636,457	1,502,255	657,496	767,422
GH-271S-220*/C3	1,938,898	907,317	1,152,633	1,501,114	656,743	766,174
GH-271S-240*/C3	2,456,101	1,236,308	1,717,957	1,499,857	655,920	764,802
GH-271S-250*/C3	2,731,563	1,409,969	2,019,060	1,499,193	655,487	764,068
GH-271S-280*/C3						
GH-271S-300*/C3						
GH-271S-320*/C3						
GH-271S-340*/C3						
GH-271S-360*/C3						
GH-271S-380*/C3						
GH-271S-400*/C3						
GH-271S-420*/C3						
GH-271S-440*/C3						
GH-271S-460*/C3						
GH-271S-200*/C4	1,697,715	862,258	1,211,243	1,026,492	454,716	538,922
GH-271S-220*/C4	2,169,947	1,158,979	1,727,410	1,025,351	453,973	537,674
GH-271S-240*/C4	2,687,141	1,482,474	2,292,743	1,024,094	453,150	536,302
GH-271S-250*/C4						
GH-271S-280*/C4						
GH-271S-300*/C4						
GH-271S-320*/C4						
GH-271S-340*/C4						

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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/C4						
GH-271S-380*/C4						
GH-271S-400*/C4						
GH-271S-420*/C4						
GH-271S-440*/C4						
GH-271S-460*/C4						
GH-350S-220*/C1	2,681,777	1,065,179	1,101,334	2,305,629	868,914	864,470
GH-350S-250*/C1	3,720,475	1,749,758	2,236,691	2,303,116	866,241	861,718
GH-350S-280*/C1	4,891,765	2,493,230	3,516,987	2,300,275	863,222	858,611
GH-350S-300*/C1						
GH-350S-320*/C1						
GH-350S-350*/C1						
GH-350S-380*/C1						
GH-350S-400*/C1						
GH-350S-420*/C1						
GH-350S-440*/C1						
GH-350S-460*/C1						
GH-350S-480*/C1						
GH-350S-500*/C1						

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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/O1						
GH-065S-060*/O1						
GH-065S-050*/O2						
GH-065S-060*/O2						
GH-065S-070*/O2						
GH-065S-080*/O2						
GH-065S-090*/O2						
GH-065S-070*/O3						
GH-065S-050*/O4						
GH-065S-060*/O4						
GH-065S-070*/O4						
GH-085S-050*/O1						
GH-085S-060*/O1						
GH-085S-070*/O1						
GH-085S-050*/O2						
GH-085S-060*/O2						
GH-085S-070*/O2						
GH-085S-060*/O3						
GH-085S-070*/O3						
GH-085S-080*/O3						
GH-085S-090*/O3						
GH-085S-050*/O4						
GH-085S-060*/O4						
GH-085S-070*/O4						
GH-085S-080*/O4						
GH-085S-090*/O4						
GH-085S-050*/O5						
GH-085S-060*/O5						
GH-085S-070*/O5						
GH-085S-080*/O5						
GH-085S-090*/O5						
GH-085S-050*/O6						
GH-085S-060*/O6						
GH-085S-070*/O6						
GH-085S-080*/O6						
GH-085S-090*/O6						
GH-085S-050*/O7						
GH-085S-060*/O7						
GH-085S-070*/O7						
GH-085S-080*/O7						
GH-085S-090*/O7						
GH-100S-070*/O1						
GH-100S-080*/O1						
GH-100S-090*/O1						
GH-100S-110*/O1						
GH-100S-080*/O2						

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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/O2						
GH-100S-110*/O2						
GH-130S-070*/O1						
GH-130S-080*/O1						
GH-130S-090*/O1						
GH-130S-100*/O1						
GH-130S-110*/O1						
GH-130S-125*/O1						
GH-130S-080*/O2						
GH-130S-090*/O2						
GH-130S-100*/O2						
GH-130S-110*/O2						
GH-130S-125*/O2						
GH-130S-070*/O3						
GH-130S-080*/O3						
GH-130S-090*/O3						
GH-130S-100*/O3						
GH-130S-110*/O3						
GH-130S-125*/O3						
GH-130S-080*/O4						
GH-130S-090*/O4						
GH-130S-100*/O4						
GH-130S-110*/O4						
GH-130S-125*/O4						
GH-130S-080*/O5						
GH-130S-090*/O5						
GH-130S-100*/O5						
GH-130S-110*/O5						
GH-130S-125*/O5						
GH-130S-140*/O5						
GH-130S-090*/O6						
GH-130S-100*/O6						
GH-130S-110*/O6						
GH-130S-125*/O6						
GH-130S-140*/O6						
GH-161S-110F/O2						
GH-161S-110F/O3						
GH-161S-110F/O4						
GH-161S-110F/O5						
GH-161S-125F/O2						
GH-161S-125F/O3						
GH-161S-125F/O4						
GH-161S-125F/O5						
GH-161S-140F/O2						
GH-161S-140F/O3						
GH-161S-140F/O4						

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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5						
GH-161S-160F/O2						
GH-161S-160F/O3						
GH-161S-160F/O4						
GH-161S-160F/O5						
GH-161S-180F/O2						
GH-161S-180F/O3						
GH-161S-180F/O4						
GH-161S-180F/O5						
GH-161S-200F/O3						
GH-161S-200F/O4						
GH-161S-200F/O5						
GH-161S-210F/O4						
GH-161S-210F/O5						
GH-161S-220F/O4						
GH-161S-220F/O5						
GH-200S-110*/O1						
GH-200S-125*/O1						
GH-200S-140*/O1						
GH-200S-160*/O1						
GH-200S-180*/O1						
GH-200S-125*/O2						
GH-200S-140*/O2						
GH-200S-160*/O2						
GH-200S-180*/O2						
GH-201S-200*/O3						
GH-201S-160*/O7						
GH-201S-200*/O7						
GH-270S-200*/O0						
GH-270S-220*/O0						
GH-270S-240*/O0						
GH-270S-200*/O2						
GH-270S-220*/O2						
GH-270S-240*/O2						
GH-270S-250*/O2						
GH-270S-280*/O2						
GH-270S-220*/O3						
GH-270S-250*/O3						
GH-270S-280*/O3						
GH-270S-200*/O4						
GH-270S-220*/O4						
GH-270S-240*/O4						
GH-271S-200*/O0						
GH-271S-220*/O0						
GH-271S-240*/O0						
GH-271S-250*/O0						

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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/O0						
GH-271S-300*/O0						
GH-271S-320*/O0						
GH-271S-340*/O0						
GH-271S-360*/O0						
GH-271S-380*/O0						
GH-271S-400*/O0	1,069,463	482,720	585,902	864,435	303,103	300,403
GH-271S-420*/O0	1,067,232	481,260	583,459	1,016,234	424,243	466,337
GH-271S-440*/O0	1,064,887	479,737	580,901	1,175,433	529,231	640,352
GH-271S-460*/O0	1,062,435	478,144	578,219	1,342,039	636,555	822,465
GH-271S-200*/O2						
GH-271S-220*/O2						
GH-271S-240*/O2						
GH-271S-250*/O2						
GH-271S-280*/O2						
GH-271S-300*/O2						
GH-271S-320*/O2						
GH-271S-340*/O2						
GH-271S-360*/O2						
GH-271S-380*/O2						
GH-271S-400*/O2						
GH-271S-420*/O2						
GH-271S-440*/O2	1,383,788	578,857	637,927	1,117,770	264,372	255,079
GH-271S-460*/O2	1,381,337	577,211	635,254	1,284,377	441,608	437,200
GH-271S-200*/O3						
GH-271S-220*/O3						
GH-271S-240*/O3						
GH-271S-250*/O3						
GH-271S-280*/O3						
GH-271S-300*/O3						
GH-271S-320*/O3						
GH-271S-340*/O3						
GH-271S-360*/O3						
GH-271S-380*/O3						
GH-271S-400*/O3						
GH-271S-420*/O3						
GH-271S-440*/O3						
GH-271S-460*/O3	1,478,881	642,122	741,870	1,176,566	326,920	319,353
GH-271S-200*/O4						
GH-271S-220*/O4						
GH-271S-240*/O4						
GH-271S-250*/O4						
GH-271S-280*/O4						
GH-271S-300*/O4						
GH-271S-320*/O4						
GH-271S-340*/O4						



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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/O4						
GH-271S-380*/O4	1,012,269	445,387	523,380	785,601	219,251	214,241
GH-271S-400*/O4	1,010,145	443,998	521,061	929,993	364,970	372,077
GH-271S-420*/O4	1,007,915	442,529	518,619	1,081,792	467,913	538,002
GH-271S-440*/O4	1,005,569	440,997	516,061	1,240,999	571,688	712,016
GH-271S-460*/O4	1,003,117	439,387	513,379	1,407,606	678,437	894,129
GH-350S-220*/O1						
GH-350S-250*/O1						
GH-350S-280*/O1						
GH-350S-300*/O1						
GH-350S-320*/O1						
GH-350S-350*/O1						
GH-350S-380*/O1						
GH-350S-400*/O1						
GH-350S-420*/O1						
GH-350S-440*/O1						
GH-350S-460*/O1						
GH-350S-480*/O1						
GH-350S-500*/O1	2,269,651	830,643	825,138	2,148,573	535,143	518,512

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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/O1						
GH-065S-060*/O1	8,656	4,417	6,249	4,390	1,275	1,248
GH-065S-050*/O2						
GH-065S-060*/O2						
GH-065S-070*/O2						
GH-065S-080*/O2	13,966	7,019	9,745	9,187	3,726	3,947
GH-065S-090*/O2	13,807	6,921	9,577	14,427	7,116	9,665
GH-065S-070*/O3						
GH-065S-050*/O4						
GH-065S-060*/O4						
GH-065S-070*/O4						
GH-085S-050*/O1						
GH-085S-060*/O1						
GH-085S-070*/O1	12,488	6,072	8,090	11,108	4,983	6,001
GH-085S-050*/O2						
GH-085S-060*/O2						
GH-085S-070*/O2						
GH-085S-060*/O3						
GH-085S-070*/O3						
GH-085S-080*/O3						
GH-085S-090*/O3						
GH-085S-050*/O4						
GH-085S-060*/O4						
GH-085S-070*/O4						
GH-085S-080*/O4						
GH-085S-090*/O4	23,242	11,302	15,073	16,648	6,585	6,780
GH-085S-050*/O5						
GH-085S-060*/O5						
GH-085S-070*/O5						
GH-085S-080*/O5						
GH-085S-090*/O5						
GH-085S-050*/O6						
GH-085S-060*/O6						
GH-085S-070*/O6						
GH-085S-080*/O6						
GH-085S-090*/O6						
GH-085S-050*/O7						
GH-085S-060*/O7						
GH-085S-070*/O7						
GH-085S-080*/O7						
GH-085S-090*/O7						
GH-100S-070*/O1						
GH-100S-080*/O1						
GH-100S-090*/O1						
GH-100S-110*/O1						
GH-100S-080*/O2						



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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/O2						
GH-100S-110*/O2						
GH-130S-070*/O1						
GH-130S-080*/O1						
GH-130S-090*/O1						
GH-130S-100*/O1						
GH-130S-110*/O1						
GH-130S-125*/O1						
GH-130S-080*/O2						
GH-130S-090*/O2						
GH-130S-100*/O2						
GH-130S-110*/O2						
GH-130S-125*/O2						
GH-130S-070*/O3						
GH-130S-080*/O3						
GH-130S-090*/O3						
GH-130S-100*/O3						
GH-130S-110*/O3						
GH-130S-125*/O3	74,506	37,996	53,653	44,094	17,232	17,489
GH-130S-080*/O4						
GH-130S-090*/O4						
GH-130S-100*/O4						
GH-130S-110*/O4						
GH-130S-125*/O4						
GH-130S-080*/O5						
GH-130S-090*/O5						
GH-130S-100*/O5						
GH-130S-110*/O5						
GH-130S-125*/O5						
GH-130S-140*/O5						
GH-130S-090*/O6						
GH-130S-100*/O6						
GH-130S-110*/O6						
GH-130S-125*/O6						
GH-130S-140*/O6						
GH-161S-110F/O2						
GH-161S-110F/O3						
GH-161S-110F/O4						
GH-161S-110F/O5						
GH-161S-125F/O2						
GH-161S-125F/O3						
GH-161S-125F/O4						
GH-161S-125F/O5						
GH-161S-140F/O2						
GH-161S-140F/O3						
GH-161S-140F/O4						

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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5						
GH-161S-160F/O2						
GH-161S-160F/O3						
GH-161S-160F/O4						
GH-161S-160F/O5						
GH-161S-180F/O2						
GH-161S-180F/O3						
GH-161S-180F/O4						
GH-161S-180F/O5						
GH-161S-200F/O3						
GH-161S-200F/O4						
GH-161S-200F/O5						
GH-161S-210F/O4						
GH-161S-210F/O5						
GH-161S-220F/O4						
GH-161S-220F/O5						
GH-200S-110*/O1						
GH-200S-125*/O1						
GH-200S-140*/O1						
GH-200S-160*/O1						
GH-200S-180*/O1						
GH-200S-125*/O2						
GH-200S-140*/O2						
GH-200S-160*/O2						
GH-200S-180*/O2						
GH-201S-200*/O3						
GH-201S-160*/O7						
GH-201S-200*/O7						
GH-270S-200*/O0						
GH-270S-220*/O0						
GH-270S-240*/O0						
GH-270S-200*/O2						
GH-270S-220*/O2						
GH-270S-240*/O2						
GH-270S-250*/O2						
GH-270S-280*/O2						
GH-270S-220*/O3						
GH-270S-250*/O3						
GH-270S-280*/O3						
GH-270S-200*/O4						
GH-270S-220*/O4						
GH-270S-240*/O4						
GH-271S-200*/O0						
GH-271S-220*/O0						
GH-271S-240*/O0						
GH-271S-250*/O0						



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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/O0						
GH-271S-300*/O0						
GH-271S-320*/O0	1,077,313	487,800	594,478	812,163	247,511	243,281
GH-271S-340*/O0	1,075,517	486,641	592,513	996,338	410,799	444,582
GH-271S-360*/O0	1,073,605	485,402	590,425	1,191,665	539,763	658,098
GH-271S-380*/O0	1,071,587	484,101	588,221	1,398,153	672,418	883,800
GH-271S-400*/O0	1,069,463	482,720	585,902	1,615,811	810,569	1,121,709
GH-271S-420*/O0	1,067,232	481,260	583,459	1,844,629	954,801	1,371,822
GH-271S-440*/O0	1,064,887	479,737	580,901	2,084,599	1,105,503	1,634,132
GH-271S-460*/O0	1,062,435	478,144	578,219	2,335,739	1,262,825	1,908,638
GH-271S-200*/O2						
GH-271S-220*/O2						
GH-271S-240*/O2						
GH-271S-250*/O2						
GH-271S-280*/O2						
GH-271S-300*/O2						
GH-271S-320*/O2						
GH-271S-340*/O2						
GH-271S-360*/O2	1,392,506	584,716	647,459	1,133,993	281,640	272,824
GH-271S-380*/O2	1,390,488	583,362	645,255	1,340,490	501,298	498,536
GH-271S-400*/O2	1,388,364	581,937	642,936	1,558,139	659,018	736,444
GH-271S-420*/O2	1,386,134	580,432	640,493	1,786,958	809,304	986,549
GH-271S-440*/O2	1,383,788	578,857	637,927	2,026,937	963,705	1,248,859
GH-271S-460*/O2	1,381,337	577,211	635,254	2,278,077	1,123,603	1,523,373
GH-271S-200*/O3						
GH-271S-220*/O3						
GH-271S-240*/O3						
GH-271S-250*/O3						
GH-271S-280*/O3						
GH-271S-300*/O3						
GH-271S-320*/O3						
GH-271S-340*/O3						
GH-271S-360*/O3						
GH-271S-380*/O3	1,488,032	648,167	751,880	1,232,679	386,610	380,688
GH-271S-400*/O3	1,485,908	646,769	749,552	1,450,328	586,061	618,597
GH-271S-420*/O3	1,483,678	645,290	747,110	1,679,147	739,011	868,701
GH-271S-440*/O3	1,481,332	643,742	744,552	1,919,126	894,598	1,131,011
GH-271S-460*/O3	1,478,881	642,122	741,870	2,170,266	1,055,107	1,405,526
GH-271S-200*/O4						
GH-271S-220*/O4						
GH-271S-240*/O4						
GH-271S-250*/O4						
GH-271S-280*/O4						
GH-271S-300*/O4						
GH-271S-320*/O4	1,017,987	449,140	529,638	877,729	317,255	314,945
GH-271S-340*/O4	1,016,190	447,963	527,673	1,061,895	454,760	516,255



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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/O4	1,014,287	446,715	525,584	1,257,231	582,123	729,762
GH-271S-380*/O4	1,012,269	445,387	523,380	1,463,719	714,149	955,465
GH-271S-400*/O4	1,010,145	443,998	521,061	1,681,377	851,947	1,193,373
GH-271S-420*/O4	1,007,915	442,529	518,619	1,910,195	996,019	1,443,487
GH-271S-440*/O4	1,005,569	440,997	516,061	2,150,166	1,146,588	1,705,796
GH-271S-460*/O4	1,003,117	439,387	513,379	2,401,306	1,303,813	1,980,311
GH-350S-220*/O1						
GH-350S-250*/O1						
GH-350S-280*/O1						
GH-350S-300*/O1						
GH-350S-320*/O1						
GH-350S-350*/O1						
GH-350S-380*/O1						
GH-350S-400*/O1						
GH-350S-420*/O1	2,282,785	844,618	839,494	2,341,404	740,259	729,275
GH-350S-440*/O1	2,279,714	841,352	836,139	2,655,862	1,047,017	1,073,003
GH-350S-460*/O1	2,276,501	837,927	832,625	2,984,951	1,271,092	1,432,724
GH-350S-480*/O1	2,273,147	834,360	828,961	3,328,670	1,496,883	1,808,421
GH-350S-500*/O1	2,269,651	830,643	825,138	3,687,010	1,728,251	2,200,111

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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/O1						
GH-065S-060*/O1	8,656	4,417	6,249	8,196	4,018	5,408
GH-065S-050*/O2						
GH-065S-060*/O2						
GH-065S-070*/O2	14,099	7,107	9,895	9,754	4,107	4,558
GH-065S-080*/O2	13,966	7,019	9,745	15,949	8,090	11,338
GH-065S-090*/O2	13,807	6,921	9,577	22,985	12,497	19,020
GH-065S-070*/O3						
GH-065S-050*/O4						
GH-065S-060*/O4						
GH-065S-070*/O4						
GH-085S-050*/O1						
GH-085S-060*/O1	12,648	6,169	8,267	10,842	4,806	5,709
GH-085S-070*/O1	12,488	6,072	8,090	17,958	9,338	13,489
GH-085S-050*/O2						
GH-085S-060*/O2						
GH-085S-070*/O2	20,702	9,957	13,090	12,904	3,638	3,558
GH-085S-060*/O3						
GH-085S-070*/O3						
GH-085S-080*/O3						
GH-085S-090*/O3	33,252	15,799	20,463	22,525	7,160	7,063
GH-085S-050*/O4						
GH-085S-060*/O4						
GH-085S-070*/O4						
GH-085S-080*/O4	23,446	11,435	15,303	18,675	7,966	8,992
GH-085S-090*/O4	23,242	11,302	15,073	27,968	13,949	19,162
GH-085S-050*/O5						
GH-085S-060*/O5						
GH-085S-070*/O5						
GH-085S-080*/O5						
GH-085S-090*/O5						
GH-085S-050*/O6						
GH-085S-060*/O6						
GH-085S-070*/O6						
GH-085S-080*/O6						
GH-085S-090*/O6						
GH-085S-050*/O7						
GH-085S-060*/O7						
GH-085S-070*/O7						
GH-085S-080*/O7						
GH-085S-090*/O7						
GH-100S-070*/O1						
GH-100S-080*/O1						
GH-100S-090*/O1						
GH-100S-110*/O1	55,822	24,428	28,508	49,228	17,994	17,879
GH-100S-080*/O2						



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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/O2						
GH-100S-110*/O2						
GH-130S-070*/O1						
GH-130S-080*/O1						
GH-130S-090*/O1						
GH-130S-100*/O1						
GH-130S-110*/O1	83,702	41,492	56,618	45,378	11,400	11,055
GH-130S-125*/O1	83,250	41,209	56,131	75,771	35,191	44,280
GH-130S-080*/O2						
GH-130S-090*/O2						
GH-130S-100*/O2						
GH-130S-110*/O2						
GH-130S-125*/O2	103,094	49,361	64,522	67,283	20,649	20,312
GH-130S-070*/O3						
GH-130S-080*/O3						
GH-130S-090*/O3						
GH-130S-100*/O3						
GH-130S-110*/O3	74,957	38,279	54,140	47,883	19,843	21,622
GH-130S-125*/O3	74,506	37,996	53,653	78,276	39,430	54,848
GH-130S-080*/O4						
GH-130S-090*/O4						
GH-130S-100*/O4						
GH-130S-110*/O4	84,746	44,440	64,849	37,058	10,046	9,789
GH-130S-125*/O4	84,303	44,165	64,354	67,452	32,562	43,015
GH-130S-080*/O5						
GH-130S-090*/O5						
GH-130S-100*/O5						
GH-130S-110*/O5						
GH-130S-125*/O5						
GH-130S-140*/O5	110,820	55,795	77,541	87,835	39,536	47,829
GH-130S-090*/O6						
GH-130S-100*/O6						
GH-130S-110*/O6						
GH-130S-125*/O6						
GH-130S-140*/O6						
GH-161S-110F/O2						
GH-161S-110F/O3						
GH-161S-110F/O4						
GH-161S-110F/O5						
GH-161S-125F/O2						
GH-161S-125F/O3						
GH-161S-125F/O4						
GH-161S-125F/O5						
GH-161S-140F/O2	143,584	74,816	108,339	97,361	43,711	52,699
GH-161S-140F/O3	166,947	89,472	133,877	71,538	24,713	24,473
GH-161S-140F/O4						



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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5						
GH-161S-160F/O2						
GH-161S-160F/O3						
GH-161S-160F/O4						
GH-161S-160F/O5						
GH-161S-180F/O2						
GH-161S-180F/O3						
GH-161S-180F/O4						
GH-161S-180F/O5						
GH-161S-200F/O3						
GH-161S-200F/O4						
GH-161S-200F/O5						
GH-161S-210F/O4						
GH-161S-210F/O5						
GH-161S-220F/O4						
GH-161S-220F/O5						
GH-200S-110*/O1						
GH-200S-125*/O1						
GH-200S-140*/O1						
GH-200S-160*/O1	282,020	146,090	210,108	129,124	33,580	32,650
GH-200S-180*/O1	280,657	145,241	208,621	221,357	104,235	133,460
GH-200S-125*/O2						
GH-200S-140*/O2						
GH-200S-160*/O2						
GH-200S-180*/O2						
GH-201S-200*/O3						
GH-201S-160*/O7						
GH-201S-200*/O7						
GH-270S-200*/O0						
GH-270S-220*/O0						
GH-270S-240*/O0						
GH-270S-200*/O2						
GH-270S-220*/O2						
GH-270S-240*/O2						
GH-270S-250*/O2						
GH-270S-280*/O2						
GH-270S-220*/O3						
GH-270S-250*/O3						
GH-270S-280*/O3						
GH-270S-200*/O4						
GH-270S-220*/O4						
GH-270S-240*/O4						
GH-271S-200*/O0						
GH-271S-220*/O0						
GH-271S-240*/O0						
GH-271S-250*/O0						



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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/O0	1,080,579	489,916	598,045	845,494	282,958	279,701
GH-271S-300*/O0	1,079,004	488,898	596,319	1,061,807	454,707	516,158
GH-271S-320*/O0	1,077,313	487,800	594,478	1,293,050	605,161	768,909
GH-271S-340*/O0	1,075,517	486,641	592,513	1,539,207	762,050	1,037,981
GH-271S-360*/O0	1,073,605	485,402	590,425	1,800,287	926,930	1,323,346
GH-271S-380*/O0	1,071,587	484,101	588,221	2,076,280	1,100,281	1,625,033
GH-271S-400*/O0	1,069,463	482,720	585,902	2,367,186	1,282,483	1,943,014
GH-271S-420*/O0	1,067,232	481,260	583,459	2,673,024	1,473,650	2,277,307
GH-271S-440*/O0						
GH-271S-460*/O0						
GH-271S-200*/O2						
GH-271S-220*/O2						
GH-271S-240*/O2						
GH-271S-250*/O2						
GH-271S-280*/O2						
GH-271S-300*/O2						
GH-271S-320*/O2	1,396,215	587,212	651,504	1,235,379	389,486	383,645
GH-271S-340*/O2	1,394,418	585,999	649,539	1,481,536	607,409	652,707
GH-271S-360*/O2	1,392,506	584,716	647,459	1,742,615	780,468	938,082
GH-271S-380*/O2	1,390,488	583,362	645,255	2,018,608	958,377	1,239,760
GH-271S-400*/O2	1,388,364	581,937	642,936	2,309,524	1,143,517	1,557,741
GH-271S-420*/O2	1,386,134	580,432	640,493	2,615,352	1,336,782	1,892,034
GH-271S-440*/O2						
GH-271S-460*/O2						
GH-271S-200*/O3						
GH-271S-220*/O3						
GH-271S-240*/O3						
GH-271S-250*/O3						
GH-271S-280*/O3						
GH-271S-300*/O3						
GH-271S-320*/O3	1,493,759	651,920	758,129	1,127,568	274,798	265,797
GH-271S-340*/O3	1,491,962	650,743	756,164	1,373,725	532,284	534,860
GH-271S-360*/O3	1,490,050	649,495	754,084	1,634,804	709,874	820,234
GH-271S-380*/O3	1,488,032	648,167	751,880	1,910,797	889,235	1,121,912
GH-271S-400*/O3	1,485,908	646,769	749,552	2,201,713	1,075,118	1,439,902
GH-271S-420*/O3	1,483,678	645,290	747,110	2,507,541	1,268,764	1,774,195
GH-271S-440*/O3	1,481,332	643,742	744,552	2,828,293	1,470,773	2,124,791
GH-271S-460*/O3						
GH-271S-200*/O4						
GH-271S-220*/O4						
GH-271S-240*/O4						
GH-271S-250*/O4						
GH-271S-280*/O4	1,021,261	451,291	533,205	911,052	351,401	351,366
GH-271S-300*/O4	1,019,677	450,255	531,479	1,127,373	497,881	587,823
GH-271S-320*/O4	1,017,987	449,140	529,638	1,358,617	647,158	840,582
GH-271S-340*/O4	1,016,190	447,963	527,673	1,604,774	803,577	1,109,645



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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/O4	1,014,287	446,715	525,584	1,865,844	968,148	1,395,020
GH-271S-380*/O4	1,012,269	445,387	523,380	2,141,846	1,141,375	1,696,698
GH-271S-400*/O4	1,010,145	443,998	521,061	2,432,753	1,323,470	2,014,679
GH-271S-420*/O4	1,007,915	442,529	518,619	2,738,590	1,514,629	2,348,971
GH-271S-440*/O4						
GH-271S-460*/O4						
GH-350S-220*/O1						
GH-350S-250*/O1						
GH-350S-280*/O1						
GH-350S-300*/O1						
GH-350S-320*/O1						
GH-350S-350*/O1	2,292,406	854,850	850,008	2,109,798	493,890	476,117
GH-350S-380*/O1	2,288,494	850,690	845,742	2,644,949	1,039,299	1,061,081
GH-350S-400*/O1	2,285,715	847,725	842,698	3,026,160	1,298,494	1,477,765
GH-350S-420*/O1	2,282,785	844,618	839,494	3,426,922	1,560,600	1,915,816
GH-350S-440*/O1	2,279,714	841,352	836,139	3,847,226	1,830,831	2,375,240
GH-350S-460*/O1	2,276,501	837,927	832,625	4,287,082	2,110,930	2,856,031
GH-350S-480*/O1	2,273,147	834,360	828,961	4,746,489	2,401,571	3,358,187
GH-350S-500*/O1	2,269,651	830,643	825,138	5,225,447	2,703,373	3,881,718

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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/O1	8,753	4,478	6,355	6,293	2,797	3,328
GH-065S-060*/O1	8,656	4,417	6,249	12,002	6,417	9,568
GH-065S-050*/O2						
GH-065S-060*/O2	14,223	7,178	10,028	8,178	2,868	2,841
GH-065S-070*/O2	14,099	7,107	9,895	14,931	7,443	10,223
GH-065S-080*/O2	13,966	7,019	9,745	22,720	12,329	18,728
GH-065S-090*/O2	13,807	6,921	9,577	31,544	17,843	28,384
GH-065S-070*/O3						
GH-065S-050*/O4						
GH-065S-060*/O4						
GH-065S-070*/O4	17,861	9,329	13,550	11,232	4,894	5,673
GH-085S-050*/O1	12,780	6,257	8,408	8,320	2,983	2,956
GH-085S-060*/O1	12,648	6,169	8,267	15,878	8,028	11,214
GH-085S-070*/O1	12,488	6,072	8,090	24,809	13,621	20,976
GH-085S-050*/O2						
GH-085S-060*/O2						
GH-085S-070*/O2	20,702	9,957	13,090	19,755	8,992	11,046
GH-085S-060*/O3						
GH-085S-070*/O3						
GH-085S-080*/O3	33,465	15,931	20,693	22,171	6,789	6,673
GH-085S-090*/O3	33,252	15,799	20,463	33,845	15,595	19,436
GH-085S-050*/O4						
GH-085S-060*/O4						
GH-085S-070*/O4	23,632	11,550	15,498	17,321	7,045	7,514
GH-085S-080*/O4	23,446	11,435	15,303	27,623	13,719	18,772
GH-085S-090*/O4	23,242	11,302	15,073	39,297	21,065	31,535
GH-085S-050*/O5						
GH-085S-060*/O5						
GH-085S-070*/O5						
GH-085S-080*/O5						
GH-085S-090*/O5	36,111	17,622	23,587	30,686	13,550	15,993
GH-085S-050*/O6						
GH-085S-060*/O6						
GH-085S-070*/O6						
GH-085S-080*/O6						
GH-085S-090*/O6	44,174	21,410	28,411	25,809	6,443	6,249
GH-085S-050*/O7						
GH-085S-060*/O7						
GH-085S-070*/O7						
GH-085S-080*/O7						
GH-085S-090*/O7						
GH-100S-070*/O1						
GH-100S-080*/O1						
GH-100S-090*/O1						
GH-100S-110*/O1	55,822	24,428	28,508	69,363	31,978	39,881
GH-100S-080*/O2						



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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/O2						
GH-100S-110*/O2	65,796	30,889	39,404	58,344	24,773	27,836
GH-130S-070*/O1						
GH-130S-080*/O1						
GH-130S-090*/O1						
GH-130S-100*/O1	83,330	41,262	56,220	48,502	14,736	14,480
GH-130S-110*/O1	83,702	41,492	56,618	71,842	32,650	39,988
GH-130S-125*/O1	83,250	41,209	56,131	109,944	56,866	81,639
GH-130S-080*/O2						
GH-130S-090*/O2						
GH-130S-100*/O2						
GH-130S-110*/O2	103,545	49,644	65,009	63,354	16,471	16,020
GH-130S-125*/O2	103,094	49,361	64,522	101,465	46,546	57,671
GH-130S-070*/O3						
GH-130S-080*/O3						
GH-130S-090*/O3						
GH-130S-100*/O3	74,585	38,049	53,742	51,016	21,941	25,048
GH-130S-110*/O3	74,957	38,279	54,140	74,346	36,943	50,555
GH-130S-125*/O3	74,506	37,996	53,653	112,458	60,893	92,207
GH-130S-080*/O4						
GH-130S-090*/O4						
GH-130S-100*/O4	84,383	44,209	64,442	40,191	13,373	13,214
GH-130S-110*/O4	84,746	44,440	64,849	63,522	30,057	38,722
GH-130S-125*/O4	84,303	44,165	64,354	101,633	54,113	80,374
GH-130S-080*/O5						
GH-130S-090*/O5						
GH-130S-100*/O5						
GH-130S-110*/O5						
GH-130S-125*/O5	111,325	56,105	78,099	87,737	39,474	47,723
GH-130S-140*/O5	110,820	55,795	77,541	130,708	66,850	94,694
GH-130S-090*/O6						
GH-130S-100*/O6						
GH-130S-110*/O6						
GH-130S-125*/O6						
GH-130S-140*/O6	148,834	71,682	94,376	113,688	46,059	48,768
GH-161S-110F/O2						
GH-161S-110F/O3						
GH-161S-110F/O4						
GH-161S-110F/O5						
GH-161S-125F/O2						
GH-161S-125F/O3						
GH-161S-125F/O4						
GH-161S-125F/O5						
GH-161S-140F/O2	143,584	74,816	108,339	97,361	43,711	52,699
GH-161S-140F/O3	166,947	89,472	133,877	124,895	61,362	82,795
GH-161S-140F/O4						

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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5						
GH-161S-160F/O2						
GH-161S-160F/O3						
GH-161S-160F/O4						
GH-161S-160F/O5						
GH-161S-180F/O2						
GH-161S-180F/O3						
GH-161S-180F/O4						
GH-161S-180F/O5						
GH-161S-200F/O3						
GH-161S-200F/O4						
GH-161S-200F/O5						
GH-161S-210F/O4						
GH-161S-210F/O5						
GH-161S-220F/O4						
GH-161S-220F/O5						
GH-200S-110*/O1						
GH-200S-125*/O1						
GH-200S-140*/O1	283,215	146,843	211,418	115,175	18,755	17,409
GH-200S-160*/O1	282,020	146,090	210,108	217,206	101,571	128,929
GH-200S-180*/O1	280,657	145,241	208,621	332,832	174,758	255,318
GH-200S-125*/O2						
GH-200S-140*/O2						
GH-200S-160*/O2						
GH-200S-180*/O2	382,857	194,867	274,435	266,284	114,954	131,858
GH-201S-200*/O3						
GH-201S-160*/O7						
GH-201S-200*/O7	532,930	263,159	357,305	318,450	100,660	99,164
GH-270S-200*/O0						
GH-270S-220*/O0						
GH-270S-240*/O0	1,083,411	491,748	601,143	728,098	158,083	151,392
GH-270S-200*/O2						
GH-270S-220*/O2						
GH-270S-240*/O2						
GH-270S-250*/O2						
GH-270S-280*/O2	1,399,481	589,407	655,079	1,155,996	305,041	296,872
GH-270S-220*/O3						
GH-270S-250*/O3						
GH-270S-280*/O3						
GH-270S-200*/O4						
GH-270S-220*/O4						
GH-270S-240*/O4	1,024,094	453,150	536,302	793,664	227,827	223,057
GH-271S-200*/O0						
GH-271S-220*/O0						
GH-271S-240*/O0	1,083,411	491,748	601,143	728,098	158,083	151,392
GH-271S-250*/O0	1,082,748	491,323	600,417	842,494	279,763	276,427

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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/O0	1,080,579	489,916	598,045	1,213,668	554,004	682,145
GH-271S-300*/O0	1,079,004	488,898	596,319	1,484,465	727,346	978,141
GH-271S-320*/O0	1,077,313	487,800	594,478	1,773,929	910,344	1,294,546
GH-271S-340*/O0	1,075,517	486,641	592,513	2,082,077	1,103,919	1,631,370
GH-271S-360*/O0	1,073,605	485,402	590,425	2,408,900	1,308,557	1,988,604
GH-271S-380*/O0	1,071,587	484,101	588,221	2,754,398	1,524,489	2,366,257
GH-271S-400*/O0						
GH-271S-420*/O0						
GH-271S-440*/O0						
GH-271S-460*/O0						
GH-271S-200*/O2						
GH-271S-220*/O2						
GH-271S-240*/O2						
GH-271S-250*/O2						
GH-271S-280*/O2	1,399,481	589,407	655,079	1,155,996	305,041	296,872
GH-271S-300*/O2	1,397,896	588,345	653,354	1,426,794	569,776	592,867
GH-271S-320*/O2	1,396,215	587,212	651,504	1,716,267	763,306	909,273
GH-271S-340*/O2	1,394,418	585,999	649,539	2,024,405	962,094	1,246,097
GH-271S-360*/O2	1,392,506	584,716	647,459	2,351,228	1,169,945	1,603,340
GH-271S-380*/O2	1,390,488	583,362	645,255	2,696,726	1,388,072	1,980,984
GH-271S-400*/O2						
GH-271S-420*/O2						
GH-271S-440*/O2						
GH-271S-460*/O2						
GH-271S-200*/O3						
GH-271S-220*/O3						
GH-271S-240*/O3						
GH-271S-250*/O3						
GH-271S-280*/O3						
GH-271S-300*/O3	1,495,449	653,026	759,978	1,318,983	478,418	475,020
GH-271S-320*/O3	1,493,759	651,920	758,129	1,608,447	692,456	791,434
GH-271S-340*/O3	1,491,962	650,743	756,164	1,916,595	892,970	1,128,249
GH-271S-360*/O3	1,490,050	649,495	754,084	2,243,417	1,101,644	1,485,492
GH-271S-380*/O3	1,488,032	648,167	751,880	2,588,915	1,320,098	1,863,136
GH-271S-400*/O3						
GH-271S-420*/O3						
GH-271S-440*/O3						
GH-271S-460*/O3						
GH-271S-200*/O4						
GH-271S-220*/O4						
GH-271S-240*/O4	1,024,094	453,150	536,302	793,664	227,827	223,057
GH-271S-250*/O4	1,023,421	452,707	535,577	908,052	349,233	348,091
GH-271S-280*/O4	1,021,261	451,291	533,205	1,279,234	596,275	753,810
GH-271S-300*/O4	1,019,677	450,255	531,479	1,550,023	768,900	1,049,805
GH-271S-320*/O4	1,017,987	449,140	529,638	1,839,496	951,580	1,366,211
GH-271S-340*/O4	1,016,190	447,963	527,673	2,147,643	1,145,004	1,703,035

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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/O4	1,014,287	446,715	525,584	2,474,466	1,349,536	2,060,269
GH-271S-380*/O4	1,012,269	445,387	523,380	2,819,964	1,565,388	2,437,921
GH-271S-400*/O4						
GH-271S-420*/O4						
GH-271S-440*/O4						
GH-271S-460*/O4						
GH-350S-220*/O1						
GH-350S-250*/O1						
GH-350S-280*/O1						
GH-350S-300*/O1						
GH-350S-320*/O1	2,295,991	858,664	853,929	2,248,763	641,715	628,023
GH-350S-350*/O1	2,292,406	854,850	850,008	2,863,625	1,189,859	1,300,104
GH-350S-380*/O1	2,288,494	850,690	845,742	3,533,556	1,629,556	2,032,371
GH-350S-400*/O1	2,285,715	847,725	842,698	4,010,762	1,935,225	2,553,990
GH-350S-420*/O1	2,282,785	844,618	839,494	4,512,440	2,253,684	3,102,356
GH-350S-440*/O1	2,279,714	841,352	836,139	5,038,590	2,585,853	3,677,469
GH-350S-460*/O1						
GH-350S-480*/O1						
GH-350S-500*/O1						



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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/O1	8,753	4,478	6,355	8,930	4,487	6,213
GH-065S-060*/O1	8,656	4,417	6,249	15,807	8,789	13,728
GH-065S-050*/O2						
GH-065S-060*/O2	14,223	7,178	10,028	11,984	5,558	7,001
GH-065S-070*/O2	14,099	7,107	9,895	20,109	10,701	15,878
GH-065S-080*/O2	13,966	7,019	9,745	29,482	16,551	26,127
GH-065S-090*/O2						
GH-065S-070*/O3						
GH-065S-050*/O4						
GH-065S-060*/O4	17,976	9,408	13,683	8,284	2,505	2,461
GH-065S-070*/O4	17,861	9,329	13,550	16,409	8,213	11,338
GH-085S-050*/O1	12,780	6,257	8,408	11,816	5,443	6,780
GH-085S-060*/O1	12,648	6,169	8,267	20,905	11,187	16,719
GH-085S-070*/O1	12,488	6,072	8,090	31,659	17,896	28,464
GH-085S-050*/O2						
GH-085S-060*/O2	20,861	10,054	13,258	15,861	6,417	6,789
GH-085S-070*/O2	20,702	9,957	13,090	26,605	13,365	18,533
GH-085S-060*/O3						
GH-085S-070*/O3						
GH-085S-080*/O3	33,465	15,931	20,693	31,119	13,825	16,454
GH-085S-090*/O3	33,252	15,799	20,463	45,174	22,808	31,818
GH-085S-050*/O4						
GH-085S-060*/O4	23,791	11,656	15,675	13,418	3,354	3,257
GH-085S-070*/O4	23,632	11,550	15,498	24,171	11,524	15,002
GH-085S-080*/O4	23,446	11,435	15,303	36,571	19,357	28,553
GH-085S-090*/O4	23,242	11,302	15,073	50,617	28,145	43,917
GH-085S-050*/O5						
GH-085S-060*/O5						
GH-085S-070*/O5						
GH-085S-080*/O5	36,315	17,755	23,809	27,960	11,745	13,002
GH-085S-090*/O5	36,111	17,622	23,587	42,015	20,808	28,367
GH-085S-050*/O6						
GH-085S-060*/O6						
GH-085S-070*/O6						
GH-085S-080*/O6						
GH-085S-090*/O6	44,174	21,410	28,411	37,138	16,117	18,631
GH-085S-050*/O7						
GH-085S-060*/O7						
GH-085S-070*/O7						
GH-085S-080*/O7						
GH-085S-090*/O7						
GH-100S-070*/O1						
GH-100S-080*/O1						
GH-100S-090*/O1	56,211	24,676	28,924	49,954	18,764	18,657
GH-100S-110*/O1	55,822	24,428	28,508	89,490	44,811	61,884
GH-100S-080*/O2						



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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/O2						
GH-100S-110*/O2	65,796	30,889	39,404	78,471	37,819	49,839
GH-130S-070*/O1						
GH-130S-080*/O1						
GH-130S-090*/O1	83,693	41,492	56,618	45,803	11,860	11,533
GH-130S-100*/O1	83,330	41,262	56,220	70,381	31,703	38,386
GH-130S-110*/O1	83,702	41,492	56,618	98,305	49,529	68,921
GH-130S-125*/O1	83,250	41,209	56,131	144,126	78,294	118,998
GH-130S-080*/O2						
GH-130S-090*/O2						
GH-130S-100*/O2	103,173	49,414	64,610	61,893	14,922	14,418
GH-130S-110*/O2	103,545	49,644	65,009	89,826	38,952	44,944
GH-130S-125*/O2	103,094	49,361	64,522	135,638	68,319	95,022
GH-130S-070*/O3						
GH-130S-080*/O3						
GH-130S-090*/O3	74,948	38,279	54,131	48,316	20,135	22,100
GH-130S-100*/O3	74,585	38,049	53,742	72,886	36,023	48,953
GH-130S-110*/O3	74,957	38,279	54,140	100,819	53,600	79,489
GH-130S-125*/O3	74,506	37,996	53,653	146,630	82,232	129,566
GH-130S-080*/O4						
GH-130S-090*/O4	84,737	44,440	64,841	37,492	10,506	10,267
GH-130S-100*/O4	84,383	44,209	64,442	62,061	29,119	37,129
GH-130S-110*/O4	84,746	44,440	64,849	89,994	46,812	67,655
GH-130S-125*/O4	84,303	44,165	64,354	135,806	75,479	117,733
GH-130S-080*/O5						
GH-130S-090*/O5						
GH-130S-100*/O5						
GH-130S-110*/O5	111,776	56,388	78,586	76,099	31,801	35,005
GH-130S-125*/O5	111,325	56,105	78,099	121,910	61,300	85,082
GH-130S-140*/O5	110,820	55,795	77,541	173,581	93,756	141,559
GH-130S-090*/O6						
GH-130S-100*/O6						
GH-130S-110*/O6						
GH-130S-125*/O6	149,339	72,001	94,933	104,890	39,368	39,156
GH-130S-140*/O6	148,834	71,682	94,376	156,561	74,152	95,632
GH-161S-110F/O2						
GH-161S-110F/O3						
GH-161S-110F/O4						
GH-161S-110F/O5						
GH-161S-125F/O2	144,211	75,211	109,025	139,776	70,776	99,060
GH-161S-125F/O3	167,575	89,866	134,563	113,953	54,394	70,834
GH-161S-125F/O4						
GH-161S-125F/O5						
GH-161S-140F/O2	143,584	74,816	108,339	204,074	111,124	169,342
GH-161S-140F/O3	166,947	89,472	133,877	178,251	94,961	141,116
GH-161S-140F/O4	215,198	115,496	173,097	138,593	65,008	82,824

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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5						
GH-161S-160F/O2						
GH-161S-160F/O3						
GH-161S-160F/O4						
GH-161S-160F/O5						
GH-161S-180F/O2						
GH-161S-180F/O3						
GH-161S-180F/O4						
GH-161S-180F/O5						
GH-161S-200F/O3						
GH-161S-200F/O4						
GH-161S-200F/O5						
GH-161S-210F/O4						
GH-161S-210F/O5						
GH-161S-220F/O4						
GH-161S-220F/O5						
GH-200S-110*/O1						
GH-200S-125*/O1						
GH-200S-140*/O1	283,215	146,843	211,418	182,618	79,108	91,127
GH-200S-160*/O1	282,020	146,090	210,108	305,289	157,437	225,207
GH-200S-180*/O1	280,657	145,241	208,621	444,317	244,537	377,175
GH-200S-125*/O2						
GH-200S-140*/O2						
GH-200S-160*/O2	384,211	195,725	275,922	238,740	96,438	101,748
GH-200S-180*/O2	382,857	194,867	274,435	377,768	186,689	253,716
GH-201S-200*/O3						
GH-201S-160*/O7						
GH-201S-200*/O7	532,930	263,159	357,305	456,088	205,762	249,609
GH-270S-200*/O0						
GH-270S-220*/O0	1,084,668	492,562	602,515	740,622	171,404	165,084
GH-270S-240*/O0	1,083,411	491,748	601,143	998,595	412,339	447,060
GH-270S-200*/O2						
GH-270S-220*/O2						
GH-270S-240*/O2						
GH-270S-250*/O2						
GH-270S-280*/O2	1,399,481	589,407	655,079	1,524,170	636,245	699,307
GH-270S-220*/O3						
GH-270S-250*/O3						
GH-270S-280*/O3	1,497,025	654,062	761,704	1,416,359	562,483	581,468
GH-270S-200*/O4						
GH-270S-220*/O4	1,025,342	453,964	537,674	806,188	241,156	236,749
GH-270S-240*/O4	1,024,094	453,150	536,302	1,064,161	456,265	518,725
GH-271S-200*/O0						
GH-271S-220*/O0	1,084,668	492,562	602,515	740,622	171,404	165,084
GH-271S-240*/O0	1,083,411	491,748	601,143	998,595	412,339	447,060
GH-271S-250*/O0	1,082,748	491,323	600,417	1,135,994	503,537	597,249



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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/O0	1,080,579	489,916	598,045	1,581,841	789,053	1,084,580
GH-271S-300*/O0	1,079,004	488,898	596,319	1,907,115	994,081	1,440,123
GH-271S-320*/O0	1,077,313	487,800	594,478	2,254,817	1,212,172	1,820,183
GH-271S-340*/O0	1,075,517	486,641	592,513	2,624,947	1,443,602	2,224,760
GH-271S-360*/O0						
GH-271S-380*/O0						
GH-271S-400*/O0						
GH-271S-420*/O0						
GH-271S-440*/O0						
GH-271S-460*/O0						
GH-271S-200*/O2						
GH-271S-220*/O2						
GH-271S-240*/O2						
GH-271S-250*/O2						
GH-271S-280*/O2	1,399,481	589,407	655,079	1,524,170	636,245	699,307
GH-271S-300*/O2	1,397,896	588,345	653,354	1,849,444	849,734	1,054,850
GH-271S-320*/O2	1,396,215	587,212	651,504	2,197,146	1,072,215	1,434,910
GH-271S-340*/O2	1,394,418	585,999	649,539	2,567,284	1,306,450	1,839,496
GH-271S-360*/O2						
GH-271S-380*/O2						
GH-271S-400*/O2						
GH-271S-420*/O2						
GH-271S-440*/O2						
GH-271S-460*/O2						
GH-271S-200*/O3						
GH-271S-220*/O3						
GH-271S-240*/O3						
GH-271S-250*/O3						
GH-271S-280*/O3	1,497,025	654,062	761,704	1,416,359	562,483	581,468
GH-271S-300*/O3	1,495,449	653,026	759,978	1,741,633	779,822	937,002
GH-271S-320*/O3	1,493,759	651,920	758,129	2,089,335	1,003,604	1,317,062
GH-271S-340*/O3	1,491,962	650,743	756,164	2,459,473	1,238,432	1,721,648
GH-271S-360*/O3						
GH-271S-380*/O3						
GH-271S-400*/O3						
GH-271S-420*/O3						
GH-271S-440*/O3						
GH-271S-460*/O3						
GH-271S-200*/O4						
GH-271S-220*/O4	1,025,342	453,964	537,674	806,188	241,156	236,749
GH-271S-240*/O4	1,024,094	453,150	536,302	1,064,161	456,265	518,725
GH-271S-250*/O4	1,023,421	452,707	535,577	1,201,560	546,171	668,913
GH-271S-280*/O4	1,021,261	451,291	533,205	1,647,408	830,519	1,156,244
GH-271S-300*/O4	1,019,677	450,255	531,479	1,972,673	1,035,299	1,511,788
GH-271S-320*/O4	1,017,987	449,140	529,638	2,320,383	1,253,222	1,891,848
GH-271S-340*/O4	1,016,190	447,963	527,673	2,690,513	1,484,581	2,296,424

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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/O4						
GH-271S-380*/O4						
GH-271S-400*/O4						
GH-271S-420*/O4						
GH-271S-440*/O4						
GH-271S-460*/O4						
GH-350S-220*/O1						
GH-350S-250*/O1						
GH-350S-280*/O1						
GH-350S-300*/O1	2,298,203	861,019	856,354	2,423,282	827,359	818,783
GH-350S-320*/O1	2,295,991	858,664	853,929	2,878,910	1,200,126	1,316,806
GH-350S-350*/O1	2,292,406	854,850	850,008	3,617,461	1,683,519	2,124,091
GH-350S-380*/O1	2,288,494	850,690	845,742	4,422,153	2,196,491	3,003,670
GH-350S-400*/O1	2,285,715	847,725	842,698	4,995,354	2,558,584	3,630,215
GH-350S-420*/O1						
GH-350S-440*/O1						
GH-350S-460*/O1						
GH-350S-480*/O1						
GH-350S-500*/O1						



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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/O1	8,753	4,478	6,355	11,577	6,142	9,099
GH-065S-060*/O1	8,656	4,417	6,249	19,613	11,161	17,887
GH-065S-050*/O2	14,321	7,249	10,134	7,753	2,416	2,372
GH-065S-060*/O2	14,223	7,178	10,028	15,790	7,983	11,161
GH-065S-070*/O2	14,099	7,107	9,895	25,287	13,940	21,543
GH-065S-080*/O2						
GH-065S-090*/O2						
GH-065S-070*/O3	25,428	13,064	18,613	16,471	6,992	7,851
GH-065S-050*/O4						
GH-065S-060*/O4	17,976	9,408	13,683	12,090	5,452	6,620
GH-065S-070*/O4	17,861	9,329	13,550	21,587	11,471	16,993
GH-085S-050*/O1	12,780	6,257	8,408	15,312	7,665	10,594
GH-085S-060*/O1	12,648	6,169	8,267	25,942	14,338	22,215
GH-085S-070*/O1	12,488	6,072	8,090	38,510	22,162	35,952
GH-085S-050*/O2						
GH-085S-060*/O2	20,861	10,054	13,258	20,888	9,727	12,285
GH-085S-070*/O2	20,702	9,957	13,090	33,456	17,675	26,021
GH-085S-060*/O3						
GH-085S-070*/O3	33,642	16,046	20,888	25,570	10,108	10,391
GH-085S-080*/O3	33,465	15,931	20,693	40,067	19,578	26,234
GH-085S-090*/O3	33,252	15,799	20,463	56,494	29,933	44,192
GH-085S-050*/O4						
GH-085S-060*/O4	23,791	11,656	15,675	18,454	7,815	8,753
GH-085S-070*/O4	23,632	11,550	15,498	31,022	15,869	22,490
GH-085S-080*/O4	23,446	11,435	15,303	45,519	24,959	38,333
GH-085S-090*/O4	23,242	11,302	15,073	61,946	35,208	56,291
GH-085S-050*/O5						
GH-085S-060*/O5						
GH-085S-070*/O5	36,500	17,870	24,012	22,410	7,045	6,939
GH-085S-080*/O5	36,315	17,755	23,809	36,908	17,560	22,791
GH-085S-090*/O5	36,111	17,622	23,587	53,335	27,951	40,749
GH-085S-050*/O6						
GH-085S-060*/O6						
GH-085S-070*/O6						
GH-085S-080*/O6	44,378	21,543	28,632	32,031	12,674	13,046
GH-085S-090*/O6	44,174	21,410	28,411	48,458	23,428	31,004
GH-085S-050*/O7						
GH-085S-060*/O7						
GH-085S-070*/O7						
GH-085S-080*/O7						
GH-085S-090*/O7	56,565	28,154	38,598	38,156	15,312	16,038
GH-100S-070*/O1						
GH-100S-080*/O1	56,379	24,791	29,110	43,794	12,214	11,931
GH-100S-090*/O1	56,211	24,676	28,924	63,424	28,128	33,394
GH-100S-110*/O1	55,822	24,428	28,508	109,625	57,494	83,887
GH-100S-080*/O2						

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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/O2	66,177	31,137	39,828	52,405	20,737	21,348
GH-100S-110*/O2	65,796	30,889	39,404	98,606	50,564	71,842
GH-130S-070*/O1						
GH-130S-080*/O1						
GH-130S-090*/O1	83,693	41,492	56,618	63,522	27,207	30,898
GH-130S-100*/O1	83,330	41,262	56,220	92,251	45,696	62,300
GH-130S-110*/O1	83,702	41,492	56,618	124,778	66,177	97,845
GH-130S-125*/O1	83,250	41,209	56,131	178,298	99,642	156,357
GH-130S-080*/O2						
GH-130S-090*/O2						
GH-130S-100*/O2	103,173	49,414	64,610	83,772	34,925	38,324
GH-130S-110*/O2	103,545	49,644	65,009	116,290	56,052	73,877
GH-130S-125*/O2	103,094	49,361	64,522	169,819	89,826	132,381
GH-130S-070*/O3						
GH-130S-080*/O3	75,267	38,483	54,485	40,324	13,515	13,365
GH-130S-090*/O3	74,948	38,279	54,131	66,027	31,659	41,466
GH-130S-100*/O3	74,585	38,049	53,742	94,765	49,812	72,868
GH-130S-110*/O3	74,957	38,279	54,140	127,283	70,160	108,413
GH-130S-125*/O3	74,506	37,996	53,653	180,812	103,536	166,925
GH-130S-080*/O4						
GH-130S-090*/O4	84,737	44,440	64,841	55,202	24,694	29,632
GH-130S-100*/O4	84,383	44,209	64,442	83,941	43,006	61,035
GH-130S-110*/O4	84,746	44,440	64,849	116,458	63,398	96,579
GH-130S-125*/O4	84,303	44,165	64,354	169,988	96,792	155,092
GH-130S-080*/O5						
GH-130S-090*/O5						
GH-130S-100*/O5	111,404	56,158	78,188	70,045	27,650	28,384
GH-130S-110*/O5	111,776	56,388	78,586	102,562	49,015	63,938
GH-130S-125*/O5	111,325	56,105	78,099	156,092	82,799	122,441
GH-130S-140*/O5	110,820	55,795	77,541	216,454	120,538	188,415
GH-130S-090*/O6						
GH-130S-100*/O6						
GH-130S-110*/O6	149,781	72,284	95,420	85,542	18,790	18,011
GH-130S-125*/O6	149,339	72,001	94,933	139,072	62,885	76,515
GH-130S-140*/O6	148,834	71,682	94,376	199,434	101,359	142,497
GH-161S-110F/O2						
GH-161S-110F/O3						
GH-161S-110F/O4						
GH-161S-110F/O5						
GH-161S-125F/O2	144,211	75,211	109,025	182,311	97,506	145,554
GH-161S-125F/O3	167,575	89,866	134,563	156,488	81,303	117,328
GH-161S-125F/O4	215,826	115,889	173,783	116,830	50,891	59,036
GH-161S-125F/O5						
GH-161S-140F/O2	143,584	74,816	108,339	257,430	144,436	227,664
GH-161S-140F/O3	166,947	89,472	133,877	231,607	128,330	199,438
GH-161S-140F/O4	215,198	115,496	173,097	191,950	98,846	141,146



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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5						
GH-161S-160F/O2						
GH-161S-160F/O3						
GH-161S-160F/O4						
GH-161S-160F/O5						
GH-161S-180F/O2						
GH-161S-180F/O3						
GH-161S-180F/O4						
GH-161S-180F/O5						
GH-161S-200F/O3						
GH-161S-200F/O4						
GH-161S-200F/O5						
GH-161S-210F/O4						
GH-161S-210F/O5						
GH-161S-220F/O4						
GH-161S-220F/O5						
GH-200S-110*/O1						
GH-200S-125*/O1	284,012	147,347	212,285	155,109	60,406	61,052
GH-200S-140*/O1	283,215	146,843	211,418	250,060	122,547	164,836
GH-200S-160*/O1	282,020	146,090	210,108	393,372	212,692	321,495
GH-200S-180*/O1	280,657	145,241	208,621	555,801	314,095	499,032
GH-200S-125*/O2						
GH-200S-140*/O2	385,406	196,478	277,232	183,503	42,926	41,377
GH-200S-160*/O2	384,211	195,725	275,922	326,823	154,242	198,036
GH-200S-180*/O2	382,857	194,867	274,435	489,252	256,964	375,573
GH-201S-200*/O3	683,552	336,382	454,805	495,129	202,974	218,074
GH-201S-160*/O7						
GH-201S-200*/O7	532,930	263,159	357,305	593,717	293,836	400,045
GH-270S-200*/O0						
GH-270S-220*/O0	1,084,668	492,562	602,515	967,918	391,416	413,525
GH-270S-240*/O0	1,083,411	491,748	601,143	1,269,091	589,761	742,728
GH-270S-200*/O2						
GH-270S-220*/O2						
GH-270S-240*/O2	1,402,313	591,301	658,177	1,211,429	364,005	357,464
GH-270S-250*/O2	1,401,649	590,858	657,451	1,371,840	530,912	532,797
GH-270S-280*/O2	1,399,481	589,407	655,079	1,892,352	877,375	1,101,750
GH-270S-220*/O3						
GH-270S-250*/O3	1,499,193	655,487	764,068	1,264,020	419,959	414,950
GH-270S-280*/O3	1,497,025	654,062	761,704	1,784,541	807,737	983,902
GH-270S-200*/O4	1,026,492	454,716	538,922	758,492	190,415	184,609
GH-270S-220*/O4	1,025,342	453,964	537,674	1,033,484	435,829	485,189
GH-270S-240*/O4	1,024,094	453,150	536,302	1,334,658	631,837	814,393
GH-271S-200*/O0						
GH-271S-220*/O0	1,084,668	492,562	602,515	967,918	391,416	413,525
GH-271S-240*/O0	1,083,411	491,748	601,143	1,269,091	589,761	742,728
GH-271S-250*/O0	1,082,748	491,323	600,417	1,429,502	692,368	918,071

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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/O0	1,080,579	489,916	598,045	1,950,015	1,021,058	1,487,023
GH-271S-300*/O0	1,079,004	488,898	596,319	2,329,765	1,259,090	1,902,106
GH-271S-320*/O0	1,077,313	487,800	594,478	2,735,696	1,512,823	2,345,812
GH-271S-340*/O0						
GH-271S-360*/O0						
GH-271S-380*/O0						
GH-271S-400*/O0						
GH-271S-420*/O0						
GH-271S-440*/O0						
GH-271S-460*/O0						
GH-271S-200*/O2						
GH-271S-220*/O2						
GH-271S-240*/O2	1,402,313	591,301	658,177	1,211,429	364,005	357,464
GH-271S-250*/O2	1,401,649	590,858	657,451	1,371,840	530,912	532,797
GH-271S-280*/O2	1,399,481	589,407	655,079	1,892,352	877,375	1,101,750
GH-271S-300*/O2	1,397,896	588,345	653,354	2,272,094	1,119,815	1,516,833
GH-271S-320*/O2	1,396,215	587,212	651,504	2,678,033	1,376,309	1,960,547
GH-271S-340*/O2						
GH-271S-360*/O2						
GH-271S-380*/O2						
GH-271S-400*/O2						
GH-271S-420*/O2						
GH-271S-440*/O2						
GH-271S-460*/O2						
GH-271S-200*/O3						
GH-271S-220*/O3						
GH-271S-240*/O3	1,499,857	655,920	764,802	1,103,618	249,317	239,616
GH-271S-250*/O3	1,499,193	655,487	764,068	1,264,020	419,959	414,950
GH-271S-280*/O3	1,497,025	654,062	761,704	1,784,541	807,737	983,902
GH-271S-300*/O3	1,495,449	653,026	759,978	2,164,283	1,051,301	1,398,985
GH-271S-320*/O3	1,493,759	651,920	758,129	2,570,214	1,308,300	1,842,700
GH-271S-340*/O3						
GH-271S-360*/O3						
GH-271S-380*/O3						
GH-271S-400*/O3						
GH-271S-420*/O3						
GH-271S-440*/O3						
GH-271S-460*/O3						
GH-271S-200*/O4	1,026,492	454,716	538,922	758,492	190,415	184,609
GH-271S-220*/O4	1,025,342	453,964	537,674	1,033,484	435,829	485,189
GH-271S-240*/O4	1,024,094	453,150	536,302	1,334,658	631,837	814,393
GH-271S-250*/O4	1,023,421	452,707	535,577	1,495,069	734,090	989,735
GH-271S-280*/O4	1,021,261	451,291	533,205	2,015,581	1,062,240	1,558,688
GH-271S-300*/O4	1,019,677	450,255	531,479	2,395,332	1,300,069	1,973,770
GH-271S-320*/O4	1,017,987	449,140	529,638	2,801,262	1,553,723	2,417,485
GH-271S-340*/O4						



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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/O4						
GH-271S-380*/O4						
GH-271S-400*/O4						
GH-271S-420*/O4						
GH-271S-440*/O4						
GH-271S-460*/O4						
GH-350S-220*/O1						
GH-350S-250*/O1						
GH-350S-280*/O1	2,300,275	863,222	858,611	2,479,502	887,173	880,234
GH-350S-300*/O1	2,298,203	861,019	856,354	2,977,118	1,265,870	1,424,156
GH-350S-320*/O1	2,295,991	858,664	853,929	3,509,048	1,613,740	2,005,589
GH-350S-350*/O1	2,292,406	854,850	850,008	4,371,288	2,164,274	2,948,070
GH-350S-380*/O1						
GH-350S-400*/O1						
GH-350S-420*/O1						
GH-350S-440*/O1						
GH-350S-460*/O1						
GH-350S-480*/O1						
GH-350S-500*/O1						



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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050*/O1	8,753	4,478	6,355	14,214	7,798	11,993
GH-065S-060*/O1	8,656	4,417	6,249	23,419	13,533	22,047
GH-065S-050*/O2	14,321	7,249	10,134	10,391	4,532	5,266
GH-065S-060*/O2	14,223	7,178	10,028	19,596	10,373	15,321
GH-065S-070*/O2	14,099	7,107	9,895	30,464	17,170	27,198
GH-065S-080*/O2						
GH-065S-090*/O2						
GH-065S-070*/O3	25,428	13,064	18,613	21,649	10,347	13,515
GH-065S-050*/O4						
GH-065S-060*/O4	17,976	9,408	13,683	15,896	7,886	10,771
GH-065S-070*/O4	17,861	9,329	13,550	26,765	14,710	22,658
GH-085S-050*/O1	12,780	6,257	8,408	18,808	9,869	14,418
GH-085S-060*/O1	12,648	6,169	8,267	30,978	17,471	27,721
GH-085S-070*/O1	12,488	6,072	8,090	45,360	26,428	43,439
GH-085S-050*/O2	20,994	10,143	13,409	13,754	4,540	4,487
GH-085S-060*/O2	20,861	10,054	13,258	25,924	12,931	17,790
GH-085S-070*/O2	20,702	9,957	13,090	40,306	21,968	33,509
GH-085S-060*/O3						
GH-085S-070*/O3	33,642	16,046	20,888	32,420	14,675	17,879
GH-085S-080*/O3	33,465	15,931	20,693	49,015	25,233	36,014
GH-085S-090*/O3	33,252	15,799	20,463	67,814	37,014	56,574
GH-085S-050*/O4						
GH-085S-060*/O4	23,791	11,656	15,675	23,490	11,090	14,259
GH-085S-070*/O4	23,632	11,550	15,498	37,872	20,171	29,977
GH-085S-080*/O4	23,446	11,435	15,303	54,468	30,544	48,113
GH-085S-090*/O4	23,242	11,302	15,073	73,267	42,262	68,673
GH-085S-050*/O5						
GH-085S-060*/O5						
GH-085S-070*/O5	36,500	17,870	24,012	29,261	12,603	14,427
GH-085S-080*/O5	36,315	17,755	23,809	45,856	23,242	32,571
GH-085S-090*/O5	36,111	17,622	23,587	64,664	35,049	53,122
GH-085S-050*/O6						
GH-085S-060*/O6						
GH-085S-070*/O6						
GH-085S-080*/O6	44,378	21,543	28,632	40,979	18,631	22,826
GH-085S-090*/O6	44,174	21,410	28,411	59,787	30,597	43,386
GH-085S-050*/O7						
GH-085S-060*/O7						
GH-085S-070*/O7						
GH-085S-080*/O7	56,769	28,287	38,828	30,668	8,072	7,859
GH-085S-090*/O7	56,565	28,154	38,598	49,476	22,800	28,411
GH-100S-070*/O1						
GH-100S-080*/O1	56,379	24,791	29,110	54,441	22,145	23,570
GH-100S-090*/O1	56,211	24,676	28,924	76,904	36,819	48,122
GH-100S-110*/O1						
GH-100S-080*/O2	66,345	31,243	40,005	43,422	11,816	11,524

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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090*/O2	66,177	31,137	39,828	65,885	29,730	36,076
GH-100S-110*/O2	65,796	30,889	39,404	118,733	63,203	93,845
GH-130S-070*/O1						
GH-130S-080*/O1	84,020	41,696	56,972	51,812	18,259	18,100
GH-130S-090*/O1	83,693	41,492	56,618	81,241	38,695	50,263
GH-130S-100*/O1	83,330	41,262	56,220	114,130	59,495	86,206
GH-130S-110*/O1	83,702	41,492	56,618	151,242	82,746	126,778
GH-130S-125*/O1	83,250	41,209	56,131	212,480	120,945	193,716
GH-130S-080*/O2						
GH-130S-090*/O2	103,536	49,644	65,009	72,753	26,473	26,287
GH-130S-100*/O2	103,173	49,414	64,610	105,643	49,237	62,238
GH-130S-110*/O2	103,545	49,644	65,009	142,763	72,815	102,810
GH-130S-125*/O2	103,094	49,361	64,522	203,992	111,219	169,740
GH-130S-070*/O3						
GH-130S-080*/O3	75,267	38,483	54,485	54,326	24,118	28,668
GH-130S-090*/O3	74,948	38,279	54,131	83,746	42,882	60,831
GH-130S-100*/O3	74,585	38,049	53,742	116,635	63,504	96,774
GH-130S-110*/O3	74,957	38,279	54,140	153,746	86,675	137,346
GH-130S-125*/O3	74,506	37,996	53,653	214,985	124,813	204,284
GH-130S-080*/O4	85,065	44,643	65,195	43,501	16,808	16,834
GH-130S-090*/O4	84,737	44,440	64,841	72,921	36,040	48,998
GH-130S-100*/O4	84,383	44,209	64,442	105,811	56,733	84,941
GH-130S-110*/O4	84,746	44,440	64,849	142,922	79,922	125,512
GH-130S-125*/O4	84,303	44,165	64,354	204,160	118,078	192,451
GH-130S-080*/O5						
GH-130S-090*/O5	111,767	56,388	78,577	59,035	16,710	16,347
GH-130S-100*/O5	111,404	56,158	78,188	91,915	42,183	52,290
GH-130S-110*/O5	111,776	56,388	78,586	129,035	65,796	92,862
GH-130S-125*/O5	111,325	56,105	78,099	190,273	104,191	159,800
GH-130S-140*/O5	110,820	55,795	77,541	259,327	147,276	235,279
GH-130S-090*/O6						
GH-130S-100*/O6						
GH-130S-110*/O6	149,781	72,284	95,420	112,015	44,900	46,944
GH-130S-125*/O6	149,339	72,001	94,933	173,245	84,790	113,874
GH-130S-140*/O6	148,834	71,682	94,376	242,298	128,309	189,353
GH-161S-110F/O2	144,768	75,561	109,634	148,635	76,366	108,744
GH-161S-110F/O3	168,132	90,215	135,172	122,812	60,038	80,518
GH-161S-110F/O4						
GH-161S-110F/O5						
GH-161S-125F/O2	168,132	90,215	135,172	122,812	60,038	80,518
GH-161S-125F/O3	167,575	89,866	134,563	199,023	107,967	163,822
GH-161S-125F/O4	215,826	115,889	173,783	159,366	78,259	105,529
GH-161S-125F/O5						
GH-161S-140F/O2	143,584	74,816	108,339	310,787	177,691	285,986
GH-161S-140F/O3	166,947	89,472	133,877	284,964	161,610	257,760
GH-161S-140F/O4	215,198	115,496	173,097	245,306	132,325	199,467

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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5	277,122	145,237	211,740	206,232	97,224	124,656
GH-161S-160F/O2	142,636	74,221	107,304	440,508	258,434	427,779
GH-161S-160F/O3	166,000	88,879	132,842	414,685	242,372	399,553
GH-161S-160F/O4	214,250	114,902	172,061	375,027	213,288	341,261
GH-161S-160F/O5	276,174	144,642	210,704	335,953	179,126	266,449
GH-161S-180F/O2						
GH-161S-180F/O3	164,926	88,206	131,668	561,702	333,814	560,252
GH-161S-180F/O4	213,177	114,229	170,888	522,045	304,822	501,960
GH-161S-180F/O5	275,100	143,967	209,531	482,970	270,987	427,148
GH-161S-200F/O3						
GH-161S-200F/O4						
GH-161S-200F/O5						
GH-161S-210F/O4						
GH-161S-210F/O5						
GH-161S-220F/O4						
GH-161S-220F/O5						
GH-200S-110*/O1						
GH-200S-125*/O1	284,012	147,347	212,285	208,878	96,217	119,821
GH-200S-140*/O1	283,215	146,843	211,418	317,494	165,111	238,554
GH-200S-160*/O1	282,020	146,090	210,108	481,454	267,726	417,773
GH-200S-180*/O1	280,657	145,241	208,621	667,285	383,538	620,889
GH-200S-125*/O2						
GH-200S-140*/O2	385,406	196,478	277,232	250,945	104,740	115,095
GH-200S-160*/O2	384,211	195,725	275,922	414,905	210,179	294,314
GH-200S-180*/O2	382,857	194,867	274,435	600,727	326,787	497,430
GH-201S-200*/O3	683,552	336,382	454,805	632,767	293,411	368,519
GH-201S-160*/O7	531,806	262,451	356,083	333,850	117,042	115,998
GH-201S-200*/O7	532,930	263,159	357,305	731,346	380,653	550,490
GH-270S-200*/O0	1,085,810	493,305	603,763	880,774	320,495	318,273
GH-270S-220*/O0	1,084,668	492,562	602,515	1,195,214	542,064	661,965
GH-270S-240*/O0	1,083,411	491,748	601,143	1,539,588	762,289	1,038,397
GH-270S-200*/O2						
GH-270S-220*/O2	1,403,570	592,142	659,549	1,137,543	285,410	276,701
GH-270S-240*/O2	1,402,313	591,301	658,177	1,481,925	607,675	653,132
GH-270S-250*/O2	1,401,649	590,858	657,451	1,665,348	729,957	853,619
GH-270S-280*/O2						
GH-270S-220*/O3						
GH-270S-250*/O3	1,499,193	655,487	764,068	1,557,528	658,611	735,772
GH-270S-280*/O3	1,497,025	654,062	761,704	2,152,715	1,043,937	1,386,346
GH-270S-200*/O4	1,026,492	454,716	538,922	946,340	376,458	389,937
GH-270S-220*/O4	1,025,342	453,964	537,674	1,260,772	584,406	733,639
GH-270S-240*/O4	1,024,094	453,150	536,302	1,605,154	803,825	1,110,070
GH-271S-200*/O0	1,085,810	493,305	603,763	880,774	320,495	318,273
GH-271S-220*/O0	1,084,668	492,562	602,515	1,195,214	542,064	661,965
GH-271S-240*/O0	1,083,411	491,748	601,143	1,539,588	762,289	1,038,397
GH-271S-250*/O0	1,082,748	491,323	600,417	1,723,011	878,216	1,238,893

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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280*/O0	1,080,579	489,916	598,045	2,318,197	1,251,859	1,889,458
GH-271S-300*/O0	1,079,004	488,898	596,319	2,752,415	1,523,249	2,364,088
GH-271S-320*/O0						
GH-271S-340*/O0						
GH-271S-360*/O0						
GH-271S-380*/O0						
GH-271S-400*/O0						
GH-271S-420*/O0						
GH-271S-440*/O0						
GH-271S-460*/O0						
GH-271S-200*/O2						
GH-271S-220*/O2	1,403,570	592,142	659,549	1,137,543	285,410	276,701
GH-271S-240*/O2	1,402,313	591,301	658,177	1,481,925	607,675	653,132
GH-271S-250*/O2	1,401,649	590,858	657,451	1,665,348	729,957	853,619
GH-271S-280*/O2	1,399,481	589,407	655,079	2,260,526	1,112,486	1,504,185
GH-271S-300*/O2	1,397,896	588,345	653,354	2,694,744	1,386,824	1,978,815
GH-271S-320*/O2						
GH-271S-340*/O2						
GH-271S-360*/O2						
GH-271S-380*/O2						
GH-271S-400*/O2						
GH-271S-420*/O2						
GH-271S-440*/O2						
GH-271S-460*/O2						
GH-271S-200*/O3						
GH-271S-220*/O3						
GH-271S-240*/O3	1,499,857	655,920	764,802	1,374,114	532,558	535,285
GH-271S-250*/O3	1,499,193	655,487	764,068	1,557,528	658,611	735,772
GH-271S-280*/O3	1,497,025	654,062	761,704	2,152,715	1,043,937	1,386,346
GH-271S-300*/O3	1,495,449	653,026	759,978	2,586,933	1,318,850	1,860,968
GH-271S-320*/O3						
GH-271S-340*/O3						
GH-271S-360*/O3						
GH-271S-380*/O3						
GH-271S-400*/O3						
GH-271S-420*/O3						
GH-271S-440*/O3						
GH-271S-460*/O3						
GH-271S-200*/O4	1,026,492	454,716	538,922	946,340	376,458	389,937
GH-271S-220*/O4	1,025,342	453,964	537,674	1,260,772	584,406	733,639
GH-271S-240*/O4	1,024,094	453,150	536,302	1,605,154	803,825	1,110,070
GH-271S-250*/O4	1,023,421	452,707	535,577	1,788,577	919,566	1,310,557
GH-271S-280*/O4	1,021,261	451,291	533,205	2,383,755	1,292,838	1,961,123
GH-271S-300*/O4	1,019,677	450,255	531,479	2,817,981	1,564,149	2,435,753
GH-271S-320*/O4						
GH-271S-340*/O4						

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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360*/O4						
GH-271S-380*/O4						
GH-271S-400*/O4						
GH-271S-420*/O4						
GH-271S-440*/O4						
GH-271S-460*/O4						
GH-350S-220*/O1						
GH-350S-250*/O1	2,303,116	866,241	861,718	2,182,037	570,741	555,084
GH-350S-280*/O1	2,300,275	863,222	858,611	2,961,957	1,255,771	1,407,588
GH-350S-300*/O1	2,298,203	861,019	856,354	3,530,954	1,627,883	2,029,530
GH-350S-320*/O1	2,295,991	858,664	853,929	4,139,195	2,016,953	2,694,372
GH-350S-350*/O1	2,292,406	854,850	850,008	5,125,124	2,640,311	3,772,057
GH-350S-380*/O1						
GH-350S-400*/O1						
GH-350S-420*/O1						
GH-350S-440*/O1						
GH-350S-460*/O1						
GH-350S-480*/O1						
GH-350S-500*/O1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	6,645	2,593	3,681	2,856	2,081	5,874
GH-065C-050*/D1	8,205	3,204	4,545	3,695	2,692	7,596
GH-085C-045*/D1	8,792	3,432	4,869	3,779	2,753	7,770
GH-085C-050*/D1	10,854	4,237	6,013	4,888	3,561	10,048
GH-085C-060*/D1	15,632	6,102	8,658	5,506	4,012	11,321
GH-085C-070*/D1	21,276	8,308	11,784	8,540	6,220	17,558
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	12,916	5,043	7,155	3,500	2,549	7,195
GH-100C-060*/D1	18,601	7,263	10,302	6,553	4,773	13,473
GH-100C-070*/D1	25,318	9,886	14,025	10,163	7,404	20,893
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	16,982	6,631	9,407	4,601	3,352	9,459
GH-130C-060*/D1	24,456	9,548	13,546	8,616	6,276	17,715
GH-130C-070*/D1	33,288	12,999	18,438	13,363	9,734	27,472
GH-130C-080*/D1	43,477	16,978	24,085	18,838	13,722	38,728
GH-130C-090*/D1	55,027	21,487	30,481	25,043	18,244	51,487
GH-130C-100*/D1	67,936	26,528	37,631	31,980	23,296	65,744
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	100,440	39,220	55,638	44,667	32,539	91,829
GH-161C-125F/D1	129,700	50,645	71,847	60,390	43,993	124,151
GH-161C-140F/D1	162,696	63,530	90,124	78,119	56,908	160,600
GH-161C-160F/D1	212,500	82,977	117,713	104,881	76,403	215,618

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1	268,946	105,018	148,981	135,211	98,498	277,971
GH-161C-200F/D1	332,032	129,652	183,927	169,109	123,192	347,659
GH-161C-210F/D1	366,065	142,941	202,779	187,396	136,513	385,254
GH-161C-220F/D1	401,759	156,879	222,552	206,575	150,485	424,684
GH-161C-230F/D1	439,112	171,465	243,243	226,646	165,106	465,947
GH-161C-260F/D1						
GH-200C-090*/D1	86,560	33,800	47,949	34,747	25,311	71,436
GH-200C-100*/D1	106,866	41,727	59,196	45,657	33,260	93,865
GH-200C-110*/D1	129,812	50,688	71,908	57,986	42,242	119,211
GH-200C-125*/D1	167,628	65,455	92,855	69,157	50,378	142,176
GH-200C-140*/D1	210,272	82,107	116,480	92,070	67,071	189,285
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	129,812	50,688	71,908	57,986	42,242	119,211
GH-201C-125*/D1	167,628	65,455	92,855	69,157	50,378	142,176
GH-201C-140*/D1	210,272	82,107	116,480	92,070	67,071	189,285
GH-201C-160*/D1	274,642	107,242	152,135	126,660	92,268	260,391
GH-201C-180*/D1	347,595	135,728	192,547	165,857	120,823	340,978
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	229,671	89,682	127,226	84,559	61,599	173,839
GH-270C-140*/D1	288,101	112,496	159,590	115,953	84,469	238,383
GH-270C-160*/D1	376,293	146,935	208,444	163,342	118,991	335,806
GH-270C-180*/D1	476,249	185,966	263,814	217,050	158,115	446,221
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	288,101	112,496	159,590	115,953	84,469	238,383
GH-271C-160*/D1	376,293	146,935	208,444	163,342	118,991	335,806
GH-271C-180*/D1	476,249	185,966	263,814	217,050	158,115	446,221
GH-271C-200*/D1	587,960	229,586	325,697	277,078	201,844	569,625
GH-271C-220*/D1	711,432	277,799	394,093	343,421	250,174	706,021
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	493,092	192,543	273,143	198,457	144,572	407,998
GH-350C-180*/D1	624,069	243,686	345,699	268,836	195,840	552,683
GH-350C-200*/D1	770,457	300,848	426,789	347,494	253,141	714,392
GH-350C-220*/D1	932,253	364,025	516,414	434,432	316,473	893,121
GH-350C-250*/D1	1,203,839	470,076	666,858	580,362	422,779	1,193,130
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1	1,091,607	677,613	1,193,196	968,529	602,400	1,058,665
GH-350S-320*/D1	1,242,008	770,971	1,357,590	1,118,930	695,943	1,223,059
GH-350S-350*/D1	1,485,802	922,310	1,624,068	1,362,723	847,583	1,489,537
GH-350S-380*/D1	1,751,422	1,087,200	1,914,408	1,628,352	1,012,791	1,779,886
GH-350S-400*/D1	1,940,633	1,204,649	2,121,233	1,817,563	1,130,480	1,986,701
GH-350S-440*/D1	2,348,166	1,457,630	2,566,691	2,225,096	1,383,956	2,432,168
GH-350S-460*/D1	2,566,487	1,593,153	2,805,334	2,443,418	1,519,745	2,670,802

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	9,958	3,886	5,516	4,280	3,119	8,803
GH-065C-050*/D1	12,295	4,801	6,811	5,537	4,034	11,383
GH-085C-045*/D1	13,175	5,143	7,297	5,663	4,125	11,644
GH-085C-050*/D1	16,265	6,350	9,011	7,325	5,336	15,058
GH-085C-060*/D1	23,425	9,145	12,974	8,251	6,012	16,966
GH-085C-070*/D1	31,883	12,450	17,659	12,798	9,321	26,311
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	19,356	7,557	10,722	5,245	3,819	10,781
GH-100C-060*/D1	27,874	10,883	15,438	9,820	7,152	20,190
GH-100C-070*/D1	37,941	14,815	21,017	15,230	11,095	31,309
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	25,449	9,937	14,097	6,895	5,023	14,175
GH-130C-060*/D1	36,649	14,308	20,299	12,911	9,405	26,547
GH-130C-070*/D1	49,884	19,479	27,631	20,025	14,586	41,168
GH-130C-080*/D1	65,153	25,442	36,093	28,229	20,563	58,036
GH-130C-090*/D1	82,460	32,200	45,677	37,529	27,339	77,156
GH-130C-100*/D1	101,805	39,753	56,392	47,923	34,910	98,521
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	152,159	59,415	84,288	67,807	49,396	139,400
GH-161C-125F/D1	196,487	76,724	108,843	91,625	66,747	188,367
GH-161C-140F/D1	246,473	96,243	136,532	118,485	86,313	243,585
GH-161C-160F/D1	321,924	125,705	178,328	159,026	115,847	326,932

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1	407,435	159,096	225,696	204,974	149,319	421,393
GH-161C-200F/D1	503,006	196,414	278,637	256,327	186,728	526,967
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	129,714	50,651	71,855	52,070	37,930	107,050
GH-200C-100*/D1	160,144	62,531	88,708	68,419	49,841	140,661
GH-200C-110*/D1	194,529	75,959	107,757	86,895	63,301	178,644
GH-200C-125*/D1	251,199	98,088	139,148	103,636	75,494	213,058
GH-200C-140*/D1	315,103	123,041	174,551	137,972	100,510	283,653
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	194,529	75,959	107,757	86,895	63,301	178,644
GH-201C-125*/D1	251,199	98,088	139,148	103,636	75,494	213,058
GH-201C-140*/D1	315,103	123,041	174,551	137,972	100,510	283,653
GH-201C-160*/D1	411,565	160,707	227,982	189,806	138,268	390,210
GH-201C-180*/D1	520,889	203,396	288,542	248,545	181,059	510,973
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	344,173	134,392	190,654	126,716	92,309	260,506
GH-270C-140*/D1	431,734	168,581	239,154	173,762	126,582	357,229
GH-270C-160*/D1	563,895	220,189	312,364	244,776	178,313	503,222
GH-270C-180*/D1	713,683	278,679	395,338	325,261	236,944	668,685
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	431,734	168,581	239,154	173,762	126,582	357,229
GH-271C-160*/D1	563,895	220,189	312,364	244,776	178,313	503,222
GH-271C-180*/D1	713,683	278,679	395,338	325,261	236,944	668,685
GH-271C-200*/D1	881,088	344,047	488,073	415,215	302,473	853,612
GH-271C-220*/D1	1,066,117	416,296	590,568	514,634	374,898	1,058,008
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	738,924	288,535	409,319	297,398	216,648	611,406
GH-350C-180*/D1	935,199	365,176	518,048	402,864	293,477	828,223
GH-350C-200*/D1	1,154,568	450,836	639,565	520,737	379,344	1,070,552
GH-350C-220*/D1	1,397,028	545,510	773,873	651,019	474,250	1,338,387
GH-350C-250*/D1	1,804,013	704,433	999,321	869,701	633,556	1,787,966
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1	1,645,443	1,021,412	1,798,570	1,460,825	908,600	1,596,773
GH-350S-320*/D1	1,872,146	1,162,139	2,046,373	1,687,537	1,049,602	1,844,576
GH-350S-350*/D1	2,239,629	1,390,249	2,448,055	2,055,020	1,278,172	2,246,258
GH-350S-380*/D1	2,640,019	1,638,796	2,885,707	2,455,410	1,527,206	2,683,910
GH-350S-400*/D1	2,925,235	1,815,838	3,197,457	2,740,617	1,704,601	2,995,669
GH-350S-440*/D1	3,539,530	2,197,163	3,868,928	3,354,921	2,086,679	3,667,131
GH-350S-460*/D1	3,868,619	2,401,447	4,228,641	3,684,010	2,291,362	4,026,852

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	13,290	5,186	7,361	5,712	4,162	11,749
GH-065C-050*/D1	16,409	6,408	9,090	7,389	5,384	15,192
GH-085C-045*/D1	17,584	6,863	9,738	7,559	5,506	15,540
GH-085C-050*/D1	21,708	8,475	12,026	9,776	7,122	20,097
GH-085C-060*/D1	31,263	12,205	17,316	11,011	8,024	22,643
GH-085C-070*/D1	42,552	16,616	23,568	17,081	12,440	35,115
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	25,833	10,086	14,309	7,000	5,097	14,389
GH-100C-060*/D1	37,201	14,525	20,604	13,107	9,546	26,946
GH-100C-070*/D1	50,637	19,773	28,050	20,327	14,807	41,786
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	33,964	13,262	18,814	9,203	6,704	18,918
GH-130C-060*/D1	48,913	19,096	27,092	17,231	12,552	35,430
GH-130C-070*/D1	66,576	25,997	36,877	26,725	19,467	54,944
GH-130C-080*/D1	86,955	33,955	48,170	37,676	27,444	77,456
GH-130C-090*/D1	110,053	42,975	60,962	50,087	36,487	102,974
GH-130C-100*/D1	135,872	53,056	75,262	63,959	46,592	131,489
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	203,879	79,611	112,938	90,947	66,252	186,971
GH-161C-125F/D1	263,274	102,803	145,839	122,861	89,501	252,582
GH-161C-140F/D1	330,251	128,957	182,940	158,850	115,718	326,569
GH-161C-160F/D1	431,348	168,433	238,942	213,172	155,291	438,247

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1	545,925	213,173	302,412	274,738	200,140	564,815
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	173,120	67,600	95,899	69,493	50,622	142,871
GH-200C-100*/D1	213,732	83,455	118,392	91,314	66,520	187,730
GH-200C-110*/D1	259,623	101,376	143,816	115,972	84,484	238,423
GH-200C-125*/D1	335,256	130,911	185,710	138,315	100,756	284,352
GH-200C-140*/D1	420,543	164,213	232,959	184,141	134,143	378,569
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	259,623	101,376	143,816	115,972	84,484	238,423
GH-201C-125*/D1	335,256	130,911	185,710	138,315	100,756	284,352
GH-201C-140*/D1	420,543	164,213	232,959	184,141	134,143	378,569
GH-201C-160*/D1	549,284	214,483	304,270	253,319	184,535	520,783
GH-201C-180*/D1	695,190	271,457	385,094	331,714	241,645	681,957
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	459,342	179,363	254,451	169,117	123,197	347,677
GH-270C-140*/D1	576,202	224,992	319,181	231,907	168,939	476,765
GH-270C-160*/D1	752,587	293,870	416,889	326,683	237,981	671,612
GH-270C-180*/D1	952,497	371,931	527,628	434,101	316,231	892,442
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	576,202	224,992	319,181	231,907	168,939	476,765
GH-271C-160*/D1	752,587	293,870	416,889	326,683	237,981	671,612
GH-271C-180*/D1	952,497	371,931	527,628	434,101	316,231	892,442
GH-271C-200*/D1	1,175,920	459,173	651,393	554,155	403,688	1,139,250
GH-271C-220*/D1	1,422,865	555,598	788,186	686,842	500,348	1,412,041
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	986,185	385,085	546,287	396,914	289,144	815,996
GH-350C-180*/D1	1,248,138	487,373	691,399	537,671	391,681	1,105,365
GH-350C-200*/D1	1,540,913	601,696	853,578	694,988	506,281	1,428,784
GH-350C-220*/D1	1,864,505	728,050	1,032,828	868,864	632,945	1,786,242
GH-350C-250*/D1	2,407,678	940,152	1,333,716	1,160,723	845,559	2,386,261
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1	2,199,279	1,365,202	2,403,943	1,953,130	1,214,801	2,134,889
GH-350S-320*/D1	2,502,293	1,553,298	2,735,156	2,256,145	1,403,260	2,466,102
GH-350S-350*/D1	2,993,465	1,858,197	3,272,043	2,747,317	1,708,761	3,002,980
GH-350S-380*/D1	3,528,617	2,190,392	3,856,998	3,282,469	2,041,620	3,587,944
GH-350S-400*/D1	3,909,828	2,427,026	4,273,682	3,663,679	2,278,723	4,004,628
GH-350S-440*/D1	4,730,894	2,936,705	5,171,157	4,484,746	2,789,402	4,902,103
GH-350S-460*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	16,603	6,479	9,196	7,136	5,200	14,678
GH-065C-050*/D1	20,499	8,005	11,356	9,232	6,726	18,979
GH-085C-045*/D1	21,967	8,574	12,166	9,443	6,878	19,414
GH-085C-050*/D1	27,119	10,587	15,024	12,213	8,897	25,106
GH-085C-060*/D1	39,056	15,247	21,632	13,756	10,024	28,287
GH-085C-070*/D1	53,159	20,758	29,443	21,339	15,540	43,869
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	32,272	12,600	17,876	8,744	6,368	17,976
GH-100C-060*/D1	46,474	18,146	25,740	16,374	11,925	33,663
GH-100C-070*/D1	63,259	24,701	35,042	25,394	18,498	52,202
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	42,431	16,567	23,504	11,497	8,375	23,633
GH-130C-060*/D1	61,105	23,856	33,845	21,526	15,681	44,262
GH-130C-070*/D1	83,172	32,478	46,070	33,387	24,320	68,641
GH-130C-080*/D1	108,630	42,419	60,178	47,067	34,285	96,764
GH-130C-090*/D1	137,487	53,687	76,158	62,572	45,582	128,643
GH-130C-100*/D1	169,741	66,281	94,023	79,903	58,206	164,266
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	255,599	99,807	141,588	114,086	83,109	234,543
GH-161C-125F/D1	330,061	128,882	182,835	154,097	112,256	316,797
GH-161C-140F/D1	414,028	161,670	229,348	199,215	145,123	409,553
GH-161C-160F/D1	540,772	211,161	299,557	267,318	194,735	549,561

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	216,274	84,451	119,804	86,816	63,241	178,486
GH-200C-100*/D1	267,010	104,258	147,904	114,076	83,101	234,526
GH-200C-110*/D1	324,341	126,647	179,665	144,881	105,543	297,856
GH-200C-125*/D1	418,828	163,544	232,003	172,793	125,872	355,234
GH-200C-140*/D1	525,374	205,147	291,030	230,042	167,582	472,937
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	324,341	126,647	179,665	144,881	105,543	297,856
GH-201C-125*/D1	418,828	163,544	232,003	172,793	125,872	355,234
GH-201C-140*/D1	525,374	205,147	291,030	230,042	167,582	472,937
GH-201C-160*/D1	686,207	267,949	380,118	316,465	230,535	650,601
GH-201C-180*/D1	868,484	339,124	481,089	414,403	301,882	851,952
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	573,844	224,074	317,880	211,274	153,907	434,345
GH-270C-140*/D1	719,835	281,077	398,745	289,716	211,051	595,611
GH-270C-160*/D1	940,188	367,124	520,809	408,117	297,304	839,029
GH-270C-180*/D1	1,189,932	464,645	659,152	542,312	395,059	1,114,906
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	719,835	281,077	398,745	289,716	211,051	595,611
GH-271C-160*/D1	940,188	367,124	520,809	408,117	297,304	839,029
GH-271C-180*/D1	1,189,932	464,645	659,152	542,312	395,059	1,114,906
GH-271C-200*/D1	1,469,048	573,633	813,770	692,293	504,317	1,423,237
GH-271C-220*/D1	1,777,550	694,094	984,661	858,055	625,072	1,764,028
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	1,232,016	481,077	682,463	495,855	361,220	1,019,404
GH-350C-180*/D1	1,559,268	608,863	863,748	671,699	489,317	1,380,906
GH-350C-200*/D1	1,925,025	751,684	1,066,354	868,231	632,485	1,784,944
GH-350C-220*/D1	2,329,281	909,535	1,290,287	1,085,451	790,723	2,231,508
GH-350C-250*/D1	3,007,852	1,174,509	1,666,179	1,450,063	1,056,336	2,981,097
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1	2,753,114	1,709,000	3,009,326	2,445,427	1,520,993	2,672,997
GH-350S-320*/D1	3,132,431	1,944,457	3,423,939	2,824,743	1,756,918	3,087,620
GH-350S-350*/D1	3,747,292	2,326,136	4,096,021	3,439,605	2,139,350	3,759,701
GH-350S-380*/D1	4,417,223	2,741,989	4,828,297	4,109,536	2,556,026	4,491,968
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	19,915	7,772	11,031	8,560	6,237	17,606
GH-065C-050*/D1	24,590	9,602	13,622	11,074	8,068	22,767
GH-085C-045*/D1	26,350	10,285	14,593	11,327	8,251	23,287
GH-085C-050*/D1	32,531	12,700	18,022	14,650	10,672	30,116
GH-085C-060*/D1	46,850	18,289	25,949	16,501	12,024	33,932
GH-085C-070*/D1	63,766	24,900	35,318	25,597	18,641	52,622
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	38,712	15,114	21,443	10,489	7,638	21,563
GH-100C-060*/D1	55,748	21,767	30,876	19,641	14,305	40,380
GH-100C-070*/D1	75,881	29,630	42,034	30,461	22,189	62,619
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	50,897	19,873	28,194	13,791	10,046	28,349
GH-130C-060*/D1	73,298	28,617	40,598	25,822	18,810	53,094
GH-130C-070*/D1	99,767	38,958	55,262	40,049	29,173	82,337
GH-130C-080*/D1	130,306	50,883	72,186	56,459	41,126	116,071
GH-130C-090*/D1	164,920	64,400	91,355	75,058	54,678	154,311
GH-130C-100*/D1	203,611	79,507	112,784	95,846	69,820	197,043
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	307,319	120,002	170,237	137,226	99,966	282,114
GH-161C-125F/D1	396,848	154,961	219,831	185,332	135,010	381,013
GH-161C-140F/D1	497,806	194,384	275,756	239,580	174,528	492,537
GH-161C-160F/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	259,429	101,302	143,709	104,139	75,860	214,100
GH-200C-100*/D1	320,288	125,061	177,416	136,839	99,683	281,323
GH-200C-110*/D1	389,059	151,918	215,515	173,790	126,603	357,288
GH-200C-125*/D1	502,399	196,177	278,295	207,271	150,989	426,116
GH-200C-140*/D1	630,205	246,082	349,101	275,944	201,020	567,305
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	389,059	151,918	215,515	173,790	126,603	357,288
GH-201C-125*/D1	502,399	196,177	278,295	207,271	150,989	426,116
GH-201C-140*/D1	630,205	246,082	349,101	275,944	201,020	567,305
GH-201C-160*/D1	823,130	321,414	455,965	379,611	276,535	780,420
GH-201C-180*/D1	1,041,777	406,792	577,084	497,091	362,118	1,021,946
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	688,347	268,785	381,308	253,431	184,617	521,012
GH-270C-140*/D1	863,468	337,162	478,309	347,524	253,164	714,457
GH-270C-160*/D1	1,127,789	440,379	624,729	489,551	356,627	1,006,445
GH-270C-180*/D1	1,427,366	557,358	790,677	650,522	473,888	1,337,370
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	863,468	337,162	478,309	347,524	253,164	714,457
GH-271C-160*/D1	1,127,789	440,379	624,729	489,551	356,627	1,006,445
GH-271C-180*/D1	1,427,366	557,358	790,677	650,522	473,888	1,337,370
GH-271C-200*/D1	1,762,176	688,093	976,146	830,430	604,947	1,707,224
GH-271C-220*/D1	2,132,235	832,591	1,181,136	1,029,268	749,797	2,116,015
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	1,477,848	577,069	818,638	594,796	433,297	1,222,812
GH-350C-180*/D1	1,870,398	730,353	1,036,096	805,728	586,953	1,656,446
GH-350C-200*/D1	2,309,137	901,672	1,279,130	1,041,475	758,688	2,141,105
GH-350C-220*/D1	2,794,056	1,091,021	1,547,745	1,302,037	948,501	2,676,774
GH-350C-250*/D1	3,608,027	1,408,865	1,998,641	1,739,403	1,267,113	3,575,933
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1	3,306,950	2,052,790	3,614,699	2,937,723	1,827,193	3,211,114
GH-350S-320*/D1	3,762,578	2,335,624	4,112,722	3,393,351	2,110,576	3,709,137
GH-350S-350*/D1	4,501,129	2,794,076	4,920,008	4,131,902	2,569,939	4,516,423
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	23,248	9,072	12,877	9,993	7,281	20,552
GH-065C-050*/D1	28,704	11,209	15,901	12,926	9,417	26,576
GH-085C-045*/D1	30,758	12,006	17,035	13,222	9,631	27,184
GH-085C-050*/D1	37,973	14,825	21,037	17,101	12,458	35,155
GH-085C-060*/D1	54,688	21,349	30,290	19,262	14,036	39,609
GH-085C-070*/D1	74,435	29,066	41,228	29,879	21,760	61,426
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	45,188	17,643	25,031	12,244	8,916	25,170
GH-100C-060*/D1	65,075	25,409	36,042	22,927	16,698	47,136
GH-100C-070*/D1	88,577	34,588	49,067	35,557	25,902	73,095
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	59,413	23,198	32,911	16,098	11,726	33,092
GH-130C-060*/D1	85,561	33,404	47,391	30,142	21,957	61,977
GH-130C-070*/D1	116,460	45,476	64,508	46,750	34,054	96,113
GH-130C-080*/D1	152,107	59,397	84,263	65,905	48,007	135,491
GH-130C-090*/D1	192,513	75,174	106,640	87,616	63,826	180,129
GH-130C-100*/D1	237,677	92,809	131,654	111,882	81,502	230,010
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	359,039	140,198	198,887	160,366	116,823	329,685
GH-161C-125F/D1	463,635	181,040	256,828	216,568	157,765	445,228
GH-161C-140F/D1						
GH-161C-160F/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	302,834	118,251	167,754	121,563	88,553	249,921
GH-200C-100*/D1	373,875	145,985	207,099	159,733	116,361	328,391
GH-200C-110*/D1	454,153	177,335	251,573	202,867	147,785	417,067
GH-200C-125*/D1	586,456	228,999	324,857	241,950	176,251	497,410
GH-200C-140*/D1	735,646	287,254	407,510	322,113	234,653	662,222
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	454,153	177,335	251,573	202,867	147,785	417,067
GH-201C-125*/D1	586,456	228,999	324,857	241,950	176,251	497,410
GH-201C-140*/D1	735,646	287,254	407,510	322,113	234,653	662,222
GH-201C-160*/D1	960,849	375,190	532,253	443,125	322,803	910,993
GH-201C-180*/D1	1,216,079	474,853	673,636	580,260	422,704	1,192,930
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	803,515	313,755	445,105	295,833	215,506	608,183
GH-270C-140*/D1	1,007,936	393,573	558,335	405,669	295,521	833,994
GH-270C-160*/D1	1,316,481	514,059	729,253	571,459	416,294	1,174,835
GH-270C-180*/D1	1,666,180	650,611	922,966	759,362	553,175	1,561,127
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	1,750 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	1,007,936	393,573	558,335	405,669	295,521	833,994
GH-271C-160*/D1	1,316,481	514,059	729,253	571,459	416,294	1,174,835
GH-271C-180*/D1	1,666,180	650,611	922,966	759,362	553,175	1,561,127
GH-271C-200*/D1	2,057,008	803,219	1,139,466	969,371	706,161	1,992,862
GH-271C-220*/D1	2,488,982	971,893	1,378,754	1,201,476	875,246	2,470,049
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	1,725,109	673,620	955,606	694,312	505,792	1,427,402
GH-350C-180*/D1	2,183,337	852,549	1,209,447	940,535	685,157	1,933,589
GH-350C-200*/D1	2,695,482	1,052,532	1,493,143	1,215,725	885,625	2,499,336
GH-350C-220*/D1	3,261,533	1,273,561	1,806,701	1,519,883	1,107,196	3,124,628
GH-350C-250*/D1	4,211,691	1,644,584	2,333,037	2,030,425	1,479,115	4,174,227
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1	3,860,786	2,396,588	4,220,073	3,430,029	2,133,394	3,749,231
GH-350S-320*/D1	4,392,716	2,726,783	4,801,505	3,961,959	2,464,244	4,330,663
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	26,581	10,374	14,725	11,429	8,326	23,504
GH-065C-050*/D1	32,823	12,815	18,177	14,786	10,767	30,391
GH-085C-045*/D1	35,168	13,731	19,485	15,126	11,020	31,097
GH-085C-050*/D1	43,424	16,956	24,053	19,554	14,245	40,207
GH-085C-060*/D1	62,534	24,410	34,637	22,039	16,050	45,316
GH-085C-070*/D1	85,114	33,233	47,147	34,175	24,890	70,258
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	51,672	20,173	28,621	14,010	10,209	28,804
GH-100C-060*/D1	74,408	29,057	41,219	26,224	19,101	53,921
GH-100C-070*/D1	101,286	39,545	56,100	40,669	29,624	83,606
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	67,939	26,529	37,636	18,421	13,417	37,880
GH-130C-060*/D1	97,833	38,202	54,191	34,488	25,117	70,903
GH-130C-070*/D1	133,167	51,994	73,763	53,467	38,952	109,925
GH-130C-080*/D1	173,933	67,913	96,342	75,376	54,906	154,962
GH-130C-090*/D1	220,138	85,959	121,939	100,196	72,996	205,997
GH-130C-100*/D1	271,775	106,115	150,542	127,945	93,204	263,039
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	410,758	160,393	227,537	183,505	133,679	377,257
GH-161C-125F/D1	530,422	207,119	293,824	247,804	180,519	509,444
GH-161C-140F/D1						
GH-161C-160F/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	346,279	135,216	191,822	139,043	101,286	285,854
GH-200C-100*/D1	427,513	166,932	236,815	182,685	133,080	375,588
GH-200C-110*/D1	519,156	202,719	287,580	231,933	168,955	476,822
GH-200C-125*/D1	670,396	261,775	371,360	276,631	201,516	568,709
GH-200C-140*/D1	840,946	328,372	465,837	368,265	268,279	757,105
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	519,156	202,719	287,580	231,933	168,955	476,822
GH-201C-125*/D1	670,396	261,775	371,360	276,631	201,516	568,709
GH-201C-140*/D1	840,946	328,372	465,837	368,265	268,279	757,105
GH-201C-160*/D1	1,098,379	428,890	608,437	506,594	369,041	1,041,486
GH-201C-180*/D1						
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	918,274	358,562	508,668	338,118	246,309	695,129
GH-270C-140*/D1	1,151,882	449,787	638,078	463,649	337,752	953,190
GH-270C-160*/D1	1,504,498	587,479	833,405	653,117	475,784	1,342,710
GH-270C-180*/D1	1,904,140	743,522	1,054,781	867,858	632,211	1,784,171
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	1,151,882	449,787	638,078	463,649	337,752	953,190
GH-271C-160*/D1	1,504,498	587,479	833,405	653,117	475,784	1,342,710
GH-271C-180*/D1	1,904,140	743,522	1,054,781	867,858	632,211	1,784,171
GH-271C-200*/D1	2,350,788	917,934	1,302,197	1,107,856	807,042	2,277,566
GH-271C-220*/D1						
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	1,971,477	769,825	1,092,085	793,546	578,081	1,631,406
GH-350C-180*/D1	2,495,158	974,305	1,382,176	1,074,937	783,058	2,209,888
GH-350C-200*/D1	3,080,440	1,202,847	1,706,389	1,389,421	1,012,158	2,856,432
GH-350C-220*/D1	3,727,333	1,455,451	2,064,734	1,737,016	1,265,372	3,571,028
GH-350C-250*/D1	4,813,193	1,879,459	2,666,231	2,320,485	1,690,409	4,770,527
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1	4,414,621	2,740,378	4,825,455	3,922,325	2,439,585	4,287,339
GH-350S-320*/D1						
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	29,962	11,693	16,595	12,886	9,384	26,494
GH-065C-050*/D1						
GH-085C-045*/D1	39,638	15,479	21,952	17,050	12,423	35,053
GH-085C-050*/D1	48,936	19,102	27,104	22,047	16,054	45,330
GH-085C-060*/D1	70,468	27,516	39,037	24,854	18,106	51,108
GH-085C-070*/D1						
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	58,234	22,734	32,255	15,814	11,513	32,512
GH-100C-060*/D1	83,861	32,744	46,455	29,576	21,549	60,818
GH-100C-070*/D1	114,141	44,566	63,230	45,854	33,405	94,266
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	76,563	29,894	42,411	20,785	15,144	42,746
GH-130C-060*/D1	110,260	43,055	61,075	38,891	28,331	79,963
GH-130C-070*/D1	150,078	58,603	83,131	60,285	43,913	123,945
GH-130C-080*/D1	196,018	76,537	108,577	84,977	61,899	174,692
GH-130C-090*/D1	248,087	96,867	137,424	112,947	82,281	232,213
GH-130C-100*/D1						
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	462,478	180,589	256,187	206,645	150,536	424,828
GH-161C-125F/D1						
GH-161C-140F/D1						
GH-161C-160F/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	390,250	152,379	216,176	156,775	114,201	322,298
GH-200C-100*/D1	481,794	188,128	266,880	205,960	150,035	423,423
GH-200C-110*/D1	584,809	228,358	323,946	261,317	190,360	537,221
GH-200C-125*/D1	755,182	294,877	418,324	311,695	227,062	640,801
GH-200C-140*/D1						
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	584,809	228,358	323,946	261,317	190,360	537,221
GH-201C-125*/D1	755,182	294,877	418,324	311,695	227,062	640,801
GH-201C-140*/D1	947,294	369,895	524,746	414,924	302,260	853,028
GH-201C-160*/D1	1,237,286	483,134	685,384	570,746	415,774	1,173,369
GH-201C-180*/D1						
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	1,033,936	403,729	572,738	380,789	277,397	782,844
GH-270C-140*/D1	1,296,970	506,443	718,446	522,128	380,351	1,073,411
GH-270C-160*/D1	1,694,003	661,475	938,383	735,462	535,770	1,511,996
GH-270C-180*/D1	2,143,980	837,180	1,187,637	977,248	711,896	2,009,063
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,250 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	1,296,970	506,443	718,446	522,128	380,351	1,073,411
GH-271C-160*/D1	1,694,003	661,475	938,383	735,462	535,770	1,511,996
GH-271C-180*/D1	2,143,980	837,180	1,187,637	977,248	711,896	2,009,063
GH-271C-200*/D1	2,646,886	1,033,558	1,466,219	1,247,476	908,755	2,564,605
GH-271C-220*/D1						
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	2,219,805	866,790	1,229,645	893,636	650,992	1,837,170
GH-350C-180*/D1	2,809,438	1,097,029	1,556,270	1,210,466	881,797	2,488,523
GH-350C-200*/D1	3,468,440	1,354,354	1,921,322	1,564,563	1,139,749	3,216,498
GH-350C-220*/D1	4,196,820	1,638,774	2,324,802	1,955,947	1,424,856	4,021,106
GH-350C-250*/D1						
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1						
GH-350S-320*/D1						
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1	33,315	13,004	18,455	14,335	10,444	29,475
GH-065C-050*/D1						
GH-085C-045*/D1	44,081	17,208	24,414	18,963	13,818	38,994
GH-085C-050*/D1	54,414	21,243	30,144	24,524	17,861	50,413
GH-085C-060*/D1	78,362	30,594	43,411	27,652	20,141	56,864
GH-085C-070*/D1						
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	64,756	25,287	35,866	17,598	12,817	36,189
GH-100C-060*/D1	93,256	36,409	51,651	32,908	23,973	67,664
GH-100C-070*/D1						
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	85,144	33,247	47,166	23,142	16,852	47,582
GH-130C-060*/D1	122,604	47,870	67,918	43,275	31,518	88,967
GH-130C-070*/D1	166,879	65,163	92,442	67,062	48,853	137,871
GH-130C-080*/D1	217,970	85,110	120,739	94,511	68,851	194,311
GH-130C-090*/D1	275,869	107,718	152,816	125,621	91,510	258,270
GH-130C-100*/D1						
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1	514,198	200,785	284,837	229,785	167,393	472,399
GH-161C-125F/D1						
GH-161C-140F/D1						
GH-161C-160F/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	433,957	169,448	240,384	174,390	127,037	358,520
GH-200C-100*/D1	535,750	209,197	296,773	229,084	166,888	470,968
GH-200C-110*/D1	650,071	253,837	360,105	290,517	211,630	597,259
GH-200C-125*/D1	839,457	327,791	465,009	346,559	252,455	712,471
GH-200C-140*/D1						
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	650,071	253,837	360,105	290,517	211,630	597,259
GH-201C-125*/D1	839,457	327,791	465,009	346,559	252,455	712,471
GH-201C-140*/D1	1,053,019	411,179	583,314	461,304	336,047	948,379
GH-201C-160*/D1						
GH-201C-180*/D1						
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	1,148,920	448,631	636,440	423,208	308,293	870,051
GH-270C-140*/D1	1,441,209	562,766	798,352	580,263	422,708	1,192,925
GH-270C-160*/D1	1,882,397	735,037	1,042,745	817,323	595,403	1,680,287
GH-270C-180*/D1						
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	2,500 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	1,441,209	562,766	798,352	580,263	422,708	1,192,925
GH-271C-160*/D1	1,882,397	735,037	1,042,745	817,323	595,403	1,680,287
GH-271C-180*/D1	2,382,416	930,280	1,319,724	1,085,995	791,121	2,232,635
GH-271C-200*/D1						
GH-271C-220*/D1						
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	2,466,669	963,188	1,366,399	993,137	723,474	2,041,723
GH-350C-180*/D1	3,121,878	1,219,034	1,729,344	1,345,198	979,947	2,765,511
GH-350C-200*/D1	3,854,176	1,504,982	2,134,996	1,738,686	1,266,590	3,574,451
GH-350C-220*/D1	4,663,557	1,821,023	2,583,348	2,173,584	1,583,403	4,468,534
GH-350C-250*/D1						
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1						
GH-350S-320*/D1						
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	3,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045*/D1						
GH-065C-050*/D1						
GH-085C-045*/D1	52,981	20,684	29,349	22,800	16,613	46,882
GH-085C-050*/D1	65,407	25,543	36,235	29,482	21,472	60,610
GH-085C-060*/D1						
GH-085C-070*/D1						
GH-085C-080*/D1						
GH-085C-090*/D1						
GH-085C-100*/D1						
GH-085C-110*/D1						
GH-085C-125*/D1						
GH-085C-140*/D1						
GH-085C-160*/D1						
GH-100C-050*/D1	77,842	30,393	43,121	21,180	15,427	43,546
GH-100C-060*/D1	112,095	43,767	62,088	39,581	28,836	81,383
GH-100C-070*/D1						
GH-100C-080*/D1						
GH-100C-090*/D1						
GH-100C-100*/D1						
GH-100C-110*/D1						
GH-100C-125*/D1						
GH-100C-140*/D1						
GH-100C-160*/D1						
GH-100C-180*/D1						
GH-100C-200*/D1						
GH-130C-050*/D1	102,341	39,961	56,689	27,844	20,286	57,256
GH-130C-060*/D1	147,374	57,548	81,639	52,042	37,908	106,997
GH-130C-070*/D1	200,593	78,329	111,121	80,639	58,742	165,792
GH-130C-080*/D1	262,009	102,306	145,135	113,635	82,781	233,624
GH-130C-090*/D1						
GH-130C-100*/D1						
GH-130C-110*/D1						
GH-130C-125*/D1						
GH-130C-140*/D1						
GH-130C-160*/D1						
GH-130C-180*/D1						
GH-130C-200*/D1						
GH-130C-210*/D1						
GH-130C-220*/D1						
GH-130C-240*/D1						
GH-161C-110F/D1						
GH-161C-125F/D1						
GH-161C-140F/D1						
GH-161C-160F/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	3,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090*/D1	521,619	203,682	288,950	209,701	152,755	431,111
GH-200C-100*/D1	643,981	251,459	356,729	275,444	200,655	566,271
GH-200C-110*/D1	781,114	305,006	432,687	349,127	254,335	717,760
GH-200C-125*/D1						
GH-200C-140*/D1						
GH-200C-160*/D1						
GH-200C-180*/D1						
GH-200C-200*/D1						
GH-200C-210*/D1						
GH-200C-220*/D1						
GH-200C-230*/D1						
GH-200C-240*/D1						
GH-200C-260*/D1						
GH-200C-280*/D1						
GH-200C-300*/D1						
GH-200C-320*/D1						
GH-200C-340*/D1						
GH-201C-110*/D1	781,114	305,006	432,687	349,127	254,335	717,760
GH-201C-125*/D1	1,008,667	393,867	558,748	416,507	303,413	856,266
GH-201C-140*/D1	1,265,277	494,067	700,891	554,384	403,860	1,139,729
GH-201C-160*/D1						
GH-201C-180*/D1						
GH-201C-200*/D1						
GH-201C-210*/D1						
GH-201C-220*/D1						
GH-201C-240*/D1						
GH-201C-260*/D1						
GH-201C-280*/D1						
GH-201C-300*/D1						
GH-201C-320*/D1						
GH-201C-340*/D1						
GH-201C-360*/D1						
GH-201C-380*/D1						
GH-270C-125*/D1	1,380,009	538,860	764,448	508,414	370,368	1,045,220
GH-270C-140*/D1	1,731,083	675,949	958,926	697,059	507,785	1,433,034
GH-270C-160*/D1						
GH-270C-180*/D1						
GH-270C-200*/D1						
GH-270C-220*/D1						
GH-270C-240*/D1						

GH RANGE TORQUE DATA
CANTED DOUBLE-ACTING
IMPERIAL

Model Number	3,000 PSI Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-270C-250*/D1						
GH-270C-280*/D1						
GH-270C-300*/D1						
GH-270C-320*/D1						
GH-270C-340*/D1						
GH-270C-360*/D1						
GH-270C-380*/D1						
GH-270C-400*/D1						
GH-271C-140*/D1	195,586	76,372	108,344	78,757	57,372	161,911
GH-271C-160*/D1	255,460	99,752	141,510	110,928	80,809	228,051
GH-271C-180*/D1						
GH-271C-200*/D1						
GH-271C-220*/D1						
GH-271C-240*/D1						
GH-271C-250*/D1						
GH-271C-280*/D1						
GH-271C-300*/D1						
GH-271C-320*/D1						
GH-271C-340*/D1						
GH-271C-360*/D1						
GH-271C-380*/D1						
GH-271C-400*/D1						
GH-271C-420*/D1						
GH-350C-160*/D1	2,962,797	1,156,917	1,641,221	1,193,028	869,091	2,452,684
GH-350C-180*/D1	3,749,797	1,464,224	2,077,174	1,615,908	1,177,150	3,322,041
GH-350C-200*/D1	4,629,376	1,807,677	2,564,407	2,088,529	1,521,444	4,293,685
GH-350C-220*/D1						
GH-350C-250*/D1						
GH-350C-280*/D1						
GH-350C-300*/D1						
GH-350C-320*/D1						
GH-350C-350*/D1						
GH-350C-380*/D1						
GH-350C-400*/D1						
GH-350C-440*/D1						
GH-350C-460*/D1						
GH-350S-300*/D1						
GH-350S-320*/D1						
GH-350S-350*/D1						
GH-350S-380*/D1						
GH-350S-400*/D1						
GH-350S-440*/D1						
GH-350S-460*/D1						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1						
GH-065C-060*/C1						
GH-065C-050*/C2						
GH-065C-060*/C2						
GH-065C-070*/C2						
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3						
GH-065C-050*/C4						
GH-065C-060*/C4						
GH-065C-070*/C4						
GH-085C-050*/C1						
GH-085C-060*/C1						
GH-085C-070*/C1						
GH-085C-050*/C2						
GH-085C-060*/C2						
GH-085C-070*/C2						
GH-085C-060*/C3						
GH-085C-070*/C3						
GH-085C-080*/C3						
GH-085C-090*/C3						
GH-085C-050*/C4						
GH-085C-060*/C4						
GH-085C-070*/C4						
GH-085C-080*/C4						
GH-085C-090*/C4						
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5						
GH-085C-080*/C5						
GH-085C-090*/C5						
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6						
GH-085C-080*/C6						
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7						
GH-085C-090*/C7						
GH-100C-070*/C1						
GH-100C-080*/C1						
GH-100C-090*/C1						
GH-100C-110*/C1						
GH-100C-080*/C2						
GH-100C-090*/C2						
GH-100C-110*/C2						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1						
GH-130C-090*/C1						
GH-130C-100*/C1						
GH-130C-110*/C1						
GH-130C-125*/C1						
GH-130C-080*/C2						
GH-130C-090*/C2						
GH-130C-100*/C2						
GH-130C-110*/C2						
GH-130C-125*/C2						
GH-130C-070*/C3						
GH-130C-080*/C3						
GH-130C-090*/C3						
GH-130C-100*/C3						
GH-130C-110*/C3						
GH-130C-125*/C3						
GH-130C-080*/C4						
GH-130C-090*/C4						
GH-130C-100*/C4						
GH-130C-110*/C4						
GH-130C-125*/C4						
GH-130C-080*/C5						
GH-130C-090*/C5						
GH-130C-100*/C5						
GH-130C-110*/C5						
GH-130C-125*/C5						
GH-130C-140*/C5						
GH-130C-090*/C6						
GH-130C-100*/C6						
GH-130C-110*/C6						
GH-130C-125*/C6						
GH-130C-140*/C6						
GH-161C-110F/C2						
GH-161C-110F/C3						
GH-161C-110F/C4						
GH-161C-110F/C5						
GH-161C-125F/C2						
GH-161C-125F/C3						
GH-161C-125F/C4						
GH-161C-125F/C5						
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4						
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1						
GH-200C-125*/C1						
GH-200C-140*/C1						
GH-200C-160*/C1						
GH-200C-180*/C1						
GH-200C-125*/C2						
GH-200C-140*/C2						
GH-200C-160*/C2						
GH-200C-180*/C2						
GH-201C-200*/C3						
GH-201C-160*/C7						
GH-201C-200*/C7						
GH-270C-200*/C0						
GH-270C-220*/C0						
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4						
GH-270C-240*/C4						
GH-271C-200*/C0						
GH-271C-220*/C0						
GH-271C-240*/C0						
GH-271C-250*/C0						
GH-271C-280*/C0						
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0	1,595,737	347,321	347,896	920,752	532,461	925,744
GH-271C-440*/C0	1,845,709	455,318	486,366	918,779	530,992	921,682
GH-271C-460*/C0	2,107,310	562,545	631,280	916,708	529,452	917,424
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3						
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4						
GH-271C-220*/C4						
GH-271C-240*/C4						
GH-271C-250*/C4						
GH-271C-280*/C4						
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4	1,698,680	393,141	404,922	870,710	495,138	822,854
GH-271C-440*/C4	1,948,652	497,855	543,392	868,728	493,659	818,792
GH-271C-460*/C4	2,210,254	604,134	688,305	866,665	492,111	814,543
GH-350C-220*/C1						
GH-350C-250*/C1						

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

Model Number	500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1						
GH-065C-060*/C1						
GH-065C-050*/C2						
GH-065C-060*/C2						
GH-065C-070*/C2						
GH-065C-080*/C2	14,427	2,930	2,921	11,975	7,452	15,471
GH-065C-090*/C2	22,649	6,408	7,470	11,842	7,355	15,197
GH-065C-070*/C3						
GH-065C-050*/C4						
GH-065C-060*/C4						
GH-065C-070*/C4						
GH-085C-050*/C1						
GH-085C-060*/C1						
GH-085C-070*/C1	17,436	4,275	4,549	10,727	6,523	12,851
GH-085C-050*/C2						
GH-085C-060*/C2						
GH-085C-070*/C2						
GH-085C-060*/C3						
GH-085C-070*/C3						
GH-085C-080*/C3						
GH-085C-090*/C3						
GH-085C-050*/C4						
GH-085C-060*/C4						
GH-085C-070*/C4						
GH-085C-080*/C4						
GH-085C-090*/C4						
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5						
GH-085C-080*/C5						
GH-085C-090*/C5						
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6						
GH-085C-080*/C6						
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7						
GH-085C-090*/C7						
GH-100C-070*/C1						
GH-100C-080*/C1						
GH-100C-090*/C1						
GH-100C-110*/C1						
GH-100C-080*/C2						
GH-100C-090*/C2						
GH-100C-110*/C2						

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1						
GH-130C-090*/C1						
GH-130C-100*/C1						
GH-130C-110*/C1						
GH-130C-125*/C1						
GH-130C-080*/C2						
GH-130C-090*/C2						
GH-130C-100*/C2						
GH-130C-110*/C2						
GH-130C-125*/C2						
GH-130C-070*/C3						
GH-130C-080*/C3						
GH-130C-090*/C3						
GH-130C-100*/C3						
GH-130C-110*/C3						
GH-130C-125*/C3						
GH-130C-080*/C4						
GH-130C-090*/C4						
GH-130C-100*/C4						
GH-130C-110*/C4						
GH-130C-125*/C4						
GH-130C-080*/C5						
GH-130C-090*/C5						
GH-130C-100*/C5						
GH-130C-110*/C5						
GH-130C-125*/C5						
GH-130C-140*/C5						
GH-130C-090*/C6						
GH-130C-100*/C6						
GH-130C-110*/C6						
GH-130C-125*/C6						
GH-130C-140*/C6						
GH-161C-110F/C2						
GH-161C-110F/C3						
GH-161C-110F/C4						
GH-161C-110F/C5						
GH-161C-125F/C2						
GH-161C-125F/C3						
GH-161C-125F/C4						
GH-161C-125F/C5						
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4						
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1						
GH-200C-125*/C1						
GH-200C-140*/C1						
GH-200C-160*/C1						
GH-200C-180*/C1						
GH-200C-125*/C2						
GH-200C-140*/C2						
GH-200C-160*/C2						
GH-200C-180*/C2						
GH-201C-200*/C3						
GH-201C-160*/C7						
GH-201C-200*/C7						
GH-270C-200*/C0						
GH-270C-220*/C0						
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4						
GH-270C-240*/C4						
GH-271C-200*/C0						
GH-271C-220*/C0						
GH-271C-240*/C0						
GH-271C-250*/C0						
GH-271C-280*/C0						
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0	1,564,494	330,974	330,593	927,736	537,657	940,109
GH-271C-360*/C0	1,871,199	465,895	500,483	926,125	536,462	936,799
GH-271C-380*/C0	2,195,420	598,143	680,083	924,425	535,196	933,303

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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0	2,537,174	734,993	869,391	922,638	533,860	929,621
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2	2,446,666	545,215	551,234	1,201,861	664,479	1,020,075
GH-271C-420*/C2	2,805,944	698,483	750,252	1,199,976	663,054	1,016,199
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3						
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3	2,277,386	458,752	457,460	1,284,155	726,310	1,189,258
GH-271C-420*/C3	2,636,656	627,616	656,478	1,282,270	724,903	1,185,390
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4						
GH-271C-220*/C4						
GH-271C-240*/C4						
GH-271C-250*/C4						
GH-271C-280*/C4						
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4	1,667,437	379,556	387,610	877,693	500,359	837,219
GH-271C-360*/C4	1,974,133	508,290	557,509	876,083	499,156	833,918
GH-271C-380*/C4	2,298,363	639,537	737,108	874,383	497,890	830,422
GH-271C-400*/C4	2,640,108	775,954	926,417	872,587	496,545	826,731
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1						



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

Model Number	750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1	4,687,101	1,056,797	1,074,233	1,978,417	1,031,626	1,320,957
GH-350C-480*/C1	5,226,793	1,286,996	1,373,185	1,975,594	1,029,448	1,315,133
GH-350C-500*/C1						

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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1						
GH-065C-060*/C1	12,869	3,602	4,169	7,417	4,664	9,922
GH-065C-050*/C2						
GH-065C-060*/C2						
GH-065C-070*/C2	15,312	3,381	3,408	12,090	7,541	15,710
GH-065C-080*/C2	25,048	7,364	8,798	11,975	7,452	15,471
GH-065C-090*/C2						
GH-065C-070*/C3						
GH-065C-050*/C4						
GH-065C-060*/C4						
GH-065C-070*/C4						
GH-085C-050*/C1						
GH-085C-060*/C1	17,020	4,098	4,319	10,869	6,620	13,126
GH-085C-070*/C1	28,190	8,594	10,506	10,727	6,523	12,851
GH-085C-050*/C2						
GH-085C-060*/C2						
GH-085C-070*/C2						
GH-085C-060*/C3						
GH-085C-070*/C3						
GH-085C-080*/C3						
GH-085C-090*/C3						
GH-085C-050*/C4						
GH-085C-060*/C4						
GH-085C-070*/C4						
GH-085C-080*/C4	29,305	6,620	6,735	20,153	12,276	24,295
GH-085C-090*/C4	43,909	12,603	14,825	19,976	12,143	23,932
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5						
GH-085C-080*/C5						
GH-085C-090*/C5						
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6						
GH-085C-080*/C6						
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7						
GH-085C-090*/C7						
GH-100C-070*/C1						
GH-100C-080*/C1						
GH-100C-090*/C1						
GH-100C-110*/C1						
GH-100C-080*/C2						
GH-100C-090*/C2						
GH-100C-110*/C2						

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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1						
GH-130C-090*/C1						
GH-130C-100*/C1						
GH-130C-110*/C1						
GH-130C-125*/C1	118,981	30,774	33,845	71,452	43,979	89,065
GH-130C-080*/C2						
GH-130C-090*/C2						
GH-130C-100*/C2						
GH-130C-110*/C2						
GH-130C-125*/C2						
GH-130C-070*/C3						
GH-130C-080*/C3						
GH-130C-090*/C3						
GH-130C-100*/C3						
GH-130C-110*/C3	75,178	16,108	16,091	64,212	40,430	85,923
GH-130C-125*/C3	122,902	35,819	42,528	63,832	40,147	85,153
GH-130C-080*/C4						
GH-130C-090*/C4						
GH-130C-100*/C4						
GH-130C-110*/C4						
GH-130C-125*/C4	105,899	29,022	33,120	72,098	46,263	102,138
GH-130C-080*/C5						
GH-130C-090*/C5						
GH-130C-100*/C5						
GH-130C-110*/C5						
GH-130C-125*/C5						
GH-130C-140*/C5	137,921	34,013	36,323	95,022	59,194	123,043
GH-130C-090*/C6						
GH-130C-100*/C6						
GH-130C-110*/C6						
GH-130C-125*/C6						
GH-130C-140*/C6						
GH-161C-110F/C2						
GH-161C-110F/C3						
GH-161C-110F/C4						
GH-161C-110F/C5						
GH-161C-125F/C2						
GH-161C-125F/C3						
GH-161C-125F/C4						
GH-161C-125F/C5						
GH-161C-140F/C2	152,862	37,540	39,991	122,844	78,511	171,924
GH-161C-140F/C3						
GH-161C-140F/C4						
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1						
GH-200C-125*/C1						
GH-200C-140*/C1						
GH-200C-160*/C1						
GH-200C-180*/C1	347,578	91,782	102,297	240,218	152,729	331,036
GH-200C-125*/C2						
GH-200C-140*/C2						
GH-200C-160*/C2						
GH-200C-180*/C2						
GH-201C-200*/C3						
GH-201C-160*/C7						
GH-201C-200*/C7						
GH-270C-200*/C0						
GH-270C-220*/C0						
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4						
GH-270C-240*/C4						
GH-271C-200*/C0						
GH-271C-220*/C0						
GH-271C-240*/C0						
GH-271C-250*/C0						
GH-271C-280*/C0						
GH-271C-300*/C0	1,667,304	379,494	387,539	930,683	539,843	946,154
GH-271C-320*/C0	2,030,389	531,284	588,663	929,258	538,781	943,224
GH-271C-340*/C0	2,416,892	686,995	802,763	927,736	537,657	940,109
GH-271C-360*/C0	2,826,814	850,026	1,029,847	926,125	536,462	936,799
GH-271C-380*/C0						



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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2	2,326,384	485,393	484,605	1,206,959	668,320	1,030,564
GH-271C-360*/C2	2,736,316	669,515	711,680	1,205,357	667,108	1,027,253
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3						
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3	2,567,027	597,895	617,906	1,287,651	728,930	1,196,444
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4						
GH-271C-220*/C4						
GH-271C-240*/C4						
GH-271C-250*/C4						
GH-271C-280*/C4						
GH-271C-300*/C4	1,770,247	423,677	444,564	880,632	502,563	843,264
GH-271C-320*/C4	2,133,323	573,060	645,689	879,207	501,501	840,343
GH-271C-340*/C4	2,519,826	728,089	859,788	877,693	500,359	837,219
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1						

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

Model Number	1,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1	4,751,808	1,085,226	1,110,070	1,986,188	1,037,618	1,336,923
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1	9,869	2,381	2,514	7,497	4,726	10,099
GH-065C-060*/C1	18,843	5,974	7,479	7,417	4,664	9,922
GH-065C-050*/C2						
GH-065C-060*/C2						
GH-065C-070*/C2	23,437	6,727	7,913	12,090	7,541	15,710
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3						
GH-065C-050*/C4						
GH-065C-060*/C4						
GH-065C-070*/C4	16,462	3,611	3,629	15,843	10,205	22,676
GH-085C-050*/C1						
GH-085C-060*/C1	24,924	7,302	8,700	10,869	6,620	13,126
GH-085C-070*/C1	38,943	12,825	16,462	10,727	6,523	12,851
GH-085C-050*/C2						
GH-085C-060*/C2						
GH-085C-070*/C2	31,004	7,780	8,399	17,808	10,745	20,782
GH-085C-060*/C3						
GH-085C-070*/C3						
GH-085C-080*/C3						
GH-085C-090*/C3	53,140	13,586	14,834	28,614	17,117	32,482
GH-085C-050*/C4						
GH-085C-060*/C4						
GH-085C-070*/C4	27,181	5,567	5,558	20,304	12,391	24,614
GH-085C-080*/C4	43,360	12,382	14,515	20,153	12,276	24,295
GH-085C-090*/C4	61,690	19,640	24,676	19,976	12,143	23,932
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5						
GH-085C-080*/C5						
GH-085C-090*/C5	48,183	11,524	12,090	31,022	18,905	37,430
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6						
GH-085C-080*/C6						
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7						
GH-085C-090*/C7						
GH-100C-070*/C1						
GH-100C-080*/C1						
GH-100C-090*/C1						
GH-100C-110*/C1	108,917	27,862	30,438	48,237	27,367	45,227
GH-100C-080*/C2						
GH-100C-090*/C2						
GH-100C-110*/C2	91,614	20,560	20,852	56,645	33,624	62,522

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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1						
GH-130C-090*/C1						
GH-130C-100*/C1						
GH-130C-110*/C1	112,812	28,234	30,438	71,833	44,263	89,844
GH-130C-125*/C1	172,643	52,255	63,575	71,452	43,979	89,065
GH-130C-080*/C2						
GH-130C-090*/C2						
GH-130C-100*/C2						
GH-130C-110*/C2						
GH-130C-125*/C2	159,322	40,439	43,971	88,658	53,326	102,385
GH-130C-070*/C3						
GH-130C-080*/C3						
GH-130C-090*/C3						
GH-130C-100*/C3	80,090	18,356	18,817	63,902	40,200	85,286
GH-130C-110*/C3	116,733	33,358	39,111	64,212	40,430	85,923
GH-130C-125*/C3	176,564	57,017	72,258	63,832	40,147	85,153
GH-130C-080*/C4						
GH-130C-090*/C4						
GH-130C-100*/C4						
GH-130C-110*/C4	99,739	26,526	29,703	72,479	46,546	102,908
GH-130C-125*/C4	159,570	50,325	62,840	72,098	46,263	102,138
GH-130C-080*/C5						
GH-130C-090*/C5						
GH-130C-100*/C5						
GH-130C-110*/C5						
GH-130C-125*/C5	137,771	33,951	36,244	95,446	59,512	123,919
GH-130C-140*/C5	205,240	61,132	73,612	95,022	59,194	123,043
GH-130C-090*/C6						
GH-130C-100*/C6						
GH-130C-110*/C6						
GH-130C-125*/C6						
GH-130C-140*/C6	178,511	36,182	36,085	127,955	77,267	149,764
GH-161C-110F/C2						
GH-161C-110F/C3						
GH-161C-110F/C4						
GH-161C-110F/C5						
GH-161C-125F/C2	152,672	37,460	39,886	123,374	78,903	173,013
GH-161C-125F/C3						
GH-161C-125F/C4						
GH-161C-125F/C5						
GH-161C-140F/C2	236,639	71,253	86,400	122,844	78,511	171,924
GH-161C-140F/C3	196,093	55,118	63,939	142,556	93,100	212,448
GH-161C-140F/C4						
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						



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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1						
GH-200C-125*/C1						
GH-200C-140*/C1						
GH-200C-160*/C1	341,064	89,136	98,686	241,360	153,578	333,390
GH-200C-180*/C1	522,619	161,579	199,257	240,218	152,729	331,036
GH-200C-125*/C2						
GH-200C-140*/C2						
GH-200C-160*/C2						
GH-200C-180*/C2	418,136	96,464	99,199	328,035	206,010	435,466
GH-201C-200*/C3						
GH-201C-160*/C7						
GH-201C-200*/C7						
GH-270C-200*/C0						
GH-270C-220*/C0						
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4						
GH-270C-240*/C4						
GH-271C-200*/C0						
GH-271C-220*/C0						
GH-271C-240*/C0						
GH-271C-250*/C0						
GH-271C-280*/C0	1,905,743	480,189	519,619	932,011	540,834	948,898
GH-271C-300*/C0	2,330,934	652,619	755,146	930,683	539,843	946,154
GH-271C-320*/C0	2,785,446	833,626	1,006,923	929,258	538,781	943,224
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						

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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2	2,694,938	652,203	688,765	1,208,481	669,462	1,033,679
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3						
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3	2,525,659	580,025	594,992	1,290,776	731,267	1,202,870
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4						
GH-271C-220*/C4						
GH-271C-240*/C4						
GH-271C-250*/C4						
GH-271C-280*/C4	2,008,678	522,424	576,644	881,968	503,563	846,008
GH-271C-300*/C4	2,433,868	693,784	812,171	880,632	502,563	843,264
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1						



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

Model Number	1,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1	4,496,606	969,228	968,706	1,991,835	1,041,963	1,348,536
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1	14,020	4,062	4,815	7,497	4,726	10,099
GH-065C-060*/C1	24,818	8,320	10,789	7,417	4,664	9,922
GH-065C-050*/C2						
GH-065C-060*/C2	18,817	4,859	5,346	12,187	7,612	15,914
GH-065C-070*/C2	31,571	9,948	12,418	12,090	7,541	15,710
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3						
GH-065C-050*/C4						
GH-065C-060*/C4						
GH-065C-070*/C4	24,596	6,974	8,134	15,843	10,205	22,676
GH-085C-050*/C1	18,551	4,735	5,169	10,975	6,709	13,356
GH-085C-060*/C1	32,827	10,426	13,073	10,869	6,620	13,126
GH-085C-070*/C1	49,697	17,047	22,419	10,727	6,523	12,851
GH-085C-050*/C2						
GH-085C-060*/C2	24,888	5,027	5,010	17,940	10,842	21,056
GH-085C-070*/C2	41,767	12,126	14,356	17,808	10,745	20,782
GH-085C-060*/C3						
GH-085C-070*/C3						
GH-085C-080*/C3	48,856	11,807	12,453	28,791	17,250	32,836
GH-085C-090*/C3	70,921	20,737	24,685	28,614	17,117	32,482
GH-085C-050*/C4						
GH-085C-060*/C4						
GH-085C-070*/C4	37,934	10,205	11,515	20,304	12,391	24,614
GH-085C-080*/C4	57,406	17,949	22,304	20,153	12,276	24,295
GH-085C-090*/C4	79,471	26,623	34,527	19,976	12,143	23,932
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5						
GH-085C-080*/C5	43,900	9,656	9,709	31,199	19,029	37,793
GH-085C-090*/C5	65,965	18,764	21,932	31,022	18,905	37,430
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6						
GH-085C-080*/C6						
GH-085C-090*/C6	58,300	13,568	14,028	37,970	23,021	45,095
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7						
GH-085C-090*/C7						
GH-100C-070*/C1						
GH-100C-080*/C1						
GH-100C-090*/C1						
GH-100C-110*/C1						
GH-100C-080*/C2						
GH-100C-090*/C2						
GH-100C-110*/C2	123,220	33,677	38,368	56,645	33,624	62,522

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1						
GH-130C-090*/C1						
GH-130C-100*/C1	110,519	27,287	29,163	71,523	44,032	89,207
GH-130C-110*/C1	154,366	45,006	53,450	71,833	44,263	89,844
GH-130C-125*/C1	226,305	73,417	93,305	71,452	43,979	89,065
GH-130C-080*/C2						
GH-130C-090*/C2						
GH-130C-100*/C2						
GH-130C-110*/C2	141,046	32,783	33,845	89,039	53,600	103,155
GH-130C-125*/C2	212,984	62,061	73,700	88,658	53,326	102,385
GH-130C-070*/C3						
GH-130C-080*/C3						
GH-130C-090*/C3	75,851	16,454	16,471	64,212	40,430	85,914
GH-130C-100*/C3	114,440	32,438	37,846	63,902	40,200	85,286
GH-130C-110*/C3	158,287	49,821	62,132	64,212	40,430	85,923
GH-130C-125*/C3	230,226	78,072	101,987	63,832	40,147	85,153
GH-130C-080*/C4						
GH-130C-090*/C4						
GH-130C-100*/C4	97,438	25,596	28,429	72,169	46,316	102,270
GH-130C-110*/C4	141,293	43,112	52,724	72,479	46,546	102,908
GH-130C-125*/C4	213,232	71,417	92,570	72,098	46,263	102,138
GH-130C-080*/C5						
GH-130C-090*/C5						
GH-130C-100*/C5						
GH-130C-110*/C5	119,494	26,057	26,119	95,818	59,787	124,698
GH-130C-125*/C5	191,433	55,645	65,965	95,446	59,512	123,919
GH-130C-140*/C5	272,550	87,702	110,909	95,022	59,194	123,043
GH-130C-090*/C6						
GH-130C-100*/C6						
GH-130C-110*/C6						
GH-130C-125*/C6						
GH-130C-140*/C6	245,821	65,478	73,373	127,955	77,267	149,764
GH-161C-110F/C2	129,930	27,289	27,289	123,844	79,250	173,978
GH-161C-110F/C3						
GH-161C-110F/C4						
GH-161C-110F/C5						
GH-161C-125F/C2	219,459	64,437	76,882	123,374	78,903	173,013
GH-161C-125F/C3	178,913	48,206	54,422	143,086	93,492	213,537
GH-161C-125F/C4						
GH-161C-125F/C5						
GH-161C-140F/C2	320,417	104,283	132,808	122,844	78,511	171,924
GH-161C-140F/C3	279,871	88,329	110,347	142,556	93,100	212,448
GH-161C-140F/C4	217,635	57,136	63,442	183,721	120,115	274,650
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1						
GH-200C-125*/C1						
GH-200C-140*/C1	286,755	66,522	68,602	242,369	154,322	335,461
GH-200C-160*/C1	479,365	144,480	175,307	241,360	153,578	333,390
GH-200C-180*/C1	697,660	230,465	296,226	240,218	152,729	331,036
GH-200C-125*/C2						
GH-200C-140*/C2						
GH-200C-160*/C2	374,882	75,453	75,240	329,177	206,860	437,820
GH-200C-180*/C2	593,177	168,155	196,159	328,035	206,010	435,466
GH-201C-200*/C3						
GH-201C-160*/C7						
GH-201C-200*/C7	716,158	177,219	189,663	457,478	281,091	566,944
GH-270C-200*/C0						
GH-270C-220*/C0						
GH-270C-240*/C0	1,568,052	332,903	332,558	934,400	542,613	953,810
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4						
GH-270C-240*/C4	1,670,995	381,113	389,583	884,358	505,351	850,920
GH-271C-200*/C0						
GH-271C-220*/C0						
GH-271C-240*/C0	1,568,052	332,903	332,558	934,400	542,613	953,810
GH-271C-250*/C0	1,783,789	429,385	452,061	933,843	542,197	952,650
GH-271C-280*/C0	2,483,830	713,751	839,848	932,011	540,834	948,898
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2	2,393,331	520,858	521,690	1,211,234	671,542	1,039,344
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3						
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3	2,734,767	668,869	710,830	1,292,201	732,338	1,205,800
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4						
GH-271C-220*/C4						
GH-271C-240*/C4	1,670,995	381,113	389,583	884,358	505,351	850,920
GH-271C-250*/C4	1,886,732	472,338	509,086	883,792	504,926	849,761
GH-271C-280*/C4	2,586,773	754,730	896,873	881,968	503,563	846,008
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1						

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

Model Number	1,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1	4,520,591	981,256	981,991	1,994,862	1,044,300	1,354,758
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1	18,171	5,709	7,107	7,497	4,726	10,099
GH-065C-060*/C1	30,792	10,656	14,099	7,417	4,664	9,922
GH-065C-050*/C2						
GH-065C-060*/C2	24,791	7,266	8,656	12,187	7,612	15,914
GH-065C-070*/C2						
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3	24,065	4,894	4,886	22,649	14,418	31,341
GH-065C-050*/C4						
GH-065C-060*/C4	17,817	4,204	4,372	15,949	10,276	22,888
GH-065C-070*/C4	32,730	10,196	12,639	15,843	10,205	22,676
GH-085C-050*/C1	24,039	6,948	8,205	10,975	6,709	13,356
GH-085C-060*/C1	40,731	13,533	17,454	10,869	6,620	13,126
GH-085C-070*/C1	60,459	21,260	28,384	10,727	6,523	12,851
GH-085C-050*/C2						
GH-085C-060*/C2	32,792	8,514	9,391	17,940	10,842	21,056
GH-085C-070*/C2	52,520	16,383	20,312	17,808	10,745	20,782
GH-085C-060*/C3						
GH-085C-070*/C3						
GH-085C-080*/C3	62,902	17,533	20,242	28,791	17,250	32,836
GH-085C-090*/C3						
GH-085C-050*/C4						
GH-085C-060*/C4	28,960	6,470	6,550	20,436	12,488	24,888
GH-085C-070*/C4	48,688	14,506	17,471	20,304	12,391	24,614
GH-085C-080*/C4	71,452	23,481	30,084	20,153	12,276	24,295
GH-085C-090*/C4						
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5						
GH-085C-080*/C5	57,946	15,542	17,498	31,199	19,029	37,793
GH-085C-090*/C5	83,746	25,818	31,783	31,022	18,905	37,430
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6						
GH-085C-080*/C6						
GH-085C-090*/C6	76,081	20,888	23,870	37,970	23,021	45,095
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7						
GH-085C-090*/C7						
GH-100C-070*/C1						
GH-100C-080*/C1						
GH-100C-090*/C1	99,597	23,994	25,278	48,555	27,614	45,900
GH-100C-110*/C1						
GH-100C-080*/C2						
GH-100C-090*/C2						
GH-100C-110*/C2						

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1						
GH-130C-090*/C1	99,748	22,711	23,198	71,824	44,254	89,835
GH-130C-100*/C1	144,860	41,209	48,183	71,523	44,032	89,207
GH-130C-110*/C1	195,929	61,451	76,470	71,833	44,263	89,844
GH-130C-125*/C1	279,967	94,473	123,034	71,452	43,979	89,065
GH-130C-080*/C2						
GH-130C-090*/C2						
GH-130C-100*/C2	131,540	28,553	28,579	88,729	53,370	102,518
GH-130C-110*/C2	182,600	49,909	56,866	89,039	53,600	103,155
GH-130C-125*/C2	266,647	83,312	103,421	88,658	53,326	102,385
GH-130C-070*/C3						
GH-130C-080*/C3						
GH-130C-090*/C3	103,669	28,119	31,880	64,212	40,430	85,914
GH-130C-100*/C3	148,781	46,068	56,866	63,902	40,200	85,286
GH-130C-110*/C3	199,850	66,159	85,153	64,212	40,430	85,923
GH-130C-125*/C3	283,888	99,093	131,708	63,832	40,147	85,153
GH-130C-080*/C4						
GH-130C-090*/C4	86,675	21,162	22,463	72,470	46,537	102,899
GH-130C-100*/C4	131,788	39,342	47,458	72,169	46,316	102,270
GH-130C-110*/C4	182,848	59,486	75,745	72,479	46,546	102,908
GH-130C-125*/C4	266,894	92,437	122,300	72,098	46,263	102,138
GH-130C-080*/C5						
GH-130C-090*/C5						
GH-130C-100*/C5						
GH-130C-110*/C5	161,057	43,475	49,139	95,818	59,787	124,698
GH-130C-125*/C5	245,095	76,895	95,694	95,446	59,512	123,919
GH-130C-140*/C5	0	0	0	0	0	0
GH-130C-090*/C6						
GH-130C-100*/C6						
GH-130C-110*/C6						
GH-130C-125*/C6	218,366	54,229	58,167	128,380	77,577	150,631
GH-130C-140*/C6						
GH-161C-110F/C2	181,650	49,312	55,938	123,844	79,250	173,978
GH-161C-110F/C3	141,104	32,557	33,478	143,555	93,839	214,502
GH-161C-110F/C4						
GH-161C-110F/C5						
GH-161C-125F/C2	286,246	90,839	113,879	123,374	78,903	173,013
GH-161C-125F/C3	245,700	74,843	91,418	143,086	93,492	213,537
GH-161C-125F/C4	183,464	42,952	44,513	184,251	120,507	275,738
GH-161C-125F/C5						
GH-161C-140F/C2	404,194	137,152	179,216	122,844	78,511	171,924
GH-161C-140F/C3	363,648	121,259	156,755	142,556	93,100	212,448
GH-161C-140F/C4	301,413	90,656	109,850	183,721	120,115	274,650
GH-161C-140F/C5	240,033	49,149	49,149	236,994	152,129	335,996
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1						
GH-200C-125*/C1						
GH-200C-140*/C1	392,646	109,962	127,265	242,369	154,322	335,461
GH-200C-160*/C1	617,676	199,036	251,919	241,360	153,578	333,390
GH-200C-180*/C1	872,711	299,093	393,186	240,218	152,729	331,036
GH-200C-125*/C2						
GH-200C-140*/C2						
GH-200C-160*/C2	513,184	135,965	151,852	329,177	206,860	437,820
GH-200C-180*/C2	768,219	237,625	293,128	328,035	206,010	435,466
GH-201C-200*/C3	777,485	162,172	161,907	586,902	359,739	721,637
GH-201C-160*/C7						
GH-201C-200*/C7	932,267	264,850	309,369	457,478	281,091	566,944
GH-270C-200*/C0						
GH-270C-220*/C0	1,519,877	306,714	305,873	935,462	543,401	955,978
GH-270C-240*/C0	1,992,773	515,919	567,829	934,400	542,613	953,810
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4	1,622,820	359,748	362,898	885,411	506,139	853,097
GH-270C-240*/C4	2,095,716	557,827	624,854	884,358	505,351	850,920
GH-271C-200*/C0						
GH-271C-220*/C0	1,519,877	306,714	305,873	935,462	543,401	955,978
GH-271C-240*/C0	1,992,773	515,919	567,829	934,400	542,613	953,810
GH-271C-250*/C0	2,244,639	617,951	707,352	933,843	542,197	952,650
GH-271C-280*/C0						
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						

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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3						
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3	2,802,139	696,908	748,145	1,293,537	733,329	1,208,535
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4						
GH-271C-220*/C4	1,622,820	359,748	362,898	885,411	506,139	853,097
GH-271C-240*/C4	2,095,716	557,827	624,854	884,358	505,351	850,920
GH-271C-250*/C4	2,347,582	659,292	764,377	883,792	504,926	849,761
GH-271C-280*/C4						
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1						



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

Model Number	1,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1	4,674,798	1,051,345	1,067,418	1,996,729	1,045,734	1,358,599
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						



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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1	22,322	7,337	9,408	7,497	4,726	10,099
GH-065C-060*/C1						
GH-065C-050*/C2	16,321	3,824	3,965	12,276	7,674	16,091
GH-065C-060*/C2	30,765	9,630	11,966	12,187	7,612	15,914
GH-065C-070*/C2						
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3	32,190	8,452	9,391	22,649	14,418	31,341
GH-065C-050*/C4						
GH-065C-060*/C4	23,791	6,647	7,682	15,949	10,276	22,888
GH-065C-070*/C4						
GH-085C-050*/C1	29,526	9,125	11,249	10,975	6,709	13,356
GH-085C-060*/C1	48,635	16,631	21,826	10,869	6,620	13,126
GH-085C-070*/C1	71,213	25,464	34,341	10,727	6,523	12,851
GH-085C-050*/C2						
GH-085C-060*/C2	40,696	11,692	13,763	17,940	10,842	21,056
GH-085C-070*/C2	63,274	20,613	26,278	17,808	10,745	20,782
GH-085C-060*/C3						
GH-085C-070*/C3	50,901	12,657	13,586	28,942	17,365	33,155
GH-085C-080*/C3	76,957	23,136	28,021	28,791	17,250	32,836
GH-085C-090*/C3						
GH-085C-050*/C4						
GH-085C-060*/C4	36,863	9,771	10,922	20,436	12,488	24,888
GH-085C-070*/C4	59,450	18,755	23,428	20,304	12,391	24,614
GH-085C-080*/C4	85,507	28,986	37,864	20,153	12,276	24,295
GH-085C-090*/C4						
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5	45,944	10,559	10,842	31,349	19,144	38,111
GH-085C-080*/C5	72,001	21,162	25,278	31,199	19,029	37,793
GH-085C-090*/C5						
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6						
GH-085C-080*/C6	64,336	16,108	17,365	38,138	23,154	45,449
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7						
GH-085C-090*/C7	77,683	19,852	21,684	48,538	29,995	61,256
GH-100C-070*/C1						
GH-100C-080*/C1	85,489	17,498	17,463	48,697	27,721	46,183
GH-100C-090*/C1	120,760	32,677	36,996	48,555	27,614	45,900
GH-100C-110*/C1						
GH-100C-080*/C2						
GH-100C-090*/C2	103,456	25,605	27,411	56,972	33,863	63,194
GH-100C-110*/C2						

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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1						
GH-130C-090*/C1	127,566	34,261	38,607	71,824	44,254	89,835
GH-130C-100*/C1	179,210	54,848	67,213	71,523	44,032	89,207
GH-130C-110*/C1	237,483	77,798	99,491	71,833	44,263	89,844
GH-130C-125*/C1						
GH-130C-080*/C2						
GH-130C-090*/C2						
GH-130C-100*/C2	165,881	43,130	47,608	88,729	53,370	102,518
GH-130C-110*/C2	224,163	66,505	79,887	89,039	53,600	103,155
GH-130C-125*/C2						
GH-130C-070*/C3						
GH-130C-080*/C3	85,286	20,578	21,693	64,478	40,625	86,472
GH-130C-090*/C3	131,487	39,227	47,290	64,212	40,430	85,914
GH-130C-100*/C3	183,131	59,592	75,895	63,902	40,200	85,286
GH-130C-110*/C3	241,404	82,454	108,174	64,212	40,430	85,923
GH-130C-125*/C3						
GH-130C-080*/C4						
GH-130C-090*/C4	114,493	32,465	37,872	72,470	46,537	102,899
GH-130C-100*/C4	166,129	52,910	66,478	72,169	46,316	102,270
GH-130C-110*/C4	224,411	75,798	98,757	72,479	46,546	102,908
GH-130C-125*/C4						
GH-130C-080*/C5						
GH-130C-090*/C5						
GH-130C-100*/C5	144,329	36,660	39,881	95,508	59,557	124,061
GH-130C-110*/C5	202,611	60,088	72,160	95,818	59,787	124,698
GH-130C-125*/C5	298,757	98,004	125,424	95,446	59,512	123,919
GH-130C-140*/C5						
GH-130C-090*/C6						
GH-130C-100*/C6						
GH-130C-110*/C6						
GH-130C-125*/C6	272,028	76,037	87,897	128,380	77,577	150,631
GH-130C-140*/C6						
GH-161C-110F/C2	233,370	69,957	84,588	123,844	79,250	173,978
GH-161C-110F/C3	192,823	53,807	62,128	143,555	93,839	214,502
GH-161C-110F/C4						
GH-161C-110F/C5						
GH-161C-125F/C2	353,033	117,090	150,875	123,374	78,903	173,013
GH-161C-125F/C3	312,487	101,169	128,415	143,086	93,492	213,537
GH-161C-125F/C4	250,251	70,294	81,509	184,251	120,507	275,738
GH-161C-125F/C5	188,871	20,808	20,808	237,524	152,521	337,085
GH-161C-140F/C2	487,972	169,965	225,624	122,844	78,511	171,924
GH-161C-140F/C3	447,426	154,092	203,163	142,556	93,100	212,448
GH-161C-140F/C4	385,190	123,713	156,258	183,721	120,115	274,650
GH-161C-140F/C5	323,810	85,649	95,557	236,994	152,129	335,996
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1						
GH-200C-125*/C1	327,982	83,781	91,446	243,042	154,817	336,842
GH-200C-140*/C1	498,536	152,074	185,919	242,369	154,322	335,461
GH-200C-160*/C1	755,978	253,353	328,531	241,360	153,578	333,390
GH-200C-180*/C1						
GH-200C-125*/C2						
GH-200C-140*/C2	394,053	85,728	85,852	330,186	207,603	439,891
GH-200C-160*/C2	651,495	191,406	228,464	329,177	206,860	437,820
GH-200C-180*/C2						
GH-201C-200*/C3	993,585	256,397	281,613	586,902	359,739	721,637
GH-201C-160*/C7						
GH-201C-200*/C7	1,148,367	350,702	429,084	457,478	281,091	566,944
GH-270C-200*/C0						
GH-270C-220*/C0	1,876,766	468,205	503,563	935,462	543,401	955,978
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4	1,979,700	510,573	560,589	885,411	506,139	853,097
GH-270C-240*/C4						
GH-271C-200*/C0						
GH-271C-220*/C0	1,876,766	468,205	503,563	935,462	543,401	955,978
GH-271C-240*/C0	2,417,494	687,234	803,099	934,400	542,613	953,810
GH-271C-250*/C0	2,705,488	801,940	962,634	933,843	542,197	952,650
GH-271C-280*/C0						
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						



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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2	2,326,986	485,720	484,941	1,213,624	673,339	1,044,265
GH-271C-250*/C2	2,614,989	618,393	644,476	1,213,066	672,914	1,043,105
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3						
GH-271C-240*/C3						
GH-271C-250*/C3	2,445,710	544,781	550,703	1,295,360	734,701	1,212,296
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4						
GH-271C-220*/C4	1,979,700	510,573	560,589	885,411	506,139	853,097
GH-271C-240*/C4	2,520,437	728,337	860,125	884,358	505,351	850,920
GH-271C-250*/C4	2,808,431	842,742	1,019,660	883,792	504,926	849,761
GH-271C-280*/C4						
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1						

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

Model Number	2,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1	4,650,998	1,040,777	1,054,231	1,998,482	1,047,079	1,362,184
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1	26,464	8,966	11,710	7,497	4,726	10,099
GH-065C-060*/C1						
GH-065C-050*/C2	20,463	5,532	6,266	12,276	7,674	16,091
GH-065C-060*/C2						
GH-065C-070*/C2						
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3						
GH-065C-050*/C4						
GH-065C-060*/C4	29,765	9,028	10,993	15,949	10,276	22,888
GH-065C-070*/C4						
GH-085C-050*/C1	35,014	11,285	14,285	10,975	6,709	13,356
GH-085C-060*/C1	56,539	19,719	26,207	10,869	6,620	13,126
GH-085C-070*/C1	81,967	29,668	40,297	10,727	6,523	12,851
GH-085C-050*/C2	27,074	6,116	6,222	18,056	10,922	21,286
GH-085C-060*/C2	48,599	14,834	18,144	17,940	10,842	21,056
GH-085C-070*/C2	74,037	24,835	32,234	17,808	10,745	20,782
GH-085C-060*/C3						
GH-085C-070*/C3	61,654	17,038	19,551	28,942	17,365	33,155
GH-085C-080*/C3						
GH-085C-090*/C3						
GH-085C-050*/C4						
GH-085C-060*/C4	44,767	12,949	15,303	20,436	12,488	24,888
GH-085C-070*/C4	70,204	22,985	29,393	20,304	12,391	24,614
GH-085C-080*/C4						
GH-085C-090*/C4						
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5	56,698	15,037	16,799	31,349	19,144	38,111
GH-085C-080*/C5	86,047	26,729	33,058	31,199	19,029	37,793
GH-085C-090*/C5						
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6						
GH-085C-080*/C6	78,382	21,817	25,145	38,138	23,154	45,449
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7	62,203	13,126	13,108	48,706	30,119	61,619
GH-085C-090*/C7						
GH-100C-070*/C1						
GH-100C-080*/C1	102,208	25,092	26,720	48,697	27,721	46,183
GH-100C-090*/C1						
GH-100C-110*/C1						
GH-100C-080*/C2	84,905	17,179	17,135	57,105	33,969	63,478
GH-100C-090*/C2						
GH-100C-110*/C2						

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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1	103,350	24,269	25,189	72,098	44,457	90,393
GH-130C-090*/C1	155,393	45,413	54,016	71,824	44,254	89,835
GH-130C-100*/C1	213,551	68,390	86,242	71,523	44,032	89,207
GH-130C-110*/C1	279,038	94,110	122,512	71,833	44,263	89,844
GH-130C-125*/C1						
GH-130C-080*/C2						
GH-130C-090*/C2	142,063	33,226	34,412	89,030	53,600	103,147
GH-130C-100*/C2	200,231	56,981	66,628	88,729	53,370	102,518
GH-130C-110*/C2	265,717	82,949	102,908	89,039	53,600	103,155
GH-130C-125*/C2						
GH-130C-070*/C3						
GH-130C-080*/C3	107,271	29,570	33,872	64,478	40,625	86,472
GH-130C-090*/C3	159,314	50,219	62,699	64,212	40,430	85,914
GH-130C-100*/C3	217,472	73,072	94,915	63,902	40,200	85,286
GH-130C-110*/C3	282,958	98,730	131,195	64,212	40,430	85,923
GH-130C-125*/C3						
GH-130C-080*/C4	90,278	22,658	24,455	72,744	46,741	103,465
GH-130C-090*/C4	142,311	43,510	53,282	72,470	46,537	102,899
GH-130C-100*/C4	200,478	66,407	85,507	72,169	46,316	102,270
GH-130C-110*/C4	265,965	92,074	121,777	72,479	46,546	102,908
GH-130C-125*/C4						
GH-130C-080*/C5						
GH-130C-090*/C5	120,521	26,526	26,685	95,818	59,787	124,689
GH-130C-100*/C5	178,679	50,555	58,902	95,508	59,557	124,061
GH-130C-110*/C5	244,166	76,524	95,181	95,818	59,787	124,698
GH-130C-125*/C5						
GH-130C-140*/C5						
GH-130C-090*/C6						
GH-130C-100*/C6						
GH-130C-110*/C6	217,436	53,848	57,654	128,761	77,860	151,410
GH-130C-125*/C6						
GH-130C-140*/C6						
GH-161C-110F/C2	233,370	69,957	84,588	123,844	79,250	173,978
GH-161C-110F/C3	244,543	74,385	90,778	143,555	93,839	214,502
GH-161C-110F/C4	182,308	42,455	43,873	184,720	120,854	276,704
GH-161C-110F/C5						
GH-161C-125F/C2	419,820	143,275	187,871	123,374	78,903	173,013
GH-161C-125F/C3	379,273	127,387	165,411	143,086	93,492	213,537
GH-161C-125F/C4	250,251	70,294	81,509	184,251	120,507	275,738
GH-161C-125F/C5	255,658	57,111	57,804	237,524	152,521	337,085
GH-161C-140F/C2	571,749	202,740	272,032	122,844	78,511	171,924
GH-161C-140F/C3	531,203	186,878	249,571	142,556	93,100	212,448
GH-161C-140F/C4	468,968	156,624	202,666	183,721	120,115	274,650
GH-161C-140F/C5	407,588	119,252	141,965	236,994	152,129	335,996
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1						
GH-200C-125*/C1	412,401	117,857	138,204	243,042	154,817	336,842
GH-200C-140*/C1	604,427	193,823	244,582	242,369	154,322	335,461
GH-200C-160*/C1						
GH-200C-180*/C1						
GH-200C-125*/C2						
GH-200C-140*/C2	499,943	130,575	144,515	330,186	207,603	439,891
GH-200C-160*/C2	789,797	246,148	305,077	329,177	206,860	437,820
GH-200C-180*/C2						
GH-201C-200*/C3	1,209,694	343,604	401,328	586,902	359,739	721,637
GH-201C-160*/C7	662,541	154,614	159,960	456,539	280,392	565,005
GH-201C-200*/C7						
GH-270C-200*/C0	1,677,996	384,176	393,460	936,427	544,118	957,961
GH-270C-220*/C0						
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4	1,780,939	428,190	450,485	886,376	506,865	855,080
GH-270C-220*/C4						
GH-270C-240*/C4						
GH-271C-200*/C0	1,677,996	384,176	393,460	936,427	544,118	957,961
GH-271C-220*/C0	2,233,646	613,534	701,263	935,462	543,401	955,978
GH-271C-240*/C0						
GH-271C-250*/C0						
GH-271C-280*/C0						
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						



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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2	2,751,707	675,949	720,212	1,213,624	673,339	1,044,265
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3						
GH-271C-240*/C3	2,582,428	604,506	626,438	1,295,927	735,117	1,213,456
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4	1,780,939	428,190	450,485	886,376	506,865	855,080
GH-271C-220*/C4	2,336,589	654,894	758,279	885,411	506,139	853,097
GH-271C-240*/C4						
GH-271C-250*/C4						
GH-271C-280*/C4						
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1						

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

Model Number	2,250 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1	30,615	10,594	14,002	7,497	4,726	10,099
GH-065C-060*/C1						
GH-065C-050*/C2	24,614	7,196	8,559	12,276	7,674	16,091
GH-065C-060*/C2						
GH-065C-070*/C2						
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3						
GH-065C-050*/C4	17,640	4,133	4,284	16,038	10,338	23,065
GH-065C-060*/C4						
GH-065C-070*/C4						
GH-085C-050*/C1	40,501	13,435	17,330	10,975	6,709	13,356
GH-085C-060*/C1	64,433	22,817	30,588	10,869	6,620	13,126
GH-085C-070*/C1						
GH-085C-050*/C2	32,562	8,417	9,258	18,056	10,922	21,286
GH-085C-060*/C2	56,503	17,949	22,525	17,940	10,842	21,056
GH-085C-070*/C2	84,790	29,057	38,191	17,808	10,745	20,782
GH-085C-060*/C3	44,121	9,762	9,833	29,075	17,463	33,429
GH-085C-070*/C3	72,408	21,330	25,508	28,942	17,365	33,155
GH-085C-080*/C3						
GH-085C-090*/C3						
GH-085C-050*/C4	28,738	6,364	6,417	20,551	12,568	25,118
GH-085C-060*/C4	52,671	16,082	19,675	20,436	12,488	24,888
GH-085C-070*/C4	80,958	27,207	35,350	20,304	12,391	24,614
GH-085C-080*/C4						
GH-085C-090*/C4						
GH-085C-050*/C5						
GH-085C-060*/C5						
GH-085C-070*/C5	67,452	19,357	22,764	31,349	19,144	38,111
GH-085C-080*/C5						
GH-085C-090*/C5						
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6	59,796	14,205	14,852	38,297	23,269	45,767
GH-085C-080*/C6						
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7	76,258	19,268	20,888	48,706	30,119	61,619
GH-085C-090*/C7						
GH-100C-070*/C1						
GH-100C-080*/C1	118,928	31,934	35,978	48,697	27,721	46,183
GH-100C-090*/C1						
GH-100C-110*/C1						
GH-100C-080*/C2	101,624	24,844	26,402	57,105	33,969	63,478
GH-100C-090*/C2						
GH-100C-110*/C2						

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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1						
GH-130C-080*/C1	125,327	33,358	37,368	72,098	44,457	90,393
GH-130C-090*/C1	183,211	56,432	69,425	71,824	44,254	89,835
GH-130C-100*/C1	247,901	81,887	105,262	71,523	44,032	89,207
GH-130C-110*/C1						
GH-130C-125*/C1						
GH-130C-080*/C2						
GH-130C-090*/C2	169,881	44,767	49,821	89,030	53,600	103,147
GH-130C-100*/C2	234,571	70,638	85,658	88,729	53,370	102,518
GH-130C-110*/C2	307,271	99,314	125,928	89,039	53,600	103,155
GH-130C-125*/C2						
GH-130C-070*/C3	78,179	17,524	17,763	64,726	40,811	86,967
GH-130C-080*/C3	129,248	38,341	46,050	64,478	40,625	86,472
GH-130C-090*/C3	187,131	61,168	78,108	64,212	40,430	85,914
GH-130C-100*/C3	251,813	86,534	113,945	63,902	40,200	85,286
GH-130C-110*/C3						
GH-130C-125*/C3						
GH-130C-080*/C4	112,254	31,571	36,633	72,744	46,741	103,465
GH-130C-090*/C4	170,129	54,485	68,700	72,470	46,537	102,899
GH-130C-100*/C4	234,819	79,878	104,527	72,169	46,316	102,270
GH-130C-110*/C4	307,519	108,333	144,798	72,479	46,546	102,908
GH-130C-125*/C4						
GH-130C-080*/C5						
GH-130C-090*/C5	148,339	38,306	42,094	95,818	59,787	124,689
GH-130C-100*/C5	213,020	64,221	77,931	95,508	59,557	124,061
GH-130C-110*/C5	285,729	92,880	118,202	95,818	59,787	124,698
GH-130C-125*/C5						
GH-130C-140*/C5						
GH-130C-090*/C6						
GH-130C-100*/C6	186,291	40,386	40,395	128,451	77,630	150,773
GH-130C-110*/C6	258,999	70,797	80,675	128,761	77,860	151,410
GH-130C-125*/C6						
GH-130C-140*/C6						
GH-161C-110F/C2	336,809	110,720	141,888	123,844	79,250	173,978
GH-161C-110F/C3	296,263	94,782	119,428	143,555	93,839	214,502
GH-161C-110F/C4	234,027	63,775	72,523	184,720	120,854	276,704
GH-161C-110F/C5						
GH-161C-125F/C2	486,606	169,431	224,867	123,374	78,903	173,013
GH-161C-125F/C3	446,060	153,557	202,407	143,086	93,492	213,537
GH-161C-125F/C4	383,825	123,176	155,502	184,251	120,507	275,738
GH-161C-125F/C5	322,445	85,094	94,800	237,524	152,521	337,085
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4	552,745	189,456	249,074	183,721	120,115	274,650
GH-161C-140F/C5	491,365	152,430	188,373	236,994	152,129	335,996
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1	307,475	75,293	80,082	243,635	155,260	338,063
GH-200C-125*/C1	496,810	151,392	184,963	243,042	154,817	336,842
GH-200C-140*/C1	710,317	235,430	303,236	242,369	154,322	335,461
GH-200C-160*/C1						
GH-200C-180*/C1						
GH-200C-125*/C2	392,327	84,914	84,896	330,859	208,099	441,272
GH-200C-140*/C2	605,834	173,218	203,169	330,186	207,603	439,891
GH-200C-160*/C2						
GH-200C-180*/C2						
GH-201C-200*/C3						
GH-201C-160*/C7	800,851	211,958	236,572	456,539	280,392	565,005
GH-201C-200*/C7						
GH-270C-200*/C0	1,972,938	507,803	556,845	936,427	544,118	957,961
GH-270C-220*/C0						
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4	2,075,881	549,773	613,870	886,376	506,865	855,080
GH-270C-220*/C4						
GH-270C-240*/C4						
GH-271C-200*/C0	1,972,938	507,803	556,845	936,427	544,118	957,961
GH-271C-220*/C0	2,590,526	756,226	898,953	935,462	543,401	955,978
GH-271C-240*/C0						
GH-271C-250*/C0						
GH-271C-280*/C0						
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						

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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2	2,500,027	568,838	580,795	1,214,686	674,135	1,046,433
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3	2,330,748	487,756	487,021	1,296,980	735,913	1,215,624
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4	2,075,881	549,773	613,870	886,376	506,865	855,080
GH-271C-220*/C4	2,693,469	797,178	955,978	885,411	506,139	853,097
GH-271C-240*/C4						
GH-271C-250*/C4						
GH-271C-280*/C4						
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1	4,634,191	1,033,254	1,044,920	2,000,871	1,048,929	1,367,105



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

Model Number	2,500 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1	34,766	12,214	16,303	7,497	4,726	10,099
GH-065C-060*/C1						
GH-065C-050*/C2	28,765	8,842	10,860	12,276	7,674	16,091
GH-065C-060*/C2						
GH-065C-070*/C2						
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3						
GH-065C-050*/C4	21,791	5,841	6,576	16,038	10,338	23,065
GH-065C-060*/C4						
GH-065C-070*/C4						
GH-085C-050*/C1	45,988	15,595	20,366	10,975	6,709	13,356
GH-085C-060*/C1	72,337	25,906	34,960	10,869	6,620	13,126
GH-085C-070*/C1						
GH-085C-050*/C2	38,049	10,639	12,303	18,056	10,922	21,286
GH-085C-060*/C2	64,407	21,056	26,897	17,940	10,842	21,056
GH-085C-070*/C2						
GH-085C-060*/C3	52,025	13,126	14,214	29,075	17,463	33,429
GH-085C-070*/C3	83,170	25,588	31,464	28,942	17,365	33,155
GH-085C-080*/C3						
GH-085C-090*/C3						
GH-085C-050*/C4	34,226	8,691	9,461	20,551	12,568	25,118
GH-085C-060*/C4	60,575	19,197	24,056	20,436	12,488	24,888
GH-085C-070*/C4						
GH-085C-080*/C4						
GH-085C-090*/C4						
GH-085C-050*/C5						
GH-085C-060*/C5	47,068	11,046	11,471	31,482	19,242	38,386
GH-085C-070*/C5	78,214	23,632	28,721	31,349	19,144	38,111
GH-085C-080*/C5						
GH-085C-090*/C5						
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6	70,549	18,649	20,808	38,297	23,269	45,767
GH-085C-080*/C6						
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7						
GH-085C-080*/C7						
GH-085C-090*/C7						
GH-100C-070*/C1	92,765	21,065	21,490	48,821	27,809	46,431
GH-100C-080*/C1						
GH-100C-090*/C1						
GH-100C-110*/C1						
GH-100C-080*/C2	118,343	31,703	35,660	57,105	33,969	63,478
GH-100C-090*/C2						
GH-100C-110*/C2						



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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1	91,092	18,454	18,401	72,337	44,634	90,888
GH-130C-080*/C1	147,312	42,192	49,546	72,098	44,457	90,393
GH-130C-090*/C1	211,028	67,398	84,843	71,824	44,254	89,835
GH-130C-100*/C1	282,242	95,367	124,291	71,523	44,032	89,207
GH-130C-110*/C1						
GH-130C-125*/C1						
GH-130C-080*/C2	133,983	29,685	29,942	89,304	53,804	103,713
GH-130C-090*/C2	197,708	55,972	65,230	89,030	53,600	103,147
GH-130C-100*/C2	268,921	84,206	104,678	88,729	53,370	102,518
GH-130C-110*/C2						
GH-130C-125*/C2						
GH-130C-070*/C3	95,013	24,605	27,083	64,726	40,811	86,967
GH-130C-080*/C3	151,233	47,033	58,229	64,478	40,625	86,472
GH-130C-090*/C3	214,949	72,089	93,517	64,212	40,430	85,914
GH-130C-100*/C3	286,162	99,978	132,965	63,902	40,200	85,286
GH-130C-110*/C3						
GH-130C-125*/C3						
GH-130C-080*/C4	134,239	40,315	48,812	72,744	46,741	103,465
GH-130C-090*/C4	197,956	65,416	84,109	72,470	46,537	102,899
GH-130C-100*/C4	269,169	93,331	123,556	72,169	46,316	102,270
GH-130C-110*/C4						
GH-130C-125*/C4						
GH-130C-080*/C5						
GH-130C-090*/C5	176,156	49,546	57,503	95,818	59,787	124,689
GH-130C-100*/C5	247,370	77,789	96,951	95,508	59,557	124,061
GH-130C-110*/C5						
GH-130C-125*/C5						
GH-130C-140*/C5						
GH-130C-090*/C6						
GH-130C-100*/C6	220,640	55,176	59,424	128,451	77,630	150,773
GH-130C-110*/C6	300,554	87,428	103,695	128,761	77,860	151,410
GH-130C-125*/C6						
GH-130C-140*/C6						
GH-161C-110F/C2	388,529	131,014	170,538	123,844	79,250	173,978
GH-161C-110F/C3	347,983	115,108	148,078	143,555	93,839	214,502
GH-161C-110F/C4	285,747	84,447	101,172	184,720	120,854	276,704
GH-161C-110F/C5						
GH-161C-125F/C2	553,393	195,559	261,863	123,374	78,903	173,013
GH-161C-125F/C3	512,847	179,697	239,403	143,086	93,492	213,537
GH-161C-125F/C4	450,612	149,417	192,498	184,251	120,507	275,738
GH-161C-125F/C5	389,232	111,947	131,797	237,524	152,521	337,085
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4						
GH-161C-140F/C5	575,143	185,438	234,781	236,994	152,129	335,996
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1	372,847	102,005	116,299	243,635	155,260	338,063
GH-200C-125*/C1	581,229	184,689	231,730	243,042	154,817	336,842
GH-200C-140*/C1	816,207	276,958	361,889	242,369	154,322	335,461
GH-200C-160*/C1						
GH-200C-180*/C1						
GH-200C-125*/C2	476,737	121,069	131,664	330,859	208,099	441,272
GH-200C-140*/C2	711,724	215,294	261,832	330,186	207,603	439,891
GH-200C-160*/C2						
GH-200C-180*/C2						
GH-201C-200*/C3						
GH-201C-160*/C7	939,153	267,602	313,193	456,539	280,392	565,005
GH-201C-200*/C7						
GH-270C-200*/C0						
GH-270C-220*/C0						
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4						
GH-270C-240*/C4						
GH-271C-200*/C0	2,267,890	627,288	720,230	936,427	544,118	957,961
GH-271C-220*/C0						
GH-271C-240*/C0						
GH-271C-250*/C0						
GH-271C-280*/C0						
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						

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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2						
GH-271C-220*/C2						
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3						
GH-271C-220*/C3	2,687,628	649,123	684,712	1,296,980	735,913	1,215,624
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4	2,370,824	668,577	777,246	886,376	506,865	855,080
GH-271C-220*/C4						
GH-271C-240*/C4						
GH-271C-250*/C4						
GH-271C-280*/C4						
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1	5,238,086	1,291,696	1,379,442	2,000,871	1,048,929	1,367,105

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

Model Number	2,750 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/C1						
GH-065C-060*/C1						
GH-065C-050*/C2	32,916	10,470	13,161	12,276	7,674	16,091
GH-065C-060*/C2						
GH-065C-070*/C2						
GH-065C-080*/C2						
GH-065C-090*/C2						
GH-065C-070*/C3						
GH-065C-050*/C4	25,933	7,505	8,877	16,038	10,338	23,065
GH-065C-060*/C4						
GH-065C-070*/C4						
GH-085C-050*/C1	51,476	17,746	23,401	10,975	6,709	13,356
GH-085C-060*/C1	80,241	28,995	39,342	10,869	6,620	13,126
GH-085C-070*/C1						
GH-085C-050*/C2	43,537	12,825	15,338	18,056	10,922	21,286
GH-085C-060*/C2	72,311	24,163	31,279	17,940	10,842	21,056
GH-085C-070*/C2						
GH-085C-060*/C3	59,928	16,338	18,587	29,075	17,463	33,429
GH-085C-070*/C3						
GH-085C-080*/C3						
GH-085C-090*/C3						
GH-085C-050*/C4	39,713	10,922	12,497	20,551	12,568	25,118
GH-085C-060*/C4	68,478	22,313	28,437	20,436	12,488	24,888
GH-085C-070*/C4						
GH-085C-080*/C4						
GH-085C-090*/C4						
GH-085C-050*/C5						
GH-085C-060*/C5	54,972	14,329	15,843	31,482	19,242	38,386
GH-085C-070*/C5						
GH-085C-080*/C5						
GH-085C-090*/C5						
GH-085C-050*/C6						
GH-085C-060*/C6						
GH-085C-070*/C6	81,303	22,985	26,765	38,297	23,269	45,767
GH-085C-080*/C6						
GH-085C-090*/C6						
GH-085C-050*/C7						
GH-085C-060*/C7						
GH-085C-070*/C7	65,124	14,542	14,719	48,865	30,234	61,938
GH-085C-080*/C7						
GH-085C-090*/C7						
GH-100C-070*/C1	105,572	26,481	28,588	48,821	27,809	46,431
GH-100C-080*/C1						
GH-100C-090*/C1						
GH-100C-110*/C1						
GH-100C-080*/C2						
GH-100C-090*/C2						
GH-100C-110*/C2						



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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/C1	107,917	26,198	27,721	72,337	44,634	90,888
GH-130C-080*/C1	169,288	50,927	61,716	72,098	44,457	90,393
GH-130C-090*/C1	238,846	78,338	100,252	71,824	44,254	89,835
GH-130C-100*/C1						
GH-130C-110*/C1						
GH-130C-125*/C1						
GH-130C-080*/C2	155,968	39,058	42,112	89,304	53,804	103,713
GH-130C-090*/C2	225,526	67,044	80,648	89,030	53,600	103,147
GH-130C-100*/C2	303,262	97,730	123,707	88,729	53,370	102,518
GH-130C-110*/C2						
GH-130C-125*/C2						
GH-130C-070*/C3	111,838	31,402	36,403	64,726	40,811	86,967
GH-130C-080*/C3	173,209	55,698	70,399	64,478	40,625	86,472
GH-130C-090*/C3	242,767	82,985	108,935	64,212	40,430	85,914
GH-130C-100*/C3						
GH-130C-110*/C3						
GH-130C-125*/C3						
GH-130C-080*/C4	156,216	49,007	60,991	72,744	46,741	103,465
GH-130C-090*/C4	225,774	76,329	99,518	72,470	46,537	102,899
GH-130C-100*/C4	303,510	106,767	142,577	72,169	46,316	102,270
GH-130C-110*/C4						
GH-130C-125*/C4						
GH-130C-080*/C5	134,416	32,544	34,385	96,093	59,990	125,247
GH-130C-090*/C5	203,974	60,628	72,912	95,818	59,787	124,689
GH-130C-100*/C5	281,711	91,304	115,980	95,508	59,557	124,061
GH-130C-110*/C5						
GH-130C-125*/C5						
GH-130C-140*/C5						
GH-130C-090*/C6						
GH-130C-100*/C6	254,981	69,177	78,453	128,451	77,630	150,773
GH-130C-110*/C6						
GH-130C-125*/C6						
GH-130C-140*/C6						
GH-161C-110F/C2	440,249	151,280	199,188	123,844	79,250	173,978
GH-161C-110F/C3	399,703	135,392	176,727	143,555	93,839	214,502
GH-161C-110F/C4	337,467	104,911	129,822	184,720	120,854	276,704
GH-161C-110F/C5						
GH-161C-125F/C2						
GH-161C-125F/C3						
GH-161C-125F/C4	517,399	175,605	229,494	184,251	120,507	275,738
GH-161C-125F/C5	456,019	138,466	168,793	237,524	152,521	337,085
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4						
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						

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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/C5						
GH-161C-180F/C2						
GH-161C-180F/C3						
GH-161C-180F/C4						
GH-161C-180F/C5						
GH-161C-200F/C3						
GH-161C-200F/C4						
GH-161C-200F/C5						
GH-161C-210F/C4						
GH-161C-210F/C5						
GH-161C-220F/C4						
GH-161C-220F/C5						
GH-200C-110*/C1	438,218	128,150	152,507	243,635	155,260	338,063
GH-200C-125*/C1	665,638	217,888	278,489	243,042	154,817	336,842
GH-200C-140*/C1						
GH-200C-160*/C1						
GH-200C-180*/C1						
GH-200C-125*/C2	561,155	155,322	178,422	330,859	208,099	441,272
GH-200C-140*/C2	817,615	257,123	320,486	330,186	207,603	439,891
GH-200C-160*/C2						
GH-200C-180*/C2						
GH-201C-200*/C3						
GH-201C-160*/C7	1,077,464	322,619	389,805	456,539	280,392	565,005
GH-201C-200*/C7						
GH-270C-200*/C0						
GH-270C-220*/C0						
GH-270C-240*/C0						
GH-270C-200*/C2						
GH-270C-220*/C2						
GH-270C-240*/C2						
GH-270C-250*/C2						
GH-270C-280*/C2						
GH-270C-220*/C3						
GH-270C-250*/C3						
GH-270C-280*/C3						
GH-270C-200*/C4						
GH-270C-220*/C4						
GH-270C-240*/C4						
GH-271C-200*/C0	2,562,832	745,207	883,606	936,427	544,118	957,961
GH-271C-220*/C0						
GH-271C-240*/C0						
GH-271C-250*/C0						
GH-271C-280*/C0						
GH-271C-300*/C0						
GH-271C-320*/C0						
GH-271C-340*/C0						
GH-271C-360*/C0						
GH-271C-380*/C0						

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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/C0						
GH-271C-420*/C0						
GH-271C-440*/C0						
GH-271C-460*/C0						
GH-271C-200*/C2	2,472,324	556,641	565,448	1,215,651	674,861	1,048,416
GH-271C-220*/C2						
GH-271C-240*/C2						
GH-271C-250*/C2						
GH-271C-280*/C2						
GH-271C-300*/C2						
GH-271C-320*/C2						
GH-271C-340*/C2						
GH-271C-360*/C2						
GH-271C-380*/C2						
GH-271C-400*/C2						
GH-271C-420*/C2						
GH-271C-440*/C2						
GH-271C-460*/C2						
GH-271C-200*/C3	2,303,045	472,701	471,674	1,297,945	736,630	1,217,607
GH-271C-220*/C3						
GH-271C-240*/C3						
GH-271C-250*/C3						
GH-271C-280*/C3						
GH-271C-300*/C3						
GH-271C-320*/C3						
GH-271C-340*/C3						
GH-271C-360*/C3						
GH-271C-380*/C3						
GH-271C-400*/C3						
GH-271C-420*/C3						
GH-271C-440*/C3						
GH-271C-460*/C3						
GH-271C-200*/C4	2,665,775	786,168	940,631	886,376	506,865	855,080
GH-271C-220*/C4						
GH-271C-240*/C4						
GH-271C-250*/C4						
GH-271C-280*/C4						
GH-271C-300*/C4						
GH-271C-320*/C4						
GH-271C-340*/C4						
GH-271C-360*/C4						
GH-271C-380*/C4						
GH-271C-400*/C4						
GH-271C-420*/C4						
GH-271C-440*/C4						
GH-271C-460*/C4						
GH-350C-220*/C1						
GH-350C-250*/C1						

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

Model Number	3,000 PSI			SPRING		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/C1						
GH-350C-300*/C1						
GH-350C-320*/C1						
GH-350C-350*/C1						
GH-350C-380*/C1						
GH-350C-400*/C1						
GH-350C-420*/C1						
GH-350C-440*/C1						
GH-350C-460*/C1						
GH-350C-480*/C1						
GH-350C-500*/C1						

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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/O1						
GH-065C-060*/O1						
GH-065C-050*/O2						
GH-065C-060*/O2						
GH-065C-070*/O2						
GH-065C-080*/O2						
GH-065C-090*/O2						
GH-065C-070*/O3						
GH-065C-050*/O4						
GH-065C-060*/O4						
GH-065C-070*/O4						
GH-085C-050*/O1						
GH-085C-060*/O1						
GH-085C-070*/O1						
GH-085C-050*/O2						
GH-085C-060*/O2						
GH-085C-070*/O2						
GH-085C-060*/O3						
GH-085C-070*/O3						
GH-085C-080*/O3						
GH-085C-090*/O3						
GH-085C-050*/O4						
GH-085C-060*/O4						
GH-085C-070*/O4						
GH-085C-080*/O4						
GH-085C-090*/O4						
GH-085C-050*/O5						
GH-085C-060*/O5						
GH-085C-070*/O5						
GH-085C-080*/O5						
GH-085C-090*/O5						
GH-085C-050*/O6						
GH-085C-060*/O6						
GH-085C-070*/O6						
GH-085C-080*/O6						
GH-085C-090*/O6						
GH-085C-050*/O7						
GH-085C-060*/O7						
GH-085C-070*/O7						
GH-085C-080*/O7						
GH-085C-090*/O7						
GH-100C-070*/O1						
GH-100C-080*/O1						
GH-100C-090*/O1						
GH-100C-110*/O1						
GH-100C-080*/O2						
GH-100C-090*/O2						
GH-100C-110*/O2						

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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/O1						
GH-130C-080*/O1						
GH-130C-090*/O1						
GH-130C-100*/O1						
GH-130C-110*/O1						
GH-130C-125*/O1						
GH-130C-080*/O2						
GH-130C-090*/O2						
GH-130C-100*/O2						
GH-130C-110*/O2						
GH-130C-125*/O2						
GH-130C-070*/O3						
GH-130C-080*/O3						
GH-130C-090*/O3						
GH-130C-100*/O3						
GH-130C-110*/O3						
GH-130C-125*/O3						
GH-130C-080*/O4						
GH-130C-090*/O4						
GH-130C-100*/O4						
GH-130C-110*/O4						
GH-130C-125*/O4						
GH-130C-080*/O5						
GH-130C-090*/O5						
GH-130C-100*/O5						
GH-130C-110*/O5						
GH-130C-125*/O5						
GH-130C-140*/O5						
GH-130C-090*/O6						
GH-130C-100*/O6						
GH-130C-110*/O6						
GH-130C-125*/O6						
GH-130C-140*/O6						
GH-161C-110F/O2						
GH-161C-110F/O3						
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2						
GH-161C-125F/O3						
GH-161C-125F/O4						
GH-161C-125F/O5						
GH-161C-140F/O2						
GH-161C-140F/O3						
GH-161C-140F/O4						
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						



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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/O5						
GH-161C-180F/O2						
GH-161C-180F/O3						
GH-161C-180F/O4						
GH-161C-180F/O5						
GH-161C-200F/O3						
GH-161C-200F/O4						
GH-161C-200F/O5						
GH-161C-210F/O4						
GH-161C-210F/O5						
GH-161C-220F/O4						
GH-161C-220F/O5						
GH-200C-110*/O1						
GH-200C-125*/O1						
GH-200C-140*/O1						
GH-200C-160*/O1						
GH-200C-180*/O1						
GH-200C-125*/O2						
GH-200C-140*/O2						
GH-200C-160*/O2						
GH-200C-180*/O2						
GH-201C-200*/O3						
GH-201C-160*/O7						
GH-201C-200*/O7						
GH-270C-200*/O0						
GH-270C-220*/O0						
GH-270C-240*/O0						
GH-270C-200*/O2						
GH-270C-220*/O2						
GH-270C-240*/O2						
GH-270C-250*/O2						
GH-270C-280*/O2						
GH-270C-220*/O3						
GH-270C-250*/O3						
GH-270C-280*/O3						
GH-270C-200*/O4						
GH-270C-220*/O4						
GH-270C-240*/O4						
GH-271C-200*/O0						
GH-271C-220*/O0						
GH-271C-240*/O0						
GH-271C-250*/O0						
GH-271C-280*/O0						
GH-271C-300*/O0						
GH-271C-320*/O0						
GH-271C-340*/O0						
GH-271C-360*/O0						
GH-271C-380*/O0	1,720,055	432,731	467,815	607,754	196,956	180,458



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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/O0	1,716,718	431,359	465,965	729,576	369,997	430,908
GH-271C-420*/O0	1,713,213	429,916	464,018	857,647	468,488	694,209
GH-271C-440*/O0	1,709,540	428,385	461,983	991,966	569,378	970,343
GH-271C-460*/O0	1,705,690	426,792	459,850	1,132,533	673,684	1,259,320
GH-271C-200*/O2						
GH-271C-220*/O2						
GH-271C-240*/O2						
GH-271C-250*/O2						
GH-271C-280*/O2						
GH-271C-300*/O2						
GH-271C-320*/O2						
GH-271C-340*/O2						
GH-271C-360*/O2						
GH-271C-380*/O2						
GH-271C-400*/O2						
GH-271C-420*/O2						
GH-271C-440*/O2	2,229,601	500,413	507,573	943,092	356,862	335,373
GH-271C-460*/O2	2,225,751	498,704	505,440	1,083,659	546,596	624,350
GH-271C-200*/O3						
GH-271C-220*/O3						
GH-271C-240*/O3						
GH-271C-250*/O3						
GH-271C-280*/O3						
GH-271C-300*/O3						
GH-271C-320*/O3						
GH-271C-340*/O3						
GH-271C-360*/O3						
GH-271C-380*/O3						
GH-271C-400*/O3						
GH-271C-420*/O3						
GH-271C-440*/O3						
GH-271C-460*/O3	2,378,241	564,731	589,911	993,098	454,495	438,174
GH-271C-200*/O4						
GH-271C-220*/O4						
GH-271C-240*/O4						
GH-271C-250*/O4						
GH-271C-280*/O4						
GH-271C-300*/O4						
GH-271C-320*/O4						
GH-271C-340*/O4						
GH-271C-360*/O4						
GH-271C-380*/O4	1,626,918	393,982	416,224	663,063	304,953	294,181
GH-271C-400*/O4	1,623,582	392,575	414,374	784,893	412,967	544,622
GH-271C-420*/O4	1,620,077	391,097	412,427	912,964	510,237	807,923
GH-271C-440*/O4	1,616,404	389,548	410,392	1,047,283	610,534	1,084,058
GH-271C-460*/O4	1,612,554	387,920	408,259	1,187,841	714,618	1,373,035
GH-350C-220*/O1						
GH-350C-250*/O1						

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

Model Number	SPRING			500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/O1						
GH-350C-300*/O1						
GH-350C-320*/O1						
GH-350C-350*/O1						
GH-350C-380*/O1						
GH-350C-400*/O1						
GH-350C-420*/O1						
GH-350C-440*/O1						
GH-350C-460*/O1						
GH-350C-480*/O1						
GH-350C-500*/O1	3,671,079	660,947	656,372	1,812,943	729,497	691,677

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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/O1						
GH-065C-060*/O1	13,798	4,116	4,974	3,700	1,788	1,735
GH-065C-050*/O2						
GH-065C-060*/O2						
GH-065C-070*/O2						
GH-065C-080*/O2	22,277	6,514	7,744	7,753	4,160	5,841
GH-065C-090*/O2	22,030	6,417	7,612	12,170	7,452	14,914
GH-065C-070*/O3						
GH-065C-050*/O4						
GH-065C-060*/O4						
GH-065C-070*/O4						
GH-085C-050*/O1						
GH-085C-060*/O1						
GH-085C-070*/O1	19,958	5,567	6,434	9,373	5,364	9,090
GH-085C-050*/O2						
GH-085C-060*/O2						
GH-085C-070*/O2						
GH-085C-060*/O3						
GH-085C-070*/O3						
GH-085C-080*/O3						
GH-085C-090*/O3						
GH-085C-050*/O4						
GH-085C-060*/O4						
GH-085C-070*/O4						
GH-085C-080*/O4						
GH-085C-090*/O4	37,173	10,382	12,002	14,037	7,417	9,931
GH-085C-050*/O5						
GH-085C-060*/O5						
GH-085C-070*/O5						
GH-085C-080*/O5						
GH-085C-090*/O5						
GH-085C-050*/O6						
GH-085C-060*/O6						
GH-085C-070*/O6						
GH-085C-080*/O6						
GH-085C-090*/O6						
GH-085C-050*/O7						
GH-085C-060*/O7						
GH-085C-070*/O7						
GH-085C-080*/O7						
GH-085C-090*/O7						
GH-100C-070*/O1						
GH-100C-080*/O1						
GH-100C-090*/O1						
GH-100C-110*/O1						
GH-100C-080*/O2						
GH-100C-090*/O2						
GH-100C-110*/O2						

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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/O1						
GH-130C-080*/O1						
GH-130C-090*/O1						
GH-130C-100*/O1						
GH-130C-110*/O1						
GH-130C-125*/O1	132,991	38,058	44,670	35,084	9,329	8,213
GH-130C-080*/O2						
GH-130C-090*/O2						
GH-130C-100*/O2						
GH-130C-110*/O2						
GH-130C-125*/O2						
GH-130C-070*/O3						
GH-130C-080*/O3						
GH-130C-090*/O3						
GH-130C-100*/O3						
GH-130C-110*/O3						
GH-130C-125*/O3	118,804	35,430	42,696	37,200	19,525	25,543
GH-130C-080*/O4						
GH-130C-090*/O4						
GH-130C-100*/O4						
GH-130C-110*/O4						
GH-130C-125*/O4	134,177	41,510	51,210	28,075	7,647	6,771
GH-130C-080*/O5						
GH-130C-090*/O5						
GH-130C-100*/O5						
GH-130C-110*/O5						
GH-130C-125*/O5						
GH-130C-140*/O5						
GH-130C-090*/O6						
GH-130C-100*/O6						
GH-130C-110*/O6						
GH-130C-125*/O6						
GH-130C-140*/O6						
GH-161C-110F/O2						
GH-161C-110F/O3						
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2						
GH-161C-125F/O3						
GH-161C-125F/O4						
GH-161C-125F/O5						
GH-161C-140F/O2						
GH-161C-140F/O3						
GH-161C-140F/O4						
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						

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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/O5						
GH-161C-180F/O2						
GH-161C-180F/O3						
GH-161C-180F/O4						
GH-161C-180F/O5						
GH-161C-200F/O3						
GH-161C-200F/O4						
GH-161C-200F/O5						
GH-161C-210F/O4						
GH-161C-210F/O5						
GH-161C-220F/O4						
GH-161C-220F/O5						
GH-200C-110*/O1						
GH-200C-125*/O1						
GH-200C-140*/O1						
GH-200C-160*/O1						
GH-200C-180*/O1	447,025	135,992	165,978	92,720	14,444	10,674
GH-200C-125*/O2						
GH-200C-140*/O2						
GH-200C-160*/O2						
GH-200C-180*/O2						
GH-201C-200*/O3						
GH-201C-160*/O7						
GH-201C-200*/O7						
GH-270C-200*/O0						
GH-270C-220*/O0						
GH-270C-240*/O0						
GH-270C-200*/O2						
GH-270C-220*/O2						
GH-270C-240*/O2						
GH-270C-250*/O2						
GH-270C-280*/O2						
GH-270C-220*/O3						
GH-270C-250*/O3						
GH-270C-280*/O3						
GH-270C-200*/O4						
GH-270C-220*/O4						
GH-270C-240*/O4						
GH-271C-200*/O0						
GH-271C-220*/O0						
GH-271C-240*/O0						
GH-271C-250*/O0						
GH-271C-280*/O0						
GH-271C-300*/O0	1,731,693	437,519	474,259	539,515	63,717	40,182
GH-271C-320*/O0	1,729,038	436,430	472,789	685,482	334,983	340,258
GH-271C-340*/O0	1,726,215	435,262	471,223	840,866	455,761	659,700
GH-271C-360*/O0	1,723,223	434,032	469,568	1,005,658	579,574	998,489
GH-271C-380*/O0	1,720,055	432,731	467,815	1,179,876	708,724	1,356,652

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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/O0	1,716,718	431,359	465,965	1,363,502	844,627	1,734,163
GH-271C-420*/O0	1,713,213	429,916	464,018	1,556,555	987,505	2,131,039
GH-271C-440*/O0	1,709,540	428,385	461,983	1,759,025	1,137,357	2,547,281
GH-271C-460*/O0						
GH-271C-200*/O2						
GH-271C-220*/O2						
GH-271C-240*/O2						
GH-271C-250*/O2						
GH-271C-280*/O2						
GH-271C-300*/O2						
GH-271C-320*/O2						
GH-271C-340*/O2	2,246,285	507,803	516,813	791,983	61,822	24,729
GH-271C-360*/O2						
GH-271C-380*/O2	2,240,125	505,068	513,397	1,131,002	583,610	721,681
GH-271C-400*/O2	2,236,788	503,590	511,556	1,314,628	724,071	1,099,192
GH-271C-420*/O2	2,233,283	502,041	509,608	1,507,681	868,754	1,496,078
GH-271C-440*/O2	2,229,601	500,413	507,573	1,710,142	1,018,925	1,912,311
GH-271C-460*/O2	2,225,751	498,704	505,440	1,922,029	1,175,742	2,347,909
GH-271C-200*/O3						
GH-271C-220*/O3						
GH-271C-240*/O3						
GH-271C-250*/O3						
GH-271C-280*/O3						
GH-271C-300*/O3						
GH-271C-320*/O3						
GH-271C-340*/O3						
GH-271C-360*/O3	2,395,783	572,166	599,621	866,223	206,771	177,342
GH-271C-380*/O3	2,392,614	570,838	597,868	1,040,441	512,273	535,497
GH-271C-400*/O3	2,389,278	569,431	596,027	1,224,068	655,274	913,017
GH-271C-420*/O3	2,385,773	567,935	594,080	1,417,120	801,108	1,309,893
GH-271C-440*/O3	2,382,091	566,368	592,044	1,619,581	951,898	1,726,126
GH-271C-460*/O3	2,378,241	564,731	589,911	1,831,468	1,108,716	2,161,725
GH-271C-200*/O4						
GH-271C-220*/O4						
GH-271C-240*/O4						
GH-271C-250*/O4						
GH-271C-280*/O4						
GH-271C-300*/O4	1,638,557	398,850	422,668	594,832	171,722	153,897
GH-271C-320*/O4	1,635,902	397,735	421,198	740,790	378,803	453,973
GH-271C-340*/O4	1,633,078	396,558	419,632	896,174	497,589	773,414
GH-271C-360*/O4	1,630,087	395,310	417,977	1,060,975	620,721	1,112,203
GH-271C-380*/O4	1,626,918	393,982	416,224	1,235,184	749,659	1,470,366
GH-271C-400*/O4	1,623,582	392,575	414,374	1,418,819	885,571	1,847,877
GH-271C-420*/O4	1,620,077	391,097	412,427	1,611,872	1,028,448	2,244,754
GH-271C-440*/O4	1,616,404	389,548	410,392	1,814,333	1,178,291	2,660,996
GH-271C-460*/O4						
GH-350C-220*/O1						
GH-350C-250*/O1						

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

Model Number	SPRING			750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/O1						
GH-350C-300*/O1						
GH-350C-320*/O1						
GH-350C-350*/O1						
GH-350C-380*/O1	3,700,667	677,038	672,772	1,482,032	83,374	11,373
GH-350C-400*/O1						
GH-350C-420*/O1	3,691,701	672,161	667,798	1,975,629	974,591	1,026,129
GH-350C-440*/O1	3,686,877	669,542	665,134	2,240,939	1,182,035	1,571,557
GH-350C-460*/O1	3,681,832	666,798	662,337	2,518,587	1,393,250	2,142,359
GH-350C-480*/O1	3,676,566	663,930	659,416	2,808,573	1,610,713	2,738,528
GH-350C-500*/O1	3,671,079	660,947	656,372	3,110,906	1,835,256	3,360,063

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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/O1						
GH-065C-060*/O1	13,798	4,116	4,974	6,912	4,213	8,329
GH-065C-050*/O2						
GH-065C-060*/O2						
GH-065C-070*/O2	22,490	6,594	7,868	8,231	4,523	6,806
GH-065C-080*/O2	22,277	6,514	7,744	13,462	8,408	17,569
GH-065C-090*/O2	22,030	6,417	7,612	19,392	12,798	29,765
GH-065C-070*/O3						
GH-065C-050*/O4						
GH-065C-060*/O4						
GH-065C-070*/O4						
GH-085C-050*/O1						
GH-085C-060*/O1	20,206	5,673	6,576	9,152	5,204	8,638
GH-085C-070*/O1	19,958	5,567	6,434	15,152	9,647	20,967
GH-085C-050*/O2						
GH-085C-060*/O2						
GH-085C-070*/O2	33,128	9,107	10,408	10,886	5,063	4,894
GH-085C-060*/O3						
GH-085C-070*/O3						
GH-085C-080*/O3						
GH-085C-090*/O3	53,255	14,391	16,285	19,003	9,382	9,939
GH-085C-050*/O4						
GH-085C-060*/O4						
GH-085C-070*/O4						
GH-085C-080*/O4	37,501	10,515	12,179	15,745	8,718	13,444
GH-085C-090*/O4	37,173	10,382	12,002	23,596	14,551	29,579
GH-085C-050*/O5						
GH-085C-060*/O5						
GH-085C-070*/O5						
GH-085C-080*/O5						
GH-085C-090*/O5	57,733	16,197	18,764	16,338	4,939	4,470
GH-085C-050*/O6						
GH-085C-060*/O6						
GH-085C-070*/O6						
GH-085C-080*/O6						
GH-085C-090*/O6						
GH-085C-050*/O7						
GH-085C-060*/O7						
GH-085C-070*/O7						
GH-085C-080*/O7						
GH-085C-090*/O7						
GH-100C-070*/O1						
GH-100C-080*/O1						
GH-100C-090*/O1						
GH-100C-110*/O1	89,755	21,560	22,667	41,545	21,313	25,809
GH-100C-080*/O2						
GH-100C-090*/O2						
GH-100C-110*/O2	105,404	28,004	31,341	32,252	7,789	6,700

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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/O1						
GH-130C-080*/O1						
GH-130C-090*/O1						
GH-130C-100*/O1						
GH-130C-110*/O1	133,699	38,341	45,059	38,279	15,560	14,772
GH-130C-125*/O1	132,991	38,058	44,670	63,920	37,474	67,496
GH-130C-080*/O2						
GH-130C-090*/O2						
GH-130C-100*/O2						
GH-130C-110*/O2						
GH-130C-125*/O2	164,996	45,068	51,334	56,778	27,791	28,420
GH-130C-070*/O3						
GH-130C-080*/O3						
GH-130C-090*/O3						
GH-130C-100*/O3						
GH-130C-110*/O3	119,503	35,704	43,085	40,395	21,959	32,102
GH-130C-125*/O3	118,804	35,430	42,696	66,035	41,032	84,826
GH-130C-080*/O4						
GH-130C-090*/O4						
GH-130C-100*/O4						
GH-130C-110*/O4	134,877	41,784	51,600	31,261	13,878	13,329
GH-130C-125*/O4	134,177	41,510	51,210	56,910	34,279	66,053
GH-130C-080*/O5						
GH-130C-090*/O5						
GH-130C-100*/O5						
GH-130C-110*/O5						
GH-130C-125*/O5	177,626	52,104	62,141	45,192	14,259	13,002
GH-130C-140*/O5	176,838	51,795	61,699	74,107	42,528	72,452
GH-130C-090*/O6						
GH-130C-100*/O6						
GH-130C-110*/O6						
GH-130C-125*/O6						
GH-130C-140*/O6						
GH-161C-110F/O2						
GH-161C-110F/O3						
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2						
GH-161C-125F/O3						
GH-161C-125F/O4						
GH-161C-125F/O5						
GH-161C-140F/O2	228,606	70,205	86,205	82,146	47,059	79,768
GH-161C-140F/O3	265,290	84,670	106,526	60,359	30,484	34,978
GH-161C-140F/O4						
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						

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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/O5						
GH-161C-180F/O2						
GH-161C-180F/O3						
GH-161C-180F/O4						
GH-161C-180F/O5						
GH-161C-200F/O3						
GH-161C-200F/O4						
GH-161C-200F/O5						
GH-161C-210F/O4						
GH-161C-210F/O5						
GH-161C-220F/O4						
GH-161C-220F/O5						
GH-200C-110*/O1						
GH-200C-125*/O1						
GH-200C-140*/O1						
GH-200C-160*/O1	449,158	136,841	167,164	108,962	46,148	44,059
GH-200C-180*/O1	447,025	135,992	165,978	186,777	110,537	204,036
GH-200C-125*/O2						
GH-200C-140*/O2						
GH-200C-160*/O2						
GH-200C-180*/O2						
GH-201C-200*/O3						
GH-201C-160*/O7						
GH-201C-200*/O7						
GH-270C-200*/O0						
GH-270C-220*/O0						
GH-270C-240*/O0						
GH-270C-200*/O2						
GH-270C-220*/O2						
GH-270C-240*/O2						
GH-270C-250*/O2						
GH-270C-280*/O2						
GH-270C-220*/O3						
GH-270C-250*/O3						
GH-270C-280*/O3						
GH-270C-200*/O4						
GH-270C-220*/O4						
GH-270C-240*/O4						
GH-271C-200*/O0						
GH-271C-220*/O0						
GH-271C-240*/O0						
GH-271C-250*/O0						
GH-271C-280*/O0	1,734,172	438,546	475,630	713,592	357,411	398,054
GH-271C-300*/O0	1,731,693	437,519	474,259	896,103	497,536	773,263
GH-271C-320*/O0	1,729,038	436,430	472,789	1,091,200	643,087	1,174,344
GH-271C-340*/O0	1,726,215	435,262	471,223	1,298,874	796,798	1,601,295
GH-271C-360*/O0	1,723,223	434,032	469,568	1,519,143	959,820	2,054,126
GH-271C-380*/O0	1,720,055	432,731	467,815	1,751,997	1,132,153	2,532,837

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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/O0						
GH-271C-420*/O0						
GH-271C-440*/O0						
GH-271C-460*/O0						
GH-271C-200*/O2						
GH-271C-220*/O2						
GH-271C-240*/O2						
GH-271C-250*/O2						
GH-271C-280*/O2						
GH-271C-300*/O2						
GH-271C-320*/O2	2,249,108	509,051	518,380	1,042,317	513,777	539,374
GH-271C-340*/O2	2,246,285	507,803	516,813	1,250,000	675,073	966,325
GH-271C-360*/O2	2,243,285	506,475	515,158	1,470,269	840,883	1,419,156
GH-271C-380*/O2	2,240,125	505,068	513,397	1,703,123	1,013,721	1,897,866
GH-271C-400*/O2	2,236,788	503,590	511,556	1,948,563	1,195,382	2,402,448
GH-271C-420*/O2						
GH-271C-440*/O2						
GH-271C-460*/O2						
GH-271C-200*/O3						
GH-271C-220*/O3						
GH-271C-240*/O3						
GH-271C-250*/O3						
GH-271C-280*/O3						
GH-271C-300*/O3						
GH-271C-320*/O3	2,401,598	574,626	602,842	951,757	373,785	353,189
GH-271C-340*/O3	2,398,775	573,431	601,285	1,159,439	605,657	780,149
GH-271C-360*/O3	2,395,783	572,166	599,621	1,379,708	773,086	1,232,980
GH-271C-380*/O3	2,392,614	570,838	597,868	1,612,562	946,694	1,711,682
GH-271C-400*/O3	2,389,278	569,431	596,027	1,858,003	1,128,356	2,216,272
GH-271C-420*/O3	2,385,773	567,935	594,080	2,116,028	1,319,319	2,746,733
GH-271C-440*/O3						
GH-271C-460*/O3						
GH-271C-200*/O4						
GH-271C-220*/O4						
GH-271C-240*/O4						
GH-271C-250*/O4						
GH-271C-280*/O4	1,641,035	399,886	424,039	768,909	400,647	511,777
GH-271C-300*/O4	1,638,557	398,850	422,668	951,411	539,064	886,978
GH-271C-320*/O4	1,635,902	397,735	421,198	1,146,508	684,030	1,288,058
GH-271C-340*/O4	1,633,078	396,558	419,632	1,354,191	837,732	1,715,010
GH-271C-360*/O4	1,630,087	395,310	417,977	1,574,451	1,000,754	2,167,841
GH-271C-380*/O4	1,626,918	393,982	416,224	1,807,305	1,173,096	2,646,551
GH-271C-400*/O4						
GH-271C-420*/O4						
GH-271C-440*/O4						
GH-271C-460*/O4						
GH-350C-220*/O1						
GH-350C-250*/O1						

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

Model Number	SPRING			1,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/O1						
GH-350C-300*/O1						
GH-350C-320*/O1						
GH-350C-350*/O1	3,706,800	680,375	676,171	1,780,231	665,612	624,412
GH-350C-380*/O1	3,700,667	677,038	672,772	2,231,734	1,174,937	1,552,634
GH-350C-400*/O1	3,696,294	674,657	670,347	2,553,353	1,419,430	2,213,829
GH-350C-420*/O1	3,691,701	672,161	667,798	2,891,469	1,672,385	2,908,941
GH-350C-440*/O1	3,686,877	669,542	665,134	3,246,075	1,935,305	3,637,959
GH-350C-460*/O1	3,681,832	666,798	662,337	3,617,178	2,209,961	4,400,876
GH-350C-480*/O1	3,676,566	663,930	659,416	4,004,770	2,496,823	5,197,709
GH-350C-500*/O1						

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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/O1	13,958	4,178	5,054	5,302	3,018	5,027
GH-065C-060*/O1	13,798	4,116	4,974	10,125	6,585	14,931
GH-065C-050*/O2						
GH-065C-060*/O2	22,684	6,673	7,975	6,904	3,505	4,080
GH-065C-070*/O2	22,490	6,594	7,868	12,603	7,771	15,790
GH-065C-080*/O2	22,277	6,514	7,744	19,171	12,630	29,296
GH-065C-090*/O2						
GH-065C-070*/O3						
GH-065C-050*/O4						
GH-065C-060*/O4						
GH-065C-070*/O4	29,013	8,992	11,108	9,134	5,063	7,833
GH-085C-050*/O1	20,419	5,753	6,691	7,027	3,585	4,257
GH-085C-060*/O1	20,206	5,673	6,576	13,400	8,346	17,365
GH-085C-070*/O1	19,958	5,567	6,434	20,932	13,922	32,854
GH-085C-050*/O2						
GH-085C-060*/O2						
GH-085C-070*/O2	33,128	9,107	10,408	16,666	9,638	16,772
GH-085C-060*/O3						
GH-085C-070*/O3						
GH-085C-080*/O3	53,574	14,524	16,462	18,702	9,152	9,329
GH-085C-090*/O3	53,255	14,391	16,285	28,553	16,648	29,588
GH-085C-050*/O4						
GH-085C-060*/O4						
GH-085C-070*/O4	37,784	10,630	12,338	14,604	7,851	11,090
GH-085C-080*/O4	37,501	10,515	12,179	23,295	14,329	28,960
GH-085C-090*/O4	37,173	10,382	12,002	33,146	21,622	49,219
GH-085C-050*/O5						
GH-085C-060*/O5						
GH-085C-070*/O5						
GH-085C-080*/O5	58,061	16,330	18,949	16,038	4,363	3,859
GH-085C-090*/O5	57,733	16,197	18,764	25,888	14,666	24,109
GH-085C-050*/O6						
GH-085C-060*/O6						
GH-085C-070*/O6						
GH-085C-080*/O6						
GH-085C-090*/O6	70,656	19,631	22,605	21,773	8,789	8,337
GH-085C-050*/O7						
GH-085C-060*/O7						
GH-085C-070*/O7						
GH-085C-080*/O7						
GH-085C-090*/O7						
GH-100C-070*/O1						
GH-100C-080*/O1						
GH-100C-090*/O1	90,357	21,817	23,003	30,783	4,921	3,682
GH-100C-110*/O1	89,755	21,560	22,667	58,530	34,146	60,725
GH-100C-080*/O2						
GH-100C-090*/O2						
GH-100C-110*/O2	105,404	28,004	31,341	49,237	27,190	41,616

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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/O1						
GH-130C-080*/O1						
GH-130C-090*/O1						
GH-130C-100*/O1	133,115	38,111	44,732	40,926	19,976	20,206
GH-130C-110*/O1	133,699	38,341	45,059	60,610	35,005	60,681
GH-130C-125*/O1	132,991	38,058	44,670	92,756	58,813	126,778
GH-130C-080*/O2						
GH-130C-090*/O2						
GH-130C-100*/O2						
GH-130C-110*/O2	165,695	45,351	51,724	53,459	22,631	21,614
GH-130C-125*/O2	164,996	45,068	51,334	85,613	49,759	87,702
GH-130C-070*/O3						
GH-130C-080*/O3						
GH-130C-090*/O3						
GH-130C-100*/O3	118,928	35,474	42,767	43,032	23,959	37,536
GH-130C-110*/O3	119,503	35,704	43,085	62,725	38,580	78,011
GH-130C-125*/O3	118,804	35,430	42,696	94,871	62,371	144,099
GH-130C-080*/O4						
GH-130C-090*/O4						
GH-130C-100*/O4	134,301	41,554	51,281	33,907	16,949	18,764
GH-130C-110*/O4	134,877	41,784	51,600	53,591	31,827	59,238
GH-130C-125*/O4	134,177	41,510	51,210	85,737	55,618	125,335
GH-130C-080*/O5						
GH-130C-090*/O5						
GH-130C-100*/O5						
GH-130C-110*/O5						
GH-130C-125*/O5	177,626	52,104	62,141	74,028	42,466	72,284
GH-130C-140*/O5	176,838	51,795	61,699	110,280	69,319	146,807
GH-130C-090*/O6						
GH-130C-100*/O6						
GH-130C-110*/O6						
GH-130C-125*/O6						
GH-130C-140*/O6	238,112	65,575	75,090	95,924	51,432	71,992
GH-161C-110F/O2						
GH-161C-110F/O3						
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2	229,591	70,594	86,751	82,044	46,982	79,558
GH-161C-125F/O3	266,276	85,058	107,072	60,257	30,403	34,769
GH-161C-125F/O4						
GH-161C-125F/O5						
GH-161C-140F/O2	228,606	70,205	86,205	127,162	80,400	172,314
GH-161C-140F/O3	265,290	84,670	106,526	105,375	64,276	127,524
GH-161C-140F/O4	341,922	109,339	137,729	71,922	33,961	33,961
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						

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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/O5						
GH-161C-180F/O2						
GH-161C-180F/O3						
GH-161C-180F/O4						
GH-161C-180F/O5						
GH-161C-200F/O3						
GH-161C-200F/O4						
GH-161C-200F/O5						
GH-161C-210F/O4						
GH-161C-210F/O5						
GH-161C-220F/O4						
GH-161C-220F/O5						
GH-200C-110*/O1						
GH-200C-125*/O1						
GH-200C-140*/O1	451,034	137,576	168,200	97,199	23,189	19,879
GH-200C-160*/O1	449,158	136,841	167,164	183,281	107,953	196,841
GH-200C-180*/O1	447,025	135,992	165,978	280,834	180,157	397,399
GH-200C-125*/O2						
GH-200C-140*/O2						
GH-200C-160*/O2						
GH-200C-180*/O2	610,489	181,529	218,366	224,676	125,397	197,823
GH-201C-200*/O3						
GH-201C-160*/O7						
GH-201C-200*/O7	851,371	242,776	284,277	268,709	132,549	139,541
GH-270C-200*/O0						
GH-270C-220*/O0						
GH-270C-240*/O0	1,738,624	440,378	478,100	614,561	210,241	194,451
GH-270C-200*/O2						
GH-270C-220*/O2						
GH-270C-240*/O2						
GH-270C-250*/O2						
GH-270C-280*/O2						
GH-270C-220*/O3						
GH-270C-250*/O3						
GH-270C-280*/O3						
GH-270C-200*/O4						
GH-270C-220*/O4						
GH-270C-240*/O4	1,645,487	401,744	426,500	669,869	318,238	308,165
GH-271C-200*/O0						
GH-271C-220*/O0						
GH-271C-240*/O0	1,738,624	440,378	478,100	614,561	210,241	194,451
GH-271C-250*/O0	1,737,570	439,944	477,516	711,060	355,402	392,858
GH-271C-280*/O0	1,734,172	438,546	475,630	1,024,218	593,381	1,036,653
GH-271C-300*/O0	1,731,693	437,519	474,259	1,252,691	762,616	1,506,345
GH-271C-320*/O0	1,729,038	436,430	472,789	1,496,910	943,366	2,008,421
GH-271C-340*/O0	1,726,215	435,262	471,223	1,756,892	1,135,781	2,542,900
GH-271C-360*/O0						
GH-271C-380*/O0						



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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/O0						
GH-271C-420*/O0						
GH-271C-440*/O0						
GH-271C-460*/O0						
GH-271C-200*/O2						
GH-271C-220*/O2						
GH-271C-240*/O2						
GH-271C-250*/O2						
GH-271C-280*/O2	2,254,242	511,299	521,221	975,344	419,844	401,682
GH-271C-300*/O2	2,251,755	510,210	519,849	1,203,817	639,794	871,374
GH-271C-320*/O2	2,249,108	509,051	518,380	1,448,036	824,253	1,373,451
GH-271C-340*/O2	2,246,285	507,803	516,813	1,708,018	1,017,349	1,907,930
GH-271C-360*/O2	2,243,285	506,475	515,158	1,983,754	1,221,421	2,474,794
GH-271C-380*/O2						
GH-271C-400*/O2						
GH-271C-420*/O2						
GH-271C-440*/O2						
GH-271C-460*/O2						
GH-271C-200*/O3						
GH-271C-220*/O3						
GH-271C-240*/O3						
GH-271C-250*/O3						
GH-271C-280*/O3	2,406,731	576,786	605,692	884,783	243,015	215,498
GH-271C-300*/O3	2,404,244	575,741	604,312	1,113,247	569,811	685,190
GH-271C-320*/O3	2,401,598	574,626	602,842	1,357,475	756,341	1,187,275
GH-271C-340*/O3	2,398,775	573,431	601,285	1,617,457	950,323	1,721,745
GH-271C-360*/O3	2,395,783	572,166	599,621	1,893,184	1,154,394	2,288,618
GH-271C-380*/O3						
GH-271C-400*/O3						
GH-271C-420*/O3						
GH-271C-440*/O3						
GH-271C-460*/O3						
GH-271C-200*/O4						
GH-271C-220*/O4						
GH-271C-240*/O4	1,645,487	401,744	426,500	669,869	318,238	308,165
GH-271C-250*/O4	1,644,434	401,311	425,925	766,378	398,700	506,573
GH-271C-280*/O4	1,641,035	399,886	424,039	1,079,535	634,457	1,150,367
GH-271C-300*/O4	1,638,557	398,850	422,668	1,307,999	803,551	1,620,059
GH-271C-320*/O4	1,635,902	397,735	421,198	1,552,227	984,301	2,122,135
GH-271C-340*/O4	1,633,078	396,558	419,632	1,812,200	1,176,716	2,656,615
GH-271C-360*/O4						
GH-271C-380*/O4						
GH-271C-400*/O4						
GH-271C-420*/O4						
GH-271C-440*/O4						
GH-271C-460*/O4						
GH-350C-220*/O1						
GH-350C-250*/O1						

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

Model Number	SPRING			1,250 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/O1						
GH-350C-300*/O1	3,715,908	685,322	681,216	1,577,451	269,674	207,524
GH-350C-320*/O1	3,712,438	683,437	679,286	1,897,477	894,545	865,453
GH-350C-350*/O1	3,706,800	680,375	676,171	2,416,228	1,315,814	1,931,915
GH-350C-380*/O1	3,700,667	677,038	672,772	2,981,437	1,739,323	3,093,895
GH-350C-400*/O1	3,696,294	674,657	670,347	3,384,049	2,037,416	3,921,599
GH-350C-420*/O1	3,691,701	672,161	667,798	3,807,309	2,350,680	4,791,752
GH-350C-440*/O1						
GH-350C-460*/O1						
GH-350C-480*/O1						
GH-350C-500*/O1						

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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/O1	13,958	4,178	5,054	7,532	4,673	9,603
GH-065C-060*/O1	13,798	4,116	4,974	13,329	8,957	21,525
GH-065C-050*/O2						
GH-065C-060*/O2	22,684	6,673	7,975	10,116	5,930	10,683
GH-065C-070*/O2	22,490	6,594	7,868	16,967	11,001	24,773
GH-065C-080*/O2						
GH-065C-090*/O2						
GH-065C-070*/O3						
GH-065C-050*/O4						
GH-065C-060*/O4	29,199	9,063	11,205	6,647	2,850	2,717
GH-065C-070*/O4	29,013	8,992	11,108	13,497	8,302	16,808
GH-085C-050*/O1	20,419	5,753	6,691	9,975	5,815	10,320
GH-085C-060*/O1	20,206	5,673	6,576	17,648	11,488	26,092
GH-085C-070*/O1	19,958	5,567	6,434	26,712	18,197	44,732
GH-085C-050*/O2						
GH-085C-060*/O2	33,376	9,205	10,550	13,382	7,169	10,019
GH-085C-070*/O2	33,128	9,107	10,408	22,446	13,922	28,659
GH-085C-060*/O3						
GH-085C-070*/O3	53,866	14,639	16,622	15,790	3,868	3,346
GH-085C-080*/O3	53,574	14,524	16,462	26,251	14,931	24,853
GH-085C-090*/O3	53,255	14,391	16,285	38,111	23,720	49,228
GH-085C-050*/O4						
GH-085C-060*/O4	38,032	10,727	12,471	11,320	4,567	4,337
GH-085C-070*/O4	37,784	10,630	12,338	20,383	12,170	22,977
GH-085C-080*/O4	37,501	10,515	12,179	30,845	19,914	44,484
GH-085C-090*/O4	37,173	10,382	12,002	42,705	28,685	68,859
GH-085C-050*/O5						
GH-085C-060*/O5						
GH-085C-070*/O5						
GH-085C-080*/O5	58,061	16,330	18,949	23,587	12,931	19,374
GH-085C-090*/O5	57,733	16,197	18,764	35,447	21,755	43,749
GH-085C-050*/O6						
GH-085C-060*/O6						
GH-085C-070*/O6						
GH-085C-080*/O6						
GH-085C-090*/O6	70,656	19,631	22,605	31,332	17,551	27,977
GH-085C-050*/O7						
GH-085C-060*/O7						
GH-085C-070*/O7						
GH-085C-080*/O7						
GH-085C-090*/O7						
GH-100C-070*/O1						
GH-100C-080*/O1						
GH-100C-090*/O1	90,357	21,817	23,003	42,156	21,782	27,057
GH-100C-110*/O1	89,755	21,560	22,667	75,515	46,714	95,641
GH-100C-080*/O2						
GH-100C-090*/O2	106,014	28,252	31,677	32,854	8,966	7,939
GH-100C-110*/O2	105,404	28,004	31,341	66,221	39,837	76,532

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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/O1						
GH-130C-080*/O1						
GH-130C-090*/O1	133,691	38,333	45,050	38,642	16,268	15,524
GH-130C-100*/O1	133,115	38,111	44,732	59,380	34,093	58,149
GH-130C-110*/O1	133,699	38,341	45,059	82,940	51,547	106,590
GH-130C-125*/O1	132,991	38,058	44,670	121,592	80,152	186,052
GH-130C-080*/O2						
GH-130C-090*/O2						
GH-130C-100*/O2	165,120	45,121	51,405	52,228	20,224	19,073
GH-130C-110*/O2	165,695	45,351	51,724	75,789	42,430	67,514
GH-130C-125*/O2	164,996	45,068	51,334	114,449	71,116	146,984
GH-130C-070*/O3						
GH-130C-080*/O3						
GH-130C-090*/O3	119,494	35,704	43,077	40,758	22,242	32,854
GH-130C-100*/O3	118,928	35,474	42,767	61,486	37,669	75,479
GH-130C-110*/O3	119,503	35,704	43,085	85,056	55,105	123,919
GH-130C-125*/O3	118,804	35,430	42,696	123,707	83,719	203,381
GH-130C-080*/O4						
GH-130C-090*/O4	134,868	41,784	51,591	31,624	14,586	14,082
GH-130C-100*/O4	134,301	41,554	51,281	52,361	30,907	56,707
GH-130C-110*/O4	134,877	41,784	51,600	75,922	48,352	105,147
GH-130C-125*/O4	134,177	41,510	51,210	114,573	76,957	184,609
GH-130C-080*/O5						
GH-130C-090*/O5						
GH-130C-100*/O5						
GH-130C-110*/O5	178,334	52,388	62,531	64,212	35,093	52,096
GH-130C-125*/O5	177,626	52,104	62,141	102,863	63,832	131,558
GH-130C-140*/O5	176,838	51,795	61,699	146,453	96,093	221,171
GH-130C-090*/O6						
GH-130C-100*/O6						
GH-130C-110*/O6						
GH-130C-125*/O6	238,908	65,894	75,523	88,508	45,723	56,742
GH-130C-140*/O6	238,112	65,575	75,090	132,097	78,497	146,356
GH-161C-110F/O2	228,965	70,347	86,404	69,018	37,174	52,779
GH-161C-110F/O3	265,650	84,812	106,725	47,231	7,990	7,990
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2	229,591	70,594	86,751	117,930	73,568	153,335
GH-161C-125F/O3	266,276	85,058	107,072	96,144	57,443	108,545
GH-161C-125F/O4	342,907	109,727	138,275	62,690	14,983	14,983
GH-161C-125F/O5						
GH-161C-140F/O2	228,606	70,205	86,205	172,178	113,717	264,859
GH-161C-140F/O3	265,290	84,670	106,526	150,391	97,593	220,070
GH-161C-140F/O4	341,922	109,339	137,729	116,938	69,018	126,507
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						



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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/O5						
GH-161C-180F/O2						
GH-161C-180F/O3						
GH-161C-180F/O4						
GH-161C-180F/O5						
GH-161C-200F/O3						
GH-161C-200F/O4						
GH-161C-200F/O5						
GH-161C-210F/O4						
GH-161C-210F/O5						
GH-161C-220F/O4						
GH-161C-220F/O5						
GH-200C-110*/O1						
GH-200C-125*/O1						
GH-200C-140*/O1	451,034	137,576	168,200	154,100	86,197	136,850
GH-200C-160*/O1	449,158	136,841	167,164	257,592	162,951	349,622
GH-200C-180*/O1	447,025	135,992	165,978	374,891	249,768	590,770
GH-200C-125*/O2						
GH-200C-140*/O2						
GH-200C-160*/O2	612,614	182,379	219,543	201,434	107,793	150,047
GH-200C-180*/O2	610,489	181,529	218,366	318,733	195,256	391,185
GH-201C-200*/O3	1,092,200	309,971	361,836	301,678	92,809	84,224
GH-201C-160*/O7						
GH-201C-200*/O7	851,371	242,776	284,277	384,831	221,180	378,263
GH-270C-200*/O0						
GH-270C-220*/O0	1,740,588	441,183	479,188	625,120	230,872	216,171
GH-270C-240*/O0	1,738,624	440,378	478,100	842,768	457,212	663,620
GH-270C-200*/O2						
GH-270C-220*/O2						
GH-270C-240*/O2						
GH-270C-250*/O2						
GH-270C-280*/O2						
GH-270C-220*/O3						
GH-270C-250*/O3						
GH-270C-280*/O3						
GH-270C-200*/O4						
GH-270C-220*/O4						
GH-270C-240*/O4	1,645,487	401,744	426,500	898,086	499,032	777,335
GH-271C-200*/O0						
GH-271C-220*/O0	1,740,588	441,183	479,188	625,120	230,872	216,171
GH-271C-240*/O0	1,738,624	440,378	478,100	842,768	457,212	663,620
GH-271C-250*/O0	1,737,570	439,944	477,516	958,696	544,516	901,936
GH-271C-280*/O0	1,734,172	438,546	475,630	1,334,844	823,421	1,675,243
GH-271C-300*/O0	1,731,693	437,519	474,259	1,609,270	1,026,528	2,239,426
GH-271C-320*/O0						
GH-271C-340*/O0						
GH-271C-360*/O0						
GH-271C-380*/O0						



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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/O0						
GH-271C-420*/O0						
GH-271C-440*/O0						
GH-271C-460*/O0						
GH-271C-200*/O2						
GH-271C-220*/O2						
GH-271C-240*/O2						
GH-271C-250*/O2	2,257,640	512,786	523,106	909,822	291,898	266,965
GH-271C-280*/O2	2,254,242	511,299	521,221	1,285,970	702,360	1,040,282
GH-271C-300*/O2	2,251,755	510,210	519,849	1,560,396	907,972	1,604,455
GH-271C-320*/O2	2,249,108	509,051	518,380	1,853,754	1,125,205	2,207,536
GH-271C-340*/O2						
GH-271C-360*/O2						
GH-271C-380*/O2						
GH-271C-400*/O2						
GH-271C-420*/O2						
GH-271C-440*/O2						
GH-271C-460*/O2						
GH-271C-200*/O3						
GH-271C-220*/O3						
GH-271C-240*/O3						
GH-271C-250*/O3						
GH-271C-280*/O3	2,406,731	576,786	605,692	1,195,409	633,369	854,097
GH-271C-300*/O3	2,404,244	575,741	604,312	1,469,835	840,565	1,418,271
GH-271C-320*/O3	2,401,598	574,626	602,842	1,763,184	1,058,178	2,021,361
GH-271C-340*/O3	2,398,775	573,431	601,285	2,075,465	1,289,306	2,663,350
GH-271C-360*/O3						
GH-271C-380*/O3						
GH-271C-400*/O3						
GH-271C-420*/O3						
GH-271C-440*/O3						
GH-271C-460*/O3						
GH-271C-200*/O4						
GH-271C-220*/O4						
GH-271C-240*/O4	1,645,487	401,744	426,500	898,086	499,032	777,335
GH-271C-250*/O4	1,644,434	401,311	425,925	1,014,004	585,778	1,015,650
GH-271C-280*/O4	1,641,035	399,886	424,039	1,390,161	864,355	1,788,958
GH-271C-300*/O4	1,638,557	398,850	422,668	1,664,587	1,067,462	2,353,140
GH-271C-320*/O4						
GH-271C-340*/O4						
GH-271C-360*/O4						
GH-271C-380*/O4						
GH-271C-400*/O4						
GH-271C-420*/O4						
GH-271C-440*/O4						
GH-271C-460*/O4						
GH-350C-220*/O1						
GH-350C-250*/O1						



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

Model Number	SPRING			1,500 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/O1	3,719,165	687,093	683,012	1,685,103	479,888	428,854
GH-350C-300*/O1	3,715,908	685,322	681,216	2,044,709	1,029,475	1,168,149
GH-350C-320*/O1	3,712,438	683,437	679,286	2,429,115	1,325,586	1,958,423
GH-350C-350*/O1	3,706,800	680,375	676,171	3,052,225	1,791,834	3,239,428
GH-350C-380*/O1	3,700,667	677,038	672,772	3,731,131	2,294,300	4,635,147
GH-350C-400*/O1						
GH-350C-420*/O1						
GH-350C-440*/O1						
GH-350C-460*/O1						
GH-350C-480*/O1						
GH-350C-500*/O1						

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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/O1	13,958	4,178	5,054	9,762	6,319	14,188
GH-065C-060*/O1	13,798	4,116	4,974	16,542	11,320	28,128
GH-065C-050*/O2	22,844	6,735	8,063	6,541	3,213	3,346
GH-065C-060*/O2	22,684	6,673	7,975	13,320	8,302	17,286
GH-065C-070*/O2	22,490	6,594	7,868	21,339	14,232	33,757
GH-065C-080*/O2						
GH-065C-090*/O2						
GH-065C-070*/O3						
GH-065C-050*/O4						
GH-065C-060*/O4	29,199	9,063	11,205	9,860	5,603	9,320
GH-065C-070*/O4	29,013	8,992	11,108	17,870	11,541	25,791
GH-085C-050*/O1	20,419	5,753	6,691	12,922	7,992	16,383
GH-085C-060*/O1	20,206	5,673	6,576	21,888	14,630	34,828
GH-085C-070*/O1	19,958	5,567	6,434	32,491	22,410	56,618
GH-085C-050*/O2						
GH-085C-060*/O2	33,376	9,205	10,550	17,631	10,355	18,746
GH-085C-070*/O2	33,128	9,107	10,408	28,225	18,197	40,536
GH-085C-060*/O3						
GH-085C-070*/O3	53,866	14,639	16,622	21,569	11,391	15,223
GH-085C-080*/O3	53,574	14,524	16,462	33,801	20,534	40,368
GH-085C-090*/O3	53,255	14,391	16,285	47,661	30,792	68,868
GH-085C-050*/O4						
GH-085C-060*/O4	38,032	10,727	12,471	15,568	8,576	13,064
GH-085C-070*/O4	37,784	10,630	12,338	26,163	16,445	34,854
GH-085C-080*/O4	37,501	10,515	12,179	38,395	25,499	59,999
GH-085C-090*/O4	37,173	10,382	12,002	52,255	35,722	88,499
GH-085C-050*/O5						
GH-085C-060*/O5						
GH-085C-070*/O5	58,344	16,436	19,109	18,905	9,311	9,754
GH-085C-080*/O5	58,061	16,330	18,949	31,137	18,560	34,899
GH-085C-090*/O5	57,733	16,197	18,764	44,997	28,818	63,398
GH-085C-050*/O6						
GH-085C-060*/O6						
GH-085C-070*/O6						
GH-085C-080*/O6	70,983	19,764	22,791	27,021	14,285	19,118
GH-085C-090*/O6	70,656	19,631	22,605	40,882	24,649	47,617
GH-085C-050*/O7						
GH-085C-060*/O7						
GH-085C-070*/O7						
GH-085C-080*/O7						
GH-085C-090*/O7						
GH-100C-070*/O1						
GH-100C-080*/O1	90,614	21,923	23,145	36,961	16,976	16,374
GH-100C-090*/O1	90,357	21,817	23,003	53,520	30,411	50,432
GH-100C-110*/O1						
GH-100C-080*/O2						
GH-100C-090*/O2	106,014	28,252	31,677	44,227	23,384	31,314
GH-100C-110*/O2	105,404	28,004	31,341	83,206	52,405	111,449

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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/O1						
GH-130C-080*/O1						
GH-130C-090*/O1	133,691	38,333	45,050	53,591	29,756	46,254
GH-130C-100*/O1	133,115	38,111	44,732	77,833	47,767	96,084
GH-130C-110*/O1	133,699	38,341	45,059	105,271	68,071	152,498
GH-130C-125*/O1	132,991	38,058	44,670	150,427	101,492	245,334
GH-130C-080*/O2						
GH-130C-090*/O2						
GH-130C-100*/O2	165,120	45,121	51,405	70,682	38,572	57,017
GH-130C-110*/O2	165,695	45,351	51,724	98,119	59,035	113,422
GH-130C-125*/O2	164,996	45,068	51,334	143,285	92,455	206,267
GH-130C-070*/O3						
GH-130C-080*/O3	119,998	35,899	43,360	34,013	17,038	18,994
GH-130C-090*/O3	119,494	35,704	43,077	55,707	33,385	63,584
GH-130C-100*/O3	118,928	35,474	42,767	79,949	51,325	113,414
GH-130C-110*/O3	119,503	35,704	43,085	107,386	71,638	169,819
GH-130C-125*/O3	118,804	35,430	42,696	152,543	104,828	262,664
GH-130C-080*/O4						
GH-130C-090*/O4	134,868	41,784	51,591	46,573	26,614	44,811
GH-130C-100*/O4	134,301	41,554	51,281	70,815	44,572	94,641
GH-130C-110*/O4	134,877	41,784	51,600	98,252	64,876	151,056
GH-130C-125*/O4	134,177	41,510	51,210	143,409	98,164	243,891
GH-130C-080*/O5						
GH-130C-090*/O5						
GH-130C-100*/O5	177,750	52,157	62,203	59,096	31,199	41,590
GH-130C-110*/O5	178,334	52,388	62,531	86,534	51,750	98,004
GH-130C-125*/O5	177,626	52,104	62,141	131,699	85,171	190,840
GH-130C-140*/O5	176,838	51,795	61,699	182,618	122,857	295,535
GH-130C-090*/O6						
GH-130C-100*/O6						
GH-130C-110*/O6	239,608	66,177	75,913	72,187	25,012	23,180
GH-130C-125*/O6	238,908	65,894	75,523	117,343	67,549	116,024
GH-130C-140*/O6	238,112	65,575	75,090	168,270	105,262	220,711
GH-161C-110F/O2	228,965	70,347	86,404	96,808	57,935	109,912
GH-161C-110F/O3	265,650	84,812	106,725	75,022	41,718	65,122
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2	229,591	70,594	86,751	153,817	100,128	227,112
GH-161C-125F/O3	266,276	85,058	107,072	132,030	84,003	182,322
GH-161C-125F/O4	342,907	109,727	138,275	98,577	55,345	88,760
GH-161C-125F/O5						
GH-161C-140F/O2	228,606	70,205	86,205	217,194	147,034	357,405
GH-161C-140F/O3	265,290	84,670	106,526	195,408	130,910	312,615
GH-161C-140F/O4	341,922	109,339	137,729	161,954	102,335	219,053
GH-161C-140F/O5	441,045	136,522	168,481	128,985	69,367	98,029
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4	340,434	108,753	136,905	257,618	173,137	415,722

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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/O5	439,558	135,934	167,657	224,649	140,542	294,698
GH-161C-180F/O2						
GH-161C-180F/O3						
GH-161C-180F/O4						
GH-161C-180F/O5						
GH-161C-200F/O3						
GH-161C-200F/O4						
GH-161C-200F/O5						
GH-161C-210F/O4						
GH-161C-210F/O5						
GH-161C-220F/O4						
GH-161C-220F/O5						
GH-200C-110*/O1						
GH-200C-125*/O1	452,282	138,072	168,890	130,894	68,567	89,145
GH-200C-140*/O1	451,034	137,576	168,200	210,993	128,469	253,831
GH-200C-160*/O1	449,158	136,841	167,164	331,912	217,959	502,404
GH-200C-180*/O1	447,025	135,992	165,978	468,948	319,273	784,132
GH-200C-125*/O2						
GH-200C-140*/O2	614,499	183,122	220,587	154,835	57,840	54,255
GH-200C-160*/O2	612,614	182,379	219,543	275,754	163,447	302,828
GH-200C-180*/O2	610,489	181,529	218,366	412,790	264,868	584,557
GH-201C-200*/O3	1,092,200	309,971	361,836	417,800	225,632	322,946
GH-201C-160*/O7						
GH-201C-200*/O7	851,371	242,776	284,277	500,952	307,210	616,986
GH-270C-200*/O0	1,742,385	441,927	480,180	584,884	152,304	133,443
GH-270C-220*/O0	1,740,588	441,183	479,188	816,889	437,493	610,410
GH-270C-240*/O0	1,738,624	440,378	478,100	1,070,985	628,129	1,132,790
GH-270C-200*/O2						
GH-270C-220*/O2						
GH-270C-240*/O2						
GH-270C-250*/O2						
GH-270C-280*/O2						
GH-270C-220*/O3						
GH-270C-250*/O3						
GH-270C-280*/O3						
GH-270C-200*/O4	1,649,249	403,320	428,589	640,192	260,301	247,157
GH-270C-220*/O4	1,647,452	402,568	427,589	872,197	479,525	724,124
GH-270C-240*/O4	1,645,487	401,744	426,500	1,126,302	669,072	1,246,513
GH-271C-200*/O0	1,742,385	441,927	480,180	584,884	152,304	133,443
GH-271C-220*/O0	1,740,588	441,183	479,188	816,889	437,493	610,410
GH-271C-240*/O0	1,738,624	440,378	478,100	1,070,985	628,129	1,132,790
GH-271C-250*/O0	1,737,570	439,944	477,516	1,206,322	728,293	1,411,022
GH-271C-280*/O0	1,734,172	438,546	475,630	1,645,469	1,053,319	2,313,843
GH-271C-300*/O0						
GH-271C-320*/O0						
GH-271C-340*/O0						
GH-271C-360*/O0						
GH-271C-380*/O0						

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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/O0						
GH-271C-420*/O0						
GH-271C-440*/O0						
GH-271C-460*/O0						
GH-271C-200*/O2						
GH-271C-220*/O2						
GH-271C-240*/O2	2,258,685	513,246	523,681	1,022,111	497,536	497,828
GH-271C-250*/O2	2,257,640	512,786	523,106	1,157,448	604,117	776,051
GH-271C-280*/O2	2,254,242	511,299	521,221	1,596,596	934,887	1,678,872
GH-271C-300*/O2	2,251,755	510,210	519,849	1,916,984	1,172,007	2,337,536
GH-271C-320*/O2						
GH-271C-340*/O2						
GH-271C-360*/O2						
GH-271C-380*/O2						
GH-271C-400*/O2						
GH-271C-420*/O2						
GH-271C-440*/O2						
GH-271C-460*/O2						
GH-271C-200*/O3						
GH-271C-220*/O3						
GH-271C-240*/O3	2,411,174	578,662	608,153	931,550	334,328	311,644
GH-271C-250*/O3	2,410,130	578,219	607,577	1,066,887	533,337	589,876
GH-271C-280*/O3	2,406,731	576,786	605,692	1,506,035	867,533	1,492,688
GH-271C-300*/O3	2,404,244	575,741	604,312	1,826,423	1,104,981	2,151,352
GH-271C-320*/O3						
GH-271C-340*/O3						
GH-271C-360*/O3						
GH-271C-380*/O3						
GH-271C-400*/O3						
GH-271C-420*/O3						
GH-271C-440*/O3						
GH-271C-460*/O3						
GH-271C-200*/O4	1,649,249	403,320	428,589	640,192	260,301	247,157
GH-271C-220*/O4	1,647,452	402,568	427,589	872,197	479,525	724,124
GH-271C-240*/O4	1,645,487	401,744	426,500	1,126,302	669,072	1,246,513
GH-271C-250*/O4	1,644,434	401,311	425,925	1,261,639	769,236	1,524,736
GH-271C-280*/O4	1,641,035	399,886	424,039	1,700,787	1,094,254	2,427,557
GH-271C-300*/O4						
GH-271C-320*/O4						
GH-271C-340*/O4						
GH-271C-360*/O4						
GH-271C-380*/O4						
GH-271C-400*/O4						
GH-271C-420*/O4						
GH-271C-440*/O4						
GH-271C-460*/O4						
GH-350C-220*/O1						
GH-350C-250*/O1						



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

Model Number	SPRING			1,750 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/O1	3,719,165	687,093	683,012	2,092,149	1,066,701	1,265,666
GH-350C-300*/O1	3,715,908	685,322	681,216	2,511,976	1,388,267	2,128,765
GH-350C-320*/O1	3,712,438	683,437	679,286	2,960,762	1,723,940	3,051,393
GH-350C-350*/O1	3,706,800	680,375	676,171	3,688,223	2,262,544	4,546,940
GH-350C-380*/O1						
GH-350C-400*/O1						
GH-350C-420*/O1						
GH-350C-440*/O1						
GH-350C-460*/O1						
GH-350C-480*/O1						
GH-350C-500*/O1						

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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050*/O1	13,958	4,178	5,054	11,993	7,966	18,772
GH-065C-060*/O1	13,798	4,116	4,974	19,755	13,666	34,730
GH-065C-050*/O2	22,844	6,735	8,063	8,771	4,930	7,921
GH-065C-060*/O2	22,684	6,673	7,975	16,533	10,683	23,879
GH-065C-070*/O2						
GH-065C-080*/O2						
GH-065C-090*/O2						
GH-065C-070*/O3						
GH-065C-050*/O4						
GH-065C-060*/O4	29,199	9,063	11,205	13,064	7,983	15,922
GH-065C-070*/O4	29,013	8,992	11,108	22,242	14,772	34,775
GH-085C-050*/O1	20,419	5,753	6,691	15,869	10,178	22,446
GH-085C-060*/O1	20,206	5,673	6,576	26,136	17,772	43,555
GH-085C-070*/O1	19,958	5,567	6,434	38,271	26,632	68,496
GH-085C-050*/O2	33,589	9,284	10,665	11,603	5,788	6,364
GH-085C-060*/O2	33,376	9,205	10,550	21,870	13,497	27,473
GH-085C-070*/O2	33,128	9,107	10,408	34,005	22,472	52,423
GH-085C-060*/O3						
GH-085C-070*/O3	53,866	14,639	16,622	27,349	15,754	27,110
GH-085C-080*/O3	53,574	14,524	16,462	41,351	26,119	55,892
GH-085C-090*/O3	53,255	14,391	16,285	57,220	37,864	88,508
GH-085C-050*/O4						
GH-085C-060*/O4	38,032	10,727	12,471	19,808	11,745	21,791
GH-085C-070*/O4	37,784	10,630	12,338	31,942	20,728	46,741
GH-085C-080*/O4	37,501	10,515	12,179	45,944	31,093	75,523
GH-085C-090*/O4						
GH-085C-050*/O5						
GH-085C-060*/O5						
GH-085C-070*/O5	58,344	16,436	19,109	24,685	13,763	21,631
GH-085C-080*/O5	58,061	16,330	18,949	38,687	24,154	50,414
GH-085C-090*/O5	57,733	16,197	18,764	54,556	35,890	83,038
GH-085C-050*/O6						
GH-085C-060*/O6						
GH-085C-070*/O6	71,266	19,879	22,950	20,569	6,434	5,859
GH-085C-080*/O6	70,983	19,764	22,791	34,571	19,967	34,642
GH-085C-090*/O6	70,656	19,631	22,605	50,432	31,721	67,257
GH-085C-050*/O7						
GH-085C-060*/O7						
GH-085C-070*/O7						
GH-085C-080*/O7						
GH-085C-090*/O7						
GH-100C-070*/O1						
GH-100C-080*/O1	90,614	21,923	23,145	45,944	24,694	34,845
GH-100C-090*/O1	90,357	21,817	23,003	64,894	38,855	73,806
GH-100C-110*/O1						
GH-100C-080*/O2	106,271	28,358	31,818	36,642	16,365	15,728
GH-100C-090*/O2	106,014	28,252	31,677	55,600	31,960	54,689
GH-100C-110*/O2						

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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-070*/O1						
GH-130C-080*/O1	134,195	38,536	45,334	43,714	22,189	25,950
GH-130C-090*/O1	133,691	38,333	45,050	68,540	40,890	76,984
GH-130C-100*/O1	133,115	38,111	44,732	96,287	61,424	134,027
GH-130C-110*/O1	133,699	38,341	45,059	127,601	84,595	198,398
GH-130C-125*/O1	132,991	38,058	44,670	179,263	122,671	304,616
GH-130C-080*/O2						
GH-130C-090*/O2	165,686	45,351	51,715	61,389	31,447	37,917
GH-130C-100*/O2	165,120	45,121	51,405	89,136	52,379	94,951
GH-130C-110*/O2	165,695	45,351	51,724	120,450	75,559	159,331
GH-130C-125*/O2	164,996	45,068	51,334	172,121	113,794	265,540
GH-130C-070*/O3						
GH-130C-080*/O3	119,998	35,899	43,360	45,829	26,057	43,280
GH-130C-090*/O3	119,494	35,704	43,077	70,656	44,448	94,314
GH-130C-100*/O3	118,928	35,474	42,767	98,403	64,982	151,357
GH-130C-110*/O3	119,503	35,704	43,085	129,717	88,162	215,728
GH-130C-125*/O3						
GH-130C-080*/O4	135,381	41,979	51,874	36,695	19,135	24,508
GH-130C-090*/O4	134,868	41,784	51,591	61,522	37,695	75,541
GH-130C-100*/O4	134,301	41,554	51,281	89,269	58,229	132,584
GH-130C-110*/O4	134,877	41,784	51,600	120,583	81,400	196,956
GH-130C-125*/O4	134,177	41,510	51,210	172,244	119,211	303,174
GH-130C-080*/O5						
GH-130C-090*/O5	178,316	52,379	62,522	49,812	23,269	22,490
GH-130C-100*/O5	177,750	52,157	62,203	77,550	45,095	79,533
GH-130C-110*/O5	178,334	52,388	62,531	108,864	68,275	143,904
GH-130C-125*/O5	177,626	52,104	62,141	160,535	106,510	250,122
GH-130C-140*/O5						
GH-130C-090*/O6						
GH-130C-100*/O6						
GH-130C-110*/O6	239,608	66,177	75,913	94,517	50,352	69,089
GH-130C-125*/O6	238,908	65,894	75,523	146,179	88,915	175,307
GH-130C-140*/O6	238,112	65,575	75,090	204,443	132,035	295,075
GH-161C-110F/O2	228,965	70,347	86,404	124,599	78,503	167,045
GH-161C-110F/O3	265,650	84,812	106,725	102,812	62,379	122,255
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2	229,591	70,594	86,751	189,703	126,688	300,889
GH-161C-125F/O3	266,276	85,058	107,072	167,917	110,563	256,099
GH-161C-125F/O4	342,907	109,727	138,275	134,463	81,989	162,537
GH-161C-125F/O5	442,031	136,911	169,027	101,494	41,512	41,512
GH-161C-140F/O2	228,606	70,205	86,205	262,210	180,000	449,951
GH-161C-140F/O3	265,290	84,670	106,526	240,424	164,095	405,161
GH-161C-140F/O4	341,922	109,339	137,729	206,970	135,652	311,598
GH-161C-140F/O5	441,045	136,522	168,481	174,001	103,057	190,574
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4	340,434	108,753	136,905	316,414	216,393	536,598

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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-160F/O5	439,558	135,934	167,657	283,445	184,058	415,574
GH-161C-180F/O2						
GH-161C-180F/O3						
GH-161C-180F/O4						
GH-161C-180F/O5						
GH-161C-200F/O3						
GH-161C-200F/O4						
GH-161C-200F/O5						
GH-161C-210F/O4						
GH-161C-210F/O5						
GH-161C-220F/O4						
GH-161C-220F/O5						
GH-200C-110*/O1						
GH-200C-125*/O1	452,282	138,072	168,890	176,254	102,740	182,396
GH-200C-140*/O1	451,034	137,576	168,200	267,895	170,581	370,802
GH-200C-160*/O1	449,158	136,841	167,164	406,223	272,957	655,186
GH-200C-180*/O1						
GH-200C-125*/O2						
GH-200C-140*/O2	614,499	183,122	220,587	211,736	115,635	171,227
GH-200C-160*/O2	612,614	182,379	219,543	350,065	218,445	455,610
GH-200C-180*/O2	610,489	181,529	218,366	506,847	334,479	777,919
GH-201C-200*/O3	1,092,200	309,971	361,836	533,913	312,670	561,669
GH-201C-160*/O7	849,619	242,077	283,313	281,702	142,833	166,252
GH-201C-200*/O7	851,371	242,776	284,277	617,065	393,150	855,699
GH-270C-200*/O0	1,742,385	441,927	480,180	743,366	380,804	459,257
GH-270C-220*/O0	1,740,588	441,183	479,188	1,008,649	581,795	1,004,640
GH-270C-240*/O0	1,738,624	440,378	478,100	1,299,202	797,037	1,601,968
GH-270C-200*/O2						
GH-270C-220*/O2						
GH-270C-240*/O2						
GH-270C-250*/O2						
GH-270C-280*/O2						
GH-270C-220*/O3						
GH-270C-250*/O3						
GH-270C-280*/O3						
GH-270C-200*/O4	1,649,249	403,320	428,589	798,683	423,570	572,971
GH-270C-220*/O4	1,647,452	402,568	427,589	1,063,966	622,933	1,118,354
GH-270C-240*/O4	1,645,487	401,744	426,500	1,354,510	837,971	1,715,682
GH-271C-200*/O0	1,742,385	441,927	480,180	743,366	380,804	459,257
GH-271C-220*/O0	1,740,588	441,183	479,188	1,008,649	581,795	1,004,640
GH-271C-240*/O0	1,738,624	440,378	478,100	1,299,202	797,037	1,601,968
GH-271C-250*/O0	1,737,570	439,944	477,516	1,453,948	911,565	1,920,108
GH-271C-280*/O0						
GH-271C-300*/O0						
GH-271C-320*/O0						
GH-271C-340*/O0						
GH-271C-360*/O0						
GH-271C-380*/O0						

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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-400*/O0						
GH-271C-420*/O0						
GH-271C-440*/O0						
GH-271C-460*/O0						
GH-271C-200*/O2						
GH-271C-220*/O2	2,260,650	514,105	524,770	959,775	389,442	369,669
GH-271C-240*/O2	2,258,685	513,246	523,681	1,250,328	675,321	966,998
GH-271C-250*/O2	2,257,640	512,786	523,106	1,405,074	792,098	1,285,138
GH-271C-280*/O2	2,254,242	511,299	521,221	1,907,222	1,164,785	2,317,472
GH-271C-300*/O2						
GH-271C-320*/O2						
GH-271C-340*/O2						
GH-271C-360*/O2						
GH-271C-380*/O2						
GH-271C-400*/O2						
GH-271C-420*/O2						
GH-271C-440*/O2						
GH-271C-460*/O2						
GH-271C-200*/O3						
GH-271C-220*/O3	2,413,139	579,494	609,241	869,214	212,613	183,494
GH-271C-240*/O3	2,411,174	578,662	608,153	1,159,767	605,905	780,813
GH-271C-250*/O3	2,410,130	578,219	607,577	1,314,513	723,982	1,098,953
GH-271C-280*/O3	2,406,731	576,786	605,692	1,816,661	1,097,759	2,131,287
GH-271C-300*/O3						
GH-271C-320*/O3						
GH-271C-340*/O3						
GH-271C-360*/O3						
GH-271C-380*/O3						
GH-271C-400*/O3						
GH-271C-420*/O3						
GH-271C-440*/O3						
GH-271C-460*/O3						
GH-271C-200*/O4	1,649,249	403,320	428,589	798,683	423,570	572,971
GH-271C-220*/O4	1,647,452	402,568	427,589	1,063,966	622,933	1,118,354
GH-271C-240*/O4	1,645,487	401,744	426,500	1,354,510	837,971	1,715,682
GH-271C-250*/O4	1,644,434	401,311	425,925	1,509,265	952,509	2,033,823
GH-271C-280*/O4						
GH-271C-300*/O4						
GH-271C-320*/O4						
GH-271C-340*/O4						
GH-271C-360*/O4						
GH-271C-380*/O4						
GH-271C-400*/O4						
GH-271C-420*/O4						
GH-271C-440*/O4						
GH-271C-460*/O4						
GH-350C-220*/O1						
GH-350C-250*/O1	3,723,617	689,509	685,482	1,841,177	784,628	749,720



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

Model Number	SPRING			2,000 PSI		
	Torque Output (lbf-inch)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350C-280*/O1	3,719,165	687,093	683,012	2,499,186	1,378,637	2,102,469
GH-350C-300*/O1	3,715,908	685,322	681,216	2,979,242	1,737,685	3,089,381
GH-350C-320*/O1	3,712,438	683,437	679,286	3,492,400	2,117,613	4,144,364
GH-350C-350*/O1						
GH-350C-380*/O1						
GH-350C-400*/O1						
GH-350C-420*/O1						
GH-350C-440*/O1						
GH-350C-460*/O1						
GH-350C-480*/O1						
GH-350C-500*/O1						