

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	130 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045F/D1	1,802	1,118	1,969	1,442	896	1,576
GH-065S-050F/D1	2,224	1,381	2,432	1,864	1,159	2,038
GH-065S-060F/D1	3,203	1,988	3,502	2,101	1,306	2,296
GH-065S-070F/D1						
GH-065S-080F/D1						
GH-065S-090F/D1						
GH-065S-100F/D1						
GH-065S-110F/D1						
GH-065S-125F/D1						
GH-085S-045F/D1	2,384	1,479	2,606	1,907	1,186	2,085
GH-085S-050F/D1	2,943	1,827	3,217	2,466	1,534	2,696
GH-085S-060F/D1	4,238	2,631	4,632	2,779	1,728	3,038
GH-085S-070F/D1	5,769	3,581	6,305	4,309	2,680	4,711
GH-085S-080F/D1	7,535	4,677	8,236	6,076	3,779	6,641
GH-085S-090F/D1						
GH-085S-100F/D1						
GH-085S-110F/D1						
GH-085S-125F/D1						
GH-085S-140F/D1						
GH-085S-160F/D1						
GH-100S-050F/D1	3,502	2,174	3,828	1,766	1,098	1,930
GH-100S-060F/D1	5,043	3,130	5,513	3,307	2,057	3,615
GH-100S-070F/D1	6,865	4,261	7,504	5,128	3,190	5,606
GH-100S-080F/D1	8,966	5,566	9,801	7,230	4,497	7,903
GH-100S-090F/D1	11,348	7,044	12,404	9,612	5,978	10,506
GH-100S-100F/D1						
GH-100S-110F/D1						
GH-100S-125F/D1						
GH-100S-140F/D1						
GH-100S-160F/D1						
GH-100S-180F/D1						
GH-100S-200F/D1						
GH-130S-050F/D1	4,605	2,858	5,033	2,322	1,444	2,538
GH-130S-060F/D1	6,631	4,116	7,248	4,348	2,704	4,753
GH-130S-070F/D1	9,026	5,602	9,866	6,743	4,194	7,370
GH-130S-080F/D1	11,789	7,318	12,886	9,506	5,912	10,391
GH-130S-090F/D1	14,920	9,262	16,309	12,637	7,860	13,814
GH-130S-100F/D1	18,420	11,434	20,134	16,137	10,037	17,639
GH-130S-110F/D1	22,375	13,889	24,458	20,092	12,497	21,962
GH-130S-125F/D1	28,894	17,936	31,583	26,611	16,551	29,088
GH-130S-140F/D1						
GH-130S-160F/D1						
GH-130S-180F/D1						
GH-130S-200F/D1						
GH-130S-210F/D1						
GH-130S-220F/D1						

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Model Number	130 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240F/D1						
GH-161S-110F/D1	27,849	17,287	30,441	23,152	14,400	25,307
GH-161S-125F/D1	35,962	22,323	39,309	31,265	19,446	34,175
GH-161S-140F/D1	45,111	28,003	49,309	40,414	25,136	44,175
GH-161S-160F/D1	58,920	36,575	64,403	54,223	33,726	59,269
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-200S-090F/D1	23,470	14,569	25,655	17,534	10,906	19,166
GH-200S-100F/D1	28,976	17,987	31,673	23,040	14,330	25,184
GH-200S-110F/D1	35,197	21,849	38,473	29,261	18,200	31,984
GH-200S-125F/D1	45,451	28,214	49,681	34,898	21,706	38,146
GH-200S-140F/D1	57,014	35,392	62,320	46,461	28,897	50,785
GH-200S-160F/D1	74,468	46,226	81,398	63,915	39,753	69,863
GH-200S-180F/D1						
GH-200S-200F/D1						
GH-200S-210F/D1						
GH-200S-220F/D1						
GH-200S-230F/D1						
GH-200S-240F/D1						
GH-200S-260F/D1						
GH-200S-280F/D1						
GH-200S-300F/D1						
GH-200S-320F/D1						
GH-200S-340F/D1						

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Model Number	130 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201S-110F/D1	35,197	21,849	38,473	29,261	18,200	31,984
GH-201S-125F/D1	45,451	28,214	49,681	34,898	21,706	38,146
GH-201S-140F/D1	57,014	35,392	62,320	46,461	28,897	50,785
GH-201S-160F/D1	74,468	46,226	81,398	63,915	39,753	69,863
GH-201S-180F/D1	94,248	58,505	103,019	83,695	52,056	91,484
GH-201S-200F/D1	116,807	72,508	127,677	106,254	66,087	116,142
GH-201S-210F/D1	128,780	79,940	140,764	118,227	73,534	129,229
GH-201S-220F/D1						
GH-201S-240F/D1						
GH-201S-260F/D1						
GH-201S-280F/D1						
GH-201S-300F/D1						
GH-201S-320F/D1						
GH-201S-340F/D1						
GH-201S-360F/D1						
GH-201S-380F/D1						
GH-270S-125F/D1	62,274	38,657	68,070	42,669	26,539	46,640
GH-270S-140F/D1	78,117	48,491	85,387	58,512	36,393	63,957
GH-270S-160F/D1	102,030	63,335	111,526	82,426	51,267	90,096
GH-270S-180F/D1	129,132	80,159	141,150	109,528	68,123	119,720
GH-270S-200F/D1	159,423	98,962	174,259	139,818	86,963	152,830
GH-270S-220F/D1	192,902	119,744	210,853	173,297	107,786	189,424
GH-270S-240F/D1						
GH-270S-250F/D1						
GH-270S-280F/D1						
GH-270S-300F/D1						
GH-270S-320F/D1						
GH-270S-340F/D1						
GH-270S-360F/D1						
GH-270S-380F/D1						
GH-270S-400F/D1						
GH-271S-140F/D1	78,117	48,491	85,387	58,512	36,393	63,957
GH-271S-160F/D1	102,030	63,335	111,526	82,426	51,267	90,096
GH-271S-180F/D1	129,132	80,159	141,150	109,528	68,123	119,720
GH-271S-200F/D1	159,423	98,962	174,259	139,818	86,963	152,830
GH-271S-220F/D1	192,902	119,744	210,853	173,297	107,786	189,424
GH-271S-240F/D1	229,569	142,505	250,933	207,064	128,788	226,333
GH-271S-250F/D1	249,098	154,628	272,280	226,593	140,935	247,680
GH-271S-280F/D1						
GH-271S-300F/D1						
GH-271S-320F/D1						
GH-271S-340F/D1						
GH-271S-360F/D1						
GH-271S-380F/D1						
GH-271S-400F/D1						
GH-271S-420F/D1						

GH RANGE TORQUE DATA
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Model Number	130 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350S-160F/D1	133,699	82,994	146,142	100,145	62,288	109,465
GH-350S-180F/D1	169,213	105,039	184,961	135,659	84,377	148,284
GH-350S-200F/D1	208,906	129,678	228,347	175,352	109,064	191,670
GH-350S-220F/D1	252,776	156,911	276,300	219,222	136,351	239,623
GH-350S-250F/D1	326,415	202,622	356,792	292,861	182,152	320,115
GH-350S-280F/D1	409,456	254,170	447,560	375,901	233,801	410,883
GH-350S-300F/D1	470,038	291,777	513,781	417,610	259,743	456,473
GH-350S-320F/D1	534,799	331,977	584,568	482,371	300,023	527,261
GH-350S-350F/D1						
GH-350S-380F/D1						
GH-350S-400F/D1						
GH-350S-440F/D1						
GH-350S-460F/D1						

GH RANGE TORQUE DATA
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Model Number	140 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045F/D1	1,942	1,205	2,123	1,554	966	1,699
GH-065S-050F/D1	2,398	1,488	2,621	2,010	1,250	2,197
GH-065S-060F/D1	3,453	2,143	3,774	2,265	1,409	2,476
GH-065S-070F/D1						
GH-065S-080F/D1						
GH-065S-090F/D1						
GH-065S-100F/D1						
GH-065S-110F/D1						
GH-065S-125F/D1						
GH-085S-045F/D1	2,569	1,595	2,808	2,056	1,279	2,248
GH-085S-050F/D1	3,172	1,969	3,467	2,659	1,654	2,906
GH-085S-060F/D1	4,568	2,835	4,993	2,997	1,864	3,275
GH-085S-070F/D1	6,218	3,859	6,796	4,646	2,890	5,079
GH-085S-080F/D1	8,121	5,041	8,877	6,550	4,074	7,159
GH-085S-090F/D1						
GH-085S-100F/D1						
GH-085S-110F/D1						
GH-085S-125F/D1						
GH-085S-140F/D1						
GH-085S-160F/D1						
GH-100S-050F/D1	3,775	2,343	4,126	1,905	1,185	2,082
GH-100S-060F/D1	5,436	3,374	5,942	3,566	2,218	3,898
GH-100S-070F/D1	7,399	4,593	8,088	5,529	3,439	6,044
GH-100S-080F/D1	9,664	5,999	10,563	7,794	4,848	8,520
GH-100S-090F/D1	12,231	7,592	13,370	10,361	6,444	11,326
GH-100S-100F/D1						
GH-100S-110F/D1						
GH-100S-125F/D1						
GH-100S-140F/D1						
GH-100S-160F/D1						
GH-100S-180F/D1						
GH-100S-200F/D1						
GH-130S-050F/D1	4,963	3,081	5,425	2,505	1,558	2,738
GH-130S-060F/D1	7,147	4,436	7,812	4,689	2,916	5,125
GH-130S-070F/D1	9,728	6,039	10,633	7,270	4,521	7,946
GH-130S-080F/D1	12,706	7,887	13,889	10,248	6,374	11,201
GH-130S-090F/D1	16,081	9,982	17,578	13,623	8,473	14,891
GH-130S-100F/D1	19,854	12,324	21,701	17,395	10,819	19,014
GH-130S-110F/D1	24,110	14,966	26,354	21,651	13,466	23,666
GH-130S-125F/D1	31,134	19,326	34,031	28,675	17,835	31,344
GH-130S-140F/D1						
GH-130S-160F/D1						
GH-130S-180F/D1						
GH-130S-200F/D1						
GH-130S-210F/D1						
GH-130S-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
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Model Number	140 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240F/D1						
GH-161S-110F/D1	30,008	18,627	32,800	24,950	15,518	27,272
GH-161S-125F/D1	38,750	24,054	42,356	33,692	20,955	36,827
GH-161S-140F/D1	48,608	30,173	53,131	43,550	27,087	47,602
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-200S-090F/D1	25,297	15,703	27,651	18,904	11,758	20,663
GH-200S-100F/D1	31,231	19,386	34,137	24,838	15,448	27,150
GH-200S-110F/D1	37,926	23,542	41,455	31,533	19,613	34,468
GH-200S-125F/D1	48,975	30,401	53,532	37,610	23,392	41,110
GH-200S-140F/D1	61,434	38,135	67,151	50,069	31,142	54,729
GH-200S-160F/D1	80,241	49,809	87,708	68,875	42,839	75,285
GH-200S-180F/D1						
GH-200S-200F/D1						
GH-200S-210F/D1						
GH-200S-220F/D1						
GH-200S-230F/D1						
GH-200S-240F/D1						
GH-200S-260F/D1						
GH-200S-280F/D1						
GH-200S-300F/D1						
GH-200S-320F/D1						
GH-200S-340F/D1						

GH RANGE TORQUE DATA
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Model Number	140 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201S-110F/D1	37,926	23,542	41,455	31,533	19,613	34,468
GH-201S-125F/D1	48,975	30,401	53,532	37,610	23,392	41,110
GH-201S-140F/D1	61,434	38,135	67,151	50,069	31,142	54,729
GH-201S-160F/D1	80,241	49,809	87,708	68,875	42,839	75,285
GH-201S-180F/D1	101,555	63,040	111,005	90,189	56,096	98,583
GH-201S-200F/D1	125,827	78,107	137,537	114,462	71,192	125,114
GH-201S-210F/D1						
GH-201S-220F/D1						
GH-201S-240F/D1						
GH-201S-260F/D1						
GH-201S-280F/D1						
GH-201S-300F/D1						
GH-201S-320F/D1						
GH-201S-340F/D1						
GH-201S-360F/D1						
GH-201S-380F/D1						
GH-270S-125F/D1	67,083	41,642	73,326	45,970	28,592	50,248
GH-270S-140F/D1	84,149	52,235	91,980	63,036	39,207	68,903
GH-270S-160F/D1	109,909	68,226	120,138	88,796	55,229	97,060
GH-270S-180F/D1	139,104	86,349	152,049	117,991	73,387	128,972
GH-270S-200F/D1	171,733	106,604	187,715	150,621	93,682	164,638
GH-270S-220F/D1	207,798	128,990	227,136	186,685	116,113	204,058
GH-270S-240F/D1						
GH-270S-250F/D1						
GH-270S-280F/D1						
GH-270S-300F/D1						
GH-270S-320F/D1						
GH-270S-340F/D1						
GH-270S-360F/D1						
GH-270S-380F/D1						
GH-270S-400F/D1						
GH-271S-140F/D1	84,149	52,235	91,980	63,036	39,207	68,903
GH-271S-160F/D1	109,909	68,226	120,138	88,796	55,229	97,060
GH-271S-180F/D1	139,104	86,349	152,049	117,991	73,387	128,972
GH-271S-200F/D1	171,733	106,604	187,715	150,621	93,682	164,638
GH-271S-220F/D1	207,798	128,990	227,136	186,685	116,113	204,058
GH-271S-240F/D1	247,296	153,509	270,310	223,060	138,738	243,818
GH-271S-250F/D1	268,334	166,568	293,305	244,097	151,822	266,813
GH-271S-280F/D1						
GH-271S-300F/D1						
GH-271S-320F/D1						
GH-271S-340F/D1						
GH-271S-360F/D1						
GH-271S-380F/D1						
GH-271S-400F/D1						
GH-271S-420F/D1						

GH RANGE TORQUE DATA
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Model Number	140 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350S-160F/D1	144,024	89,403	157,427	107,889	67,104	117,929
GH-350S-180F/D1	182,280	113,150	199,243	146,145	90,899	159,746
GH-350S-200F/D1	225,037	139,692	245,980	188,902	117,492	206,482
GH-350S-220F/D1	272,295	169,027	297,636	236,160	146,886	258,138
GH-350S-250F/D1	351,621	218,269	384,344	315,486	196,225	344,846
GH-350S-280F/D1	441,074	273,797	482,121	404,939	251,862	442,623
GH-350S-300F/D1	506,335	314,308	553,455	449,874	279,810	491,739
GH-350S-320F/D1						
GH-350S-350F/D1						
GH-350S-380F/D1						
GH-350S-400F/D1						
GH-350S-440F/D1						
GH-350S-460F/D1						

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Model Number	160 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045F/D1	2,222	1,379	2,429	1,779	1,106	1,945
GH-065S-050F/D1	2,744	1,703	2,999	2,301	1,431	2,515
GH-065S-060F/D1						
GH-065S-070F/D1						
GH-065S-080F/D1						
GH-065S-090F/D1						
GH-065S-100F/D1						
GH-065S-110F/D1						
GH-065S-125F/D1						
GH-085S-045F/D1	2,940	1,825	3,214	2,354	1,464	2,573
GH-085S-050F/D1	3,630	2,253	3,968	3,044	1,893	3,327
GH-085S-060F/D1	5,228	3,245	5,714	3,432	2,134	3,751
GH-085S-070F/D1	7,115	4,417	7,778	5,320	3,308	5,815
GH-085S-080F/D1						
GH-085S-090F/D1						
GH-085S-100F/D1						
GH-085S-110F/D1						
GH-085S-125F/D1						
GH-085S-140F/D1						
GH-085S-160F/D1						
GH-100S-050F/D1	4,320	2,681	4,722	2,183	1,357	2,386
GH-100S-060F/D1	6,221	3,861	6,800	4,084	2,540	4,464
GH-100S-070F/D1	8,467	5,256	9,255	6,330	3,937	6,920
GH-100S-080F/D1	11,060	6,865	12,089	8,923	5,549	9,753
GH-100S-090F/D1						
GH-100S-100F/D1						
GH-100S-110F/D1						
GH-100S-125F/D1						
GH-100S-140F/D1						
GH-100S-160F/D1						
GH-100S-180F/D1						
GH-100S-200F/D1						
GH-130S-050F/D1	5,680	3,526	6,208	2,870	1,785	3,137
GH-130S-060F/D1	8,179	5,077	8,940	5,369	3,339	5,869
GH-130S-070F/D1	11,133	6,911	12,169	8,323	5,177	9,098
GH-130S-080F/D1	14,541	9,026	15,894	11,731	7,296	12,823
GH-130S-090F/D1	18,404	11,424	20,116	15,594	9,699	17,045
GH-130S-100F/D1	22,721	14,104	24,835	19,911	12,384	21,764
GH-130S-110F/D1	27,579	17,120	30,146	24,769	15,406	27,074
GH-130S-125F/D1						
GH-130S-140F/D1						
GH-130S-160F/D1						
GH-130S-180F/D1						
GH-130S-200F/D1						
GH-130S-210F/D1						
GH-130S-220F/D1						

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Model Number	160 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240F/D1						
GH-161S-110F/D1	34,325	21,308	37,520	28,545	17,754	31,201
GH-161S-125F/D1	44,325	27,515	48,450	38,545	23,974	42,132
GH-161S-140F/D1	55,602	34,515	60,776	49,821	30,987	54,457
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-200S-090F/D1	28,950	17,971	31,644	21,644	13,462	23,658
GH-200S-100F/D1	35,741	22,186	39,067	28,435	17,686	31,081
GH-200S-110F/D1	43,383	26,930	47,420	36,077	22,439	39,434
GH-200S-125F/D1	56,022	34,775	61,235	43,033	26,765	47,038
GH-200S-140F/D1	70,274	43,622	76,813	57,285	35,630	62,616
GH-200S-160F/D1						
GH-200S-180F/D1						
GH-200S-200F/D1						
GH-200S-210F/D1						
GH-200S-220F/D1						
GH-200S-230F/D1						
GH-200S-240F/D1						
GH-200S-260F/D1						
GH-200S-280F/D1						
GH-200S-300F/D1						
GH-200S-320F/D1						
GH-200S-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	160 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201S-110F/D1	43,383	26,930	47,420	36,077	22,439	39,434
GH-201S-125F/D1	56,022	34,775	61,235	43,033	26,765	47,038
GH-201S-140F/D1	70,274	43,622	76,813	57,285	35,630	62,616
GH-201S-160F/D1	91,786	56,976	100,328	78,797	49,010	86,130
GH-201S-180F/D1	116,167	72,110	126,977	103,178	64,174	112,780
GH-201S-200F/D1						
GH-201S-210F/D1						
GH-201S-220F/D1						
GH-201S-240F/D1						
GH-201S-260F/D1						
GH-201S-280F/D1						
GH-201S-300F/D1						
GH-201S-320F/D1						
GH-201S-340F/D1						
GH-201S-360F/D1						
GH-201S-380F/D1						
GH-270S-125F/D1	76,701	47,612	83,839	52,572	32,698	57,464
GH-270S-140F/D1	96,214	59,725	105,167	72,085	44,835	78,793
GH-270S-160F/D1	125,667	78,008	137,362	101,538	63,154	110,987
GH-270S-180F/D1	159,047	98,729	173,849	134,918	83,916	147,474
GH-270S-200F/D1	196,355	121,887	214,628	172,226	107,120	188,254
GH-270S-220F/D1						
GH-270S-240F/D1						
GH-270S-250F/D1						
GH-270S-280F/D1						
GH-270S-300F/D1						
GH-270S-320F/D1						
GH-270S-340F/D1						
GH-270S-360F/D1						
GH-270S-380F/D1						
GH-270S-400F/D1						
GH-271S-140F/D1	96,214	59,725	105,167	72,085	44,835	78,793
GH-271S-160F/D1	125,667	78,008	137,362	101,538	63,154	110,987
GH-271S-180F/D1	159,047	98,729	173,849	134,918	83,916	147,474
GH-271S-200F/D1	196,355	121,887	214,628	172,226	107,120	188,254
GH-271S-220F/D1	237,589	147,484	259,700	213,461	132,767	233,325
GH-271S-240F/D1	282,751	175,518	309,064	255,052	158,636	278,788
GH-271S-250F/D1						
GH-271S-280F/D1						
GH-271S-300F/D1						
GH-271S-320F/D1						
GH-271S-340F/D1						
GH-271S-360F/D1						
GH-271S-380F/D1						
GH-271S-400F/D1						
GH-271S-420F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	160 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350S-160F/D1	164,672	102,220	179,997	123,375	76,736	134,857
GH-350S-180F/D1	208,414	129,373	227,809	167,116	103,942	182,668
GH-350S-200F/D1	257,301	159,720	281,246	216,004	134,349	236,105
GH-350S-220F/D1	311,334	193,261	340,307	270,037	167,956	295,167
GH-350S-250F/D1	402,033	249,562	439,447	360,736	224,369	394,306
GH-350S-280F/D1	504,310	313,051	551,242	463,013	287,983	506,102
GH-350S-300F/D1						
GH-350S-320F/D1						
GH-350S-350F/D1						
GH-350S-380F/D1						
GH-350S-400F/D1						
GH-350S-440F/D1						
GH-350S-460F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	180 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045F/D1	2,503	1,554	2,736	2,004	1,246	2,191
GH-065S-050F/D1	3,090	1,918	3,378	2,592	1,612	2,833
GH-065S-060F/D1						
GH-065S-070F/D1						
GH-065S-080F/D1						
GH-065S-090F/D1						
GH-065S-100F/D1						
GH-065S-110F/D1						
GH-065S-125F/D1						
GH-085S-045F/D1	3,311	2,055	3,620	2,652	1,649	2,898
GH-085S-050F/D1	4,088	2,538	4,469	3,429	2,132	3,748
GH-085S-060F/D1	5,887	3,654	6,435	3,867	2,405	4,227
GH-085S-070F/D1	8,013	4,974	8,759	5,993	3,727	6,551
GH-085S-080F/D1						
GH-085S-090F/D1						
GH-085S-100F/D1						
GH-085S-110F/D1						
GH-085S-125F/D1						
GH-085S-140F/D1						
GH-085S-160F/D1						
GH-100S-050F/D1	4,865	3,020	5,318	2,461	1,530	2,690
GH-100S-060F/D1	7,006	4,349	7,658	4,602	2,862	5,030
GH-100S-070F/D1	9,536	5,919	10,423	7,132	4,436	7,796
GH-100S-080F/D1	12,455	7,731	13,614	10,051	6,251	10,987
GH-100S-090F/D1						
GH-100S-100F/D1						
GH-100S-110F/D1						
GH-100S-125F/D1						
GH-100S-140F/D1						
GH-100S-160F/D1						
GH-100S-180F/D1						
GH-100S-200F/D1						
GH-130S-050F/D1	6,397	3,970	6,992	3,236	2,012	3,537
GH-130S-060F/D1	9,211	5,718	10,069	6,050	3,763	6,613
GH-130S-070F/D1	12,538	7,783	13,705	9,377	5,832	10,250
GH-130S-080F/D1	16,376	10,165	17,900	13,215	8,219	14,445
GH-130S-090F/D1	20,726	12,866	22,655	17,565	10,925	19,200
GH-130S-100F/D1	25,588	15,883	27,969	22,427	13,949	24,514
GH-130S-110F/D1	31,048	19,273	33,938	27,887	17,345	30,482
GH-130S-125F/D1						
GH-130S-140F/D1						
GH-130S-160F/D1						
GH-130S-180F/D1						
GH-130S-200F/D1						
GH-130S-210F/D1						
GH-130S-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	180 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240F/D1						
GH-161S-110F/D1	38,643	23,988	42,239	32,140	19,990	35,131
GH-161S-125F/D1	49,901	30,976	54,544	43,397	26,992	47,436
GH-161S-140F/D1						
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-200S-090F/D1	32,603	20,238	35,637	24,384	15,166	26,653
GH-200S-100F/D1	40,251	24,986	43,997	32,031	19,923	35,012
GH-200S-110F/D1	48,840	30,317	53,385	40,621	25,265	44,401
GH-200S-125F/D1	63,068	39,150	68,938	48,456	30,138	52,966
GH-200S-140F/D1	79,113	49,109	86,475	64,501	40,118	70,503
GH-200S-160F/D1						
GH-200S-180F/D1						
GH-200S-200F/D1						
GH-200S-210F/D1						
GH-200S-220F/D1						
GH-200S-230F/D1						
GH-200S-240F/D1						
GH-200S-260F/D1						
GH-200S-280F/D1						
GH-200S-300F/D1						
GH-200S-320F/D1						
GH-200S-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	180 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201S-110F/D1	48,840	30,317	53,385	40,621	25,265	44,401
GH-201S-125F/D1	63,068	39,150	68,938	48,456	30,138	52,966
GH-201S-140F/D1	79,113	49,109	86,475	64,501	40,118	70,503
GH-201S-160F/D1	103,331	64,143	112,948	88,719	55,181	96,976
GH-201S-180F/D1	130,779	81,181	142,950	116,167	72,253	126,977
GH-201S-200F/D1						
GH-201S-210F/D1						
GH-201S-220F/D1						
GH-201S-240F/D1						
GH-201S-260F/D1						
GH-201S-280F/D1						
GH-201S-300F/D1						
GH-201S-320F/D1						
GH-201S-340F/D1						
GH-201S-360F/D1						
GH-201S-380F/D1						
GH-270S-125F/D1	86,319	53,582	94,351	59,173	36,804	64,680
GH-270S-140F/D1	108,278	67,214	118,355	81,133	50,463	88,683
GH-270S-160F/D1	141,425	87,789	154,586	114,280	71,079	124,915
GH-270S-180F/D1	178,991	111,108	195,648	151,846	94,444	165,977
GH-270S-200F/D1	220,976	137,171	241,541	193,831	120,558	211,869
GH-270S-220F/D1						
GH-270S-240F/D1						
GH-270S-250F/D1						
GH-270S-280F/D1						
GH-270S-300F/D1						
GH-270S-320F/D1						
GH-270S-340F/D1						
GH-270S-360F/D1						
GH-270S-380F/D1						
GH-270S-400F/D1						
GH-271S-140F/D1	108,278	67,214	118,355	81,133	50,463	88,683
GH-271S-160F/D1	141,425	87,789	154,586	114,280	71,079	124,915
GH-271S-180F/D1	178,991	111,108	195,648	151,846	94,444	165,977
GH-271S-200F/D1	220,976	137,171	241,541	193,831	120,558	211,869
GH-271S-220F/D1	267,381	165,977	292,264	240,236	149,421	262,593
GH-271S-240F/D1						
GH-271S-250F/D1						
GH-271S-280F/D1						
GH-271S-300F/D1						
GH-271S-320F/D1						
GH-271S-340F/D1						
GH-271S-360F/D1						
GH-271S-380F/D1						
GH-271S-400F/D1						
GH-271S-420F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	180 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350S-160F/D1	185,321	115,038	202,567	138,862	86,368	151,784
GH-350S-180F/D1	234,547	145,595	256,374	188,088	116,986	205,591
GH-350S-200F/D1	289,564	179,747	316,512	243,105	151,205	265,729
GH-350S-220F/D1	350,373	217,494	382,979	303,914	189,027	332,196
GH-350S-250F/D1	452,445	280,855	494,550	405,985	252,513	443,767
GH-350S-280F/D1						
GH-350S-300F/D1						
GH-350S-320F/D1						
GH-350S-350F/D1						
GH-350S-380F/D1						
GH-350S-400F/D1						
GH-350S-440F/D1						
GH-350S-460F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	200 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045F/D1	2,783	1,728	3,043	2,229	1,386	2,437
GH-065S-050F/D1	3,437	2,133	3,756	2,882	1,793	3,151
GH-065S-060F/D1						
GH-065S-070F/D1						
GH-065S-080F/D1						
GH-065S-090F/D1						
GH-065S-100F/D1						
GH-065S-110F/D1						
GH-065S-125F/D1						
GH-085S-045F/D1	3,682	2,286	4,025	2,949	1,834	3,224
GH-085S-050F/D1	4,546	2,822	4,969	3,813	2,372	4,168
GH-085S-060F/D1	6,547	4,064	7,156	4,302	2,676	4,703
GH-085S-070F/D1	8,911	5,532	9,741	6,667	4,146	7,287
GH-085S-080F/D1						
GH-085S-090F/D1						
GH-085S-100F/D1						
GH-085S-110F/D1						
GH-085S-125F/D1						
GH-085S-140F/D1						
GH-085S-160F/D1						
GH-100S-050F/D1	5,410	3,358	5,914	2,739	1,703	2,994
GH-100S-060F/D1	7,791	4,836	8,516	5,120	3,184	5,596
GH-100S-070F/D1	10,604	6,583	11,591	7,933	4,934	8,672
GH-100S-080F/D1						
GH-100S-090F/D1						
GH-100S-100F/D1						
GH-100S-110F/D1						
GH-100S-125F/D1						
GH-100S-140F/D1						
GH-100S-160F/D1						
GH-100S-180F/D1						
GH-100S-200F/D1						
GH-130S-050F/D1	7,113	4,415	7,775	3,601	2,240	3,936
GH-130S-060F/D1	10,243	6,358	11,197	6,731	4,187	7,358
GH-130S-070F/D1	13,943	8,655	15,240	10,431	6,487	11,401
GH-130S-080F/D1	18,211	11,304	19,906	14,699	9,142	16,067
GH-130S-090F/D1	23,048	14,307	25,193	19,536	12,151	21,354
GH-130S-100F/D1	28,455	17,663	31,103	24,943	15,514	27,264
GH-130S-110F/D1	34,517	21,426				
GH-130S-125F/D1						
GH-130S-140F/D1						
GH-130S-160F/D1						
GH-130S-180F/D1						
GH-130S-200F/D1						
GH-130S-210F/D1						
GH-130S-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	200 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240F/D1						
GH-161S-110F/D1	42,961	26,668	46,959	35,735	22,226	39,060
GH-161S-125F/D1	55,476	34,437	60,639	48,250	30,011	52,741
GH-161S-140F/D1						
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-200S-090F/D1	36,256	22,506	39,630	27,123	16,870	29,648
GH-200S-100F/D1	44,761	27,785	48,926	35,628	22,160	38,944
GH-200S-110F/D1	54,297	33,705	59,350	45,164	28,091	49,368
GH-200S-125F/D1	70,115	43,524	76,640	53,879	33,511	58,893
GH-200S-140F/D1	87,953	54,596	96,138	71,717	44,606	78,391
GH-200S-160F/D1						
GH-200S-180F/D1						
GH-200S-200F/D1						
GH-200S-210F/D1						
GH-200S-220F/D1						
GH-200S-230F/D1						
GH-200S-240F/D1						
GH-200S-260F/D1						
GH-200S-280F/D1						
GH-200S-300F/D1						
GH-200S-320F/D1						
GH-200S-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	200 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201S-110F/D1	54,297	33,705	59,350	45,164	28,091	49,368
GH-201S-125F/D1	70,115	43,524	76,640	53,879	33,511	58,893
GH-201S-140F/D1	87,953	54,596	96,138	71,717	44,606	78,391
GH-201S-160F/D1	114,877	71,310	125,568	98,641	61,352	107,821
GH-201S-180F/D1						
GH-201S-200F/D1						
GH-201S-210F/D1						
GH-201S-220F/D1						
GH-201S-240F/D1						
GH-201S-260F/D1						
GH-201S-280F/D1						
GH-201S-300F/D1						
GH-201S-320F/D1						
GH-201S-340F/D1						
GH-201S-360F/D1						
GH-201S-380F/D1						
GH-270S-125F/D1	95,936	59,552	104,864	65,775	40,910	71,896
GH-270S-140F/D1	120,343	74,703	131,542	90,181	56,090	98,574
GH-270S-160F/D1	157,182	97,571	171,810	127,021	79,004	138,842
GH-270S-180F/D1	198,934	123,488	217,447	168,773	104,972	184,479
GH-270S-200F/D1						
GH-270S-220F/D1						
GH-270S-240F/D1						
GH-270S-250F/D1						
GH-270S-280F/D1						
GH-270S-300F/D1						
GH-270S-320F/D1						
GH-270S-340F/D1						
GH-270S-360F/D1						
GH-270S-380F/D1						
GH-270S-400F/D1						
GH-271S-140F/D1	120,343	74,703	131,542	90,181	56,090	98,574
GH-271S-160F/D1	157,182	97,571	171,810	127,021	79,004	138,842
GH-271S-180F/D1	198,934	123,488	217,447	168,773	104,972	184,479
GH-271S-200F/D1	245,598	152,455	268,453	215,436	133,996	235,485
GH-271S-220F/D1						
GH-271S-240F/D1						
GH-271S-250F/D1						
GH-271S-280F/D1						
GH-271S-300F/D1						
GH-271S-320F/D1						
GH-271S-340F/D1						
GH-271S-360F/D1						
GH-271S-380F/D1						
GH-271S-400F/D1						
GH-271S-420F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	200 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350S-160F/D1	205,970	127,856	225,137	154,348	96,001	168,712
GH-350S-180F/D1	260,680	161,818	284,940	209,059	130,029	228,514
GH-350S-200F/D1	321,828	199,775	351,778	270,206	168,062	295,352
GH-350S-220F/D1	389,412	241,728	425,651	337,790	210,097	369,225
GH-350S-250F/D1	502,856	312,148	549,653	451,235	280,657	493,227
GH-350S-280F/D1						
GH-350S-300F/D1						
GH-350S-320F/D1						
GH-350S-350F/D1						
GH-350S-380F/D1						
GH-350S-400F/D1						
GH-350S-440F/D1						
GH-350S-460F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	207 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-045F/D1	2,882	1,789	3,150	2,308	1,435	2,523
GH-065S-050F/D1	3,558	2,208	3,889	2,984	1,856	3,262
GH-065S-060F/D1						
GH-065S-070F/D1						
GH-065S-080F/D1						
GH-065S-090F/D1						
GH-065S-100F/D1						
GH-065S-110F/D1						
GH-065S-125F/D1						
GH-085S-045F/D1	3,812	2,366	4,167	3,054	1,899	3,338
GH-085S-050F/D1	4,707	2,921	5,145	3,948	2,455	4,315
GH-085S-060F/D1	6,778	4,207	7,409	4,454	2,770	4,869
GH-085S-070F/D1						
GH-085S-080F/D1						
GH-085S-090F/D1						
GH-085S-100F/D1						
GH-085S-110F/D1						
GH-085S-125F/D1						
GH-085S-140F/D1						
GH-085S-160F/D1						
GH-100S-050F/D1	5,601	3,477	6,122	2,836	1,764	3,100
GH-100S-060F/D1	8,066	5,007	8,816	5,301	3,297	5,794
GH-100S-070F/D1	10,978	6,815	12,000	8,214	5,109	8,978
GH-100S-080F/D1						
GH-100S-090F/D1						
GH-100S-100F/D1						
GH-100S-110F/D1						
GH-100S-125F/D1						
GH-100S-140F/D1						
GH-100S-160F/D1						
GH-100S-180F/D1						
GH-100S-200F/D1						
GH-130S-050F/D1	7,364	4,571	8,050	3,729	2,319	4,076
GH-130S-060F/D1	10,605	6,583	11,592	6,970	4,335	7,618
GH-130S-070F/D1	14,434	8,960	15,778	10,799	6,717	11,804
GH-130S-080F/D1	18,853	11,703	20,608	15,218	9,465	16,634
GH-130S-090F/D1	23,861	14,812	26,082	20,226	12,580	22,108
GH-130S-100F/D1	29,458	18,286	32,200	25,823	16,061	28,226
GH-130S-110F/D1						
GH-130S-125F/D1						
GH-130S-140F/D1						
GH-130S-160F/D1						
GH-130S-180F/D1						
GH-130S-200F/D1						
GH-130S-210F/D1						
GH-130S-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	207 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130S-240F/D1						
GH-161S-110F/D1	44,472	27,606	48,611	36,993	23,009	40,436
GH-161S-125F/D1	57,428	35,648	62,772	49,949	31,067	54,597
GH-161S-140F/D1						
GH-161S-160F/D1						
GH-161S-180F/D1						
GH-161S-200F/D1						
GH-200S-090F/D1	37,535	23,300	41,028	28,082	17,466	30,696
GH-200S-100F/D1	46,339	28,765	50,652	36,887	22,943	40,320
GH-200S-110F/D1	56,207	34,890	61,438	46,755	29,080	51,106
GH-200S-125F/D1	72,582	45,055	79,336	55,777	34,692	60,968
GH-200S-140F/D1	91,046	56,517	99,519	74,242	46,177	81,151
GH-200S-160F/D1						
GH-200S-180F/D1						
GH-200S-200F/D1						
GH-200S-210F/D1						
GH-200S-220F/D1						
GH-200S-230F/D1						
GH-200S-240F/D1						
GH-200S-260F/D1						
GH-200S-280F/D1						
GH-200S-300F/D1						
GH-200S-320F/D1						
GH-200S-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	207 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201S-110F/D1	56,207	34,890	61,438	46,755	29,080	51,106
GH-201S-125F/D1	72,582	45,055	79,336	55,777	34,692	60,968
GH-201S-140F/D1	91,046	56,517	99,519	74,242	46,177	81,151
GH-201S-160F/D1	118,918	73,818	129,985	102,114	63,512	111,617
GH-201S-180F/D1						
GH-201S-200F/D1						
GH-201S-210F/D1						
GH-201S-220F/D1						
GH-201S-240F/D1						
GH-201S-260F/D1						
GH-201S-280F/D1						
GH-201S-300F/D1						
GH-201S-320F/D1						
GH-201S-340F/D1						
GH-201S-360F/D1						
GH-201S-380F/D1						
GH-270S-125F/D1	99,302	61,642	108,544	68,086	42,347	74,422
GH-270S-140F/D1	124,565	77,324	136,157	93,348	58,060	102,035
GH-270S-160F/D1	162,697	100,994	177,838	131,481	81,778	143,716
GH-270S-180F/D1	205,914	127,821	225,077	174,697	108,657	190,955
GH-270S-200F/D1						
GH-270S-220F/D1						
GH-270S-240F/D1						
GH-270S-250F/D1						
GH-270S-280F/D1						
GH-270S-300F/D1						
GH-270S-320F/D1						
GH-270S-340F/D1						
GH-270S-360F/D1						
GH-270S-380F/D1						
GH-270S-400F/D1						
GH-271S-140F/D1	124,565	77,324	136,157	93,348	58,060	102,035
GH-271S-160F/D1	162,697	100,994	177,838	131,481	81,778	143,716
GH-271S-180F/D1	205,914	127,821	225,077	174,697	108,657	190,955
GH-271S-200F/D1	254,215	157,804	277,873	222,998	138,699	243,751
GH-271S-220F/D1						
GH-271S-240F/D1						
GH-271S-250F/D1						
GH-271S-280F/D1						
GH-271S-300F/D1						
GH-271S-320F/D1						
GH-271S-340F/D1						
GH-271S-360F/D1						
GH-271S-380F/D1						
GH-271S-400F/D1						
GH-271S-420F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	207 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-350S-160F/D1	213,197	132,342	233,037	159,768	99,372	174,637
GH-350S-180F/D1	269,827	167,495	294,938	216,399	134,595	236,537
GH-350S-200F/D1	333,120	206,784	364,121	279,692	173,961	305,720
GH-350S-220F/D1	403,075	250,209	440,586	349,647	217,472	382,186
GH-350S-250F/D1	520,500	323,101	568,939	467,072	290,507	510,538
GH-350S-280F/D1						
GH-350S-300F/D1						
GH-350S-320F/D1						
GH-350S-350F/D1						
GH-350S-380F/D1						
GH-350S-400F/D1						
GH-350S-440F/D1						
GH-350S-460F/D1						

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1	1,036	523	731	989	506	719
GH-065S-060F/C1	1,824	1,017	1,593	978	499	706
GH-065S-050F/C2						
GH-065S-060F/C2	1,393	653	833	1,607	812	1,133
GH-065S-070F/C2	2,324	1,242	1,852	1,593	803	1,118
GH-065S-080F/C2	3,400	1,913	3,027	1,578	793	1,101
GH-065S-090F/C2						
GH-065S-070F/C3						
GH-065S-050F/C4						
GH-065S-060F/C4	891	234	228	2,108	1,111	1,629
GH-065S-070F/C4	1,822	908	1,247	2,094	1,102	1,615
GH-085S-050F/C1	1,370	637	804	1,444	707	951
GH-085S-060F/C1	2,413	1,296	1,944	1,429	698	934
GH-085S-070F/C1	3,646	2,066	3,292	1,411	686	915
GH-085S-050F/C2						
GH-085S-060F/C2	1,842	759	822	2,358	1,137	1,499
GH-085S-070F/C2	3,075	1,554	2,169	2,340	1,125	1,480
GH-085S-060F/C3						
GH-085S-070F/C3						
GH-085S-080F/C3	3,607	1,621	1,959	3,781	1,800	2,338
GH-085S-090F/C3	5,219	2,650	3,721	3,758	1,786	2,313
GH-085S-050F/C4						
GH-085S-060F/C4	1,567	433	423	2,689	1,317	1,772
GH-085S-070F/C4	2,799	1,346	1,770	2,671	1,306	1,752
GH-085S-080F/C4	4,222	2,244	3,325	2,650	1,293	1,730
GH-085S-090F/C4	5,834	3,251	5,087	2,627	1,278	1,704
GH-085S-050F/C5						
GH-085S-060F/C5						
GH-085S-070F/C5						
GH-085S-080F/C5	3,250	1,387	1,569	4,104	2,006	2,691
GH-085S-090F/C5	4,862	2,424	3,331	4,080	1,991	2,665
GH-085S-050F/C6						
GH-085S-060F/C6						
GH-085S-070F/C6						
GH-085S-080F/C6						
GH-085S-090F/C6	4,311	1,897	2,230	4,991	2,419	3,211
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7						
GH-085S-080F/C7						
GH-085S-090F/C7						
GH-100S-070F/C1						
GH-100S-080F/C1						
GH-100S-090F/C1	5,781	2,244	2,259	6,351	2,788	3,268
GH-100S-110F/C1	10,317	5,193	7,217	6,307	2,760	3,221
GH-100S-080F/C2						

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2						
GH-100S-110F/C2	9,072	4,404	5,856	7,434	3,490	4,452
GH-130S-070F/C1						
GH-130S-080F/C1						
GH-130S-090F/C1						
GH-130S-110F/C1						
GH-130S-125F/C1						
GH-130S-080F/C2						
GH-130S-090F/C2						
GH-130S-110F/C2						
GH-130S-125F/C2						
GH-130S-070F/C3						
GH-130S-080F/C3						
GH-130S-090F/C3	5,639	2,396	2,693	8,469	4,325	6,117
GH-130S-100F/C3	8,458	4,211	5,775	8,428	4,300	6,073
GH-130S-110F/C3	11,660	6,225	9,275	8,470	4,326	6,118
GH-130S-125F/C3	16,916	9,509	15,020	8,419	4,294	6,063
GH-130S-080F/C4						
GH-130S-090F/C4	4,416	1,378	1,357	9,575	5,022	7,327
GH-130S-100F/C4	7,235	3,433	4,438	9,535	4,996	7,282
GH-130S-110F/C4	10,437	5,458	7,938	9,576	5,022	7,328
GH-130S-125F/C4	15,693	8,746	13,683	9,526	4,990	7,272
GH-130S-080F/C5						
GH-130S-090F/C5						
GH-130S-110F/C5	8,869	3,774	4,251	12,629	6,371	8,879
GH-130S-125F/C5	14,124	7,147	9,995	12,578	6,339	8,824
GH-130S-140F/C5	20,050	10,867	16,473	12,521	6,304	8,761
GH-130S-090F/C6						
GH-130S-110F/C6						
GH-130S-125F/C6	12,200	4,753	4,806	16,873	8,135	10,726
GH-130S-140F/C6	18,126	8,658	11,283	16,816	8,099	10,664
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-161S-140F/C5						
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
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-110F/C1						
GH-200S-125F/C1						
GH-200S-140F/C1	21,323	9,391	11,049	31,999	16,591	23,887
GH-200S-160F/C1	35,394	18,354	26,430	31,864	16,506	23,739
GH-200S-180F/C1	51,341	28,341	43,861	31,710	16,410	23,571
GH-200S-125F/C2						
GH-200S-140F/C2						
GH-200S-160F/C2	27,874	11,510	12,481	43,410	22,114	31,175
GH-200S-180F/C2	43,822	21,815	29,912	43,257	22,017	31,007
GH-201S-200F/C3	41,799	9,543	9,180	77,230	38,006	51,386
GH-201S-160F/C7						
GH-201S-200F/C7	52,938	24,159	29,740	60,213	29,733	40,370
GH-270S-200F/C0						
GH-270S-220F/C0	86,003	21,839	21,192	122,551	55,652	68,075
GH-270S-240F/C0	115,592	48,453	53,534	122,409	55,560	67,920
GH-270S-200F/C2						
GH-270S-220F/C2						
GH-270S-240F/C2						
GH-270S-250F/C2	124,835	28,322	27,230	158,365	66,758	74,282
GH-270S-280F/C2	175,972	74,410	83,126	158,120	66,594	74,014
GH-270S-220F/C3						
GH-270S-250F/C3						
GH-270S-280F/C3	163,791	66,164	69,811	169,141	73,899	86,061
GH-270S-200F/C4						
GH-270S-220F/C4	93,411	29,718	29,289	115,849	51,292	60,749
GH-270S-240F/C4		123,000	53,378	61,631	115,707	51,199
GH-271S-200F/C0						
GH-271S-220F/C0	86,003	21,839	21,192	122,551	55,652	68,075
GH-271S-240F/C0	115,592	48,453	53,534	122,409	55,560	67,920
GH-271S-250F/C0	131,351	58,847	70,760	122,334	55,511	67,838
GH-271S-280F/C0	182,488	91,536	126,656	122,089	55,353	67,570
GH-271S-300F/C0	219,796	115,033	167,435	121,910	55,238	67,375
GH-271S-320F/C0	259,676	140,038	211,027	121,720	55,114	67,166
GH-271S-340F/C0	302,130	166,574	257,431	121,516	54,983	66,944

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2						
GH-271S-220F/C2						
GH-271S-240F/C2						
GH-271S-250F/C2	124,835	28,322	27,230	158,365	66,758	74,282
GH-271S-280F/C2	175,972	74,410	83,126	158,120	66,594	74,014
GH-271S-300F/C2	213,280	98,791	123,905	157,942	66,474	73,819
GH-271S-320F/C2	253,160	124,272	167,497	157,751	66,346	73,610
GH-271S-340F/C2	295,614	151,111	213,901	157,548	66,209	73,388
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3						
GH-271S-220F/C3						
GH-271S-240F/C3						
GH-271S-250F/C3						
GH-271S-280F/C3	163,791	66,164	69,811	169,141	73,899	86,061
GH-271S-300F/C3	201,099	90,921	110,590	168,963	73,782	85,866
GH-271S-320F/C3	240,979	116,521	154,182	168,772	73,657	85,657
GH-271S-340F/C3	283,433	143,425	200,586	168,569	73,524	85,435
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4						
GH-271S-220F/C4	93,411	29,718	29,289	115,849	51,292	60,749
GH-271S-240F/C4	123,000	53,378	61,631	115,707	51,199	60,594
GH-271S-250F/C4	138,759	63,651	78,857	115,632	51,149	60,512
GH-271S-280F/C4	189,896	96,210	134,753	115,387	50,989	60,245
GH-271S-300F/C4	227,203	119,687	175,532	115,208	50,872	60,049
GH-271S-320F/C4	267,084	144,668	219,124	115,018	50,747	59,841
GH-271S-340F/C4	309,537	171,204	265,528	114,814	50,613	59,619
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1						
GH-350S-250F/C1						
GH-350S-280F/C1						
GH-350S-300F/C1	279,456	99,502	98,699	259,662	97,282	96,755
GH-350S-320F/C1	331,715	139,923	155,821	259,412	97,016	96,481
GH-350S-350F/C1	416,425	195,169	248,414	259,007	96,585	96,038
GH-350S-380F/C1	508,721	253,925	349,299	258,565	96,115	95,556
GH-350S-400F/C1	574,466	295,426	421,162	258,251	95,780	95,212
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1	1,295	687	1,015	989	506	719
GH-065S-060F/C1	2,198	1,250	2,002	978	499	706
GH-065S-050F/C2	864	260	255	1,618	819	1,146
GH-065S-060F/C2	1,767	891	1,242	1,607	812	1,133
GH-065S-070F/C2	2,833	1,560	2,408	1,593	803	1,118
GH-065S-080F/C2						
GH-065S-090F/C2						
GH-065S-070F/C3	1,708	687	720	2,990	1,550	2,231
GH-065S-050F/C4						
GH-065S-060F/C4	1,265	550	637	2,108	1,111	1,629
GH-065S-070F/C4	2,332	1,229	1,803	2,094	1,102	1,615
GH-085S-050F/C1	1,714	856	1,180	1,444	707	951
GH-085S-060F/C1	2,908	1,605	2,485	1,429	698	934
GH-085S-070F/C1	4,320	2,485	4,028	1,411	686	915
GH-085S-050F/C2						
GH-085S-060F/C2	2,337	1,084	1,363	2,358	1,137	1,499
GH-085S-070F/C2	3,748	1,977	2,905	2,340	1,125	1,480
GH-085S-060F/C3						
GH-085S-070F/C3	2,858	1,120	1,140	3,802	1,814	2,361
GH-085S-080F/C3	4,486	2,186	2,920	3,781	1,800	2,338
GH-085S-090F/C3	6,332	3,350	4,938	3,758	1,786	2,313
GH-085S-050F/C4						
GH-085S-060F/C4	2,061	867	963	2,689	1,317	1,772
GH-085S-070F/C4	3,473	1,773	2,506	2,671	1,306	1,752
GH-085S-080F/C4	5,101	2,794	4,286	2,650	1,293	1,730
GH-085S-090F/C4	6,947	3,946	6,304	2,627	1,278	1,704
GH-085S-050F/C5						
GH-085S-060F/C5						
GH-085S-070F/C5	2,501	763	750	4,124	2,019	2,713
GH-085S-080F/C5	4,130	1,958	2,530	4,104	2,006	2,691
GH-085S-090F/C5	5,975	3,126	4,548	4,080	1,991	2,665
GH-085S-050F/C6						
GH-085S-060F/C6						
GH-085S-070F/C6						
GH-085S-080F/C6	3,578	1,403	1,430	5,015	2,434	3,236
GH-085S-090F/C6	5,424	2,615	3,447	4,991	2,419	3,211
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7						
GH-085S-080F/C7						
GH-085S-090F/C7	4,260	1,695	1,756	6,391	3,181	4,362
GH-100S-070F/C1						
GH-100S-080F/C1	4,900	1,329	1,296	6,370	2,801	3,289
GH-100S-090F/C1	7,106	3,139	3,707	6,351	2,788	3,268
GH-100S-110F/C1	12,296	6,439	9,380	6,307	2,760	3,221
GH-100S-080F/C2						

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2	5,861	2,301	2,346	7,477	3,518	4,500
GH-100S-110F/C2	11,051	5,656	8,019	7,434	3,490	4,452
GH-130S-070F/C1						
GH-130S-080F/C1						
GH-130S-090F/C1						
GH-130S-110F/C1						
GH-130S-125F/C1						
GH-130S-080F/C2						
GH-130S-090F/C2						
GH-130S-110F/C2						
GH-130S-125F/C2						
GH-130S-070F/C3						
GH-130S-080F/C3	4,493	1,460	1,441	8,505	4,349	6,157
GH-130S-090F/C3	7,380	3,526	4,597	8,469	4,325	6,117
GH-130S-100F/C3	10,608	5,566	8,125	8,428	4,300	6,073
GH-130S-110F/C3	14,262	7,853	12,119	8,470	4,326	6,118
GH-130S-125F/C3	20,275	11,602	18,692	8,419	4,294	6,063
GH-130S-080F/C4						
GH-130S-090F/C4	6,157	2,738	3,260	9,575	5,022	7,327
GH-130S-100F/C4	9,385	4,796	6,788	9,535	4,996	7,282
GH-130S-110F/C4	13,039	7,088	10,782	9,576	5,022	7,328
GH-130S-125F/C4	19,052	10,841	17,355	9,526	4,990	7,272
GH-130S-080F/C5						
GH-130S-090F/C5						
GH-130S-110F/C5	11,470	5,463	7,095	12,629	6,371	8,879
GH-130S-125F/C5	17,484	9,260	13,667	12,578	6,339	8,824
GH-130S-140F/C5	24,265	13,500	21,079	12,521	6,304	8,761
GH-130S-090F/C6						
GH-130S-110F/C6						
GH-130S-125F/C6	15,560	7,006	8,478	16,873	8,135	10,726
GH-130S-140F/C6	22,341	11,331	15,890	16,816	8,099	10,664
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-161S-140F/C5						
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
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-110F/C1						
GH-200S-125F/C1	17,286	6,653	6,637	32,089	16,648	23,985
GH-200S-140F/C1	27,952	13,654	18,296	31,999	16,591	23,887
GH-200S-160F/C1	44,053	23,786	35,895	31,864	16,506	23,739
GH-200S-180F/C1	62,300	35,178	55,840	31,710	16,410	23,571
GH-200S-125F/C2						
GH-200S-140F/C2	20,433	4,530	4,347	43,545	22,199	31,323
GH-200S-160F/C2	36,533	17,176	21,945	43,410	22,114	31,175
GH-200S-180F/C2	54,781	28,721	41,891	43,257	22,017	31,007
GH-201S-200F/C3	55,329	22,514	23,969	77,230	38,006	51,386
GH-201S-160F/C7						
GH-201S-200F/C7	66,468	32,810	44,529	60,213	29,733	40,370
GH-270S-200F/C0						
GH-270S-220F/C0	108,347	43,524	45,615	122,551	55,652	68,075
GH-270S-240F/C0	142,183	65,859	82,600	122,409	55,560	67,920
GH-270S-200F/C2						
GH-270S-220F/C2						
GH-270S-240F/C2	135,667	39,845	39,070	158,440	66,808	74,364
GH-270S-250F/C2	153,689	59,015	58,768	158,365	66,758	74,282
GH-270S-280F/C2	212,166	98,075	122,687	158,120	66,594	74,014
GH-270S-220F/C3						
GH-270S-250F/C3	141,507	46,057	45,453	169,386	74,060	86,328
GH-270S-280F/C3	199,985	90,197	109,373	169,141	73,899	86,061
GH-270S-200F/C4	84,861	20,623	19,943	115,978	51,376	60,890
GH-270S-220F/C4	115,755	48,562	53,712	115,849	51,292	60,749
GH-270S-240F/C4		149,591	70,616	90,697	115,707	51,199
GH-271S-200F/C0						
GH-271S-220F/C0	108,347	43,524	45,615	122,551	55,652	68,075
GH-271S-240F/C0	142,183	65,859	82,600	122,409	55,560	67,920
GH-271S-250F/C0	160,205	77,395	102,298	122,334	55,511	67,838
GH-271S-280F/C0	218,682	114,333	166,217	122,089	55,353	67,570
GH-271S-300F/C0	261,344	141,081	212,850	121,910	55,238	67,375
GH-271S-320F/C0	306,949	169,587	262,699	121,720	55,114	67,166
GH-271S-340F/C0						

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2						
GH-271S-220F/C2						
GH-271S-240F/C2	135,667	39,845	39,070	158,440	66,808	74,364
GH-271S-250F/C2	153,689	59,015	58,768	158,365	66,758	74,282
GH-271S-280F/C2	212,166	98,075	122,687	158,120	66,594	74,014
GH-271S-300F/C2	254,829	125,328	169,320	157,942	66,474	73,819
GH-271S-320F/C2	300,433	154,151	219,169	157,751	66,346	73,610
GH-271S-340F/C2						
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3						
GH-271S-220F/C3						
GH-271S-240F/C3	123,486	26,887	25,755	169,461	74,109	86,411
GH-271S-250F/C3	141,507	46,057	45,453	169,386	74,060	86,328
GH-271S-280F/C3	199,985	90,197	109,373	169,141	73,899	86,061
GH-271S-300F/C3	242,647	117,582	156,006	168,963	73,782	85,866
GH-271S-320F/C3	288,252	146,466	205,855	168,772	73,657	85,657
GH-271S-340F/C3						
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4	84,861	20,623	19,943	115,978	51,376	60,890
GH-271S-220F/C4	115,755	48,562	53,712	115,849	51,292	60,749
GH-271S-240F/C4	149,591	70,616	90,697	115,707	51,199	60,594
GH-271S-250F/C4	167,612	82,109	110,395	115,632	51,149	60,512
GH-271S-280F/C4	226,089	118,989	174,314	115,387	50,989	60,245
GH-271S-300F/C4	268,752	145,711	220,947	115,208	50,872	60,049
GH-271S-320F/C4	314,357	174,210	270,796	115,018	50,747	59,841
GH-271S-340F/C4						
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1						
GH-350S-250F/C1						
GH-350S-280F/C1	277,996	97,949	97,103	259,896	97,531	97,010
GH-350S-300F/C1	333,901	141,380	158,210	259,662	97,282	96,755
GH-350S-320F/C1	393,661	180,511	223,532	259,412	97,016	96,481
GH-350S-350F/C1	490,530	242,402	329,415	259,007	96,585	96,038
GH-350S-380F/C1	596,074	309,010	444,781	258,565	96,115	95,556
GH-350S-400F/C1						
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1						
GH-065S-060F/C1						
GH-065S-050F/C2						
GH-065S-060F/C2						
GH-065S-070F/C2						
GH-065S-080F/C2						
GH-065S-090F/C2						
GH-065S-070F/C3						
GH-065S-050F/C4						
GH-065S-060F/C4						
GH-065S-070F/C4						
GH-085S-050F/C1						
GH-085S-060F/C1						
GH-085S-070F/C1						
GH-085S-050F/C2						
GH-085S-060F/C2						
GH-085S-070F/C2						
GH-085S-060F/C3						
GH-085S-070F/C3						
GH-085S-080F/C3						
GH-085S-090F/C3						
GH-085S-050F/C4						
GH-085S-060F/C4						
GH-085S-070F/C4						
GH-085S-080F/C4						
GH-085S-090F/C4						
GH-085S-050F/C5						
GH-085S-060F/C5						
GH-085S-070F/C5						
GH-085S-080F/C5						
GH-085S-090F/C5						
GH-085S-050F/C6						
GH-085S-060F/C6						
GH-085S-070F/C6						
GH-085S-080F/C6						
GH-085S-090F/C6						
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7						
GH-085S-080F/C7						
GH-085S-090F/C7						
GH-100S-070F/C1						
GH-100S-080F/C1						
GH-100S-090F/C1						
GH-100S-110F/C1						
GH-100S-080F/C2						

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2						
GH-100S-110F/C2						
GH-130S-070F/C1						
GH-130S-080F/C1						
GH-130S-090F/C1						
GH-130S-110F/C1						
GH-130S-125F/C1						
GH-130S-080F/C2						
GH-130S-090F/C2						
GH-130S-110F/C2						
GH-130S-125F/C2						
GH-130S-070F/C3						
GH-130S-080F/C3						
GH-130S-090F/C3						
GH-130S-100F/C3						
GH-130S-110F/C3						
GH-130S-125F/C3						
GH-130S-080F/C4						
GH-130S-090F/C4						
GH-130S-100F/C4						
GH-130S-110F/C4						
GH-130S-125F/C4						
GH-130S-080F/C5						
GH-130S-090F/C5						
GH-130S-110F/C5						
GH-130S-125F/C5						
GH-130S-140F/C5						
GH-130S-090F/C6						
GH-130S-110F/C6						
GH-130S-125F/C6						
GH-130S-140F/C6						
GH-161S-110F/C2	15,083	7,549	10,417	16,359	8,538	12,389
GH-161S-110F/C3	12,165	5,691	7,227	18,998	10,194	15,274
GH-161S-110F/C4						
GH-161S-110F/C5						
GH-161S-125F/C2	23,196	12,642	19,285	16,296	8,499	12,320
GH-161S-125F/C3	20,278	10,816	16,095	18,936	10,155	15,206
GH-161S-125F/C4	15,800	7,435	9,511	24,385	13,094	19,635
GH-161S-125F/C5						
GH-161S-140F/C2	32,345	18,352	29,285	16,225	8,454	12,243
GH-161S-140F/C3	29,427	16,532	26,096	18,865	10,110	15,128
GH-161S-140F/C4	24,948	13,216	19,512	24,314	13,049	19,557
GH-161S-140F/C5	20,531	9,197	11,056	31,313	16,411	23,926
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4	38,758	21,845	34,606	24,207	12,982	19,440

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-160F/C5	34,341	17,970	26,151	31,206	16,344	23,809
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5	49,991	27,762	43,258	31,085	16,268	23,676
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-110F/C1						
GH-200S-125F/C1						
GH-200S-140F/C1						
GH-200S-160F/C1						
GH-200S-180F/C1						
GH-200S-125F/C2						
GH-200S-140F/C2						
GH-200S-160F/C2						
GH-200S-180F/C2						
GH-201S-200F/C3						
GH-201S-160F/C7						
GH-201S-200F/C7						
GH-270S-200F/C0						
GH-270S-220F/C0						
GH-270S-240F/C0						
GH-270S-200F/C2						
GH-270S-220F/C2						
GH-270S-240F/C2						
GH-270S-250F/C2						
GH-270S-280F/C2						
GH-270S-220F/C3						
GH-270S-250F/C3						
GH-270S-280F/C3						
GH-270S-200F/C4						
GH-270S-220F/C4						
GH-270S-240F/C4						
GH-271S-200F/C0						
GH-271S-220F/C0						
GH-271S-240F/C0						
GH-271S-250F/C0						
GH-271S-280F/C0						
GH-271S-300F/C0						
GH-271S-320F/C0						
GH-271S-340F/C0						

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2						
GH-271S-220F/C2						
GH-271S-240F/C2						
GH-271S-250F/C2						
GH-271S-280F/C2						
GH-271S-300F/C2						
GH-271S-320F/C2						
GH-271S-340F/C2						
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3						
GH-271S-220F/C3						
GH-271S-240F/C3						
GH-271S-250F/C3						
GH-271S-280F/C3						
GH-271S-300F/C3						
GH-271S-320F/C3						
GH-271S-340F/C3						
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4						
GH-271S-220F/C4						
GH-271S-240F/C4						
GH-271S-250F/C4						
GH-271S-280F/C4						
GH-271S-300F/C4						
GH-271S-320F/C4						
GH-271S-340F/C4						
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1						
GH-350S-250F/C1						
GH-350S-280F/C1						
GH-350S-300F/C1						
GH-350S-320F/C1						
GH-350S-350F/C1						
GH-350S-380F/C1						
GH-350S-400F/C1						
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1	1,642	903	1,394	989	506	719
GH-065S-060F/C1	2,697	1,561	2,547	978	499	706
GH-065S-050F/C2	1,210	535	634	1,618	819	1,146
GH-065S-060F/C2	2,265	1,205	1,787	1,607	812	1,133
GH-065S-070F/C2	3,512	1,984	3,150	1,593	803	1,118
GH-065S-080F/C2						
GH-065S-090F/C2						
GH-065S-070F/C3	2,387	1,132	1,462	2,990	1,550	2,231
GH-065S-050F/C4						
GH-065S-060F/C4	1,763	870	1,182	2,108	1,111	1,629
GH-065S-070F/C4	3,010	1,653	2,545	2,094	1,102	1,615
GH-085S-050F/C1	2,172	1,145	1,680	1,444	707	951
GH-085S-060F/C1	3,568	2,017	3,206	1,429	698	934
GH-085S-070F/C1	5,218	3,044	5,009	1,411	686	915
GH-085S-050F/C2	1,601	563	558	2,373	1,146	1,516
GH-085S-060F/C2	2,997	1,504	2,084	2,358	1,137	1,499
GH-085S-070F/C2	4,646	2,539	3,887	2,340	1,125	1,480
GH-085S-060F/C3						
GH-085S-070F/C3	3,756	1,718	2,121	3,802	1,814	2,361
GH-085S-080F/C3	5,659	2,927	4,202	3,781	1,800	2,338
GH-085S-090F/C3	7,816	4,279	6,560	3,758	1,786	2,313
GH-085S-050F/C4						
GH-085S-060F/C4	2,721	1,296	1,684	2,689	1,317	1,772
GH-085S-070F/C4	4,371	2,337	3,488	2,671	1,306	1,752
GH-085S-080F/C4	6,274	3,526	5,568	2,650	1,293	1,730
GH-085S-090F/C4	8,432	4,870	7,926	2,627	1,278	1,704
GH-085S-050F/C5						
GH-085S-060F/C5						
GH-085S-070F/C5	3,399	1,486	1,732	4,124	2,019	2,713
GH-085S-080F/C5	5,302	2,702	3,812	4,104	2,006	2,691
GH-085S-090F/C5	7,460	4,056	6,170	4,080	1,991	2,665
GH-085S-050F/C6						
GH-085S-060F/C6						
GH-085S-070F/C6	2,847	655	631	5,035	2,447	3,259
GH-085S-080F/C6	4,751	2,183	2,711	5,015	2,434	3,236
GH-085S-090F/C6	6,908	3,554	5,069	4,991	2,419	3,211
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7						
GH-085S-080F/C7	3,587	1,041	1,020	6,415	3,196	4,387
GH-085S-090F/C7	5,744	2,675	3,378	6,391	3,181	4,362
GH-100S-070F/C1						
GH-100S-080F/C1	6,296	2,601	2,822	6,370	2,801	3,289
GH-100S-090F/C1	8,872	4,277	5,638	6,351	2,788	3,268
GH-100S-110F/C1						
GH-100S-080F/C2	5,051	1,489	1,461	7,496	3,530	4,520

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2	7,627	3,478	4,277	7,477	3,518	4,500
GH-100S-110F/C2	13,690	7,313	10,903	7,434	3,490	4,452
GH-130S-070F/C1						
GH-130S-080F/C1						
GH-130S-090F/C1						
GH-130S-110F/C1						
GH-130S-125F/C1						
GH-130S-080F/C2						
GH-130S-090F/C2						
GH-130S-110F/C2						
GH-130S-125F/C2						
GH-130S-070F/C3						
GH-130S-080F/C3	6,328	2,848	3,446	8,505	4,349	6,157
GH-130S-090F/C3	9,703	4,997	7,136	8,469	4,325	6,117
GH-130S-100F/C3	13,475	7,361	11,259	8,428	4,300	6,073
GH-130S-110F/C3	17,731	10,017	15,911	8,470	4,326	6,118
GH-130S-125F/C3	24,755	14,392	23,589	8,419	4,294	6,063
GH-130S-080F/C4	5,105	2,033	2,110	9,612	5,045	7,367
GH-130S-090F/C4	8,480	4,225	5,799	9,575	5,022	7,327
GH-130S-100F/C4	12,252	6,596	9,922	9,535	4,996	7,282
GH-130S-110F/C4	16,508	9,255	14,574	9,576	5,022	7,328
GH-130S-125F/C4	23,532	13,630	22,252	9,526	4,990	7,272
GH-130S-080F/C5						
GH-130S-090F/C5	6,911	2,145	2,111	12,628	6,371	8,878
GH-130S-110F/C5	14,940	7,661	10,887	12,629	6,371	8,879
GH-130S-125F/C5	21,963	12,063	18,564	12,578	6,339	8,824
GH-130S-140F/C5	29,884	17,004	27,222	12,521	6,304	8,761
GH-130S-090F/C6						
GH-130S-110F/C6	13,016	5,321	5,697	16,924	8,167	10,781
GH-130S-125F/C6	20,040	9,875	13,375	16,873	8,135	10,726
GH-130S-140F/C6	27,960	14,863	22,032	16,816	8,099	10,664
GH-161S-110F/C2	17,242	8,910	12,776	16,359	8,538	12,389
GH-161S-110F/C3	14,324	7,068	9,587	18,998	10,194	15,274
GH-161S-110F/C4	9,846	3,003	3,003	24,448	13,133	19,704
GH-161S-110F/C5						
GH-161S-125F/C2	25,984	14,384	22,332	16,296	8,499	12,320
GH-161S-125F/C3	23,066	12,561	19,143	18,936	10,155	15,206
GH-161S-125F/C4	18,588	9,210	12,559	24,385	13,094	19,635
GH-161S-125F/C5	14,170	4,103	4,103	31,384	16,456	24,003
GH-161S-140F/C2	35,842	20,529	33,107	16,225	8,454	12,243
GH-161S-140F/C3	32,924	18,713	29,918	18,865	10,110	15,128
GH-161S-140F/C4	28,445	15,407	23,334	24,314	13,049	19,557
GH-161S-140F/C5	24,028	11,450	14,878	31,313	16,411	23,926
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4	43,325	24,692	39,599	24,207	12,982	19,440

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-160F/C5	38,908	20,834	31,143	31,206	16,344	23,809
GH-161S-180F/C2						
GH-161S-180F/C3						
GH-161S-180F/C4						
GH-161S-180F/C5	55,772	31,368	49,576	31,085	16,268	23,676
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-110F/C1						
GH-200S-125F/C1	24,332	11,342	14,339	32,089	16,648	23,985
GH-200S-140F/C1	36,792	19,233	27,958	31,999	16,591	23,887
GH-200S-160F/C1	55,598	30,998	48,515	31,864	16,506	23,739
GH-200S-180F/C1	76,912	44,280	71,812	31,710	16,410	23,571
GH-200S-125F/C2						
GH-200S-140F/C2	29,272	12,449	14,009	43,545	22,199	31,323
GH-200S-160F/C2	48,079	24,504	34,565	43,410	22,114	31,175
GH-200S-180F/C2	69,393	37,872	57,863	43,257	22,017	31,007
GH-201S-200F/C3	73,369	34,358	43,688	77,230	38,006	51,386
GH-201S-160F/C7	38,921	14,501	14,418	60,086	29,653	40,232
GH-201S-200F/C7	84,507	44,187	64,247	60,213	29,733	40,370
GH-270S-200F/C0	102,075	38,935	38,759	122,680	55,735	68,216
GH-270S-220F/C0	138,139	63,250	78,179	122,551	55,652	68,075
GH-270S-240F/C0	177,638	88,463	121,354	122,409	55,560	67,920
GH-270S-200F/C2						
GH-270S-220F/C2	131,623	35,543	34,649	158,582	66,903	74,519
GH-270S-240F/C2	171,122	71,156	77,824	158,440	66,808	74,364
GH-270S-250F/C2	192,159	85,098	100,819	158,365	66,758	74,282
GH-270S-280F/C2						
GH-270S-220F/C3						
GH-270S-250F/C3	179,978	77,079	87,504	169,386	74,060	86,328
GH-270S-280F/C3	248,243	121,143	162,121	169,141	73,899	86,061
GH-270S-200F/C4	109,482	44,307	46,856	115,978	51,376	60,890
GH-270S-220F/C4	145,547	68,022	86,276	115,849	51,292	60,749
GH-270S-240F/C4		185,045	93,150	129,451	115,707	51,199
GH-271S-200F/C0	102,075	38,935	38,759	122,680	55,735	68,216
GH-271S-220F/C0	138,139	63,250	78,179	122,551	55,652	68,075
GH-271S-240F/C0	177,638	88,463	121,354	122,409	55,560	67,920
GH-271S-250F/C0	198,675	101,749	144,349	122,334	55,511	67,838
GH-271S-280F/C0	266,940	144,578	218,966	122,089	55,353	67,570
GH-271S-300F/C0	316,743	175,698	273,404	121,910	55,238	67,375
GH-271S-320F/C0						
GH-271S-340F/C0						

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2						
GH-271S-220F/C2	131,623	35,543	34,649	158,582	66,903	74,519
GH-271S-240F/C2	171,122	71,156	77,824	158,440	66,808	74,364
GH-271S-250F/C2	192,159	85,098	100,819	158,365	66,758	74,282
GH-271S-280F/C2	260,424	128,873	175,436	158,120	66,594	74,014
GH-271S-300F/C2	310,227	160,312	229,874	157,942	66,474	73,819
GH-271S-320F/C2						
GH-271S-340F/C2						
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3						
GH-271S-220F/C3						
GH-271S-240F/C3	158,941	62,792	64,509	169,461	74,109	86,411
GH-271S-250F/C3	179,978	77,079	87,504	169,386	74,060	86,328
GH-271S-280F/C3	248,243	121,143	162,121	169,141	73,899	86,061
GH-271S-300F/C3	298,045	152,645	216,559	168,963	73,782	85,866
GH-271S-320F/C3						
GH-271S-340F/C3						
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4	109,482	44,307	46,856	115,978	51,376	60,890
GH-271S-220F/C4	145,547	68,022	86,276	115,849	51,292	60,749
GH-271S-240F/C4	185,045	93,150	129,451	115,707	51,199	60,594
GH-271S-250F/C4	206,083	106,412	152,446	115,632	51,149	60,512
GH-271S-280F/C4	274,347	149,208	227,063	115,387	50,989	60,245
GH-271S-300F/C4						
GH-271S-320F/C4						
GH-271S-340F/C4						
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1						
GH-350S-250F/C1	251,780	70,062	68,447	260,217	97,872	97,361
GH-350S-280F/C1	341,233	146,262	166,224	259,896	97,531	97,010
GH-350S-300F/C1	406,494	188,782	237,559	259,662	97,282	96,755
GH-350S-320F/C1	476,255	233,352	313,812	259,412	97,016	96,481
GH-350S-350F/C1	589,337	304,775	437,417	259,007	96,585	96,038
GH-350S-380F/C1						
GH-350S-400F/C1						
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1	1,988	1,119	1,772	989	506	719
GH-065S-060F/C1	3,196	1,871	3,092	978	499	706
GH-065S-050F/C2	1,556	758	1,012	1,618	819	1,146
GH-065S-060F/C2	2,764	1,517	2,332	1,607	812	1,133
GH-065S-070F/C2						
GH-065S-080F/C2						
GH-065S-090F/C2						
GH-065S-070F/C3	3,066	1,562	2,204	2,990	1,550	2,231
GH-065S-050F/C4	1,054	407	407	2,119	1,118	1,642
GH-065S-060F/C4	2,262	1,185	1,727	2,108	1,111	1,629
GH-065S-070F/C4	3,689	2,077	3,287	2,094	1,102	1,615
GH-085S-050F/C1	2,630	1,432	2,181	1,444	707	951
GH-085S-060F/C1	4,228	2,428	3,927	1,429	698	934
GH-085S-070F/C1	6,115	3,603	5,991	1,411	686	915
GH-085S-050F/C2	2,059	903	1,059	2,373	1,146	1,516
GH-085S-060F/C2	3,656	1,920	2,805	2,358	1,137	1,499
GH-085S-070F/C2	5,544	3,100	4,868	2,340	1,125	1,480
GH-085S-060F/C3						
GH-085S-070F/C3	4,653	2,292	3,103	3,802	1,814	2,361
GH-085S-080F/C3	6,832	3,663	5,484	3,781	1,800	2,338
GH-085S-090F/C3	9,301	5,205	8,182	3,758	1,786	2,313
GH-085S-050F/C4	1,783	663	659	2,704	1,327	1,788
GH-085S-060F/C4	3,381	1,715	2,406	2,689	1,317	1,772
GH-085S-070F/C4	5,269	2,898	4,469	2,671	1,306	1,752
GH-085S-080F/C4	7,447	4,257	6,850	2,650	1,293	1,730
GH-085S-090F/C4	9,916	5,794	9,549	2,627	1,278	1,704
GH-085S-050F/C5						
GH-085S-060F/C5	2,409	665	649	4,142	2,031	2,733
GH-085S-070F/C5	4,297	2,065	2,713	4,124	2,019	2,713
GH-085S-080F/C5	6,475	3,439	5,094	4,104	2,006	2,691
GH-085S-090F/C5	8,944	4,983	7,793	4,080	1,991	2,665
GH-085S-050F/C6						
GH-085S-060F/C6						
GH-085S-070F/C6	3,745	1,520	1,612	5,035	2,447	3,259
GH-085S-080F/C6	5,924	2,932	3,993	5,015	2,434	3,236
GH-085S-090F/C6	8,393	4,486	6,692	4,991	2,419	3,211
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7						
GH-085S-080F/C7	4,760	2,034	2,302	6,415	3,196	4,387
GH-085S-090F/C7	7,228	3,620	5,001	6,391	3,181	4,362
GH-100S-070F/C1	5,091	1,532	1,505	6,386	2,811	3,306
GH-100S-080F/C1	7,692	3,519	4,347	6,370	2,801	3,289
GH-100S-090F/C1	10,639	5,396	7,568	6,351	2,788	3,268
GH-100S-110F/C1						
GH-100S-080F/C2	6,447	2,702	2,986	7,496	3,530	4,520

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2	9,394	4,608	6,207	7,477	3,518	4,500
GH-100S-110F/C2						
GH-130S-070F/C1						
GH-130S-080F/C1						
GH-130S-090F/C1						
GH-130S-110F/C1						
GH-130S-125F/C1						
GH-130S-080F/C2						
GH-130S-090F/C2						
GH-130S-110F/C2						
GH-130S-125F/C2						
GH-130S-070F/C3	4,754	1,738	1,727	8,538	4,369	6,193
GH-130S-080F/C3	8,162	4,024	5,452	8,505	4,349	6,157
GH-130S-090F/C3	12,025	6,454	9,674	8,469	4,325	6,117
GH-130S-100F/C3	16,342	9,151	14,393	8,428	4,300	6,073
GH-130S-110F/C3	21,200	12,178	19,703	8,470	4,326	6,118
GH-130S-125F/C3	29,235	17,179	28,485	8,419	4,294	6,063
GH-130S-080F/C4	6,939	3,244	4,115	9,612	5,045	7,367
GH-130S-090F/C4	10,802	5,688	8,337	9,575	5,022	7,327
GH-130S-100F/C4	15,119	8,388	13,056	9,535	4,996	7,282
GH-130S-110F/C4	19,977	11,417	18,366	9,576	5,022	7,328
GH-130S-125F/C4	28,012	16,418	27,149	9,526	4,990	7,272
GH-130S-080F/C5						
GH-130S-090F/C5	9,233	4,016	4,649	12,628	6,371	8,878
GH-130S-110F/C5	18,409	9,840	14,679	12,629	6,371	8,879
GH-130S-125F/C5	26,443	14,859	23,461	12,578	6,339	8,824
GH-130S-140F/C5						
GH-130S-090F/C6						
GH-130S-110F/C6	16,485	7,605	9,489	16,924	8,167	10,781
GH-130S-125F/C6	24,520	12,703	18,271	16,873	8,135	10,726
GH-130S-140F/C6	33,580	18,380	28,175	16,816	8,099	10,664
GH-161S-110F/C2	21,560	11,619	17,496	16,359	8,538	12,389
GH-161S-110F/C3	18,642	9,790	14,307	18,998	10,194	15,274
GH-161S-110F/C4	14,163	6,379	7,723	24,448	13,133	19,704
GH-161S-110F/C5						
GH-161S-125F/C2	31,559	17,862	28,426	16,296	8,499	12,320
GH-161S-125F/C3	28,642	16,042	25,237	18,936	10,155	15,206
GH-161S-125F/C4	24,163	12,724	18,653	24,385	13,094	19,635
GH-161S-125F/C5	19,746	8,684	10,198	31,384	16,456	24,003
GH-161S-140F/C2						
GH-161S-140F/C3	39,918	23,068	37,563	18,865	10,110	15,128
GH-161S-140F/C4	35,439	19,775	30,979	24,314	13,049	19,557
GH-161S-140F/C5	31,022	15,882	22,523	31,313	16,411	23,926
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4	52,460	30,380	49,583	24,207	12,982	19,440

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-160F/C5	48,043	26,547	41,128	31,206	16,344	23,809
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-110F/C1	18,741	7,671	8,227	32,168	16,698	24,072
GH-200S-125F/C1	31,379	15,825	22,042	32,089	16,648	23,985
GH-200S-140F/C1	45,631	24,772	37,620	31,999	16,591	23,887
GH-200S-160F/C1	67,144	38,197	61,134	31,864	16,506	23,739
GH-200S-180F/C1	91,524	53,377	87,784	31,710	16,410	23,571
GH-200S-125F/C2	23,860	8,176	8,093	43,635	22,255	31,421
GH-200S-140F/C2	38,112	18,185	23,671	43,545	22,199	31,323
GH-200S-160F/C2	59,624	31,759	47,185	43,410	22,114	31,175
GH-200S-180F/C2	84,005	46,995	73,835	43,257	22,017	31,007
GH-201S-200F/C3	91,409	45,839	63,406	77,230	38,006	51,386
GH-201S-160F/C7	50,466	22,555	27,038	60,086	29,653	40,232
GH-201S-200F/C7	102,547	55,494	83,966	60,213	29,733	40,370
GH-270S-200F/C0	126,696	55,807	65,672	122,680	55,735	68,216
GH-270S-220F/C0	167,931	82,312	110,744	122,551	55,652	68,075
GH-270S-240F/C0	213,093	110,819	160,108	122,409	55,560	67,920
GH-270S-200F/C2						
GH-270S-220F/C2	161,415	64,521	67,214	158,582	66,903	74,519
GH-270S-240F/C2	206,577	94,466	116,578	158,440	66,808	74,364
GH-270S-250F/C2	230,630	109,919	142,870	158,365	66,758	74,282
GH-270S-280F/C2						
GH-270S-220F/C3	149,234	54,276	53,899	169,603	74,202	86,566
GH-270S-250F/C3	218,449	102,116	129,555	169,386	74,060	86,328
GH-270S-280F/C3						
GH-270S-200F/C4	134,104	60,639	73,768	115,978	51,376	60,890
GH-270S-220F/C4	175,338	87,006	118,840	115,849	51,292	60,749
GH-270S-240F/C4		220,500	115,476	168,205	115,707	51,199
GH-271S-200F/C0	126,696	55,807	65,672	122,680	55,735	68,216
GH-271S-220F/C0	167,931	82,312	110,744	122,551	55,652	68,075
GH-271S-240F/C0	213,093	110,819	160,108	122,409	55,560	67,920
GH-271S-250F/C0	237,146	125,919	186,400	122,334	55,511	67,838
GH-271S-280F/C0	315,198	174,734	271,715	122,089	55,353	67,570
GH-271S-300F/C0						
GH-271S-320F/C0						
GH-271S-340F/C0						

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2						
GH-271S-220F/C2	161,415	64,521	67,214	158,582	66,903	74,519
GH-271S-240F/C2	206,577	94,466	116,578	158,440	66,808	74,364
GH-271S-250F/C2	230,630	109,919	142,870	158,365	66,758	74,282
GH-271S-280F/C2	308,682	159,340	228,185	158,120	66,594	74,014
GH-271S-300F/C2						
GH-271S-320F/C2						
GH-271S-340F/C2						
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3						
GH-271S-220F/C3	149,234	54,276	53,899	169,603	74,202	86,566
GH-271S-240F/C3	194,396	86,557	103,263	169,461	74,109	86,411
GH-271S-250F/C3	218,449	102,116	129,555	169,386	74,060	86,328
GH-271S-280F/C3	296,500	151,670	214,870	169,141	73,899	86,061
GH-271S-300F/C3						
GH-271S-320F/C3						
GH-271S-340F/C3						
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4	134,104	60,639	73,768	115,978	51,376	60,890
GH-271S-220F/C4	175,338	87,006	118,840	115,849	51,292	60,749
GH-271S-240F/C4	220,500	115,476	168,205	115,707	51,199	60,594
GH-271S-250F/C4	244,554	130,561	194,497	115,632	51,149	60,512
GH-271S-280F/C4						
GH-271S-300F/C4						
GH-271S-320F/C4						
GH-271S-340F/C4						
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1						
GH-350S-250F/C1	302,192	119,784	123,550	260,217	97,872	97,361
GH-350S-280F/C1	404,469	187,480	235,346	259,896	97,531	97,010
GH-350S-300F/C1	479,087	235,152	316,907	259,662	97,282	96,755
GH-350S-320F/C1	558,850	285,580	404,093	259,412	97,016	96,481
GH-350S-350F/C1						
GH-350S-380F/C1						
GH-350S-400F/C1						
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1	2,334	1,335	2,151	989	506	719
GH-065S-060F/C1	3,694	2,181	3,637	978	499	706
GH-065S-050F/C2	1,903	977	1,391	1,618	819	1,146
GH-065S-060F/C2	3,263	1,828	2,877	1,607	812	1,133
GH-065S-070F/C2						
GH-065S-080F/C2						
GH-065S-090F/C2						
GH-065S-070F/C3	3,744	1,989	2,946	2,990	1,550	2,231
GH-065S-050F/C4	1,401	639	785	2,119	1,118	1,642
GH-065S-060F/C4	2,761	1,497	2,272	2,108	1,111	1,629
GH-065S-070F/C4						
GH-085S-050F/C1	3,088	1,718	2,682	1,444	707	951
GH-085S-060F/C1	4,887	2,839	4,648	1,429	698	934
GH-085S-070F/C1	7,013	4,161	6,972	1,411	686	915
GH-085S-050F/C2	2,517	1,199	1,559	2,373	1,146	1,516
GH-085S-060F/C2	4,316	2,333	3,526	2,358	1,137	1,499
GH-085S-070F/C2	6,442	3,660	5,850	2,340	1,125	1,480
GH-085S-060F/C3	3,425	1,503	1,760	3,820	1,825	2,380
GH-085S-070F/C3	5,551	2,859	4,084	3,802	1,814	2,361
GH-085S-080F/C3	8,005	4,396	6,766	3,781	1,800	2,338
GH-085S-090F/C3						
GH-085S-050F/C4	2,241	987	1,160	2,704	1,327	1,788
GH-085S-060F/C4	4,040	2,130	3,127	2,689	1,317	1,772
GH-085S-070F/C4	6,167	3,459	5,451	2,671	1,306	1,752
GH-085S-080F/C4	8,620	4,987	8,132	2,650	1,293	1,730
GH-085S-090F/C4						
GH-085S-050F/C5						
GH-085S-060F/C5	3,069	1,266	1,371	4,142	2,031	2,733
GH-085S-070F/C5	5,195	2,634	3,695	4,124	2,019	2,713
GH-085S-080F/C5	7,648	4,173	6,376	4,104	2,006	2,691
GH-085S-090F/C5						
GH-085S-050F/C6						
GH-085S-060F/C6						
GH-085S-070F/C6	4,643	2,114	2,594	5,035	2,447	3,259
GH-085S-080F/C6	7,097	3,672	5,275	5,015	2,434	3,236
GH-085S-090F/C6	9,877	5,414	8,314	4,991	2,419	3,211
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7	3,479	927	903	6,435	3,209	4,410
GH-085S-080F/C7	5,932	2,796	3,584	6,415	3,196	4,387
GH-085S-090F/C7	8,713	4,555	6,623	6,391	3,181	4,362
GH-100S-070F/C1	6,160	2,508	2,673	6,386	2,811	3,306
GH-100S-080F/C1	9,087	4,413	5,872	6,370	2,801	3,289
GH-100S-090F/C1	12,405	6,508	9,499	6,351	2,788	3,268
GH-100S-110F/C1						
GH-100S-080F/C2	7,842	3,617	4,512	7,496	3,530	4,520

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2	11,160	5,725	8,138	7,477	3,518	4,500
GH-100S-110F/C2						
GH-130S-070F/C1						
GH-130S-080F/C1						
GH-130S-090F/C1						
GH-130S-110F/C1						
GH-130S-125F/C1						
GH-130S-080F/C2						
GH-130S-090F/C2						
GH-130S-110F/C2						
GH-130S-125F/C2						
GH-130S-070F/C3	6,159	2,739	3,262	8,538	4,369	6,193
GH-130S-080F/C3	9,997	5,182	7,458	8,505	4,349	6,157
GH-130S-090F/C3	14,347	7,906	12,212	8,469	4,325	6,117
GH-130S-100F/C3	19,209	10,938	17,527	8,428	4,300	6,073
GH-130S-110F/C3	24,669	14,339	23,495	8,470	4,326	6,118
GH-130S-125F/C3	33,715	19,965	33,382	8,419	4,294	6,063
GH-130S-080F/C4	8,774	4,411	6,121	9,612	5,045	7,367
GH-130S-090F/C4	13,124	7,142	10,876	9,575	5,022	7,327
GH-130S-100F/C4	17,986	10,176	16,190	9,535	4,996	7,282
GH-130S-110F/C4	23,446	13,577	22,158	9,576	5,022	7,328
GH-130S-125F/C4	32,492	19,204	32,045	9,526	4,990	7,272
GH-130S-080F/C5	7,206	2,459	2,433	12,664	6,394	8,918
GH-130S-090F/C5	11,556	5,517	7,188	12,628	6,371	8,878
GH-130S-110F/C5	21,878	12,010	18,470	12,629	6,371	8,879
GH-130S-125F/C5	30,923	17,651	28,357	12,578	6,339	8,824
GH-130S-140F/C5						
GH-130S-090F/C6	9,632	2,087	1,999	16,923	8,167	10,781
GH-130S-110F/C6	19,954	9,821	13,281	16,924	8,167	10,781
GH-130S-125F/C6	28,999	15,514	23,168	16,873	8,135	10,726
GH-130S-140F/C6						
GH-161S-110F/C2	25,877	14,318	22,215	16,359	8,538	12,389
GH-161S-110F/C3	22,960	12,494	19,026	18,998	10,194	15,274
GH-161S-110F/C4	18,481	9,143	12,442	24,448	13,133	19,704
GH-161S-110F/C5	14,064	3,987	3,987	31,447	16,495	24,072
GH-161S-125F/C2						
GH-161S-125F/C3	34,217	19,518	31,331	18,936	10,155	15,206
GH-161S-125F/C4	29,739	16,215	24,747	24,385	13,094	19,635
GH-161S-125F/C5	25,321	12,274	16,292	31,384	16,456	24,003
GH-161S-140F/C2						
GH-161S-140F/C3						
GH-161S-140F/C4	42,433	24,136	38,623	24,314	13,049	19,557
GH-161S-140F/C5	38,016	20,275	30,168	31,313	16,411	23,926
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-160F/C5	57,178	32,245	51,113	31,206	16,344	23,809
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-110F/C1	24,198	11,255	14,192	32,168	16,698	24,072
GH-200S-125F/C1	38,426	20,260	29,744	32,089	16,648	23,985
GH-200S-140F/C1	54,471	30,294	47,282	31,999	16,591	23,887
GH-200S-160F/C1	78,689	45,386	73,754	31,864	16,506	23,739
GH-200S-180F/C1						
GH-200S-125F/C2	30,907	13,529	15,795	43,635	22,255	31,421
GH-200S-140F/C2	46,951	23,793	33,333	43,545	22,199	31,323
GH-200S-160F/C2	71,170	38,983	59,805	43,410	22,114	31,175
GH-200S-180F/C2	98,617	56,107	89,807	43,257	22,017	31,007
GH-201S-200F/C3	109,449	57,202	83,125	77,230	38,006	51,386
GH-201S-160F/C7	62,012	29,978	39,658	60,086	29,653	40,232
GH-201S-200F/C7	120,587	66,769	103,684	60,213	29,733	40,370
GH-270S-200F/C0	151,318	71,721	92,584	122,680	55,735	68,216
GH-270S-220F/C0	197,723	101,148	143,308	122,551	55,652	68,075
GH-270S-240F/C0	248,548	133,064	198,862	122,409	55,560	67,920
GH-270S-200F/C2	144,802	49,562	49,054	158,711	66,989	74,660
GH-270S-220F/C2	191,207	84,474	99,778	158,582	66,903	74,519
GH-270S-240F/C2	242,032	117,190	155,332	158,440	66,808	74,364
GH-270S-250F/C2						
GH-270S-280F/C2						
GH-270S-220F/C3	179,026	76,445	86,463	169,603	74,202	86,566
GH-270S-250F/C3						
GH-270S-280F/C3						
GH-270S-200F/C4	158,725	76,454	100,681	115,978	51,376	60,890
GH-270S-220F/C4	205,130	105,814	151,405	115,849	51,292	60,749
GH-270S-240F/C4						
GH-271S-200F/C0	151,318	71,721	92,584	122,680	55,735	68,216
GH-271S-220F/C0	197,723	101,148	143,308	122,551	55,652	68,075
GH-271S-240F/C0	248,548	133,064	198,862	122,409	55,560	67,920
GH-271S-250F/C0	275,617	150,002	228,451	122,334	55,511	67,838
GH-271S-280F/C0						
GH-271S-300F/C0						
GH-271S-320F/C0						
GH-271S-340F/C0						

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2	144,802	49,562	49,054	158,711	66,989	74,660
GH-271S-220F/C2	191,207	84,474	99,778	158,582	66,903	74,519
GH-271S-240F/C2	242,032	117,190	155,332	158,440	66,808	74,364
GH-271S-250F/C2	269,101	134,370	184,921	158,365	66,758	74,282
GH-271S-280F/C2						
GH-271S-300F/C2						
GH-271S-320F/C2						
GH-271S-340F/C2						
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3	132,621	36,604	35,740	169,732	74,287	86,707
GH-271S-220F/C3	179,026	76,445	86,463	169,603	74,202	86,566
GH-271S-240F/C3	229,850	109,420	142,018	169,461	74,109	86,411
GH-271S-250F/C3	256,920	126,653	171,606	169,386	74,060	86,328
GH-271S-280F/C3						
GH-271S-300F/C3						
GH-271S-320F/C3						
GH-271S-340F/C3						
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4	158,725	76,454	100,681	115,978	51,376	60,890
GH-271S-220F/C4	205,130	105,814	151,405	115,849	51,292	60,749
GH-271S-240F/C4	255,955	137,706	206,959	115,707	51,199	60,594
GH-271S-250F/C4	283,025	154,632	236,548	115,632	51,149	60,512
GH-271S-280F/C4						
GH-271S-300F/C4						
GH-271S-320F/C4						
GH-271S-340F/C4						
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1	250,532	68,734	67,083	260,501	98,174	97,672
GH-350S-250F/C1	352,604	153,773	178,653	260,217	97,872	97,361
GH-350S-280F/C1	467,706	227,911	304,467	259,896	97,531	97,010
GH-350S-300F/C1	551,679	281,056	396,255	259,662	97,282	96,755
GH-350S-320F/C1						
GH-350S-350F/C1						
GH-350S-380F/C1						
GH-350S-400F/C1						
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1	2,681	1,551	2,529	989	506	719
GH-065S-060F/C1						
GH-065S-050F/C2	2,249	1,194	1,769	1,618	819	1,146
GH-065S-060F/C2	3,761	2,139	3,422	1,607	812	1,133
GH-065S-070F/C2						
GH-065S-080F/C2						
GH-065S-090F/C2						
GH-065S-070F/C3						
GH-065S-050F/C4	1,747	860	1,164	2,119	1,118	1,642
GH-065S-060F/C4	3,259	1,809	2,817	2,108	1,111	1,629
GH-065S-070F/C4						
GH-085S-050F/C1	3,546	2,003	3,183	1,444	707	951
GH-085S-060F/C1	5,547	3,249	5,369	1,429	698	934
GH-085S-070F/C1	7,911	4,719	7,954	1,411	686	915
GH-085S-050F/C2	2,975	1,491	2,060	2,373	1,146	1,516
GH-085S-060F/C2	4,976	2,745	4,247	2,358	1,137	1,499
GH-085S-070F/C2	7,340	4,219	6,831	2,340	1,125	1,480
GH-085S-060F/C3	4,085	1,930	2,481	3,820	1,825	2,380
GH-085S-070F/C3	6,449	3,423	5,066	3,802	1,814	2,361
GH-085S-080F/C3	9,177	5,128	8,048	3,781	1,800	2,338
GH-085S-090F/C3						
GH-085S-050F/C4	2,700	1,282	1,661	2,704	1,327	1,788
GH-085S-060F/C4	4,700	2,543	3,848	2,689	1,317	1,772
GH-085S-070F/C4	7,065	4,019	6,432	2,671	1,306	1,752
GH-085S-080F/C4	9,793	5,717	9,414	2,650	1,293	1,730
GH-085S-090F/C4						
GH-085S-050F/C5						
GH-085S-060F/C5	3,728	1,700	2,092	4,142	2,031	2,733
GH-085S-070F/C5	6,093	3,200	4,676	4,124	2,019	2,713
GH-085S-080F/C5	8,821	4,906	7,658	4,104	2,006	2,691
GH-085S-090F/C5						
GH-085S-050F/C6						
GH-085S-060F/C6	3,177	1,006	991	5,053	2,458	3,278
GH-085S-070F/C6	5,541	2,689	3,575	5,035	2,447	3,259
GH-085S-080F/C6	8,269	4,408	6,557	5,015	2,434	3,236
GH-085S-090F/C6						
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7	4,377	1,776	1,884	6,435	3,209	4,410
GH-085S-080F/C7	7,105	3,542	4,866	6,415	3,196	4,387
GH-085S-090F/C7						
GH-100S-070F/C1	7,228	3,219	3,840	6,386	2,811	3,306
GH-100S-080F/C1	10,483	5,298	7,398	6,370	2,801	3,289
GH-100S-090F/C1						
GH-100S-110F/C1						
GH-100S-080F/C2	9,238	4,509	6,037	7,496	3,530	4,520

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2	12,926	6,835	10,069	7,477	3,518	4,500
GH-100S-110F/C2						
GH-130S-070F/C1	7,282	3,143	3,605	9,525	4,731	6,472
GH-130S-080F/C1	11,550	5,876	8,271	9,493	4,711	6,436
GH-130S-090F/C1	16,387	8,911	13,558	9,456	4,688	6,396
GH-130S-110F/C1	27,856	16,062	26,094	9,457	4,688	6,397
GH-130S-125F/C1						
GH-130S-080F/C2	10,591	4,692	5,562	11,735	5,632	7,385
GH-130S-090F/C2	15,429	7,785	10,849	11,698	5,609	7,345
GH-130S-110F/C2	26,897	14,970	23,386	11,699	5,609	7,346
GH-130S-125F/C2						
GH-130S-070F/C3	7,564	3,643	4,798	8,538	4,369	6,193
GH-130S-080F/C3	11,832	6,333	9,463	8,505	4,349	6,157
GH-130S-090F/C3	16,670	9,355	14,751	8,469	4,325	6,117
GH-130S-100F/C3	22,076	12,724	20,661	8,428	4,300	6,073
GH-130S-110F/C3	28,139	16,497	27,287	8,470	4,326	6,118
GH-130S-125F/C3						
GH-130S-080F/C4	10,609	5,566	8,127	9,612	5,045	7,367
GH-130S-090F/C4	15,447	8,592	13,414	9,575	5,022	7,327
GH-130S-100F/C4	20,853	11,962	19,324	9,535	4,996	7,282
GH-130S-110F/C4	26,916	15,736	25,950	9,576	5,022	7,328
GH-130S-125F/C4						
GH-130S-080F/C5	9,041	3,888	4,439	12,664	6,394	8,918
GH-130S-090F/C5	13,878	6,992	9,726	12,628	6,371	8,878
GH-130S-110F/C5	25,347	14,175	22,262	12,629	6,371	8,879
GH-130S-125F/C5						
GH-130S-140F/C5						
GH-130S-090F/C6	11,954	4,558	4,537	16,923	8,167	10,781
GH-130S-110F/C6	23,423	12,014	17,073	16,924	8,167	10,781
GH-130S-125F/C6	33,479	18,317	28,065	16,873	8,135	10,726
GH-130S-140F/C6						
GH-161S-110F/C2	30,195	17,011	26,935	16,359	8,538	12,389
GH-161S-110F/C3	27,277	15,191	23,746	18,998	10,194	15,274
GH-161S-110F/C4	22,799	11,867	17,162	24,448	13,133	19,704
GH-161S-110F/C5	18,381	7,782	8,706	31,447	16,495	24,072
GH-161S-125F/C2						
GH-161S-125F/C3	39,793	22,990	37,426	18,936	10,155	15,206
GH-161S-125F/C4	35,314	19,697	30,842	24,385	13,094	19,635
GH-161S-125F/C5	30,897	15,803	22,386	31,384	16,456	24,003
GH-161S-140F/C2						
GH-161S-140F/C3						
GH-161S-140F/C4	49,427	28,491	46,268	24,314	13,049	19,557
GH-161S-140F/C5	45,010	24,651	37,813	31,313	16,411	23,926
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
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-110F/C1	29,655	14,734	20,157	32,168	16,698	24,072
GH-200S-125F/C1	45,473	24,673	37,447	32,089	16,648	23,985
GH-200S-140F/C1	63,310	35,808	56,944	31,999	16,591	23,887
GH-200S-160F/C1	90,235	52,575	86,374	31,864	16,506	23,739
GH-200S-180F/C1						
GH-200S-125F/C2	37,954	18,084	23,498	43,635	22,255	31,421
GH-200S-140F/C2	55,791	29,356	42,995	43,545	22,199	31,323
GH-200S-160F/C2	82,715	46,191	72,425	43,410	22,114	31,175
GH-200S-180F/C2						
GH-201S-200F/C3	127,488	68,515	102,844	77,230	38,006	51,386
GH-201S-160F/C7	73,557	37,294	52,278	60,086	29,653	40,232
GH-201S-200F/C7	138,627	78,021	123,403	60,213	29,733	40,370
GH-270S-200F/C0	175,939	87,387	119,497	122,680	55,735	68,216
GH-270S-220F/C0	227,515	119,882	175,872	122,551	55,652	68,075
GH-270S-240F/C0						
GH-270S-200F/C2	169,423	70,006	75,967	158,711	66,989	74,660
GH-270S-220F/C2	220,999	103,756	132,342	158,582	66,903	74,519
GH-270S-240F/C2						
GH-270S-250F/C2						
GH-270S-280F/C2						
GH-270S-220F/C3	208,818	95,916	119,028	169,603	74,202	86,566
GH-270S-250F/C3						
GH-270S-280F/C3						
GH-270S-200F/C4	183,347	92,078	127,594	115,978	51,376	60,890
GH-270S-220F/C4	234,922	124,525	183,969	115,849	51,292	60,749
GH-270S-240F/C4						
GH-271S-200F/C0	175,939	87,387	119,497	122,680	55,735	68,216
GH-271S-220F/C0	227,515	119,882	175,872	122,551	55,652	68,075
GH-271S-240F/C0	284,002	155,243	237,617	122,409	55,560	67,920
GH-271S-250F/C0	314,088	174,042	270,502	122,334	55,511	67,838
GH-271S-280F/C0						
GH-271S-300F/C0						
GH-271S-320F/C0						
GH-271S-340F/C0						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2	169,423	70,006	75,967	158,711	66,989	74,660
GH-271S-220F/C2	220,999	103,756	132,342	158,582	66,903	74,519
GH-271S-240F/C2	277,486	139,674	194,087	158,440	66,808	74,364
GH-271S-250F/C2	307,572	158,643	226,972	158,365	66,758	74,282
GH-271S-280F/C2						
GH-271S-300F/C2						
GH-271S-320F/C2						
GH-271S-340F/C2						
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3	157,242	61,591	62,652	169,732	74,287	86,707
GH-271S-220F/C3	208,818	95,916	119,028	169,603	74,202	86,566
GH-271S-240F/C3	265,305	131,965	180,772	169,461	74,109	86,411
GH-271S-250F/C3	295,391	150,970	213,657	169,386	74,060	86,328
GH-271S-280F/C3						
GH-271S-300F/C3						
GH-271S-320F/C3						
GH-271S-340F/C3						
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4	183,347	92,078	127,594	115,978	51,376	60,890
GH-271S-220F/C4	234,922	124,525	183,969	115,849	51,292	60,749
GH-271S-240F/C4	291,410	159,874	245,713	115,707	51,199	60,594
GH-271S-250F/C4						
GH-271S-280F/C4						
GH-271S-300F/C4						
GH-271S-320F/C4						
GH-271S-340F/C4						
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1	289,571	110,262	109,755	260,501	98,174	97,672
GH-350S-250F/C1	403,015	186,545	233,756	260,217	97,872	97,361
GH-350S-280F/C1	530,942	267,972	373,588	259,896	97,531	97,010
GH-350S-300F/C1						
GH-350S-320F/C1						
GH-350S-350F/C1						
GH-350S-380F/C1						
GH-350S-400F/C1						
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1	2,854	1,659	2,718	989	506	719
GH-065S-060F/C1						
GH-065S-050F/C2	2,422	1,303	1,958	1,618	819	1,146
GH-065S-060F/C2						
GH-065S-070F/C2						
GH-065S-080F/C2						
GH-065S-090F/C2						
GH-065S-070F/C3						
GH-065S-050F/C4	1,920	970	1,353	2,119	1,118	1,642
GH-065S-060F/C4	3,509	1,964	3,090	2,108	1,111	1,629
GH-065S-070F/C4						
GH-085S-050F/C1	3,775	2,146	3,433	1,444	707	951
GH-085S-060F/C1	5,877	3,454	5,730	1,429	698	934
GH-085S-070F/C1	8,360	4,998	8,444	1,411	686	915
GH-085S-050F/C2	3,204	1,635	2,310	2,373	1,146	1,516
GH-085S-060F/C2	5,306	2,951	4,607	2,358	1,137	1,499
GH-085S-070F/C2	7,789	4,499	7,322	2,340	1,125	1,480
GH-085S-060F/C3	4,415	2,140	2,842	3,820	1,825	2,380
GH-085S-070F/C3	6,898	3,704	5,557	3,802	1,814	2,361
GH-085S-080F/C3	9,764	5,494	8,689	3,781	1,800	2,338
GH-085S-090F/C3						
GH-085S-050F/C4	2,929	1,429	1,911	2,704	1,327	1,788
GH-085S-060F/C4	5,030	2,749	4,208	2,689	1,317	1,772
GH-085S-070F/C4	7,513	4,298	6,923	2,671	1,306	1,752
GH-085S-080F/C4						
GH-085S-090F/C4						
GH-085S-050F/C5						
GH-085S-060F/C5	4,058	1,913	2,452	4,142	2,031	2,733
GH-085S-070F/C5	6,542	3,481	5,167	4,124	2,019	2,713
GH-085S-080F/C5	9,407	5,272	8,299	4,104	2,006	2,691
GH-085S-090F/C5						
GH-085S-050F/C6						
GH-085S-060F/C6	3,507	1,352	1,351	5,053	2,458	3,278
GH-085S-070F/C6	5,990	2,974	4,066	5,035	2,447	3,259
GH-085S-080F/C6	8,856	4,776	7,198	5,015	2,434	3,236
GH-085S-090F/C6						
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7	4,826	2,078	2,375	6,435	3,209	4,410
GH-085S-080F/C7	7,692	3,913	5,507	6,415	3,196	4,387
GH-085S-090F/C7						
GH-100S-070F/C1	7,763	3,565	4,424	6,386	2,811	3,306
GH-100S-080F/C1	11,181	5,738	8,161	6,370	2,801	3,289
GH-100S-090F/C1						
GH-100S-110F/C1						
GH-100S-080F/C2	9,936	4,952	6,800	7,496	3,530	4,520

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2	13,810	7,388	11,034	7,477	3,518	4,500
GH-100S-110F/C2						
GH-130S-070F/C1	7,984	3,603	4,373	9,525	4,731	6,472
GH-130S-080F/C1	12,468	6,454	9,274	9,493	4,711	6,436
GH-130S-090F/C1	17,549	9,637	14,827	9,456	4,688	6,396
GH-130S-110F/C1	29,591	17,143	27,990	9,457	4,688	6,397
GH-130S-125F/C1						
GH-130S-080F/C2	11,509	5,288	6,565	11,735	5,632	7,385
GH-130S-090F/C2	16,590	8,517	12,119	11,698	5,609	7,345
GH-130S-110F/C2	28,632	16,052	25,282	11,699	5,609	7,346
GH-130S-125F/C2						
GH-130S-070F/C3	8,266	4,089	5,566	8,538	4,369	6,193
GH-130S-080F/C3	12,750	6,908	10,466	8,505	4,349	6,157
GH-130S-090F/C3	17,831	10,079	16,020	8,469	4,325	6,117
GH-130S-100F/C3	23,510	13,616	22,227	8,428	4,300	6,073
GH-130S-110F/C3	29,873	17,576	29,183	8,470	4,326	6,118
GH-130S-125F/C3						
GH-130S-080F/C4	11,527	6,142	9,129	9,612	5,045	7,367
GH-130S-090F/C4	16,608	9,317	14,683	9,575	5,022	7,327
GH-130S-100F/C4	22,287	12,855	20,891	9,535	4,996	7,282
GH-130S-110F/C4	28,650	16,815	27,846	9,576	5,022	7,328
GH-130S-125F/C4						
GH-130S-080F/C5	9,958	4,489	5,441	12,664	6,394	8,918
GH-130S-090F/C5	15,039	7,724	10,995	12,628	6,371	8,878
GH-130S-110F/C5	27,081	15,257	24,158	12,629	6,371	8,879
GH-130S-125F/C5						
GH-130S-140F/C5						
GH-130S-090F/C6	13,115	5,389	5,806	16,923	8,167	10,781
GH-130S-110F/C6	25,158	13,104	18,969	16,924	8,167	10,781
GH-130S-125F/C6						
GH-130S-140F/C6						
GH-161S-110F/C2	31,706	17,954	28,587	16,359	8,538	12,389
GH-161S-110F/C3	28,788	16,134	25,397	18,998	10,194	15,274
GH-161S-110F/C4	24,310	12,816	18,813	24,448	13,133	19,704
GH-161S-110F/C5	19,892	8,780	10,358	31,447	16,495	24,072
GH-161S-125F/C2						
GH-161S-125F/C3	41,744	24,205	39,559	18,936	10,155	15,206
GH-161S-125F/C4	37,265	20,914	32,975	24,385	13,094	19,635
GH-161S-125F/C5	32,848	17,031	24,519	31,384	16,456	24,003
GH-161S-140F/C2						
GH-161S-140F/C3						
GH-161S-140F/C4	51,875	30,016	48,944	24,314	13,049	19,557
GH-161S-140F/C5	47,458	26,181	40,488	31,313	16,411	23,926
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
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-110F/C1						
GH-200S-125F/C1						
GH-200S-140F/C1						
GH-200S-160F/C1						
GH-200S-180F/C1						
GH-200S-125F/C2						
GH-200S-140F/C2						
GH-200S-160F/C2						
GH-200S-180F/C2						
GH-201S-200F/C3						
GH-201S-160F/C7						
GH-201S-200F/C7						
GH-270S-200F/C0						
GH-270S-220F/C0						
GH-270S-240F/C0						
GH-270S-200F/C2						
GH-270S-220F/C2						
GH-270S-240F/C2						
GH-270S-250F/C2						
GH-270S-280F/C2						
GH-270S-220F/C3						
GH-270S-250F/C3						
GH-270S-280F/C3						
GH-270S-200F/C4						
GH-270S-220F/C4						
GH-270S-240F/C4						
GH-271S-200F/C0						
GH-271S-220F/C0						
GH-271S-240F/C0						
GH-271S-250F/C0						
GH-271S-280F/C0						
GH-271S-300F/C0						
GH-271S-320F/C0						
GH-271S-340F/C0						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2						
GH-271S-220F/C2						
GH-271S-240F/C2						
GH-271S-250F/C2						
GH-271S-280F/C2						
GH-271S-300F/C2						
GH-271S-320F/C2						
GH-271S-340F/C2						
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3						
GH-271S-220F/C3						
GH-271S-240F/C3						
GH-271S-250F/C3						
GH-271S-280F/C3						
GH-271S-300F/C3						
GH-271S-320F/C3						
GH-271S-340F/C3						
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4						
GH-271S-220F/C4						
GH-271S-240F/C4						
GH-271S-250F/C4						
GH-271S-280F/C4						
GH-271S-300F/C4						
GH-271S-320F/C4						
GH-271S-340F/C4						
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1						
GH-350S-250F/C1						
GH-350S-280F/C1						
GH-350S-300F/C1						
GH-350S-320F/C1						
GH-350S-350F/C1						
GH-350S-380F/C1						
GH-350S-400F/C1						
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/C1	2,854	1,659	2,718	989	506	719
GH-065S-060F/C1						
GH-065S-050F/C2	2,422	1,303	1,958	1,618	819	1,146
GH-065S-060F/C2						
GH-065S-070F/C2						
GH-065S-080F/C2						
GH-065S-090F/C2						
GH-065S-070F/C3						
GH-065S-050F/C4	1,920	970	1,353	2,119	1,118	1,642
GH-065S-060F/C4	3,509	1,964	3,090	2,108	1,111	1,629
GH-065S-070F/C4						
GH-085S-050F/C1	3,775	2,146	3,433	1,444	707	951
GH-085S-060F/C1	5,877	3,454	5,730	1,429	698	934
GH-085S-070F/C1	8,360	4,998	8,444	1,411	686	915
GH-085S-050F/C2	3,204	1,635	2,310	2,373	1,146	1,516
GH-085S-060F/C2	5,306	2,951	4,607	2,358	1,137	1,499
GH-085S-070F/C2	7,789	4,499	7,322	2,340	1,125	1,480
GH-085S-060F/C3	4,415	2,140	2,842	3,820	1,825	2,380
GH-085S-070F/C3	6,898	3,704	5,557	3,802	1,814	2,361
GH-085S-080F/C3	9,764	5,494	8,689	3,781	1,800	2,338
GH-085S-090F/C3						
GH-085S-050F/C4	2,929	1,429	1,911	2,704	1,327	1,788
GH-085S-060F/C4	5,030	2,749	4,208	2,689	1,317	1,772
GH-085S-070F/C4	7,513	4,298	6,923	2,671	1,306	1,752
GH-085S-080F/C4						
GH-085S-090F/C4						
GH-085S-050F/C5						
GH-085S-060F/C5	4,058	1,913	2,452	4,142	2,031	2,733
GH-085S-070F/C5	6,542	3,481	5,167	4,124	2,019	2,713
GH-085S-080F/C5	9,407	5,272	8,299	4,104	2,006	2,691
GH-085S-090F/C5						
GH-085S-050F/C6						
GH-085S-060F/C6	3,507	1,352	1,351	5,053	2,458	3,278
GH-085S-070F/C6	5,990	2,974	4,066	5,035	2,447	3,259
GH-085S-080F/C6	8,856	4,776	7,198	5,015	2,434	3,236
GH-085S-090F/C6						
GH-085S-050F/C7						
GH-085S-060F/C7						
GH-085S-070F/C7	4,826	2,078	2,375	6,435	3,209	4,410
GH-085S-080F/C7	7,692	3,913	5,507	6,415	3,196	4,387
GH-085S-090F/C7						
GH-100S-070F/C1	7,763	3,565	4,424	6,386	2,811	3,306
GH-100S-080F/C1	11,181	5,738	8,161	6,370	2,801	3,289
GH-100S-090F/C1						
GH-100S-110F/C1						
GH-100S-080F/C2	9,936	4,952	6,800	7,496	3,530	4,520

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/C2	13,810	7,388	11,034	7,477	3,518	4,500
GH-100S-110F/C2						
GH-130S-070F/C1	7,984	3,603	4,373	9,525	4,731	6,472
GH-130S-080F/C1	12,468	6,454	9,274	9,493	4,711	6,436
GH-130S-090F/C1	17,549	9,637	14,827	9,456	4,688	6,396
GH-130S-110F/C1	29,591	17,143	27,990	9,457	4,688	6,397
GH-130S-125F/C1						
GH-130S-080F/C2	11,509	5,288	6,565	11,735	5,632	7,385
GH-130S-090F/C2	16,590	8,517	12,119	11,698	5,609	7,345
GH-130S-110F/C2	28,632	16,052	25,282	11,699	5,609	7,346
GH-130S-125F/C2						
GH-130S-070F/C3	8,266	4,089	5,566	8,538	4,369	6,193
GH-130S-080F/C3	12,750	6,908	10,466	8,505	4,349	6,157
GH-130S-090F/C3	17,831	10,079	16,020	8,469	4,325	6,117
GH-130S-100F/C3	23,510	13,616	22,227	8,428	4,300	6,073
GH-130S-110F/C3	29,873	17,576	29,183	8,470	4,326	6,118
GH-130S-125F/C3						
GH-130S-080F/C4	11,527	6,142	9,129	9,612	5,045	7,367
GH-130S-090F/C4	16,608	9,317	14,683	9,575	5,022	7,327
GH-130S-100F/C4	22,287	12,855	20,891	9,535	4,996	7,282
GH-130S-110F/C4	28,650	16,815	27,846	9,576	5,022	7,328
GH-130S-125F/C4						
GH-130S-080F/C5	9,958	4,489	5,441	12,664	6,394	8,918
GH-130S-090F/C5	15,039	7,724	10,995	12,628	6,371	8,878
GH-130S-110F/C5	27,081	15,257	24,158	12,629	6,371	8,879
GH-130S-125F/C5						
GH-130S-140F/C5						
GH-130S-090F/C6	13,115	5,389	5,806	16,923	8,167	10,781
GH-130S-110F/C6	25,158	13,104	18,969	16,924	8,167	10,781
GH-130S-125F/C6						
GH-130S-140F/C6						
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-161S-140F/C5						
GH-161S-160F/C2						
GH-161S-160F/C3						
GH-161S-160F/C4						

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
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-110F/C1	32,383	16,458	23,139	32,168	16,698	24,072
GH-200S-125F/C1	48,996	26,876	41,298	32,089	16,648	23,985
GH-200S-140F/C1	67,730	38,562	61,775	31,999	16,591	23,887
GH-200S-160F/C1	96,007	56,166	92,684	31,864	16,506	23,739
GH-200S-180F/C1						
GH-200S-125F/C2	41,477	20,329	27,349	43,635	22,255	31,421
GH-200S-140F/C2	60,211	32,126	47,826	43,545	22,199	31,323
GH-200S-160F/C2	88,488	49,791	78,735	43,410	22,114	31,175
GH-200S-180F/C2						
GH-201S-200F/C3	136,508	74,157	112,703	77,230	38,006	51,386
GH-201S-160F/C7	79,330	40,932	58,588	60,086	29,653	40,232
GH-201S-200F/C7	147,647	83,647	133,262	60,213	29,733	40,370
GH-270S-200F/C0	188,250	95,172	132,953	122,680	55,735	68,216
GH-270S-220F/C0	242,411	129,218	192,154	122,551	55,652	68,075
GH-270S-240F/C0						
GH-270S-200F/C2	181,734	78,240	89,423	158,711	66,989	74,660
GH-270S-220F/C2	235,895	113,285	148,625	158,582	66,903	74,519
GH-270S-240F/C2						
GH-270S-250F/C2						
GH-270S-280F/C2						
GH-270S-220F/C3	223,714	105,495	135,310	169,603	74,202	86,566
GH-270S-250F/C3						
GH-270S-280F/C3						
GH-270S-200F/C4	195,657	99,845	141,050	115,978	51,376	60,890
GH-270S-220F/C4	249,818	133,860	200,251	115,849	51,292	60,749
GH-270S-240F/C4						
GH-271S-200F/C0	188,250	95,172	132,953	122,680	55,735	68,216
GH-271S-220F/C0	242,411	129,218	192,154	122,551	55,652	68,075
GH-271S-240F/C0	301,730	166,324	256,994	122,409	55,560	67,920
GH-271S-250F/C0						
GH-271S-280F/C0						
GH-271S-300F/C0						
GH-271S-320F/C0						
GH-271S-340F/C0						

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/C0						
GH-271S-380F/C0						
GH-271S-400F/C0						
GH-271S-420F/C0						
GH-271S-440F/C0						
GH-271S-460F/C0						
GH-271S-200F/C2	181,734	78,240	89,423	158,711	66,989	74,660
GH-271S-220F/C2	235,895	113,285	148,625	158,582	66,903	74,519
GH-271S-240F/C2	295,214	150,858	213,464	158,440	66,808	74,364
GH-271S-250F/C2						
GH-271S-280F/C2						
GH-271S-300F/C2						
GH-271S-320F/C2						
GH-271S-340F/C2						
GH-271S-360F/C2						
GH-271S-380F/C2						
GH-271S-400F/C2						
GH-271S-420F/C2						
GH-271S-440F/C2						
GH-271S-460F/C2						
GH-271S-200F/C3	169,553	70,094	76,109	169,732	74,287	86,707
GH-271S-220F/C3	223,714	105,495	135,310	169,603	74,202	86,566
GH-271S-240F/C3	283,033	143,173	200,149	169,461	74,109	86,411
GH-271S-250F/C3	314,626	163,078	234,683	169,386	74,060	86,328
GH-271S-280F/C3						
GH-271S-300F/C3						
GH-271S-320F/C3						
GH-271S-340F/C3						
GH-271S-360F/C3						
GH-271S-380F/C3						
GH-271S-400F/C3						
GH-271S-420F/C3						
GH-271S-440F/C3						
GH-271S-460F/C3						
GH-271S-200F/C4	195,657	99,845	141,050	115,978	51,376	60,890
GH-271S-220F/C4	249,818	133,860	200,251	115,849	51,292	60,749
GH-271S-240F/C4	309,137	170,954	265,091	115,707	51,199	60,594
GH-271S-250F/C4						
GH-271S-280F/C4						
GH-271S-300F/C4						
GH-271S-320F/C4						
GH-271S-340F/C4						
GH-271S-360F/C4						
GH-271S-380F/C4						
GH-271S-400F/C4						
GH-271S-420F/C4						

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-440F/C4						
GH-271S-460F/C4						
GH-350S-220F/C1	309,090	124,578	131,091	260,501	98,174	97,672
GH-350S-250F/C1	428,221	202,726	261,308	260,217	97,872	97,361
GH-350S-280F/C1	562,560	287,920	408,149	259,896	97,531	97,010
GH-350S-300F/C1						
GH-350S-320F/C1						
GH-350S-350F/C1						
GH-350S-380F/C1						
GH-350S-400F/C1						
GH-350S-420F/C1						
GH-350S-440F/C1						
GH-350S-460F/C1						
GH-350S-480F/C1						
GH-350S-500F/C1						

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1	989	506	718	1,036	524	732
GH-065S-060F/O1	978	499	706	1,825	1,018	1,594
GH-065S-050F/O2						
GH-065S-060F/O2	1,607	811	1,133	1,393	653	833
GH-065S-070F/O2	1,593	803	1,118	2,325	1,242	1,852
GH-065S-080F/O2	1,578	793	1,101	3,400	1,914	3,027
GH-065S-090F/O2						
GH-065S-070F/O3	2,873	1,476	2,103	1,328	316	305
GH-065S-050F/O4						
GH-065S-060F/O4	2,031	1,063	1,546	975	324	320
GH-065S-070F/O4	2,018	1,054	1,531	1,907	961	1,339
GH-085S-050F/O1	1,444	707	950	1,371	638	805
GH-085S-060F/O1	1,429	697	934	2,414	1,296	1,945
GH-085S-070F/O1	1,411	686	914	3,647	2,066	3,292
GH-085S-050F/O2						
GH-085S-060F/O2	2,357	1,136	1,498	1,843	760	823
GH-085S-070F/O2	2,339	1,125	1,479	3,076	1,554	2,170
GH-085S-060F/O3						
GH-085S-070F/O3						
GH-085S-080F/O3	3,781	1,800	2,338	3,607	1,622	1,959
GH-085S-090F/O3	3,757	1,785	2,312	5,219	2,650	3,721
GH-085S-050F/O4						
GH-085S-060F/O4	2,688	1,317	1,771	1,568	434	424
GH-085S-070F/O4	2,670	1,305	1,751	2,801	1,347	1,771
GH-085S-080F/O4	2,649	1,292	1,729	4,223	2,244	3,326
GH-085S-090F/O4	2,626	1,277	1,703	5,835	3,252	5,088
GH-085S-050F/O5						
GH-085S-060F/O5						
GH-085S-070F/O5						
GH-085S-080F/O5	4,103	2,006	2,690	3,251	1,388	1,569
GH-085S-090F/O5	4,080	1,991	2,665	4,863	2,425	3,332
GH-085S-050F/O6						
GH-085S-060F/O6						
GH-085S-070F/O6						
GH-085S-080F/O6						
GH-085S-090F/O6	4,991	2,419	3,210	4,311	1,898	2,231
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7						
GH-085S-080F/O7						
GH-085S-090F/O7						
GH-100S-070F/O1						
GH-100S-080F/O1						
GH-100S-090F/O1	6,351	2,788	3,268	5,781	2,244	2,259
GH-100S-110F/O1	6,307	2,760	3,221	10,317	5,193	7,217
GH-100S-080F/O2						

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2						
GH-100S-110F/O2	7,434	3,490	4,452	9,072	4,404	5,856
GH-130S-070F/O1						
GH-130S-080F/O1						
GH-130S-090F/O1	9,456	4,688	6,397	5,356	1,533	1,501
GH-130S-100F/O1	9,415	4,662	6,352	8,175	3,727	4,582
GH-130S-110F/O1	9,457	4,688	6,397	11,378	5,767	8,082
GH-130S-125F/O1	9,406	4,656	6,342	16,633	9,065	13,827
GH-130S-080F/O2						
GH-130S-090F/O2						
GH-130S-100F/O2	11,657	5,583	7,300	7,217	1,924	1,874
GH-130S-110F/O2	11,699	5,609	7,345	10,419	4,579	5,374
GH-130S-125F/O2	11,648	5,577	7,290	15,675	7,940	11,118
GH-130S-070F/O3						
GH-130S-080F/O3						
GH-130S-090F/O3	8,468	4,325	6,116	5,640	2,397	2,695
GH-130S-100F/O3	8,427	4,299	6,072	8,459	4,211	5,776
GH-130S-110F/O3	8,469	4,325	6,117	11,661	6,226	9,276
GH-130S-125F/O3	8,418	4,293	6,062	16,917	9,509	15,021
GH-130S-080F/O4						
GH-130S-090F/O4	9,574	5,021	7,326	4,417	1,379	1,358
GH-130S-100F/O4	9,534	4,995	7,281	7,236	3,433	4,439
GH-130S-110F/O4	9,575	5,021	7,327	10,438	5,459	7,940
GH-130S-125F/O4	9,525	4,990	7,271	15,694	8,746	13,684
GH-130S-080F/O5						
GH-130S-090F/O5						
GH-130S-100F/O5						
GH-130S-110F/O5	12,629	6,371	8,879	8,869	3,774	4,251
GH-130S-125F/O5	12,578	6,339	8,824	14,124	7,147	9,995
GH-130S-140F/O5	12,521	6,304	8,761	20,050	10,867	16,473
GH-130S-090F/O6						
GH-130S-100F/O6						
GH-130S-110F/O6						
GH-130S-125F/O6	16,873	8,135	10,726	12,201	4,753	4,806
GH-130S-140F/O6	16,816	8,099	10,663	18,127	8,658	11,284
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
METRIC

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	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-110F/O1						
GH-200S-125F/O1						
GH-200S-140F/O1	31,999	16,591	23,887	21,323	9,391	11,049
GH-200S-160F/O1	31,864	16,506	23,739	35,394	18,354	26,430
GH-200S-180F/O1	31,710	16,410	23,571	51,341	28,341	43,861
GH-200S-125F/O2						
GH-200S-140F/O2						
GH-200S-160F/O2	43,410	22,114	31,175	27,874	11,510	12,481
GH-200S-180F/O2	43,257	22,017	31,007	43,822	21,815	29,912
GH-201S-200F/O3	77,231	38,006	51,386	41,799	9,543	9,180
GH-201S-160F/O7						
GH-201S-200F/O7	60,213	29,733	40,370	52,938	24,159	29,740
GH-270S-200F/O0						
GH-270S-220F/O0	122,551	55,652	68,075	86,003	21,838	21,192
GH-270S-240F/O0	122,409	55,560	67,920	115,592	48,452	53,534
GH-270S-200F/O2						
GH-270S-220F/O2						
GH-270S-240F/O2						
GH-270S-250F/O2	158,365	66,758	74,282	124,836	28,322	27,230
GH-270S-280F/O2	158,120	66,594	74,014	175,973	74,410	83,126
GH-270S-220F/O3						
GH-270S-250F/O3						
GH-270S-280F/O3	169,141	73,899	86,061	163,791	66,164	69,811
GH-270S-200F/O4						
GH-270S-220F/O4	115,848	51,291	60,749	93,411	29,718	29,289
GH-270S-240F/O4	115,707	51,199	60,594	123,000	53,378	61,631
GH-271S-200F/O0						
GH-271S-220F/O0	122,551	55,652	68,075	86,003	21,838	21,192
GH-271S-240F/O0	122,409	55,560	67,920	115,592	48,452	53,534
GH-271S-250F/O0	122,334	55,512	67,838	131,351	58,847	70,760

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0	122,089	55,353	67,570	182,488	91,536	126,656
GH-271S-300F/O0	121,911	55,238	67,375	219,796	115,033	167,435
GH-271S-320F/O0	121,720	55,114	67,167	259,676	140,038	211,027
GH-271S-340F/O0	121,517	54,983	66,945	302,130	166,574	257,431
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2						
GH-271S-220F/O2						
GH-271S-240F/O2						
GH-271S-250F/O2	158,365	66,758	74,282	124,836	28,322	27,230
GH-271S-280F/O2	158,120	66,594	74,014	175,973	74,410	83,126
GH-271S-300F/O2	157,941	66,474	73,819	213,280	98,791	123,905
GH-271S-320F/O2	157,751	66,346	73,610	253,160	124,272	167,497
GH-271S-340F/O2	157,548	66,209	73,388	295,614	151,111	213,901
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3						
GH-271S-220F/O3						
GH-271S-240F/O3						
GH-271S-250F/O3						
GH-271S-280F/O3	169,141	73,899	86,061	163,791	66,164	69,811
GH-271S-300F/O3	168,963	73,782	85,866	201,099	90,921	110,590
GH-271S-320F/O3	168,772	73,657	85,657	240,979	116,521	154,182
GH-271S-340F/O3	168,569	73,524	85,435	283,433	143,425	200,586
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4						
GH-271S-220F/O4	115,848	51,291	60,749	93,411	29,718	29,289
GH-271S-240F/O4	115,707	51,199	60,594	123,000	53,378	61,631
GH-271S-250F/O4	115,631	51,149	60,512	138,759	63,651	78,857
GH-271S-280F/O4	115,387	50,989	60,244	189,896	96,211	134,753
GH-271S-300F/O4	115,208	50,872	60,049	227,204	119,687	175,532
GH-271S-320F/O4	115,017	50,746	59,841	267,084	144,668	219,124
GH-271S-340F/O4	114,814	50,613	59,619	309,537	171,204	265,528

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1						
GH-350S-250F/O1						
GH-350S-280F/O1						
GH-350S-300F/O1	259,662	97,282	96,755	279,456	99,502	98,699
GH-350S-320F/O1	259,412	97,016	96,481	331,715	139,923	155,821
GH-350S-350F/O1	259,007	96,585	96,038	416,425	195,169	248,414
GH-350S-380F/O1	258,565	96,115	95,556	508,721	253,925	349,299
GH-350S-400F/O1	258,251	95,780	95,212	574,466	295,426	421,162
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1	989	506	718	1,296	687	1,016
GH-065S-060F/O1	978	499	706	2,199	1,251	2,002
GH-065S-050F/O2	1,618	819	1,145	864	260	255
GH-065S-060F/O2	1,607	811	1,133	1,767	891	1,242
GH-065S-070F/O2	1,593	803	1,118	2,834	1,560	2,408
GH-065S-080F/O2						
GH-065S-090F/O2						
GH-065S-070F/O3	2,873	1,476	2,103	1,837	774	862
GH-065S-050F/O4						
GH-065S-060F/O4	2,031	1,063	1,546	1,349	605	729
GH-065S-070F/O4	2,018	1,054	1,531	2,416	1,281	1,895
GH-085S-050F/O1	1,444	707	950	1,714	857	1,180
GH-085S-060F/O1	1,429	697	934	2,909	1,606	2,486
GH-085S-070F/O1	1,411	686	914	4,320	2,485	4,028
GH-085S-050F/O2						
GH-085S-060F/O2	2,357	1,136	1,498	2,338	1,085	1,364
GH-085S-070F/O2	2,339	1,125	1,479	3,750	1,978	2,906
GH-085S-060F/O3						
GH-085S-070F/O3	3,801	1,813	2,360	2,858	1,120	1,140
GH-085S-080F/O3	3,781	1,800	2,338	4,487	2,186	2,921
GH-085S-090F/O3	3,757	1,785	2,312	6,333	3,350	4,938
GH-085S-050F/O4						
GH-085S-060F/O4	2,688	1,317	1,771	2,063	868	965
GH-085S-070F/O4	2,670	1,305	1,751	3,474	1,774	2,508
GH-085S-080F/O4	2,649	1,292	1,729	5,103	2,795	4,288
GH-085S-090F/O4	2,626	1,277	1,703	6,948	3,946	6,305
GH-085S-050F/O5						
GH-085S-060F/O5						
GH-085S-070F/O5	4,124	2,019	2,713	2,502	764	751
GH-085S-080F/O5	4,103	2,006	2,690	4,130	1,959	2,531
GH-085S-090F/O5	4,080	1,991	2,665	5,976	3,126	4,548
GH-085S-050F/O6						
GH-085S-060F/O6						
GH-085S-070F/O6						
GH-085S-080F/O6	5,014	2,434	3,235	3,579	1,404	1,430
GH-085S-090F/O6	4,991	2,419	3,210	5,425	2,615	3,448
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7						
GH-085S-080F/O7						
GH-085S-090F/O7	6,391	3,181	4,361	4,260	1,695	1,757
GH-100S-070F/O1						
GH-100S-080F/O1	6,370	2,801	3,289	4,900	1,329	1,296
GH-100S-090F/O1	6,351	2,788	3,268	7,106	3,139	3,707
GH-100S-110F/O1	6,307	2,760	3,221	12,296	6,439	9,380
GH-100S-080F/O2						

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2	7,477	3,518	4,500	5,861	2,301	2,346
GH-100S-110F/O2	7,434	3,490	4,452	11,051	5,656	8,019
GH-130S-070F/O1						
GH-130S-080F/O1						
GH-130S-090F/O1	9,456	4,688	6,397	7,098	3,021	3,404
GH-130S-100F/O1	9,415	4,662	6,352	10,326	5,102	6,932
GH-130S-110F/O1	9,457	4,688	6,397	13,980	7,403	10,926
GH-130S-125F/O1	9,406	4,656	6,342	19,993	11,163	17,499
GH-130S-080F/O2						
GH-130S-090F/O2						
GH-130S-100F/O2	11,657	5,583	7,300	9,367	3,880	4,224
GH-130S-110F/O2	11,699	5,609	7,345	13,021	6,258	8,218
GH-130S-125F/O2	11,648	5,577	7,290	19,034	10,053	14,791
GH-130S-070F/O3						
GH-130S-080F/O3	8,504	4,348	6,156	4,494	1,461	1,442
GH-130S-090F/O3	8,468	4,325	6,116	7,381	3,527	4,598
GH-130S-100F/O3	8,427	4,299	6,072	10,609	5,566	8,126
GH-130S-110F/O3	8,469	4,325	6,117	14,263	7,854	12,120
GH-130S-125F/O3	8,418	4,293	6,062	20,276	11,603	18,693
GH-130S-080F/O4						
GH-130S-090F/O4	9,574	5,021	7,326	6,158	2,738	3,262
GH-130S-100F/O4	9,534	4,995	7,281	9,386	4,797	6,789
GH-130S-110F/O4	9,575	5,021	7,327	13,040	7,089	10,784
GH-130S-125F/O4	9,525	4,990	7,271	19,053	10,841	17,356
GH-130S-080F/O5						
GH-130S-090F/O5						
GH-130S-100F/O5	12,587	6,345	8,834	7,816	3,055	3,101
GH-130S-110F/O5	12,629	6,371	8,879	11,470	5,463	7,095
GH-130S-125F/O5	12,578	6,339	8,824	17,484	9,260	13,667
GH-130S-140F/O5	12,521	6,304	8,761	24,265	13,500	21,079
GH-130S-090F/O6						
GH-130S-100F/O6						
GH-130S-110F/O6						
GH-130S-125F/O6	16,873	8,135	10,726	15,561	7,006	8,479
GH-130S-140F/O6	16,816	8,099	10,663	22,341	11,331	15,891
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
METRIC

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	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-110F/O1						
GH-200S-125F/O1	32,089	16,648	23,985	17,286	6,653	6,637
GH-200S-140F/O1	31,999	16,591	23,887	27,952	13,654	18,296
GH-200S-160F/O1	31,864	16,506	23,739	44,053	23,786	35,895
GH-200S-180F/O1	31,710	16,410	23,571	62,300	35,178	55,840
GH-200S-125F/O2						
GH-200S-140F/O2	43,545	22,199	31,323	20,433	4,530	4,347
GH-200S-160F/O2	43,410	22,114	31,175	36,533	17,176	21,945
GH-200S-180F/O2	43,257	22,017	31,007	54,781	28,721	41,891
GH-201S-200F/O3	77,231	38,006	51,386	55,329	22,513	23,969
GH-201S-160F/O7						
GH-201S-200F/O7	60,213	29,733	40,370	66,468	32,810	44,529
GH-270S-200F/O0						
GH-270S-220F/O0	122,551	55,652	68,075	108,347	43,524	45,615
GH-270S-240F/O0	122,409	55,560	67,920	142,183	65,858	82,600
GH-270S-200F/O2						
GH-270S-220F/O2						
GH-270S-240F/O2	158,440	66,808	74,364	135,667	39,845	39,070
GH-270S-250F/O2	158,365	66,758	74,282	153,689	59,015	58,768
GH-270S-280F/O2	158,120	66,594	74,014	212,166	98,075	122,687
GH-270S-220F/O3						
GH-270S-250F/O3	169,386	74,060	86,328	141,507	46,057	45,453
GH-270S-280F/O3	169,141	73,899	86,061	199,985	90,197	109,373
GH-270S-200F/O4	115,978	51,376	60,890	84,861	20,624	19,943
GH-270S-220F/O4	115,848	51,291	60,749	115,755	48,562	53,712
GH-270S-240F/O4	115,707	51,199	60,594	149,591	70,617	90,697
GH-271S-200F/O0						
GH-271S-220F/O0	122,551	55,652	68,075	108,347	43,524	45,615
GH-271S-240F/O0	122,409	55,560	67,920	142,183	65,858	82,600
GH-271S-250F/O0	122,334	55,512	67,838	160,204	77,395	102,298

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0	122,089	55,353	67,570	218,682	114,333	166,217
GH-271S-300F/O0	121,911	55,238	67,375	261,344	141,081	212,850
GH-271S-320F/O0	121,720	55,114	67,167	306,949	169,587	262,699
GH-271S-340F/O0						
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2						
GH-271S-220F/O2						
GH-271S-240F/O2	158,440	66,808	74,364	135,667	39,845	39,070
GH-271S-250F/O2	158,365	66,758	74,282	153,689	59,015	58,768
GH-271S-280F/O2	158,120	66,594	74,014	212,166	98,075	122,687
GH-271S-300F/O2	157,941	66,474	73,819	254,829	125,329	169,320
GH-271S-320F/O2	157,751	66,346	73,610	300,433	154,151	219,169
GH-271S-340F/O2						
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3						
GH-271S-220F/O3						
GH-271S-240F/O3	169,461	74,109	86,411	123,486	26,887	25,755
GH-271S-250F/O3	169,386	74,060	86,328	141,507	46,057	45,453
GH-271S-280F/O3	169,141	73,899	86,061	199,985	90,197	109,373
GH-271S-300F/O3	168,963	73,782	85,866	242,647	117,582	156,006
GH-271S-320F/O3	168,772	73,657	85,657	288,252	146,466	205,855
GH-271S-340F/O3						
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4	115,978	51,376	60,890	84,861	20,624	19,943
GH-271S-220F/O4	115,848	51,291	60,749	115,755	48,562	53,712
GH-271S-240F/O4	115,707	51,199	60,594	149,591	70,617	90,697
GH-271S-250F/O4	115,631	51,149	60,512	167,612	82,109	110,395
GH-271S-280F/O4	115,387	50,989	60,244	226,089	118,989	174,314
GH-271S-300F/O4	115,208	50,872	60,049	268,752	145,711	220,947
GH-271S-320F/O4	115,017	50,746	59,841	314,357	174,210	270,796
GH-271S-340F/O4						

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1						
GH-350S-250F/O1						
GH-350S-280F/O1	259,896	97,531	97,010	277,996	97,949	97,103
GH-350S-300F/O1	259,662	97,282	96,755	333,901	141,380	158,210
GH-350S-320F/O1	259,412	97,016	96,481	393,661	180,511	223,532
GH-350S-350F/O1	259,007	96,585	96,038	490,530	242,402	329,415
GH-350S-380F/O1	258,565	96,115	95,556	596,074	309,010	444,781
GH-350S-400F/O1						
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1						
GH-065S-060F/O1						
GH-065S-050F/O2						
GH-065S-060F/O2						
GH-065S-070F/O2						
GH-065S-080F/O2						
GH-065S-090F/O2						
GH-065S-070F/O3						
GH-065S-050F/O4						
GH-065S-060F/O4						
GH-065S-070F/O4						
GH-085S-050F/O1						
GH-085S-060F/O1						
GH-085S-070F/O1						
GH-085S-050F/O2						
GH-085S-060F/O2						
GH-085S-070F/O2						
GH-085S-060F/O3						
GH-085S-070F/O3						
GH-085S-080F/O3						
GH-085S-090F/O3						
GH-085S-050F/O4						
GH-085S-060F/O4						
GH-085S-070F/O4						
GH-085S-080F/O4						
GH-085S-090F/O4						
GH-085S-050F/O5						
GH-085S-060F/O5						
GH-085S-070F/O5						
GH-085S-080F/O5						
GH-085S-090F/O5						
GH-085S-050F/O6						
GH-085S-060F/O6						
GH-085S-070F/O6						
GH-085S-080F/O6						
GH-085S-090F/O6						
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7						
GH-085S-080F/O7						
GH-085S-090F/O7						
GH-100S-070F/O1						
GH-100S-080F/O1						
GH-100S-090F/O1						
GH-100S-110F/O1						
GH-100S-080F/O2						

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2						
GH-100S-110F/O2						
GH-130S-070F/O1						
GH-130S-080F/O1						
GH-130S-090F/O1						
GH-130S-100F/O1						
GH-130S-110F/O1						
GH-130S-125F/O1						
GH-130S-080F/O2						
GH-130S-090F/O2						
GH-130S-100F/O2						
GH-130S-110F/O2						
GH-130S-125F/O2						
GH-130S-070F/O3						
GH-130S-080F/O3						
GH-130S-090F/O3						
GH-130S-100F/O3						
GH-130S-110F/O3						
GH-130S-125F/O3						
GH-130S-080F/O4						
GH-130S-090F/O4						
GH-130S-100F/O4						
GH-130S-110F/O4						
GH-130S-125F/O4						
GH-130S-080F/O5						
GH-130S-090F/O5						
GH-130S-100F/O5						
GH-130S-110F/O5						
GH-130S-125F/O5						
GH-130S-140F/O5						
GH-130S-090F/O6						
GH-130S-100F/O6						
GH-130S-110F/O6						
GH-130S-125F/O6						
GH-130S-140F/O6						
GH-161S-110F/O2	16,357	8,538	12,388	15,085	7,549	10,418
GH-161S-110F/O3	18,997	10,193	15,273	12,167	5,692	7,229
GH-161S-110F/O4	24,449	13,134	19,705	7,686	755	642
GH-161S-110F/O5						
GH-161S-125F/O2	16,294	8,498	12,319	23,198	12,643	19,286
GH-161S-125F/O3	18,934	10,154	15,204	20,280	10,817	16,097
GH-161S-125F/O4	24,386	13,094	19,636	15,799	7,435	9,510
GH-161S-125F/O5	31,383	16,455	24,002	11,384	1,219	1,058
GH-161S-140F/O2	16,224	8,454	12,241	32,346	18,353	29,286
GH-161S-140F/O3	18,863	10,110	15,127	29,429	16,533	26,097
GH-161S-140F/O4	24,315	13,050	19,558	24,948	13,216	19,511

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5	31,312	16,410	23,925	20,533	9,198	11,058
GH-161S-160F/O2	16,117	8,386	12,124	46,156	26,951	44,381
GH-161S-160F/O3	18,756	10,042	15,010	43,238	25,135	41,191
GH-161S-160F/O4	24,208	12,983	19,441	38,757	21,844	34,605
GH-161S-160F/O5	31,205	16,343	23,808	34,342	17,971	26,152
GH-161S-180F/O2	15,995	8,310	11,992	61,806	36,685	61,488
GH-161S-180F/O3	18,635	9,966	14,877	58,889	34,870	58,299
GH-161S-180F/O4	24,087	12,907	19,309	54,408	31,593	51,712
GH-161S-180F/O5	31,084	16,267	23,675	49,993	27,763	43,259
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-110F/O1						
GH-200S-125F/O1						
GH-200S-140F/O1						
GH-200S-160F/O1						
GH-200S-180F/O1						
GH-200S-125F/O2						
GH-200S-140F/O2						
GH-200S-160F/O2						
GH-200S-180F/O2						
GH-201S-200F/O3						
GH-201S-160F/O7						
GH-201S-200F/O7						
GH-270S-200F/O0						
GH-270S-220F/O0						
GH-270S-240F/O0						
GH-270S-200F/O2						
GH-270S-220F/O2						
GH-270S-240F/O2						
GH-270S-250F/O2						
GH-270S-280F/O2						
GH-270S-220F/O3						
GH-270S-250F/O3						
GH-270S-280F/O3						
GH-270S-200F/O4						
GH-270S-220F/O4						
GH-270S-240F/O4						
GH-271S-200F/O0						
GH-271S-220F/O0						
GH-271S-240F/O0						
GH-271S-250F/O0						

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0						
GH-271S-300F/O0						
GH-271S-320F/O0						
GH-271S-340F/O0						
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2						
GH-271S-220F/O2						
GH-271S-240F/O2						
GH-271S-250F/O2						
GH-271S-280F/O2						
GH-271S-300F/O2						
GH-271S-320F/O2						
GH-271S-340F/O2						
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3						
GH-271S-220F/O3						
GH-271S-240F/O3						
GH-271S-250F/O3						
GH-271S-280F/O3						
GH-271S-300F/O3						
GH-271S-320F/O3						
GH-271S-340F/O3						
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4						
GH-271S-220F/O4						
GH-271S-240F/O4						
GH-271S-250F/O4						
GH-271S-280F/O4						
GH-271S-300F/O4						
GH-271S-320F/O4						
GH-271S-340F/O4						

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1						
GH-350S-250F/O1						
GH-350S-280F/O1						
GH-350S-300F/O1						
GH-350S-320F/O1						
GH-350S-350F/O1						
GH-350S-380F/O1						
GH-350S-400F/O1						
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1	989	506	718	1,642	904	1,394
GH-065S-060F/O1	978	499	706	2,697	1,561	2,547
GH-065S-050F/O2	1,618	819	1,145	1,210	535	634
GH-065S-060F/O2	1,607	811	1,133	2,265	1,205	1,787
GH-065S-070F/O2	1,593	803	1,118	3,513	1,984	3,150
GH-065S-080F/O2						
GH-065S-090F/O2						
GH-065S-070F/O3	2,873	1,476	2,103	2,516	1,214	1,604
GH-065S-050F/O4						
GH-065S-060F/O4	2,031	1,063	1,546	1,848	924	1,274
GH-065S-070F/O4	2,018	1,054	1,531	3,095	1,706	2,637
GH-085S-050F/O1	1,444	707	950	2,173	1,145	1,681
GH-085S-060F/O1	1,429	697	934	3,568	2,017	3,207
GH-085S-070F/O1	1,411	686	914	5,218	3,045	5,010
GH-085S-050F/O2	2,372	1,146	1,515	1,602	564	559
GH-085S-060F/O2	2,357	1,136	1,498	2,998	1,505	2,085
GH-085S-070F/O2	2,339	1,125	1,479	4,647	2,540	3,888
GH-085S-060F/O3						
GH-085S-070F/O3	3,801	1,813	2,360	3,756	1,718	2,122
GH-085S-080F/O3	3,781	1,800	2,338	5,660	2,927	4,203
GH-085S-090F/O3	3,757	1,785	2,312	7,817	4,279	6,561
GH-085S-050F/O4						
GH-085S-060F/O4	2,688	1,317	1,771	2,722	1,297	1,686
GH-085S-070F/O4	2,670	1,305	1,751	4,372	2,338	3,489
GH-085S-080F/O4	2,649	1,292	1,729	6,275	3,527	5,570
GH-085S-090F/O4	2,626	1,277	1,703	8,433	4,871	7,928
GH-085S-050F/O5						
GH-085S-060F/O5						
GH-085S-070F/O5	4,124	2,019	2,713	3,400	1,486	1,732
GH-085S-080F/O5	4,103	2,006	2,690	5,303	2,703	3,813
GH-085S-090F/O5	4,080	1,991	2,665	7,460	4,056	6,171
GH-085S-050F/O6						
GH-085S-060F/O6						
GH-085S-070F/O6	5,035	2,447	3,258	2,848	656	632
GH-085S-080F/O6	5,014	2,434	3,235	4,752	2,184	2,712
GH-085S-090F/O6	4,991	2,419	3,210	6,909	3,554	5,070
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7						
GH-085S-080F/O7	6,414	3,196	4,387	3,587	1,042	1,021
GH-085S-090F/O7	6,391	3,181	4,361	5,745	2,675	3,379
GH-100S-070F/O1						
GH-100S-080F/O1	6,370	2,801	3,289	6,296	2,601	2,822
GH-100S-090F/O1	6,351	2,788	3,268	8,872	4,277	5,638
GH-100S-110F/O1						
GH-100S-080F/O2	7,496	3,530	4,520	5,051	1,489	1,461

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2	7,477	3,518	4,500	7,627	3,478	4,277
GH-100S-110F/O2	7,434	3,490	4,452	13,690	7,313	10,903
GH-130S-070F/O1						
GH-130S-080F/O1	9,493	4,711	6,437	6,045	2,266	2,253
GH-130S-090F/O1	9,456	4,688	6,397	9,420	4,526	5,943
GH-130S-100F/O1	9,415	4,662	6,352	13,193	6,910	10,066
GH-130S-110F/O1	9,457	4,688	6,397	17,449	9,574	14,718
GH-130S-125F/O1	9,406	4,656	6,342	24,473	13,955	22,396
GH-130S-080F/O2						
GH-130S-090F/O2	11,698	5,609	7,345	8,462	3,248	3,234
GH-130S-100F/O2	11,657	5,583	7,300	12,234	5,755	7,358
GH-130S-110F/O2	11,699	5,609	7,345	16,490	8,454	12,010
GH-130S-125F/O2	11,648	5,577	7,290	23,514	12,858	19,688
GH-130S-070F/O3						
GH-130S-080F/O3	8,504	4,348	6,156	6,329	2,849	3,447
GH-130S-090F/O3	8,468	4,325	6,116	9,704	4,997	7,137
GH-130S-100F/O3	8,427	4,299	6,072	13,476	7,362	11,260
GH-130S-110F/O3	8,469	4,325	6,117	17,732	10,018	15,912
GH-130S-125F/O3	8,418	4,293	6,062	24,756	14,393	23,590
GH-130S-080F/O4	9,611	5,044	7,366	5,106	2,034	2,111
GH-130S-090F/O4	9,574	5,021	7,326	8,481	4,225	5,800
GH-130S-100F/O4	9,534	4,995	7,281	12,253	6,597	9,923
GH-130S-110F/O4	9,575	5,021	7,327	16,509	9,255	14,576
GH-130S-125F/O4	9,525	4,990	7,271	23,533	13,631	22,253
GH-130S-080F/O5						
GH-130S-090F/O5	12,628	6,371	8,878	6,911	2,145	2,111
GH-130S-100F/O5	12,587	6,345	8,834	10,683	4,958	6,234
GH-130S-110F/O5	12,629	6,371	8,879	14,940	7,661	10,887
GH-130S-125F/O5	12,578	6,339	8,824	21,963	12,063	18,564
GH-130S-140F/O5	12,521	6,304	8,761	29,884	17,004	27,222
GH-130S-090F/O6						
GH-130S-100F/O6						
GH-130S-110F/O6	16,923	8,167	10,781	13,016	5,321	5,698
GH-130S-125F/O6	16,873	8,135	10,726	20,040	9,876	13,375
GH-130S-140F/O6	16,816	8,099	10,663	27,961	14,864	22,033
GH-161S-110F/O2	16,357	8,538	12,388	17,243	8,911	12,778
GH-161S-110F/O3	18,997	10,193	15,273	14,326	7,069	9,589
GH-161S-110F/O4						
GH-161S-110F/O5						
GH-161S-125F/O2	16,294	8,498	12,319	25,985	14,385	22,333
GH-161S-125F/O3	18,934	10,154	15,204	23,068	12,562	19,144
GH-161S-125F/O4	24,386	13,094	19,636	18,587	9,210	12,558
GH-161S-125F/O5						
GH-161S-140F/O2	16,224	8,454	12,241	35,843	20,530	33,109
GH-161S-140F/O3	18,863	10,110	15,127	32,925	18,713	29,919
GH-161S-140F/O4	24,315	13,050	19,558	28,445	15,406	23,333

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5	31,312	16,410	23,925	24,030	11,451	14,880
GH-161S-160F/O2	16,117	8,386	12,124	50,723	29,791	49,373
GH-161S-160F/O3	18,756	10,042	15,010	47,805	27,977	46,184
GH-161S-160F/O4	24,208	12,983	19,441	43,324	24,691	39,598
GH-161S-160F/O5	31,205	16,343	23,808	38,909	20,835	31,145
GH-161S-180F/O2						
GH-161S-180F/O3						
GH-161S-180F/O4	24,087	12,907	19,309	60,188	35,190	58,031
GH-161S-180F/O5	31,084	16,267	23,675	55,773	31,369	49,578
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-110F/O1						
GH-200S-125F/O1	32,089	16,648	23,985	24,332	11,342	14,339
GH-200S-140F/O1	31,999	16,591	23,887	36,792	19,233	27,958
GH-200S-160F/O1	31,864	16,506	23,739	55,598	30,998	48,515
GH-200S-180F/O1	31,710	16,410	23,571	76,912	44,280	71,812
GH-200S-125F/O2						
GH-200S-140F/O2	43,545	22,199	31,323	29,272	12,449	14,009
GH-200S-160F/O2	43,410	22,114	31,175	48,079	24,504	34,565
GH-200S-180F/O2	43,257	22,017	31,007	69,393	37,872	57,863
GH-201S-200F/O3	77,231	38,006	51,386	73,369	34,358	43,687
GH-201S-160F/O7	60,086	29,653	40,232	38,921	14,501	14,418
GH-201S-200F/O7	60,213	29,733	40,370	84,507	44,187	64,247
GH-270S-200F/O0	122,680	55,736	68,216	102,075	38,935	38,759
GH-270S-220F/O0	122,551	55,652	68,075	138,139	63,250	78,179
GH-270S-240F/O0	122,409	55,560	67,920	177,638	88,463	121,354
GH-270S-200F/O2						
GH-270S-220F/O2	158,582	66,903	74,519	131,623	35,543	34,649
GH-270S-240F/O2	158,440	66,808	74,364	171,122	71,156	77,824
GH-270S-250F/O2	158,365	66,758	74,282	192,160	85,098	100,819
GH-270S-280F/O2						
GH-270S-220F/O3						
GH-270S-250F/O3	169,386	74,060	86,328	179,978	77,079	87,504
GH-270S-280F/O3	169,141	73,899	86,061	248,243	121,143	162,121
GH-270S-200F/O4	115,978	51,376	60,890	109,483	44,308	46,856
GH-270S-220F/O4	115,848	51,291	60,749	145,547	68,022	86,276
GH-270S-240F/O4	115,707	51,199	60,594	185,046	93,150	129,451
GH-271S-200F/O0	122,680	55,736	68,216	102,075	38,935	38,759
GH-271S-220F/O0	122,551	55,652	68,075	138,139	63,250	78,179
GH-271S-240F/O0	122,409	55,560	67,920	177,638	88,463	121,354
GH-271S-250F/O0	122,334	55,512	67,838	198,675	101,749	144,349

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0	122,089	55,353	67,570	266,939	144,578	218,966
GH-271S-300F/O0	121,911	55,238	67,375	316,742	175,698	273,403
GH-271S-320F/O0						
GH-271S-340F/O0						
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2						
GH-271S-220F/O2	158,582	66,903	74,519	131,623	35,543	34,649
GH-271S-240F/O2	158,440	66,808	74,364	171,122	71,156	77,824
GH-271S-250F/O2	158,365	66,758	74,282	192,160	85,098	100,819
GH-271S-280F/O2	158,120	66,594	74,014	260,424	128,873	175,436
GH-271S-300F/O2	157,941	66,474	73,819	310,227	160,312	229,874
GH-271S-320F/O2						
GH-271S-340F/O2						
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3						
GH-271S-220F/O3						
GH-271S-240F/O3	169,461	74,109	86,411	158,941	62,792	64,509
GH-271S-250F/O3	169,386	74,060	86,328	179,978	77,079	87,504
GH-271S-280F/O3	169,141	73,899	86,061	248,243	121,143	162,121
GH-271S-300F/O3	168,963	73,782	85,866	298,045	152,645	216,559
GH-271S-320F/O3						
GH-271S-340F/O3						
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4	115,978	51,376	60,890	109,483	44,308	46,856
GH-271S-220F/O4	115,848	51,291	60,749	145,547	68,022	86,276
GH-271S-240F/O4	115,707	51,199	60,594	185,046	93,150	129,451
GH-271S-250F/O4	115,631	51,149	60,512	206,083	106,412	152,446
GH-271S-280F/O4	115,387	50,989	60,244	274,347	149,208	227,063
GH-271S-300F/O4						
GH-271S-320F/O4						
GH-271S-340F/O4						

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1						
GH-350S-250F/O1	260,217	97,872	97,361	251,780	70,062	68,447
GH-350S-280F/O1	259,896	97,531	97,010	341,233	146,262	166,224
GH-350S-300F/O1	259,662	97,282	96,755	406,494	188,782	237,559
GH-350S-320F/O1	259,412	97,016	96,481	476,255	233,352	313,812
GH-350S-350F/O1	259,007	96,585	96,038	589,337	304,775	437,417
GH-350S-380F/O1						
GH-350S-400F/O1						
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1	989	506	718	1,989	1,120	1,773
GH-065S-060F/O1	978	499	706	3,196	1,872	3,092
GH-065S-050F/O2	1,618	819	1,145	1,557	758	1,012
GH-065S-060F/O2	1,607	811	1,133	2,764	1,517	2,332
GH-065S-070F/O2						
GH-065S-080F/O2						
GH-065S-090F/O2						
GH-065S-070F/O3	2,873	1,476	2,103	3,195	1,644	2,346
GH-065S-050F/O4	2,043	1,070	1,558	1,139	466	499
GH-065S-060F/O4	2,031	1,063	1,546	2,346	1,238	1,819
GH-065S-070F/O4	2,018	1,054	1,531	3,774	2,130	3,379
GH-085S-050F/O1	1,444	707	950	2,631	1,432	2,182
GH-085S-060F/O1	1,429	697	934	4,228	2,428	3,928
GH-085S-070F/O1	1,411	686	914	6,116	3,603	5,991
GH-085S-050F/O2	2,372	1,146	1,515	2,060	904	1,060
GH-085S-060F/O2	2,357	1,136	1,498	3,657	1,920	2,806
GH-085S-070F/O2	2,339	1,125	1,479	5,545	3,101	4,869
GH-085S-060F/O3	3,819	1,825	2,380	2,766	1,045	1,040
GH-085S-070F/O3	3,801	1,813	2,360	4,654	2,292	3,103
GH-085S-080F/O3	3,781	1,800	2,338	6,832	3,663	5,485
GH-085S-090F/O3	3,757	1,785	2,312	9,301	5,206	8,183
GH-085S-050F/O4	2,703	1,326	1,787	1,785	665	661
GH-085S-060F/O4	2,688	1,317	1,771	3,382	1,716	2,407
GH-085S-070F/O4	2,670	1,305	1,751	5,270	2,899	4,470
GH-085S-080F/O4	2,649	1,292	1,729	7,448	4,258	6,852
GH-085S-090F/O4	2,626	1,277	1,703	9,917	5,795	9,550
GH-085S-050F/O5						
GH-085S-060F/O5	4,142	2,030	2,732	2,410	666	650
GH-085S-070F/O5	4,124	2,019	2,713	4,297	2,066	2,714
GH-085S-080F/O5	4,103	2,006	2,690	6,476	3,440	5,095
GH-085S-090F/O5	4,080	1,991	2,665	8,945	4,983	7,793
GH-085S-050F/O6						
GH-085S-060F/O6						
GH-085S-070F/O6	5,035	2,447	3,258	3,746	1,520	1,613
GH-085S-080F/O6	5,014	2,434	3,235	5,925	2,933	3,994
GH-085S-090F/O6	4,991	2,419	3,210	8,393	4,486	6,693
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7						
GH-085S-080F/O7	6,414	3,196	4,387	4,760	2,034	2,303
GH-085S-090F/O7	6,391	3,181	4,361	7,229	3,621	5,001
GH-100S-070F/O1	6,386	2,811	3,306	5,091	1,532	1,505
GH-100S-080F/O1	6,370	2,801	3,289	7,692	3,519	4,347
GH-100S-090F/O1	6,351	2,788	3,268	10,639	5,396	7,568
GH-100S-110F/O1						
GH-100S-080F/O2	7,496	3,530	4,520	6,447	2,702	2,986

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2	7,477	3,518	4,500	9,394	4,608	6,207
GH-100S-110F/O2						
GH-130S-070F/O1						
GH-130S-080F/O1	9,493	4,711	6,437	7,880	3,535	4,259
GH-130S-090F/O1	9,456	4,688	6,397	11,743	5,997	8,481
GH-130S-100F/O1	9,415	4,662	6,352	16,060	8,706	13,200
GH-130S-110F/O1	9,457	4,688	6,397	20,918	11,740	18,510
GH-130S-125F/O1	9,406	4,656	6,342	28,952	16,745	27,293
GH-130S-080F/O2	11,735	5,632	7,385	6,922	1,610	1,551
GH-130S-090F/O2	11,698	5,609	7,345	10,784	4,818	5,773
GH-130S-100F/O2	11,657	5,583	7,300	15,101	7,578	10,492
GH-130S-110F/O2	11,699	5,609	7,345	19,959	10,633	15,802
GH-130S-125F/O2	11,648	5,577	7,290	27,994	15,654	24,584
GH-130S-070F/O3	8,537	4,368	6,192	4,755	1,739	1,728
GH-130S-080F/O3	8,504	4,348	6,156	8,163	4,024	5,453
GH-130S-090F/O3	8,468	4,325	6,116	12,026	6,455	9,675
GH-130S-100F/O3	8,427	4,299	6,072	16,343	9,152	14,394
GH-130S-110F/O3	8,469	4,325	6,117	21,201	12,179	19,704
GH-130S-125F/O3	8,418	4,293	6,062	29,236	17,179	28,486
GH-130S-080F/O4	9,611	5,044	7,366	6,940	3,244	4,116
GH-130S-090F/O4	9,574	5,021	7,326	10,803	5,688	8,338
GH-130S-100F/O4	9,534	4,995	7,281	15,120	8,389	13,057
GH-130S-110F/O4	9,575	5,021	7,327	19,978	11,417	18,367
GH-130S-125F/O4	9,525	4,990	7,271	28,013	16,419	27,150
GH-130S-080F/O5						
GH-130S-090F/O5	12,628	6,371	8,878	9,233	4,016	4,649
GH-130S-100F/O5	12,587	6,345	8,834	13,550	6,785	9,368
GH-130S-110F/O5	12,629	6,371	8,879	18,409	9,840	14,679
GH-130S-125F/O5	12,578	6,339	8,824	26,443	14,859	23,461
GH-130S-140F/O5						
GH-130S-090F/O6						
GH-130S-100F/O6	16,882	8,141	10,735	11,627	4,210	4,180
GH-130S-110F/O6	16,923	8,167	10,781	16,486	7,605	9,490
GH-130S-125F/O6	16,873	8,135	10,726	24,520	12,703	18,272
GH-130S-140F/O6	16,816	8,099	10,663	33,580	18,380	28,175
GH-161S-110F/O2	16,357	8,538	12,388	21,561	11,620	17,497
GH-161S-110F/O3	18,997	10,193	15,273	18,643	9,791	14,308
GH-161S-110F/O4	24,449	13,134	19,705	14,162	6,379	7,722
GH-161S-110F/O5						
GH-161S-125F/O2	16,294	8,498	12,319	31,561	17,863	28,428
GH-161S-125F/O3	18,934	10,154	15,204	28,643	16,043	25,238
GH-161S-125F/O4	24,386	13,094	19,636	24,162	12,724	18,652
GH-161S-125F/O5	31,383	16,455	24,002	19,747	8,685	10,199
GH-161S-140F/O2	16,224	8,454	12,241	42,837	24,885	40,753
GH-161S-140F/O3	18,863	10,110	15,127	39,919	23,069	37,564
GH-161S-140F/O4	24,315	13,050	19,558	35,438	19,774	30,978

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5	31,312	16,410	23,925	31,023	15,883	22,525
GH-161S-160F/O2	16,117	8,386	12,124	59,858	35,473	59,358
GH-161S-160F/O3	18,756	10,042	15,010	56,940	33,658	56,169
GH-161S-160F/O4	24,208	12,983	19,441	52,459	30,379	49,583
GH-161S-160F/O5	31,205	16,343	23,808	48,044	26,548	41,130
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-110F/O1	32,168	16,698	24,072	18,741	7,671	8,227
GH-200S-125F/O1	32,089	16,648	23,985	31,379	15,825	22,042
GH-200S-140F/O1	31,999	16,591	23,887	45,631	24,772	37,620
GH-200S-160F/O1	31,864	16,506	23,739	67,144	38,197	61,134
GH-200S-180F/O1	31,710	16,410	23,571	91,524	53,377	87,784
GH-200S-125F/O2	43,635	22,255	31,421	23,860	8,176	8,093
GH-200S-140F/O2	43,545	22,199	31,323	38,112	18,185	23,671
GH-200S-160F/O2	43,410	22,114	31,175	59,624	31,759	47,185
GH-200S-180F/O2	43,257	22,017	31,007	84,005	46,995	73,835
GH-201S-200F/O3	77,231	38,006	51,386	91,408	45,838	63,406
GH-201S-160F/O7	60,086	29,653	40,232	50,466	22,555	27,038
GH-201S-200F/O7	60,213	29,733	40,370	102,547	55,494	83,966
GH-270S-200F/O0	122,680	55,736	68,216	126,696	55,807	65,671
GH-270S-220F/O0	122,551	55,652	68,075	167,931	82,312	110,743
GH-270S-240F/O0	122,409	55,560	67,920	213,093	110,819	160,108
GH-270S-200F/O2						
GH-270S-220F/O2	158,582	66,903	74,519	161,415	64,521	67,214
GH-270S-240F/O2	158,440	66,808	74,364	206,577	94,466	116,578
GH-270S-250F/O2	158,365	66,758	74,282	230,630	109,919	142,870
GH-270S-280F/O2						
GH-270S-220F/O3	169,603	74,202	86,565	149,234	54,276	53,899
GH-270S-250F/O3	169,386	74,060	86,328	218,449	102,116	129,555
GH-270S-280F/O3						
GH-270S-200F/O4	115,978	51,376	60,890	134,104	60,639	73,769
GH-270S-220F/O4	115,848	51,291	60,749	175,339	87,007	118,841
GH-270S-240F/O4	115,707	51,199	60,594	220,500	115,476	168,205
GH-271S-200F/O0	122,680	55,736	68,216	126,696	55,807	65,671
GH-271S-220F/O0	122,551	55,652	68,075	167,931	82,312	110,743
GH-271S-240F/O0	122,409	55,560	67,920	213,093	110,819	160,108
GH-271S-250F/O0	122,334	55,512	67,838	237,146	125,918	186,400

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0	122,089	55,353	67,570	315,197	174,734	271,715
GH-271S-300F/O0						
GH-271S-320F/O0						
GH-271S-340F/O0						
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2						
GH-271S-220F/O2	158,582	66,903	74,519	161,415	64,521	67,214
GH-271S-240F/O2	158,440	66,808	74,364	206,577	94,466	116,578
GH-271S-250F/O2	158,365	66,758	74,282	230,630	109,919	142,870
GH-271S-280F/O2	158,120	66,594	74,014	308,682	159,340	228,185
GH-271S-300F/O2						
GH-271S-320F/O2						
GH-271S-340F/O2						
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3						
GH-271S-220F/O3	169,603	74,202	86,565	149,234	54,276	53,899
GH-271S-240F/O3	169,461	74,109	86,411	194,396	86,557	103,264
GH-271S-250F/O3	169,386	74,060	86,328	218,449	102,116	129,555
GH-271S-280F/O3	169,141	73,899	86,061	296,500	151,670	214,870
GH-271S-300F/O3						
GH-271S-320F/O3						
GH-271S-340F/O3						
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4	115,978	51,376	60,890	134,104	60,639	73,769
GH-271S-220F/O4	115,848	51,291	60,749	175,339	87,007	118,841
GH-271S-240F/O4	115,707	51,199	60,594	220,500	115,476	168,205
GH-271S-250F/O4	115,631	51,149	60,512	244,554	130,561	194,497
GH-271S-280F/O4						
GH-271S-300F/O4						
GH-271S-320F/O4						
GH-271S-340F/O4						

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1						
GH-350S-250F/O1	260,217	97,872	97,361	302,192	119,784	123,550
GH-350S-280F/O1	259,896	97,531	97,010	404,469	187,480	235,346
GH-350S-300F/O1	259,662	97,282	96,755	479,087	235,152	316,907
GH-350S-320F/O1	259,412	97,016	96,481	558,850	285,580	404,093
GH-350S-350F/O1						
GH-350S-380F/O1						
GH-350S-400F/O1						
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1	989	506	718	2,335	1,335	2,151
GH-065S-060F/O1	978	499	706	3,695	2,182	3,638
GH-065S-050F/O2	1,618	819	1,145	1,903	977	1,391
GH-065S-060F/O2	1,607	811	1,133	3,263	1,828	2,877
GH-065S-070F/O2						
GH-065S-080F/O2						
GH-065S-090F/O2						
GH-065S-070F/O3						
GH-065S-050F/O4	2,043	1,070	1,558	1,485	693	878
GH-065S-060F/O4	2,031	1,063	1,546	2,845	1,550	2,364
GH-065S-070F/O4						
GH-085S-050F/O1	1,444	707	950	3,089	1,718	2,682
GH-085S-060F/O1	1,429	697	934	4,888	2,839	4,649
GH-085S-070F/O1	1,411	686	914	7,014	4,161	6,973
GH-085S-050F/O2	2,372	1,146	1,515	2,518	1,200	1,560
GH-085S-060F/O2	2,357	1,136	1,498	4,317	2,334	3,527
GH-085S-070F/O2	2,339	1,125	1,479	6,443	3,661	5,851
GH-085S-060F/O3	3,819	1,825	2,380	3,426	1,503	1,761
GH-085S-070F/O3	3,801	1,813	2,360	5,552	2,860	4,085
GH-085S-080F/O3	3,781	1,800	2,338	8,005	4,397	6,766
GH-085S-090F/O3						
GH-085S-050F/O4	2,703	1,326	1,787	2,243	987	1,161
GH-085S-060F/O4	2,688	1,317	1,771	4,042	2,131	3,128
GH-085S-070F/O4	2,670	1,305	1,751	6,168	3,460	5,452
GH-085S-080F/O4	2,649	1,292	1,729	8,621	4,988	8,133
GH-085S-090F/O4						
GH-085S-050F/O5						
GH-085S-060F/O5	4,142	2,030	2,732	3,069	1,266	1,371
GH-085S-070F/O5	4,124	2,019	2,713	5,195	2,635	3,695
GH-085S-080F/O5	4,103	2,006	2,690	7,649	4,174	6,377
GH-085S-090F/O5						
GH-085S-050F/O6						
GH-085S-060F/O6						
GH-085S-070F/O6	5,035	2,447	3,258	4,644	2,114	2,595
GH-085S-080F/O6	5,014	2,434	3,235	7,097	3,673	5,276
GH-085S-090F/O6	4,991	2,419	3,210	9,878	5,415	8,315
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7	6,435	3,209	4,409	3,480	927	903
GH-085S-080F/O7	6,414	3,196	4,387	5,933	2,796	3,585
GH-085S-090F/O7	6,391	3,181	4,361	8,713	4,556	6,624
GH-100S-070F/O1	6,386	2,811	3,306	6,160	2,508	2,673
GH-100S-080F/O1	6,370	2,801	3,289	9,087	4,413	5,872
GH-100S-090F/O1	6,351	2,788	3,268	12,405	6,508	9,499
GH-100S-110F/O1						
GH-100S-080F/O2	7,496	3,530	4,520	7,842	3,617	4,512

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2	7,477	3,518	4,500	11,160	5,725	8,138
GH-100S-110F/O2						
GH-130S-070F/O1	9,525	4,732	6,472	5,877	2,087	2,069
GH-130S-080F/O1	9,493	4,711	6,437	9,715	4,714	6,265
GH-130S-090F/O1	9,456	4,688	6,397	14,065	7,457	11,020
GH-130S-100F/O1	9,415	4,662	6,352	18,927	10,498	16,334
GH-130S-110F/O1	9,457	4,688	6,397	24,387	13,902	22,302
GH-130S-125F/O1	9,406	4,656	6,342	33,432	19,533	32,189
GH-130S-080F/O2	11,735	5,632	7,385	8,756	3,460	3,556
GH-130S-090F/O2	11,698	5,609	7,345	13,106	6,312	8,311
GH-130S-100F/O2	11,657	5,583	7,300	17,968	9,384	13,625
GH-130S-110F/O2	11,699	5,609	7,345	23,429	12,804	19,594
GH-130S-125F/O2	11,648	5,577	7,290	32,474	18,448	29,481
GH-130S-070F/O3	8,537	4,368	6,192	6,160	2,739	3,263
GH-130S-080F/O3	8,504	4,348	6,156	9,998	5,182	7,459
GH-130S-090F/O3	8,468	4,325	6,116	14,348	7,907	12,214
GH-130S-100F/O3	8,427	4,299	6,072	19,210	10,939	17,528
GH-130S-110F/O3	8,469	4,325	6,117	24,670	14,339	23,496
GH-130S-125F/O3	8,418	4,293	6,062	33,716	19,966	33,383
GH-130S-080F/O4	9,611	5,044	7,366	8,775	4,412	6,122
GH-130S-090F/O4	9,574	5,021	7,326	13,125	7,142	10,877
GH-130S-100F/O4	9,534	4,995	7,281	17,987	10,177	16,191
GH-130S-110F/O4	9,575	5,021	7,327	23,447	13,578	22,159
GH-130S-125F/O4	9,525	4,990	7,271	32,493	19,205	32,046
GH-130S-080F/O5	12,664	6,394	8,918	7,206	2,459	2,433
GH-130S-090F/O5	12,628	6,371	8,878	11,556	5,517	7,188
GH-130S-100F/O5	12,587	6,345	8,834	16,418	8,591	12,502
GH-130S-110F/O5	12,629	6,371	8,879	21,878	12,010	18,471
GH-130S-125F/O5	12,578	6,339	8,824	30,923	17,651	28,357
GH-130S-140F/O5						
GH-130S-090F/O6	16,923	8,167	10,780	9,633	2,088	1,999
GH-130S-100F/O6	16,882	8,141	10,735	14,494	6,309	7,313
GH-130S-110F/O6	16,923	8,167	10,781	19,955	9,821	13,282
GH-130S-125F/O6	16,873	8,135	10,726	29,000	15,515	23,169
GH-130S-140F/O6						
GH-161S-110F/O2	16,357	8,538	12,388	25,879	14,319	22,217
GH-161S-110F/O3	18,997	10,193	15,273	22,961	12,495	19,028
GH-161S-110F/O4	24,449	13,134	19,705	18,480	9,142	12,441
GH-161S-110F/O5						
GH-161S-125F/O2	16,294	8,498	12,319	37,136	21,335	34,522
GH-161S-125F/O3	18,934	10,154	15,204	34,219	19,519	31,333
GH-161S-125F/O4	24,386	13,094	19,636	29,738	16,214	24,746
GH-161S-125F/O5	31,383	16,455	24,002	25,323	12,275	16,293
GH-161S-140F/O2	16,224	8,454	12,241	49,831	29,237	48,398
GH-161S-140F/O3	18,863	10,110	15,127	46,913	27,422	45,209
GH-161S-140F/O4	24,315	13,050	19,558	42,432	24,136	38,622

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5	31,312	16,410	23,925	38,017	20,276	30,170
GH-161S-160F/O2						
GH-161S-160F/O3						
GH-161S-160F/O4	24,208	12,983	19,441	61,594	36,064	59,567
GH-161S-160F/O5	31,205	16,343	23,808	57,179	32,246	51,115
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-110F/O1	32,168	16,698	24,072	24,198	11,255	14,192
GH-200S-125F/O1	32,089	16,648	23,985	38,426	20,260	29,744
GH-200S-140F/O1	31,999	16,591	23,887	54,471	30,294	47,282
GH-200S-160F/O1	31,864	16,506	23,739	78,689	45,386	73,754
GH-200S-180F/O1						
GH-200S-125F/O2	43,635	22,255	31,421	30,907	13,529	15,795
GH-200S-140F/O2	43,545	22,199	31,323	46,951	23,793	33,333
GH-200S-160F/O2	43,410	22,114	31,175	71,170	38,983	59,805
GH-200S-180F/O2	43,257	22,017	31,007	98,617	56,107	89,807
GH-201S-200F/O3	77,231	38,006	51,386	109,448	57,202	83,125
GH-201S-160F/O7	60,086	29,653	40,232	62,012	29,978	39,658
GH-201S-200F/O7	60,213	29,733	40,370	120,587	66,769	103,684
GH-270S-200F/O0	122,680	55,736	68,216	151,318	71,721	92,584
GH-270S-220F/O0	122,551	55,652	68,075	197,723	101,148	143,308
GH-270S-240F/O0	122,409	55,560	67,920	248,547	133,063	198,862
GH-270S-200F/O2	158,711	66,989	74,660	144,802	49,562	49,054
GH-270S-220F/O2	158,582	66,903	74,519	191,207	84,474	99,778
GH-270S-240F/O2	158,440	66,808	74,364	242,032	117,190	155,333
GH-270S-250F/O2						
GH-270S-280F/O2						
GH-270S-220F/O3	169,603	74,202	86,565	179,026	76,445	86,463
GH-270S-250F/O3						
GH-270S-280F/O3						
GH-270S-200F/O4	115,978	51,376	60,890	158,725	76,454	100,681
GH-270S-220F/O4	115,848	51,291	60,749	205,130	105,814	151,405
GH-270S-240F/O4						
GH-271S-200F/O0	122,680	55,736	68,216	151,318	71,721	92,584
GH-271S-220F/O0	122,551	55,652	68,075	197,723	101,148	143,308
GH-271S-240F/O0	122,409	55,560	67,920	248,547	133,063	198,862
GH-271S-250F/O0	122,334	55,512	67,838	275,617	150,002	228,451

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0						
GH-271S-300F/O0						
GH-271S-320F/O0						
GH-271S-340F/O0						
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2	158,711	66,989	74,660	144,802	49,562	49,054
GH-271S-220F/O2	158,582	66,903	74,519	191,207	84,474	99,778
GH-271S-240F/O2	158,440	66,808	74,364	242,032	117,190	155,333
GH-271S-250F/O2	158,365	66,758	74,282	269,101	134,370	184,921
GH-271S-280F/O2						
GH-271S-300F/O2						
GH-271S-320F/O2						
GH-271S-340F/O2						
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3	169,732	74,287	86,707	132,621	36,604	35,740
GH-271S-220F/O3	169,603	74,202	86,565	179,026	76,445	86,463
GH-271S-240F/O3	169,461	74,109	86,411	229,850	109,420	142,018
GH-271S-250F/O3	169,386	74,060	86,328	256,920	126,653	171,607
GH-271S-280F/O3						
GH-271S-300F/O3						
GH-271S-320F/O3						
GH-271S-340F/O3						
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4	115,978	51,376	60,890	158,725	76,454	100,681
GH-271S-220F/O4	115,848	51,291	60,749	205,130	105,814	151,405
GH-271S-240F/O4	115,707	51,199	60,594	255,955	137,706	206,959
GH-271S-250F/O4	115,631	51,149	60,512	283,025	154,632	236,548
GH-271S-280F/O4						
GH-271S-300F/O4						
GH-271S-320F/O4						
GH-271S-340F/O4						

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1	260,501	98,174	97,672	250,532	68,734	67,083
GH-350S-250F/O1	260,217	97,872	97,361	352,604	153,773	178,653
GH-350S-280F/O1	259,896	97,531	97,010	467,706	227,911	304,467
GH-350S-300F/O1	259,662	97,282	96,755	551,679	281,056	396,255
GH-350S-320F/O1						
GH-350S-350F/O1						
GH-350S-380F/O1						
GH-350S-400F/O1						
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1	989	506	718	2,681	1,551	2,530
GH-065S-060F/O1						
GH-065S-050F/O2	1,618	819	1,145	2,249	1,195	1,770
GH-065S-060F/O2	1,607	811	1,133	3,761	2,139	3,423
GH-065S-070F/O2						
GH-065S-080F/O2						
GH-065S-090F/O2						
GH-065S-070F/O3						
GH-065S-050F/O4	2,043	1,070	1,558	1,831	914	1,256
GH-065S-060F/O4	2,031	1,063	1,546	3,344	1,862	2,909
GH-065S-070F/O4						
GH-085S-050F/O1	1,444	707	950	3,547	2,004	3,183
GH-085S-060F/O1	1,429	697	934	5,547	3,249	5,370
GH-085S-070F/O1	1,411	686	914	7,912	4,720	7,954
GH-085S-050F/O2	2,372	1,146	1,515	2,976	1,491	2,061
GH-085S-060F/O2	2,357	1,136	1,498	4,977	2,746	4,248
GH-085S-070F/O2	2,339	1,125	1,479	7,341	4,220	6,832
GH-085S-060F/O3	3,819	1,825	2,380	4,085	1,930	2,482
GH-085S-070F/O3	3,801	1,813	2,360	6,450	3,423	5,066
GH-085S-080F/O3	3,781	1,800	2,338	9,178	5,129	8,048
GH-085S-090F/O3						
GH-085S-050F/O4	2,703	1,326	1,787	2,701	1,283	1,662
GH-085S-060F/O4	2,688	1,317	1,771	4,701	2,544	3,849
GH-085S-070F/O4	2,670	1,305	1,751	7,066	4,019	6,433
GH-085S-080F/O4	2,649	1,292	1,729	9,794	5,718	9,415
GH-085S-090F/O4						
GH-085S-050F/O5						
GH-085S-060F/O5	4,142	2,030	2,732	3,729	1,701	2,092
GH-085S-070F/O5	4,124	2,019	2,713	6,093	3,200	4,677
GH-085S-080F/O5	4,103	2,006	2,690	8,821	4,906	7,659
GH-085S-090F/O5						
GH-085S-050F/O6						
GH-085S-060F/O6	5,053	2,458	3,278	3,178	1,007	992
GH-085S-070F/O6	5,035	2,447	3,258	5,542	2,690	3,576
GH-085S-080F/O6	5,014	2,434	3,235	8,270	4,409	6,558
GH-085S-090F/O6						
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7	6,435	3,209	4,409	4,378	1,776	1,885
GH-085S-080F/O7	6,414	3,196	4,387	7,106	3,543	4,867
GH-085S-090F/O7						
GH-100S-070F/O1	6,386	2,811	3,306	7,228	3,219	3,840
GH-100S-080F/O1	6,370	2,801	3,289	10,483	5,298	7,398
GH-100S-090F/O1						
GH-100S-110F/O1						
GH-100S-080F/O2	7,496	3,530	4,520	9,238	4,509	6,037

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2	7,477	3,518	4,500	12,926	6,835	10,069
GH-100S-110F/O2						
GH-130S-070F/O1	9,525	4,732	6,472	7,282	3,143	3,605
GH-130S-080F/O1	9,493	4,711	6,437	11,550	5,876	8,270
GH-130S-090F/O1	9,456	4,688	6,397	16,387	8,911	13,558
GH-130S-100F/O1	9,415	4,662	6,352	21,794	12,286	19,468
GH-130S-110F/O1	9,457	4,688	6,397	27,856	16,062	26,094
GH-130S-125F/O1						
GH-130S-080F/O2	11,735	5,632	7,385	10,591	4,692	5,562
GH-130S-090F/O2	11,698	5,609	7,345	15,429	7,785	10,850
GH-130S-100F/O2	11,657	5,583	7,300	20,835	11,182	16,759
GH-130S-110F/O2	11,699	5,609	7,345	26,898	14,971	23,386
GH-130S-125F/O2						
GH-130S-070F/O3	8,537	4,368	6,192	7,565	3,644	4,799
GH-130S-080F/O3	8,504	4,348	6,156	11,833	6,334	9,464
GH-130S-090F/O3	8,468	4,325	6,116	16,671	9,356	14,752
GH-130S-100F/O3	8,427	4,299	6,072	22,077	12,724	20,662
GH-130S-110F/O3	8,469	4,325	6,117	28,140	16,497	27,288
GH-130S-125F/O3						
GH-130S-080F/O4	9,611	5,044	7,366	10,610	5,567	8,128
GH-130S-090F/O4	9,574	5,021	7,326	15,448	8,593	13,415
GH-130S-100F/O4	9,534	4,995	7,281	20,854	11,963	19,325
GH-130S-110F/O4	9,575	5,021	7,327	26,917	15,737	25,951
GH-130S-125F/O4						
GH-130S-080F/O5	12,664	6,394	8,918	9,041	3,888	4,439
GH-130S-090F/O5	12,628	6,371	8,878	13,878	6,992	9,726
GH-130S-100F/O5	12,587	6,345	8,834	19,285	10,388	15,636
GH-130S-110F/O5	12,629	6,371	8,879	25,347	14,175	22,262
GH-130S-125F/O5						
GH-130S-140F/O5						
GH-130S-090F/O6	16,923	8,167	10,780	11,955	4,558	4,538
GH-130S-100F/O6	16,882	8,141	10,735	17,361	8,168	10,447
GH-130S-110F/O6	16,923	8,167	10,781	23,424	12,014	17,074
GH-130S-125F/O6	16,873	8,135	10,726	33,480	18,317	28,065
GH-130S-140F/O6						
GH-161S-110F/O2	16,357	8,538	12,388	30,196	17,012	26,936
GH-161S-110F/O3	18,997	10,193	15,273	27,279	15,192	23,747
GH-161S-110F/O4	24,449	13,134	19,705	22,798	11,866	17,161
GH-161S-110F/O5	31,446	16,495	24,071	18,383	7,783	8,708
GH-161S-125F/O2	16,294	8,498	12,319	42,712	24,807	40,616
GH-161S-125F/O3	18,934	10,154	15,204	39,794	22,990	37,427
GH-161S-125F/O4	24,386	13,094	19,636	35,313	19,696	30,841
GH-161S-125F/O5	31,383	16,455	24,002	30,898	15,804	22,388
GH-161S-140F/O2	16,224	8,454	12,241	56,825	33,587	56,043
GH-161S-140F/O3	18,863	10,110	15,127	53,907	31,772	52,854
GH-161S-140F/O4	24,315	13,050	19,558	49,426	28,491	46,267

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5	31,312	16,410	23,925	45,011	24,652	37,814
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-110F/O1	32,168	16,698	24,072	29,655	14,734	20,157
GH-200S-125F/O1	32,089	16,648	23,985	45,473	24,673	37,447
GH-200S-140F/O1	31,999	16,591	23,887	63,310	35,808	56,944
GH-200S-160F/O1	31,864	16,506	23,739	90,235	52,575	86,374
GH-200S-180F/O1						
GH-200S-125F/O2	43,635	22,255	31,421	37,954	18,084	23,498
GH-200S-140F/O2	43,545	22,199	31,323	55,791	29,356	42,995
GH-200S-160F/O2	43,410	22,114	31,175	82,715	46,191	72,425
GH-200S-180F/O2						
GH-201S-200F/O3	77,231	38,006	51,386	127,488	68,515	102,843
GH-201S-160F/O7	60,086	29,653	40,232	73,557	37,294	52,278
GH-201S-200F/O7	60,213	29,733	40,370	138,627	78,021	123,403
GH-270S-200F/O0	122,680	55,736	68,216	175,939	87,387	119,497
GH-270S-220F/O0	122,551	55,652	68,075	227,514	119,882	175,872
GH-270S-240F/O0						
GH-270S-200F/O2	158,711	66,989	74,660	169,423	70,006	75,967
GH-270S-220F/O2	158,582	66,903	74,519	220,999	103,756	132,342
GH-270S-240F/O2						
GH-270S-250F/O2						
GH-270S-280F/O2						
GH-270S-220F/O3	169,603	74,202	86,565	208,818	95,916	119,028
GH-270S-250F/O3						
GH-270S-280F/O3						
GH-270S-200F/O4	115,978	51,376	60,890	183,347	92,079	127,594
GH-270S-220F/O4	115,848	51,291	60,749	234,922	124,525	183,969
GH-270S-240F/O4						
GH-271S-200F/O0	122,680	55,736	68,216	175,939	87,387	119,497
GH-271S-220F/O0	122,551	55,652	68,075	227,514	119,882	175,872
GH-271S-240F/O0	122,409	55,560	67,920	284,002	155,243	237,616
GH-271S-250F/O0	122,334	55,512	67,838	314,088	174,042	270,502

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0						
GH-271S-300F/O0						
GH-271S-320F/O0						
GH-271S-340F/O0						
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2	158,711	66,989	74,660	169,423	70,006	75,967
GH-271S-220F/O2	158,582	66,903	74,519	220,999	103,756	132,342
GH-271S-240F/O2	158,440	66,808	74,364	277,486	139,674	194,087
GH-271S-250F/O2	158,365	66,758	74,282	307,572	158,643	226,972
GH-271S-280F/O2						
GH-271S-300F/O2						
GH-271S-320F/O2						
GH-271S-340F/O2						
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3	169,732	74,287	86,707	157,242	61,591	62,652
GH-271S-220F/O3	169,603	74,202	86,565	208,818	95,916	119,028
GH-271S-240F/O3	169,461	74,109	86,411	265,305	131,965	180,772
GH-271S-250F/O3	169,386	74,060	86,328	295,391	150,970	213,658
GH-271S-280F/O3						
GH-271S-300F/O3						
GH-271S-320F/O3						
GH-271S-340F/O3						
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4	115,978	51,376	60,890	183,347	92,079	127,594
GH-271S-220F/O4	115,848	51,291	60,749	234,922	124,525	183,969
GH-271S-240F/O4	115,707	51,199	60,594	291,410	159,874	245,714
GH-271S-250F/O4						
GH-271S-280F/O4						
GH-271S-300F/O4						
GH-271S-320F/O4						
GH-271S-340F/O4						

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1	260,501	98,174	97,672	289,571	110,262	109,755
GH-350S-250F/O1	260,217	97,872	97,361	403,015	186,545	233,756
GH-350S-280F/O1	259,896	97,531	97,010	530,942	267,972	373,588
GH-350S-300F/O1						
GH-350S-320F/O1						
GH-350S-350F/O1						
GH-350S-380F/O1						
GH-350S-400F/O1						
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1	989	506	718	2,681	1,551	2,530
GH-065S-060F/O1						
GH-065S-050F/O2	1,618	819	1,145	2,249	1,195	1,770
GH-065S-060F/O2	1,607	811	1,133	3,761	2,139	3,423
GH-065S-070F/O2						
GH-065S-080F/O2						
GH-065S-090F/O2						
GH-065S-070F/O3						
GH-065S-050F/O4	2,043	1,070	1,558	1,831	914	1,256
GH-065S-060F/O4	2,031	1,063	1,546	3,344	1,862	2,909
GH-065S-070F/O4						
GH-085S-050F/O1	1,444	707	950	3,547	2,004	3,183
GH-085S-060F/O1	1,429	697	934	5,547	3,249	5,370
GH-085S-070F/O1	1,411	686	914	7,912	4,720	7,954
GH-085S-050F/O2	2,372	1,146	1,515	2,976	1,491	2,061
GH-085S-060F/O2	2,357	1,136	1,498	4,977	2,746	4,248
GH-085S-070F/O2	2,339	1,125	1,479	7,341	4,220	6,832
GH-085S-060F/O3	3,819	1,825	2,380	4,085	1,930	2,482
GH-085S-070F/O3	3,801	1,813	2,360	6,450	3,423	5,066
GH-085S-080F/O3	3,781	1,800	2,338	9,178	5,129	8,048
GH-085S-090F/O3						
GH-085S-050F/O4	2,703	1,326	1,787	2,701	1,283	1,662
GH-085S-060F/O4	2,688	1,317	1,771	4,701	2,544	3,849
GH-085S-070F/O4	2,670	1,305	1,751	7,066	4,019	6,433
GH-085S-080F/O4	2,649	1,292	1,729	9,794	5,718	9,415
GH-085S-090F/O4						
GH-085S-050F/O5						
GH-085S-060F/O5	4,142	2,030	2,732	3,729	1,701	2,092
GH-085S-070F/O5	4,124	2,019	2,713	6,093	3,200	4,677
GH-085S-080F/O5	4,103	2,006	2,690	8,821	4,906	7,659
GH-085S-090F/O5						
GH-085S-050F/O6						
GH-085S-060F/O6	5,053	2,458	3,278	3,178	1,007	992
GH-085S-070F/O6	5,035	2,447	3,258	5,542	2,690	3,576
GH-085S-080F/O6	5,014	2,434	3,235	8,270	4,409	6,558
GH-085S-090F/O6						
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7	6,435	3,209	4,409	4,378	1,776	1,885
GH-085S-080F/O7	6,414	3,196	4,387	7,106	3,543	4,867
GH-085S-090F/O7						
GH-100S-070F/O1	6,386	2,811	3,306	7,228	3,219	3,840
GH-100S-080F/O1	6,370	2,801	3,289	10,483	5,298	7,398
GH-100S-090F/O1						
GH-100S-110F/O1						
GH-100S-080F/O2	7,496	3,530	4,520	9,238	4,509	6,037

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2	7,477	3,518	4,500	12,926	6,835	10,069
GH-100S-110F/O2						
GH-130S-070F/O1	9,525	4,732	6,472	7,282	3,143	3,605
GH-130S-080F/O1	9,493	4,711	6,437	11,550	5,876	8,270
GH-130S-090F/O1	9,456	4,688	6,397	16,387	8,911	13,558
GH-130S-100F/O1	9,415	4,662	6,352	21,794	12,286	19,468
GH-130S-110F/O1	9,457	4,688	6,397	27,856	16,062	26,094
GH-130S-125F/O1						
GH-130S-080F/O2	11,735	5,632	7,385	10,591	4,692	5,562
GH-130S-090F/O2	11,698	5,609	7,345	15,429	7,785	10,850
GH-130S-100F/O2	11,657	5,583	7,300	20,835	11,182	16,759
GH-130S-110F/O2	11,699	5,609	7,345	26,898	14,971	23,386
GH-130S-125F/O2						
GH-130S-070F/O3	8,537	4,368	6,192	7,565	3,644	4,799
GH-130S-080F/O3	8,504	4,348	6,156	11,833	6,334	9,464
GH-130S-090F/O3	8,468	4,325	6,116	16,671	9,356	14,752
GH-130S-100F/O3	8,427	4,299	6,072	22,077	12,724	20,662
GH-130S-110F/O3	8,469	4,325	6,117	28,140	16,497	27,288
GH-130S-125F/O3						
GH-130S-080F/O4	9,611	5,044	7,366	10,610	5,567	8,128
GH-130S-090F/O4	9,574	5,021	7,326	15,448	8,593	13,415
GH-130S-100F/O4	9,534	4,995	7,281	20,854	11,963	19,325
GH-130S-110F/O4	9,575	5,021	7,327	26,917	15,737	25,951
GH-130S-125F/O4						
GH-130S-080F/O5	12,664	6,394	8,918	9,041	3,888	4,439
GH-130S-090F/O5	12,628	6,371	8,878	13,878	6,992	9,726
GH-130S-100F/O5	12,587	6,345	8,834	19,285	10,388	15,636
GH-130S-110F/O5	12,629	6,371	8,879	25,347	14,175	22,262
GH-130S-125F/O5						
GH-130S-140F/O5						
GH-130S-090F/O6	16,923	8,167	10,780	11,955	4,558	4,538
GH-130S-100F/O6	16,882	8,141	10,735	17,361	8,168	10,447
GH-130S-110F/O6	16,923	8,167	10,781	23,424	12,014	17,074
GH-130S-125F/O6	16,873	8,135	10,726	33,480	18,317	28,065
GH-130S-140F/O6						
GH-161S-110F/O2	16,357	8,538	12,388	31,708	17,954	28,588
GH-161S-110F/O3	18,997	10,193	15,273	28,790	16,134	25,399
GH-161S-110F/O4	24,449	13,134	19,705	24,309	12,816	18,812
GH-161S-110F/O5	31,446	16,495	24,071	19,894	8,781	10,359
GH-161S-125F/O2	16,294	8,498	12,319	44,663	26,022	42,749
GH-161S-125F/O3	18,934	10,154	15,204	41,745	24,206	39,560
GH-161S-125F/O4	24,386	13,094	19,636	37,265	20,913	32,974
GH-161S-125F/O5	31,383	16,455	24,002	32,850	17,032	24,521
GH-161S-140F/O2	16,224	8,454	12,241	59,273	35,109	58,719
GH-161S-140F/O3	18,863	10,110	15,127	56,355	33,294	55,529
GH-161S-140F/O4	24,315	13,050	19,558	51,874	30,015	48,943

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161S-140F/O5	31,312	16,410	23,925	47,459	26,182	40,490
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-110F/O1	32,168	16,698	24,072	29,655	14,734	20,157
GH-200S-125F/O1	32,089	16,648	23,985	45,473	24,673	37,447
GH-200S-140F/O1	31,999	16,591	23,887	63,310	35,808	56,944
GH-200S-160F/O1	31,864	16,506	23,739	90,235	52,575	86,374
GH-200S-180F/O1						
GH-200S-125F/O2	43,635	22,255	31,421	37,954	18,084	23,498
GH-200S-140F/O2	43,545	22,199	31,323	55,791	29,356	42,995
GH-200S-160F/O2	43,410	22,114	31,175	82,715	46,191	72,425
GH-200S-180F/O2						
GH-201S-200F/O3	77,231	38,006	51,386	127,488	68,515	102,843
GH-201S-160F/O7	60,086	29,653	40,232	73,557	37,294	52,278
GH-201S-200F/O7	60,213	29,733	40,370	138,627	78,021	123,403
GH-270S-200F/O0	122,680	55,736	68,216	175,939	87,387	119,497
GH-270S-220F/O0	122,551	55,652	68,075	227,514	119,882	175,872
GH-270S-240F/O0						
GH-270S-200F/O2	158,711	66,989	74,660	169,423	70,006	75,967
GH-270S-220F/O2	158,582	66,903	74,519	220,999	103,756	132,342
GH-270S-240F/O2						
GH-270S-250F/O2						
GH-270S-280F/O2						
GH-270S-220F/O3	169,603	74,202	86,565	208,818	95,916	119,028
GH-270S-250F/O3						
GH-270S-280F/O3						
GH-270S-200F/O4	115,978	51,376	60,890	183,347	92,079	127,594
GH-270S-220F/O4	115,848	51,291	60,749	234,922	124,525	183,969
GH-270S-240F/O4						
GH-271S-200F/O0	122,680	55,736	68,216	175,939	87,387	119,497
GH-271S-220F/O0	122,551	55,652	68,075	227,514	119,882	175,872
GH-271S-240F/O0	122,409	55,560	67,920	284,002	155,243	237,616
GH-271S-250F/O0	122,334	55,512	67,838	314,088	174,042	270,502

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0						
GH-271S-300F/O0						
GH-271S-320F/O0						
GH-271S-340F/O0						
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2	158,711	66,989	74,660	169,423	70,006	75,967
GH-271S-220F/O2	158,582	66,903	74,519	220,999	103,756	132,342
GH-271S-240F/O2	158,440	66,808	74,364	277,486	139,674	194,087
GH-271S-250F/O2	158,365	66,758	74,282	307,572	158,643	226,972
GH-271S-280F/O2						
GH-271S-300F/O2						
GH-271S-320F/O2						
GH-271S-340F/O2						
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3	169,732	74,287	86,707	157,242	61,591	62,652
GH-271S-220F/O3	169,603	74,202	86,565	208,818	95,916	119,028
GH-271S-240F/O3	169,461	74,109	86,411	265,305	131,965	180,772
GH-271S-250F/O3	169,386	74,060	86,328	295,391	150,970	213,658
GH-271S-280F/O3						
GH-271S-300F/O3						
GH-271S-320F/O3						
GH-271S-340F/O3						
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4	115,978	51,376	60,890	183,347	92,079	127,594
GH-271S-220F/O4	115,848	51,291	60,749	234,922	124,525	183,969
GH-271S-240F/O4	115,707	51,199	60,594	291,410	159,874	245,714
GH-271S-250F/O4						
GH-271S-280F/O4						
GH-271S-300F/O4						
GH-271S-320F/O4						
GH-271S-340F/O4						

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1	260,501	98,174	97,672	289,571	110,262	109,755
GH-350S-250F/O1	260,217	97,872	97,361	403,015	186,545	233,756
GH-350S-280F/O1	259,896	97,531	97,010	530,942	267,972	373,588
GH-350S-300F/O1						
GH-350S-320F/O1						
GH-350S-350F/O1						
GH-350S-380F/O1						
GH-350S-400F/O1						
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065S-050F/O1	989	506	718	2,854	1,659	2,719
GH-065S-060F/O1						
GH-065S-050F/O2	1,618	819	1,145	2,422	1,303	1,959
GH-065S-060F/O2						
GH-065S-070F/O2						
GH-065S-080F/O2						
GH-065S-090F/O2						
GH-065S-070F/O3						
GH-065S-050F/O4	2,043	1,070	1,558	2,005	1,023	1,446
GH-065S-060F/O4	2,031	1,063	1,546	3,593	2,017	3,182
GH-065S-070F/O4						
GH-085S-050F/O1	1,444	707	950	3,776	2,147	3,434
GH-085S-060F/O1	1,429	697	934	5,877	3,455	5,731
GH-085S-070F/O1	1,411	686	914	8,361	4,999	8,445
GH-085S-050F/O2	2,372	1,146	1,515	3,205	1,636	2,312
GH-085S-060F/O2	2,357	1,136	1,498	5,307	2,952	4,609
GH-085S-070F/O2	2,339	1,125	1,479	7,790	4,499	7,323
GH-085S-060F/O3	3,819	1,825	2,380	4,415	2,141	2,843
GH-085S-070F/O3	3,801	1,813	2,360	6,899	3,705	5,557
GH-085S-080F/O3	3,781	1,800	2,338	9,764	5,494	8,689
GH-085S-090F/O3						
GH-085S-050F/O4	2,703	1,326	1,787	2,930	1,429	1,913
GH-085S-060F/O4	2,688	1,317	1,771	5,031	2,750	4,210
GH-085S-070F/O4	2,670	1,305	1,751	7,515	4,299	6,924
GH-085S-080F/O4						
GH-085S-090F/O4						
GH-085S-050F/O5						
GH-085S-060F/O5	4,142	2,030	2,732	4,059	1,913	2,453
GH-085S-070F/O5	4,124	2,019	2,713	6,542	3,481	5,167
GH-085S-080F/O5	4,103	2,006	2,690	9,408	5,272	8,300
GH-085S-090F/O5						
GH-085S-050F/O6						
GH-085S-060F/O6	5,053	2,458	3,278	3,507	1,352	1,352
GH-085S-070F/O6	5,035	2,447	3,258	5,991	2,975	4,067
GH-085S-080F/O6	5,014	2,434	3,235	8,856	4,776	7,199
GH-085S-090F/O6						
GH-085S-050F/O7						
GH-085S-060F/O7						
GH-085S-070F/O7	6,435	3,209	4,409	4,827	2,078	2,375
GH-085S-080F/O7	6,414	3,196	4,387	7,692	3,913	5,508
GH-085S-090F/O7						
GH-100S-070F/O1	6,386	2,811	3,306	7,763	3,565	4,424
GH-100S-080F/O1	6,370	2,801	3,289	11,181	5,738	8,161
GH-100S-090F/O1						
GH-100S-110F/O1						
GH-100S-080F/O2	7,496	3,530	4,520	9,936	4,952	6,800

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100S-090F/O2	7,477	3,518	4,500	13,810	7,388	11,034
GH-100S-110F/O2						
GH-130S-070F/O1	9,525	4,732	6,472	7,984	3,603	4,373
GH-130S-080F/O1	9,493	4,711	6,437	12,467	6,454	9,273
GH-130S-090F/O1	9,456	4,688	6,397	17,548	9,637	14,827
GH-130S-100F/O1	9,415	4,662	6,352	23,227	13,180	21,035
GH-130S-110F/O1	9,457	4,688	6,397	29,591	17,142	27,990
GH-130S-125F/O1						
GH-130S-080F/O2	11,735	5,632	7,385	11,509	5,288	6,565
GH-130S-090F/O2	11,698	5,609	7,345	16,590	8,517	12,119
GH-130S-100F/O2	11,657	5,583	7,300	22,269	12,079	18,326
GH-130S-110F/O2	11,699	5,609	7,345	28,632	16,053	25,282
GH-130S-125F/O2						
GH-130S-070F/O3	8,537	4,368	6,192	8,267	4,090	5,567
GH-130S-080F/O3	8,504	4,348	6,156	12,751	6,908	10,467
GH-130S-090F/O3	8,468	4,325	6,116	17,832	10,080	16,021
GH-130S-100F/O3	8,427	4,299	6,072	23,511	13,617	22,229
GH-130S-110F/O3	8,469	4,325	6,117	29,874	17,576	29,184
GH-130S-125F/O3						
GH-130S-080F/O4	9,611	5,044	7,366	11,528	6,142	9,130
GH-130S-090F/O4	9,574	5,021	7,326	16,609	9,317	14,684
GH-130S-100F/O4	9,534	4,995	7,281	22,288	12,856	20,892
GH-130S-110F/O4	9,575	5,021	7,327	28,651	16,816	27,847
GH-130S-125F/O4						
GH-130S-080F/O5	12,664	6,394	8,918	9,958	4,489	5,442
GH-130S-090F/O5	12,628	6,371	8,878	15,039	7,724	10,995
GH-130S-100F/O5	12,587	6,345	8,834	20,718	11,285	17,203
GH-130S-110F/O5	12,629	6,371	8,879	27,081	15,257	24,158
GH-130S-125F/O5						
GH-130S-140F/O5						
GH-130S-090F/O6	16,923	8,167	10,780	13,116	5,389	5,807
GH-130S-100F/O6	16,882	8,141	10,735	18,795	9,084	12,014
GH-130S-110F/O6	16,923	8,167	10,781	25,158	13,105	18,970
GH-130S-125F/O6						
GH-130S-140F/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
METRIC

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	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-110F/O1	32,168	16,698	24,072	32,383	16,458	23,139
GH-200S-125F/O1	32,089	16,648	23,985	48,996	26,876	41,298
GH-200S-140F/O1	31,999	16,591	23,887	67,730	38,562	61,775
GH-200S-160F/O1	31,864	16,506	23,739	96,007	56,166	92,684
GH-200S-180F/O1						
GH-200S-125F/O2	43,635	22,255	31,421	41,477	20,329	27,349
GH-200S-140F/O2	43,545	22,199	31,323	60,211	32,126	47,826
GH-200S-160F/O2	43,410	22,114	31,175	88,488	49,791	78,735
GH-200S-180F/O2						
GH-201S-200F/O3	77,231	38,006	51,386	136,508	74,157	112,703
GH-201S-160F/O7	60,086	29,653	40,232	79,330	40,932	58,588
GH-201S-200F/O7	60,213	29,733	40,370	147,647	83,647	133,262
GH-270S-200F/O0	122,680	55,736	68,216	188,250	95,172	132,953
GH-270S-220F/O0	122,551	55,652	68,075	242,410	129,218	192,154
GH-270S-240F/O0						
GH-270S-200F/O2	158,711	66,989	74,660	181,734	78,240	89,423
GH-270S-220F/O2	158,582	66,903	74,519	235,895	113,285	148,625
GH-270S-240F/O2						
GH-270S-250F/O2						
GH-270S-280F/O2						
GH-270S-220F/O3	169,603	74,202	86,565	223,714	105,495	135,310
GH-270S-250F/O3						
GH-270S-280F/O3						
GH-270S-200F/O4	115,978	51,376	60,890	195,657	99,845	141,050
GH-270S-220F/O4	115,848	51,291	60,749	249,818	133,860	200,251
GH-270S-240F/O4						
GH-271S-200F/O0	122,680	55,736	68,216	188,250	95,172	132,953
GH-271S-220F/O0	122,551	55,652	68,075	242,410	129,218	192,154
GH-271S-240F/O0	122,409	55,560	67,920	301,729	166,324	256,993
GH-271S-250F/O0						

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-280F/O0						
GH-271S-300F/O0						
GH-271S-320F/O0						
GH-271S-340F/O0						
GH-271S-360F/O0						
GH-271S-380F/O0						
GH-271S-400F/O0						
GH-271S-420F/O0						
GH-271S-440F/O0						
GH-271S-460F/O0						
GH-271S-200F/O2	158,711	66,989	74,660	181,734	78,240	89,423
GH-271S-220F/O2	158,582	66,903	74,519	235,895	113,285	148,625
GH-271S-240F/O2	158,440	66,808	74,364	295,214	150,858	213,464
GH-271S-250F/O2						
GH-271S-280F/O2						
GH-271S-300F/O2						
GH-271S-320F/O2						
GH-271S-340F/O2						
GH-271S-360F/O2						
GH-271S-380F/O2						
GH-271S-400F/O2						
GH-271S-420F/O2						
GH-271S-440F/O2						
GH-271S-460F/O2						
GH-271S-200F/O3	169,732	74,287	86,707	169,553	70,094	76,109
GH-271S-220F/O3	169,603	74,202	86,565	223,714	105,495	135,310
GH-271S-240F/O3	169,461	74,109	86,411	283,033	143,173	200,149
GH-271S-250F/O3	169,386	74,060	86,328	314,626	163,078	234,683
GH-271S-280F/O3						
GH-271S-300F/O3						
GH-271S-320F/O3						
GH-271S-340F/O3						
GH-271S-360F/O3						
GH-271S-380F/O3						
GH-271S-400F/O3						
GH-271S-420F/O3						
GH-271S-440F/O3						
GH-271S-460F/O3						
GH-271S-200F/O4	115,978	51,376	60,890	195,657	99,845	141,050
GH-271S-220F/O4	115,848	51,291	60,749	249,818	133,860	200,251
GH-271S-240F/O4	115,707	51,199	60,594	309,137	170,954	265,091
GH-271S-250F/O4						
GH-271S-280F/O4						
GH-271S-300F/O4						
GH-271S-320F/O4						
GH-271S-340F/O4						

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271S-360F/O4						
GH-271S-380F/O4						
GH-271S-400F/O4						
GH-271S-420F/O4						
GH-271S-440F/O4						
GH-271S-460F/O4						
GH-350S-220F/O1	260,501	98,174	97,672	309,090	124,578	131,091
GH-350S-250F/O1	260,217	97,872	97,361	428,221	202,726	261,308
GH-350S-280F/O1	259,896	97,531	97,010	562,560	287,920	408,149
GH-350S-300F/O1						
GH-350S-320F/O1						
GH-350S-350F/O1						
GH-350S-380F/O1						
GH-350S-400F/O1						
GH-350S-420F/O1						
GH-350S-440F/O1						
GH-350S-460F/O1						
GH-350S-480F/O1						
GH-350S-500F/O1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	130 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045F/D1	2,829	1,104	1,567	1,216	886	2,501
GH-065C-050F/D1	3,493	1,364	1,935	1,573	1,146	3,234
GH-065C-060F/D1						
GH-065C-070F/D1						
GH-065C-080F/D1						
GH-065C-090F/D1						
GH-065C-100F/D1						
GH-065C-110F/D1						
GH-065C-125F/D1						
GH-085C-045F/D1	3,743	1,461	2,073	1,609	1,172	3,308
GH-085C-050F/D1	4,621	1,804	2,560	2,081	1,516	4,278
GH-085C-060F/D1	6,655	2,598	3,686	2,344	1,708	4,820
GH-085C-070F/D1	9,058	3,537	5,017	3,636	2,648	7,475
GH-085C-080F/D1						
GH-085C-090F/D1						
GH-085C-100F/D1						
GH-085C-110F/D1						
GH-085C-125F/D1						
GH-085C-140F/D1						
GH-085C-160F/D1						
GH-100C-050F/D1	5,499	2,147	3,046	1,490	1,085	3,063
GH-100C-060F/D1	7,919	3,092	4,386	2,790	2,032	5,736
GH-100C-070F/D1	10,779	4,209	5,971	4,327	3,152	8,895
GH-100C-080F/D1						
GH-100C-090F/D1						
GH-100C-100F/D1						
GH-100C-110F/D1						
GH-100C-125F/D1						
GH-100C-140F/D1						
GH-100C-160F/D1						
GH-100C-180F/D1						
GH-100C-200F/D1						
GH-130C-050F/D1	7,230	2,823	4,005	1,959	1,427	4,027
GH-130C-060F/D1	10,412	4,065	5,767	3,668	2,672	7,542
GH-130C-070F/D1	14,172	5,534	7,850	5,689	4,144	11,696
GH-130C-080F/D1	18,510	7,228	10,254	8,020	5,842	16,488
GH-130C-090F/D1	23,427	9,148	12,977	10,662	7,767	21,920
GH-130C-100F/D1	28,923	11,294	16,021	13,615	9,918	27,990
GH-130C-110F/D1						
GH-130C-125F/D1						
GH-130C-140F/D1						
GH-130C-160F/D1						
GH-130C-180F/D1						
GH-130C-200F/D1						
GH-130C-210F/D1						
GH-130C-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	130 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-240F/D1						
GH-161C-110F/D1	35,998	14,057	19,941	15,380	11,204	31,619
GH-161C-125F/D1	43,727	17,075	24,222	19,533	14,229	40,157
GH-161C-140F/D1	56,466	22,049	31,279	26,378	19,216	54,229
GH-161C-160F/D1						
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090F/D1	36,852	14,390	20,414	14,793	10,776	30,413
GH-200C-100F/D1	45,497	17,765	25,202	19,438	14,160	39,962
GH-200C-110F/D1	55,266	21,580	30,614	24,687	17,984	50,753
GH-200C-125F/D1	71,366	27,867	39,532	29,443	21,448	60,530
GH-200C-140F/D1	89,521	34,956	49,590	39,198	28,555	80,586
GH-200C-160F/D1						
GH-200C-180F/D1						
GH-200C-200F/D1						
GH-200C-210F/D1						
GH-200C-220F/D1						
GH-200C-230F/D1						
GH-200C-240F/D1						
GH-200C-260F/D1						
GH-200C-280F/D1						
GH-200C-300F/D1						
GH-200C-320F/D1						
GH-200C-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	130 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201C-110F/D1	55,266	21,580	30,614	24,687	17,984	50,753
GH-201C-125F/D1	71,366	27,867	39,532	29,443	21,448	60,530
GH-201C-140F/D1	89,521	34,956	49,590	39,198	28,555	80,586
GH-201C-160F/D1	116,926	45,657	64,770	53,924	39,282	110,859
GH-201C-180F/D1	147,985	57,785	81,975	70,612	51,439	145,168
GH-201C-200F/D1						
GH-201C-210F/D1						
GH-201C-220F/D1						
GH-201C-240F/D1						
GH-201C-260F/D1						
GH-201C-280F/D1						
GH-201C-300F/D1						
GH-201C-320F/D1						
GH-201C-340F/D1						
GH-201C-360F/D1						
GH-201C-380F/D1						
GH-270C-125F/D1	97,780	38,181	54,165	36,000	26,225	74,010
GH-270C-140F/D1	122,656	47,894	67,944	49,366	35,962	101,489
GH-270C-160F/D1	160,203	62,556	88,743	69,541	50,659	142,966
GH-270C-180F/D1	202,758	79,173	112,316	92,407	67,316	189,974
GH-270C-200F/D1						
GH-270C-220F/D1						
GH-270C-240F/D1						
GH-270C-250F/D1						
GH-270C-280F/D1						
GH-270C-300F/D1						
GH-270C-320F/D1						
GH-270C-340F/D1						
GH-270C-360F/D1						
GH-270C-380F/D1						
GH-270C-400F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	130 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-140F/D1	122,656	47,894	67,944	49,366	35,962	101,489
GH-271C-160F/D1	160,203	62,556	88,743	69,541	50,659	142,966
GH-271C-180F/D1	202,758	79,173	112,316	92,407	67,316	189,974
GH-271C-200F/D1	250,318	97,744	138,662	117,963	85,933	242,512
GH-271C-220F/D1	302,885	118,270	167,781	146,208	106,509	300,581
GH-271C-240F/D1						
GH-271C-250F/D1						
GH-271C-280F/D1						
GH-271C-300F/D1						
GH-271C-320F/D1						
GH-271C-340F/D1						
GH-271C-360F/D1						
GH-271C-380F/D1						
GH-271C-400F/D1						
GH-271C-420F/D1						
GH-350C-160F/D1	209,929	81,973	116,288	84,491	61,550	173,701
GH-350C-180F/D1	265,691	103,747	147,178	114,454	83,377	235,299
GH-350C-200F/D1	328,014	128,083	181,701	147,942	107,772	304,145
GH-350C-220F/D1	396,897	154,980	219,858	184,955	134,735	380,237
GH-350C-250F/D1	512,522	200,130	283,908	247,083	179,994	507,963
GH-350C-280F/D1						
GH-350C-300F/D1						
GH-350C-320F/D1						
GH-350C-350F/D1						
GH-350C-380F/D1						
GH-350C-400F/D1						
GH-350C-440F/D1						
GH-350C-460F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	140 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045F/D1	3,049	1,190	1,689	1,311	955	2,696
GH-065C-050F/D1	3,765	1,470	2,085	1,696	1,235	3,486
GH-065C-060F/D1						
GH-065C-070F/D1						
GH-065C-080F/D1						
GH-065C-090F/D1						
GH-065C-100F/D1						
GH-065C-110F/D1						
GH-065C-125F/D1						
GH-085C-045F/D1	4,034	1,575	2,235	1,735	1,264	3,567
GH-085C-050F/D1	4,981	1,945	2,759	2,243	1,634	4,612
GH-085C-060F/D1	7,173	2,800	3,973	2,528	1,841	5,198
GH-085C-070F/D1	9,763	3,812	5,408	3,920	2,855	8,059
GH-085C-080F/D1						
GH-085C-090F/D1						
GH-085C-100F/D1						
GH-085C-110F/D1						
GH-085C-125F/D1						
GH-085C-140F/D1						
GH-085C-160F/D1						
GH-100C-050F/D1	5,927	2,314	3,283	1,607	1,171	3,304
GH-100C-060F/D1	8,535	3,333	4,728	3,008	2,191	6,185
GH-100C-070F/D1	11,618	4,536	6,435	4,665	3,398	9,590
GH-100C-080F/D1						
GH-100C-090F/D1						
GH-100C-100F/D1						
GH-100C-110F/D1						
GH-100C-125F/D1						
GH-100C-140F/D1						
GH-100C-160F/D1						
GH-100C-180F/D1						
GH-100C-200F/D1						
GH-130C-050F/D1	7,793	3,043	4,317	2,113	1,539	4,345
GH-130C-060F/D1	11,222	4,382	6,216	3,956	2,881	8,133
GH-130C-070F/D1	15,275	5,964	8,461	6,133	4,468	12,609
GH-130C-080F/D1	19,951	7,790	11,051	8,646	6,298	17,775
GH-130C-090F/D1	25,251	9,860	13,987	11,493	8,373	23,629
GH-130C-100F/D1	31,174	12,172	17,268	14,676	10,691	30,172
GH-130C-110F/D1						
GH-130C-125F/D1						
GH-130C-140F/D1						
GH-130C-160F/D1						
GH-130C-180F/D1						
GH-130C-200F/D1						
GH-130C-210F/D1						
GH-130C-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	140 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-240F/D1						
GH-161C-110F/D1	38,799	15,150	21,493	16,581	12,079	34,087
GH-161C-125F/D1	47,117	18,398	26,100	21,050	15,334	43,275
GH-161C-140F/D1	60,843	23,758	33,704	28,425	20,707	58,437
GH-161C-160F/D1						
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090F/D1	39,720	15,510	22,003	15,949	11,618	32,789
GH-200C-100F/D1	49,038	19,148	27,164	20,955	15,265	43,082
GH-200C-110F/D1	59,550	23,253	32,987	26,604	19,380	54,694
GH-200C-125F/D1	76,898	30,027	42,597	31,731	23,115	65,234
GH-200C-140F/D1	96,461	37,666	53,434	42,242	30,773	86,844
GH-200C-160F/D1						
GH-200C-180F/D1						
GH-200C-200F/D1						
GH-200C-210F/D1						
GH-200C-220F/D1						
GH-200C-230F/D1						
GH-200C-240F/D1						
GH-200C-260F/D1						
GH-200C-280F/D1						
GH-200C-300F/D1						
GH-200C-320F/D1						
GH-200C-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	140 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201C-110F/D1	59,550	23,253	32,987	26,604	19,380	54,694
GH-201C-125F/D1	76,898	30,027	42,597	31,731	23,115	65,234
GH-201C-140F/D1	96,461	37,666	53,434	42,242	30,773	86,844
GH-201C-160F/D1	125,990	49,196	69,791	58,109	42,331	119,464
GH-201C-180F/D1						
GH-201C-200F/D1						
GH-201C-210F/D1						
GH-201C-220F/D1						
GH-201C-240F/D1						
GH-201C-260F/D1						
GH-201C-280F/D1						
GH-201C-300F/D1						
GH-201C-320F/D1						
GH-201C-340F/D1						
GH-201C-360F/D1						
GH-201C-380F/D1						
GH-270C-125F/D1	105,331	41,129	58,347	38,784	28,253	79,735
GH-270C-140F/D1	132,127	51,593	73,191	53,183	38,742	109,336
GH-270C-160F/D1	172,574	67,387	95,596	74,916	54,575	154,016
GH-270C-180F/D1	218,415	85,286	120,989	99,548	72,518	204,654
GH-270C-200F/D1						
GH-270C-220F/D1						
GH-270C-240F/D1						
GH-270C-250F/D1						
GH-270C-280F/D1						
GH-270C-300F/D1						
GH-270C-320F/D1						
GH-270C-340F/D1						
GH-270C-360F/D1						
GH-270C-380F/D1						
GH-270C-400F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	140 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-140F/D1	132,127	51,593	73,191	53,183	38,742	109,336
GH-271C-160F/D1	172,574	67,387	95,596	74,916	54,575	154,016
GH-271C-180F/D1	218,415	85,286	120,989	99,548	72,518	204,654
GH-271C-200F/D1	269,648	105,292	149,369	127,077	92,572	261,249
GH-271C-220F/D1						
GH-271C-240F/D1						
GH-271C-250F/D1						
GH-271C-280F/D1						
GH-271C-300F/D1						
GH-271C-320F/D1						
GH-271C-340F/D1						
GH-271C-360F/D1						
GH-271C-380F/D1						
GH-271C-400F/D1						
GH-271C-420F/D1						
GH-350C-160F/D1	226,139	88,303	125,268	91,024	66,309	187,131
GH-350C-180F/D1	286,208	111,758	158,543	123,301	89,821	253,486
GH-350C-200F/D1	353,343	137,973	195,732	159,374	116,100	327,648
GH-350C-220F/D1	427,545	166,948	236,836	199,245	145,145	409,616
GH-350C-250F/D1	552,099	215,584	305,831	266,172	193,899	547,205
GH-350C-280F/D1						
GH-350C-300F/D1						
GH-350C-320F/D1						
GH-350C-350F/D1						
GH-350C-380F/D1						
GH-350C-400F/D1						
GH-350C-440F/D1						
GH-350C-460F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	160 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045F/D1	3,490	1,362	1,933	1,501	1,093	3,086
GH-065C-050F/D1						
GH-065C-060F/D1						
GH-065C-070F/D1						
GH-065C-080F/D1						
GH-065C-090F/D1						
GH-065C-100F/D1						
GH-065C-110F/D1						
GH-065C-125F/D1						
GH-085C-045F/D1	4,617	1,803	2,557	1,986	1,447	4,083
GH-085C-050F/D1	5,700	2,225	3,157	2,568	1,870	5,280
GH-085C-060F/D1	8,208	3,205	4,547	2,895	2,109	5,953
GH-085C-070F/D1						
GH-085C-080F/D1						
GH-085C-090F/D1						
GH-085C-100F/D1						
GH-085C-110F/D1						
GH-085C-125F/D1						
GH-085C-140F/D1						
GH-085C-160F/D1						
GH-100C-050F/D1	6,783	2,648	3,757	1,842	1,341	3,787
GH-100C-060F/D1	9,768	3,814	5,411	3,445	2,510	7,084
GH-100C-070F/D1	13,295	5,191	7,365	5,341	3,891	10,980
GH-100C-080F/D1						
GH-100C-090F/D1						
GH-100C-100F/D1						
GH-100C-110F/D1						
GH-100C-125F/D1						
GH-100C-140F/D1						
GH-100C-160F/D1						
GH-100C-180F/D1						
GH-100C-200F/D1						
GH-130C-050F/D1	8,918	3,482	4,940	2,421	1,764	4,979
GH-130C-060F/D1	12,843	5,015	7,114	4,530	3,300	9,314
GH-130C-070F/D1	17,481	6,826	9,683	7,022	5,115	14,437
GH-130C-080F/D1	22,832	8,915	12,647	9,898	7,210	20,348
GH-130C-090F/D1	28,897	11,283	16,007	13,156	9,584	27,048
GH-130C-100F/D1						
GH-130C-110F/D1						
GH-130C-125F/D1						
GH-130C-140F/D1						
GH-130C-160F/D1						
GH-130C-180F/D1						
GH-130C-200F/D1						
GH-130C-210F/D1						
GH-130C-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	160 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-240F/D1						
GH-161C-110F/D1	44,402	17,338	24,596	18,982	13,828	39,023
GH-161C-125F/D1	53,896	21,045	29,855	24,083	17,544	49,510
GH-161C-140F/D1						
GH-161C-160F/D1						
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090F/D1	45,456	17,749	25,180	18,261	13,302	37,541
GH-200C-100F/D1	56,119	21,913	31,086	23,990	17,476	49,320
GH-200C-110F/D1	68,118	26,599	37,733	30,438	22,173	62,575
GH-200C-125F/D1	87,963	34,347	48,726	36,306	26,448	74,640
GH-200C-140F/D1						
GH-200C-160F/D1						
GH-200C-180F/D1						
GH-200C-200F/D1						
GH-200C-210F/D1						
GH-200C-220F/D1						
GH-200C-230F/D1						
GH-200C-240F/D1						
GH-200C-260F/D1						
GH-200C-280F/D1						
GH-200C-300F/D1						
GH-200C-320F/D1						
GH-200C-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	160 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201C-110F/D1	68,118	26,599	37,733	30,438	22,173	62,575
GH-201C-125F/D1	87,963	34,347	48,726	36,306	26,448	74,640
GH-201C-140F/D1	110,340	43,085	61,122	48,330	35,207	99,360
GH-201C-160F/D1	144,118	56,275	79,833	66,480	48,429	136,673
GH-201C-180F/D1						
GH-201C-200F/D1						
GH-201C-210F/D1						
GH-201C-220F/D1						
GH-201C-240F/D1						
GH-201C-260F/D1						
GH-201C-280F/D1						
GH-201C-300F/D1						
GH-201C-320F/D1						
GH-201C-340F/D1						
GH-201C-360F/D1						
GH-201C-380F/D1						
GH-270C-125F/D1	120,432	47,026	66,712	44,354	32,311	91,185
GH-270C-140F/D1	151,070	58,990	83,684	60,817	44,303	125,030
GH-270C-160F/D1	197,316	77,048	109,302	85,666	62,406	176,116
GH-270C-180F/D1	249,729	97,514	138,335	113,829	82,921	234,014
GH-270C-200F/D1						
GH-270C-220F/D1						
GH-270C-240F/D1						
GH-270C-250F/D1						
GH-270C-280F/D1						
GH-270C-300F/D1						
GH-270C-320F/D1						
GH-270C-340F/D1						
GH-270C-360F/D1						
GH-270C-380F/D1						
GH-270C-400F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	160 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-140F/D1	151,070	58,990	83,684	60,817	44,303	125,030
GH-271C-160F/D1	197,316	77,048	109,302	85,666	62,406	176,116
GH-271C-180F/D1	249,729	97,514	138,335	113,829	82,921	234,014
GH-271C-200F/D1	308,307	120,388	170,784	145,305	105,851	298,723
GH-271C-220F/D1						
GH-271C-240F/D1						
GH-271C-250F/D1						
GH-271C-280F/D1						
GH-271C-300F/D1						
GH-271C-320F/D1						
GH-271C-340F/D1						
GH-271C-360F/D1						
GH-271C-380F/D1						
GH-271C-400F/D1						
GH-271C-420F/D1						
GH-350C-160F/D1	258,561	100,963	143,228	104,090	75,827	213,992
GH-350C-180F/D1	327,241	127,781	181,273	140,994	102,711	289,861
GH-350C-200F/D1	404,001	157,754	223,794	182,239	132,757	374,655
GH-350C-220F/D1	488,842	190,883	270,791	227,827	165,966	468,375
GH-350C-250F/D1						
GH-350C-280F/D1						
GH-350C-300F/D1						
GH-350C-320F/D1						
GH-350C-350F/D1						
GH-350C-380F/D1						
GH-350C-400F/D1						
GH-350C-440F/D1						
GH-350C-460F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	180 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045F/D1	3,930	1,534	2,177	1,691	1,232	3,477
GH-065C-050F/D1						
GH-065C-060F/D1						
GH-065C-070F/D1						
GH-065C-080F/D1						
GH-065C-090F/D1						
GH-065C-100F/D1						
GH-065C-110F/D1						
GH-065C-125F/D1						
GH-085C-045F/D1	5,200	2,030	2,880	2,237	1,630	4,600
GH-085C-050F/D1	6,419	2,506	3,556	2,893	2,107	5,947
GH-085C-060F/D1	9,244	3,609	5,121	3,262	2,376	6,708
GH-085C-070F/D1						
GH-085C-080F/D1						
GH-085C-090F/D1						
GH-085C-100F/D1						
GH-085C-110F/D1						
GH-085C-125F/D1						
GH-085C-140F/D1						
GH-085C-160F/D1						
GH-100C-050F/D1	7,639	2,983	4,231	2,076	1,512	4,269
GH-100C-060F/D1	11,001	4,295	6,093	3,882	2,828	7,982
GH-100C-070F/D1						
GH-100C-080F/D1						
GH-100C-090F/D1						
GH-100C-100F/D1						
GH-100C-110F/D1						
GH-100C-125F/D1						
GH-100C-140F/D1						
GH-100C-160F/D1						
GH-100C-180F/D1						
GH-100C-200F/D1						
GH-130C-050F/D1	10,044	3,922	5,564	2,730	1,988	5,613
GH-130C-060F/D1	14,463	5,647	8,012	5,105	3,718	10,495
GH-130C-070F/D1	19,686	7,687	10,905	7,911	5,763	16,264
GH-130C-080F/D1	25,713	10,040	14,243	11,149	8,122	22,922
GH-130C-090F/D1	32,543	12,707	18,027	14,819	10,795	30,467
GH-130C-100F/D1						
GH-130C-110F/D1						
GH-130C-125F/D1						
GH-130C-140F/D1						
GH-130C-160F/D1						
GH-130C-180F/D1						
GH-130C-200F/D1						
GH-130C-210F/D1						
GH-130C-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	180 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-240F/D1						
GH-161C-110F/D1	50,005	19,526	27,700	21,382	15,577	43,959
GH-161C-125F/D1	60,675	23,693	33,611	27,116	19,753	55,746
GH-161C-140F/D1						
GH-161C-160F/D1						
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090F/D1	51,192	19,989	28,357	20,572	14,986	42,293
GH-200C-100F/D1	63,200	24,678	35,009	27,024	19,687	55,558
GH-200C-110F/D1	76,686	29,944	42,480	34,271	24,965	70,456
GH-200C-125F/D1	99,027	38,668	54,855	40,882	29,781	84,047
GH-200C-140F/D1						
GH-200C-160F/D1						
GH-200C-180F/D1						
GH-200C-200F/D1						
GH-200C-210F/D1						
GH-200C-220F/D1						
GH-200C-230F/D1						
GH-200C-240F/D1						
GH-200C-260F/D1						
GH-200C-280F/D1						
GH-200C-300F/D1						
GH-200C-320F/D1						
GH-200C-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	180 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201C-110F/D1	76,686	29,944	42,480	34,271	24,965	70,456
GH-201C-125F/D1	99,027	38,668	54,855	40,882	29,781	84,047
GH-201C-140F/D1	124,220	48,505	68,811	54,418	39,642	111,876
GH-201C-160F/D1						
GH-201C-180F/D1						
GH-201C-200F/D1						
GH-201C-210F/D1						
GH-201C-220F/D1						
GH-201C-240F/D1						
GH-201C-260F/D1						
GH-201C-280F/D1						
GH-201C-300F/D1						
GH-201C-320F/D1						
GH-201C-340F/D1						
GH-201C-360F/D1						
GH-201C-380F/D1						
GH-270C-125F/D1	135,533	52,923	75,078	49,924	36,368	102,636
GH-270C-140F/D1	170,013	66,387	94,178	68,451	49,865	140,724
GH-270C-160F/D1	222,058	86,709	123,008	96,416	70,237	198,216
GH-270C-180F/D1						
GH-270C-200F/D1						
GH-270C-220F/D1						
GH-270C-240F/D1						
GH-270C-250F/D1						
GH-270C-280F/D1						
GH-270C-300F/D1						
GH-270C-320F/D1						
GH-270C-340F/D1						
GH-270C-360F/D1						
GH-270C-380F/D1						
GH-270C-400F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	180 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-140F/D1	170,013	66,387	94,178	68,451	49,865	140,724
GH-271C-160F/D1	222,058	86,709	123,008	96,416	70,237	198,216
GH-271C-180F/D1	281,043	109,741	155,682	128,110	93,325	263,374
GH-271C-200F/D1						
GH-271C-220F/D1						
GH-271C-240F/D1						
GH-271C-250F/D1						
GH-271C-280F/D1						
GH-271C-300F/D1						
GH-271C-320F/D1						
GH-271C-340F/D1						
GH-271C-360F/D1						
GH-271C-380F/D1						
GH-271C-400F/D1						
GH-271C-420F/D1						
GH-350C-160F/D1	290,982	113,623	161,188	117,156	85,345	240,853
GH-350C-180F/D1	368,274	143,804	204,003	158,687	115,600	326,235
GH-350C-200F/D1	454,660	177,536	251,856	205,105	149,414	421,662
GH-350C-220F/D1	550,139	214,818	304,746	256,408	186,787	527,133
GH-350C-250F/D1						
GH-350C-280F/D1						
GH-350C-300F/D1						
GH-350C-320F/D1						
GH-350C-350F/D1						
GH-350C-380F/D1						
GH-350C-400F/D1						
GH-350C-440F/D1						
GH-350C-460F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	200 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045F/D1						
GH-065C-050F/D1						
GH-065C-060F/D1						
GH-065C-070F/D1						
GH-065C-080F/D1						
GH-065C-090F/D1						
GH-065C-100F/D1						
GH-065C-110F/D1						
GH-065C-125F/D1						
GH-085C-045F/D1	5,782	2,258	3,203	2,488	1,813	5,116
GH-085C-050F/D1	7,139	2,787	3,954	3,217	2,344	6,615
GH-085C-060F/D1						
GH-085C-070F/D1						
GH-085C-080F/D1						
GH-085C-090F/D1						
GH-085C-100F/D1						
GH-085C-110F/D1						
GH-085C-125F/D1						
GH-085C-140F/D1						
GH-085C-160F/D1						
GH-100C-050F/D1	8,495	3,317	4,706	2,311	1,683	4,751
GH-100C-060F/D1	12,233	4,777	6,776	4,319	3,146	8,880
GH-100C-070F/D1						
GH-100C-080F/D1						
GH-100C-090F/D1						
GH-100C-100F/D1						
GH-100C-110F/D1						
GH-100C-125F/D1						
GH-100C-140F/D1						
GH-100C-160F/D1						
GH-100C-180F/D1						
GH-100C-200F/D1						
GH-130C-050F/D1	11,169	4,361	6,187	3,038	2,213	6,247
GH-130C-060F/D1	16,084	6,280	8,909	5,679	4,137	11,676
GH-130C-070F/D1	21,892	8,548	12,127	8,800	6,410	18,092
GH-130C-080F/D1	28,594	11,165	15,839	12,401	9,034	25,495
GH-130C-090F/D1						
GH-130C-100F/D1						
GH-130C-110F/D1						
GH-130C-125F/D1						
GH-130C-140F/D1						
GH-130C-160F/D1						
GH-130C-180F/D1						
GH-130C-200F/D1						
GH-130C-210F/D1						
GH-130C-220F/D1						

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

Model Number	200 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-240F/D1						
GH-161C-110F/D1	55,608	21,714	30,804	23,783	17,326	48,895
GH-161C-125F/D1						
GH-161C-140F/D1						
GH-161C-160F/D1						
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090F/D1	56,928	22,229	31,535	22,884	16,670	47,046
GH-200C-100F/D1	70,281	27,443	38,932	30,059	21,897	61,797
GH-200C-110F/D1	85,255	33,290	47,226	38,105	27,758	78,337
GH-200C-125F/D1						
GH-200C-140F/D1						
GH-200C-160F/D1						
GH-200C-180F/D1						
GH-200C-200F/D1						
GH-200C-210F/D1						
GH-200C-220F/D1						
GH-200C-230F/D1						
GH-200C-240F/D1						
GH-200C-260F/D1						
GH-200C-280F/D1						
GH-200C-300F/D1						
GH-200C-320F/D1						
GH-200C-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	200 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201C-110F/D1	85,255	33,290	47,226	38,105	27,758	78,337
GH-201C-125F/D1	110,092	42,988	60,984	45,457	33,114	93,453
GH-201C-140F/D1	138,099	53,925	76,499	60,506	44,077	124,392
GH-201C-160F/D1						
GH-201C-180F/D1						
GH-201C-200F/D1						
GH-201C-210F/D1						
GH-201C-220F/D1						
GH-201C-240F/D1						
GH-201C-260F/D1						
GH-201C-280F/D1						
GH-201C-300F/D1						
GH-201C-320F/D1						
GH-201C-340F/D1						
GH-201C-360F/D1						
GH-201C-380F/D1						
GH-270C-125F/D1	150,635	58,820	83,443	55,494	40,426	114,086
GH-270C-140F/D1	188,956	73,783	104,671	76,085	55,426	156,418
GH-270C-160F/D1	246,800	96,370	136,713	107,166	78,068	220,316
GH-270C-180F/D1						
GH-270C-200F/D1						
GH-270C-220F/D1						
GH-270C-240F/D1						
GH-270C-250F/D1						
GH-270C-280F/D1						
GH-270C-300F/D1						
GH-270C-320F/D1						
GH-270C-340F/D1						
GH-270C-360F/D1						
GH-270C-380F/D1						
GH-270C-400F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	200 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-140F/D1	188,956	73,783	104,671	76,085	55,426	156,418
GH-271C-160F/D1	246,800	96,370	136,713	107,166	78,068	220,316
GH-271C-180F/D1	312,357	121,969	173,028	142,391	103,729	292,734
GH-271C-200F/D1						
GH-271C-220F/D1						
GH-271C-240F/D1						
GH-271C-250F/D1						
GH-271C-280F/D1						
GH-271C-300F/D1						
GH-271C-320F/D1						
GH-271C-340F/D1						
GH-271C-360F/D1						
GH-271C-380F/D1						
GH-271C-400F/D1						
GH-271C-420F/D1						
GH-350C-160F/D1	323,404	126,283	179,147	130,221	94,863	267,714
GH-350C-180F/D1	409,308	159,827	226,733	176,380	128,489	362,609
GH-350C-200F/D1	505,319	197,317	279,918	227,970	166,070	468,668
GH-350C-220F/D1						
GH-350C-250F/D1						
GH-350C-280F/D1						
GH-350C-300F/D1						
GH-350C-320F/D1						
GH-350C-350F/D1						
GH-350C-380F/D1						
GH-350C-400F/D1						
GH-350C-440F/D1						
GH-350C-460F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	207 BAR					
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-045F/D1						
GH-065C-050F/D1						
GH-065C-060F/D1						
GH-065C-070F/D1						
GH-065C-080F/D1						
GH-065C-090F/D1						
GH-065C-100F/D1						
GH-065C-110F/D1						
GH-065C-125F/D1						
GH-085C-045F/D1	5,986	2,337	3,316	2,576	1,877	5,297
GH-085C-050F/D1	7,390	2,886	4,094	3,331	2,426	6,848
GH-085C-060F/D1						
GH-085C-070F/D1						
GH-085C-080F/D1						
GH-085C-090F/D1						
GH-085C-100F/D1						
GH-085C-110F/D1						
GH-085C-125F/D1						
GH-085C-140F/D1						
GH-085C-160F/D1						
GH-100C-050F/D1	8,795	3,434	4,872	2,393	1,743	4,920
GH-100C-060F/D1	12,665	4,945	7,015	4,472	3,258	9,195
GH-100C-070F/D1						
GH-100C-080F/D1						
GH-100C-090F/D1						
GH-100C-100F/D1						
GH-100C-110F/D1						
GH-100C-125F/D1						
GH-100C-140F/D1						
GH-100C-160F/D1						
GH-100C-180F/D1						
GH-100C-200F/D1						
GH-130C-050F/D1	11,563	4,515	6,405	3,146	2,292	6,469
GH-130C-060F/D1	16,651	6,502	9,224	5,880	4,283	12,089
GH-130C-070F/D1	22,664	8,850	12,555	9,111	6,637	18,732
GH-130C-080F/D1	29,603	11,559	16,398	12,839	9,353	26,396
GH-130C-090F/D1						
GH-130C-100F/D1						
GH-130C-110F/D1						
GH-130C-125F/D1						
GH-130C-140F/D1						
GH-130C-160F/D1						
GH-130C-180F/D1						
GH-130C-200F/D1						
GH-130C-210F/D1						
GH-130C-220F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	207 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-130C-240F/D1						
GH-161C-110F/D1	57,569	22,480	31,890	24,624	17,938	50,622
GH-161C-125F/D1						
GH-161C-140F/D1						
GH-161C-160F/D1						
GH-161C-180F/D1						
GH-161C-200F/D1						
GH-161C-210F/D1						
GH-161C-210F/D1						
GH-161C-220F/D1						
GH-161C-230F/D1						
GH-161C-260F/D1						
GH-200C-090F/D1	58,935	23,013	32,647	23,693	17,259	48,709
GH-200C-100F/D1	72,760	28,411	40,305	31,121	22,671	63,980
GH-200C-110F/D1	88,254	34,461	48,887	39,446	28,736	81,096
GH-200C-125F/D1						
GH-200C-140F/D1						
GH-200C-160F/D1						
GH-200C-180F/D1						
GH-200C-200F/D1						
GH-200C-210F/D1						
GH-200C-220F/D1						
GH-200C-230F/D1						
GH-200C-240F/D1						
GH-200C-260F/D1						
GH-200C-280F/D1						
GH-200C-300F/D1						
GH-200C-320F/D1						
GH-200C-340F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	207 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-201C-110F/D1	88,254	34,461	48,887	39,446	28,736	81,096
GH-201C-125F/D1	113,964	44,501	63,130	47,059	34,281	96,745
GH-201C-140F/D1	142,957	55,822	79,190	62,637	45,630	128,772
GH-201C-160F/D1						
GH-201C-180F/D1						
GH-201C-200F/D1						
GH-201C-210F/D1						
GH-201C-220F/D1						
GH-201C-240F/D1						
GH-201C-260F/D1						
GH-201C-280F/D1						
GH-201C-300F/D1						
GH-201C-320F/D1						
GH-201C-340F/D1						
GH-201C-360F/D1						
GH-201C-380F/D1						
GH-270C-125F/D1	155,920	60,883	86,371	57,443	41,846	118,094
GH-270C-140F/D1	195,586	76,372	108,344	78,757	57,372	161,911
GH-270C-160F/D1						
GH-270C-180F/D1						
GH-270C-200F/D1						
GH-270C-220F/D1						
GH-270C-240F/D1						
GH-270C-250F/D1						
GH-270C-280F/D1						
GH-270C-300F/D1						
GH-270C-320F/D1						
GH-270C-340F/D1						
GH-270C-360F/D1						
GH-270C-380F/D1						
GH-270C-400F/D1						

GH RANGE TORQUE DATA
SYMMETRICAL DOUBLE-ACTING
METRIC

Model Number	207 BAR Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-140F/D1	195,586	76,372	108,344	78,757	57,372	161,911
GH-271C-160F/D1	255,460	99,752	141,510	110,928	80,809	228,051
GH-271C-180F/D1						
GH-271C-200F/D1						
GH-271C-220F/D1						
GH-271C-240F/D1						
GH-271C-250F/D1						
GH-271C-280F/D1						
GH-271C-300F/D1						
GH-271C-320F/D1						
GH-271C-340F/D1						
GH-271C-360F/D1						
GH-271C-380F/D1						
GH-271C-400F/D1						
GH-271C-420F/D1						
GH-350C-160F/D1	334,751	130,714	185,433	134,794	98,194	277,116
GH-350C-180F/D1	423,670	165,435	234,689	182,573	133,000	375,340
GH-350C-200F/D1	523,049	204,240	289,739	235,972	171,900	485,121
GH-350C-220F/D1						
GH-350C-250F/D1						
GH-350C-280F/D1						
GH-350C-300F/D1						
GH-350C-320F/D1						
GH-350C-350F/D1						
GH-350C-380F/D1						
GH-350C-400F/D1						
GH-350C-440F/D1						
GH-350C-460F/D1						

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1	1,627	476	567	847	534	1,141
GH-065C-060F/C1	2,865	964	1,253	838	527	1,121
GH-065C-050F/C2						
GH-065C-060F/C2	2,187	574	638	1,377	860	1,798
GH-065C-070F/C2	3,650	1,156	1,449	1,366	852	1,775
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3						
GH-065C-050F/C4						
GH-065C-060F/C4						
GH-065C-070F/C4	2,862	821	965	1,790	1,153	2,562
GH-085C-050F/C1	2,152	558	615	1,240	758	1,509
GH-085C-060F/C1	3,790	1,209	1,522	1,228	748	1,483
GH-085C-070F/C1	5,725	1,969	2,594	1,212	737	1,452
GH-085C-050F/C2						
GH-085C-060F/C2	2,893	612	611	2,027	1,225	2,379
GH-085C-070F/C2	4,829	1,413	1,683	2,012	1,214	2,348
GH-085C-060F/C3						
GH-085C-070F/C3						
GH-085C-080F/C3	5,664	1,394	1,487	3,253	1,949	3,710
GH-085C-090F/C3	8,195	2,415	2,889	3,233	1,934	3,670
GH-085C-050F/C4						
GH-085C-060F/C4						
GH-085C-070F/C4	4,396	1,198	1,362	2,294	1,400	2,781
GH-085C-080F/C4	6,629	2,085	2,599	2,277	1,387	2,745
GH-085C-090F/C4	9,161	3,080	4,001	2,257	1,372	2,704
GH-085C-050F/C5						
GH-085C-060F/C5						
GH-085C-070F/C5						
GH-085C-080F/C5	5,104	1,155	1,177	3,525	2,150	4,270
GH-085C-090F/C5	7,635	2,193	2,579	3,505	2,136	4,229
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6						
GH-085C-080F/C6						
GH-085C-090F/C6	6,769	1,611	1,685	4,290	2,601	5,095
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7						
GH-085C-080F/C7						
GH-085C-090F/C7						
GH-100C-070F/C1						
GH-100C-080F/C1						
GH-100C-090F/C1						
GH-100C-110F/C1						
GH-100C-080F/C2						

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2						
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3						
GH-130C-080F/C3						
GH-130C-090F/C3	8,854	1,989	2,018	7,255	4,568	9,707
GH-130C-100F/C3	13,281	3,806	4,470	7,220	4,542	9,636
GH-130C-110F/C3	18,309	5,796	7,256	7,255	4,568	9,708
GH-130C-125F/C3	26,561	9,036	11,827	7,212	4,536	9,621
GH-130C-080F/C4						
GH-130C-090F/C4						
GH-130C-100F/C4	11,360	3,034	3,406	8,154	5,233	11,555
GH-130C-110F/C4	16,389	5,039	6,192	8,189	5,259	11,627
GH-130C-125F/C4	24,640	8,284	10,763	8,146	5,227	11,540
GH-130C-080F/C5						
GH-130C-090F/C5						
GH-130C-100F/C5						
GH-130C-110F/C5	13,926	3,136	3,186	10,826	6,755	14,089
GH-130C-125F/C5	22,178	6,505	7,757	10,784	6,724	14,001
GH-130C-140F/C5	31,483	10,180	12,912	10,736	6,688	13,902
GH-130C-090F/C6						
GH-130C-100F/C6						
GH-130C-110F/C6						
GH-130C-125F/C6						
GH-130C-140F/C6	28,463	7,676	8,672	14,457	8,730	16,921
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 RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
METRIC

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
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-110F/C1						
GH-200C-125F/C1						
GH-200C-140F/C1	33,482	7,979	8,351	27,384	17,436	37,902
GH-200C-160F/C1	55,575	16,884	20,590	27,270	17,352	37,668
GH-200C-180F/C1	80,615	26,741	34,460	27,141	17,256	37,402
GH-200C-125F/C2						
GH-200C-140F/C2						
GH-200C-160F/C2	43,770	9,294	9,284	37,192	23,372	49,467
GH-200C-180F/C2	68,809	19,715	23,154	37,063	23,276	49,201
GH-201C-200F/C3						
GH-201C-160F/C7						
GH-201C-200F/C7	83,125	20,938	22,653	51,688	31,759	64,056
GH-270C-200F/C0						
GH-270C-220F/C0						
GH-270C-240F/C0	181,508	39,805	39,979	105,573	61,307	107,766
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4						
GH-270C-220F/C4						
GH-270C-240F/C4	193,139	44,942	46,422	99,919	57,097	96,141
GH-271C-200F/C0						
GH-271C-220F/C0						
GH-271C-240F/C0	181,508	39,805	39,979	105,573	61,307	107,766
GH-271C-250F/C0	206,253	50,490	53,686	105,510	61,260	107,635

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0	286,546	82,997	98,164	105,303	61,106	107,211
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2						
GH-271C-220F/C2						
GH-271C-240F/C2						
GH-271C-250F/C2						
GH-271C-280F/C2	276,320	61,549	62,217	136,851	75,874	117,430
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3						
GH-271C-220F/C3						
GH-271C-240F/C3						
GH-271C-250F/C3						
GH-271C-280F/C3	257,194	51,769	51,622	146,150	82,855	136,546
GH-271C-300F/C3	315,772	78,397	84,071	145,999	82,743	136,237
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4						
GH-271C-220F/C4						
GH-271C-240F/C4	193,139	44,942	46,422	99,919	57,097	96,141
GH-271C-250F/C4	217,883	55,309	60,129	99,855	57,049	96,010
GH-271C-280F/C4	298,176	87,625	104,607	99,649	56,895	95,586
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	105 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1						
GH-350C-280F/C1						
GH-350C-300F/C1						
GH-350C-320F/C1	520,874	115,521	116,554	225,389	117,990	153,067
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1	2,034	637	793	847	534	1,141
GH-065C-060F/C1	3,452	1,194	1,578	838	527	1,121
GH-065C-050F/C2						
GH-065C-060F/C2	2,774	810	963	1,377	860	1,798
GH-065C-070F/C2						
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3						
GH-065C-050F/C4						
GH-065C-060F/C4	1,986	463	480	1,802	1,161	2,586
GH-065C-070F/C4	3,661	1,138	1,408	1,790	1,153	2,562
GH-085C-050F/C1	2,691	775	914	1,240	758	1,509
GH-085C-060F/C1	4,567	1,515	1,952	1,228	748	1,483
GH-085C-070F/C1	6,783	2,383	3,180	1,212	737	1,452
GH-085C-050F/C2						
GH-085C-060F/C2	3,670	947	1,041	2,027	1,225	2,379
GH-085C-070F/C2	5,886	1,832	2,269	2,012	1,214	2,348
GH-085C-060F/C3						
GH-085C-070F/C3						
GH-085C-080F/C3	7,045	1,956	2,252	3,253	1,949	3,710
GH-085C-090F/C3	9,943	3,107	3,858	3,233	1,934	3,670
GH-085C-050F/C4						
GH-085C-060F/C4	3,237	715	720	2,309	1,411	2,812
GH-085C-070F/C4	5,453	1,620	1,948	2,294	1,400	2,781
GH-085C-080F/C4	8,011	2,628	3,364	2,277	1,387	2,745
GH-085C-090F/C4						
GH-085C-050F/C5						
GH-085C-060F/C5						
GH-085C-070F/C5						
GH-085C-080F/C5	6,485	1,731	1,942	3,525	2,150	4,270
GH-085C-090F/C5	9,383	2,886	3,547	3,505	2,136	4,229
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6						
GH-085C-080F/C6						
GH-085C-090F/C6	8,517	2,328	2,654	4,290	2,601	5,095
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7						
GH-085C-080F/C7						
GH-085C-090F/C7						
GH-100C-070F/C1						
GH-100C-080F/C1						
GH-100C-090F/C1	11,159	2,671	2,804	5,486	3,120	5,186
GH-100C-110F/C1						
GH-100C-080F/C2						

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2						
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3						
GH-130C-080F/C3						
GH-130C-090F/C3	11,589	3,127	3,533	7,255	4,568	9,707
GH-130C-100F/C3	16,657	5,145	6,340	7,220	4,542	9,636
GH-130C-110F/C3	22,394	7,402	9,519	7,255	4,568	9,708
GH-130C-125F/C3	31,836	11,102	14,749	7,212	4,536	9,621
GH-130C-080F/C4						
GH-130C-090F/C4	9,669	2,339	2,469	8,188	5,258	11,626
GH-130C-100F/C4	14,737	4,385	5,277	8,154	5,233	11,555
GH-130C-110F/C4	20,474	6,648	8,455	8,189	5,259	11,627
GH-130C-125F/C4	29,916	10,351	13,685	8,146	5,227	11,540
GH-130C-080F/C5						
GH-130C-090F/C5						
GH-130C-100F/C5						
GH-130C-110F/C5	18,011	4,837	5,449	10,826	6,755	14,089
GH-130C-125F/C5	27,453	8,593	10,680	10,784	6,724	14,001
GH-130C-140F/C5						
GH-130C-090F/C6						
GH-130C-100F/C6						
GH-130C-110F/C6						
GH-130C-125F/C6	24,433	6,028	6,439	14,505	8,765	17,019
GH-130C-140F/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 RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
METRIC

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
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-110F/C1						
GH-200C-125F/C1						
GH-200C-140F/C1	43,891	12,235	14,117	27,384	17,436	37,902
GH-200C-160F/C1	69,171	22,246	28,121	27,270	17,352	37,668
GH-200C-180F/C1	97,822	33,487	43,992	27,141	17,256	37,402
GH-200C-125F/C2						
GH-200C-140F/C2						
GH-200C-160F/C2	57,366	15,111	16,815	37,192	23,372	49,467
GH-200C-180F/C2	86,017	26,540	32,686	37,063	23,276	49,201
GH-201C-200F/C3	86,881	17,799	17,760	66,311	40,645	81,534
GH-201C-160F/C7						
GH-201C-200F/C7	104,369	29,539	34,421	51,688	31,759	64,056
GH-270C-200F/C0						
GH-270C-220F/C0						
GH-270C-240F/C0	223,260	57,517	63,108	105,573	61,307	107,766
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4						
GH-270C-220F/C4	181,764	39,922	40,121	100,038	57,186	96,387
GH-270C-240F/C4	234,891	62,257	69,550	99,919	57,097	96,141
GH-271C-200F/C0						
GH-271C-220F/C0						
GH-271C-240F/C0	223,260	57,517	63,108	105,573	61,307	107,766
GH-271C-250F/C0	251,556	68,994	78,782	105,510	61,260	107,635

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0						
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2						
GH-271C-220F/C2						
GH-271C-240F/C2						
GH-271C-250F/C2						
GH-271C-280F/C2						
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3						
GH-271C-220F/C3						
GH-271C-240F/C3						
GH-271C-250F/C3						
GH-271C-280F/C3	314,023	77,671	83,102	146,150	82,855	136,546
GH-271C-300F/C3						
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4						
GH-271C-220F/C4	181,764	39,922	40,121	100,038	57,186	96,387
GH-271C-240F/C4	234,891	62,257	69,550	99,919	57,097	96,141
GH-271C-250F/C4	263,187	73,667	85,225	99,855	57,049	96,010
GH-271C-280F/C4						
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	120 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1						
GH-350C-280F/C1						
GH-350C-300F/C1	524,306	117,061	118,455	225,600	118,152	153,501
GH-350C-320F/C1						
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1						
GH-065C-060F/C1						
GH-065C-050F/C2						
GH-065C-060F/C2						
GH-065C-070F/C2						
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3						
GH-065C-050F/C4						
GH-065C-060F/C4						
GH-065C-070F/C4						
GH-085C-050F/C1						
GH-085C-060F/C1						
GH-085C-070F/C1						
GH-085C-050F/C2						
GH-085C-060F/C2						
GH-085C-070F/C2						
GH-085C-060F/C3						
GH-085C-070F/C3						
GH-085C-080F/C3						
GH-085C-090F/C3						
GH-085C-050F/C4						
GH-085C-060F/C4						
GH-085C-070F/C4						
GH-085C-080F/C4						
GH-085C-090F/C4						
GH-085C-050F/C5						
GH-085C-060F/C5						
GH-085C-070F/C5						
GH-085C-080F/C5						
GH-085C-090F/C5						
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6						
GH-085C-080F/C6						
GH-085C-090F/C6						
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7						
GH-085C-080F/C7						
GH-085C-090F/C7						
GH-100C-070F/C1						
GH-100C-080F/C1						
GH-100C-090F/C1						
GH-100C-110F/C1						
GH-100C-080F/C2						

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2						
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3						
GH-130C-080F/C3						
GH-130C-090F/C3						
GH-130C-100F/C3						
GH-130C-110F/C3						
GH-130C-125F/C3						
GH-130C-080F/C4						
GH-130C-090F/C4						
GH-130C-100F/C4						
GH-130C-110F/C4						
GH-130C-125F/C4						
GH-130C-080F/C5						
GH-130C-090F/C5						
GH-130C-100F/C5						
GH-130C-110F/C5						
GH-130C-125F/C5						
GH-130C-140F/C5						
GH-130C-090F/C6						
GH-130C-100F/C6						
GH-130C-110F/C6						
GH-130C-125F/C6						
GH-130C-140F/C6						
GH-161C-110F/C2						
GH-161C-110F/C3	19,103	4,995	5,533	16,220	10,603	24,237
GH-161C-110F/C4	12,071	233	233	20,872	13,655	31,265
GH-161C-110F/C5						
GH-161C-125F/C2						
GH-161C-125F/C3	31,841	10,066	12,589	16,167	10,564	24,128
GH-161C-125F/C4	24,809	6,545	7,289	20,819	13,616	31,156
GH-161C-125F/C5						
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4	39,174	12,266	15,247	20,759	13,572	31,033

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5	32,239	7,890	8,388	26,778	17,189	37,964
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
GH-161C-160F/C5	53,922	16,592	20,399	26,688	17,122	37,779
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-110F/C1						
GH-200C-125F/C1						
GH-200C-140F/C1						
GH-200C-160F/C1						
GH-200C-180F/C1						
GH-200C-125F/C2						
GH-200C-140F/C2						
GH-200C-160F/C2						
GH-200C-180F/C2						
GH-201C-200F/C3						
GH-201C-160F/C7						
GH-201C-200F/C7						
GH-270C-200F/C0						
GH-270C-220F/C0						
GH-270C-240F/C0						
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4						
GH-270C-220F/C4						
GH-270C-240F/C4						
GH-271C-200F/C0						
GH-271C-220F/C0						
GH-271C-240F/C0						
GH-271C-250F/C0						

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0						
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2						
GH-271C-220F/C2						
GH-271C-240F/C2						
GH-271C-250F/C2						
GH-271C-280F/C2						
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3						
GH-271C-220F/C3						
GH-271C-240F/C3						
GH-271C-250F/C3						
GH-271C-280F/C3						
GH-271C-300F/C3						
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4						
GH-271C-220F/C4						
GH-271C-240F/C4						
GH-271C-250F/C4						
GH-271C-280F/C4						
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	130 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1						
GH-350C-280F/C1						
GH-350C-300F/C1						
GH-350C-320F/C1						
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1	2,578	851	1,094	847	534	1,141
GH-065C-060F/C1						
GH-065C-050F/C2	1,900	456	479	1,387	867	1,818
GH-065C-060F/C2	3,557	1,120	1,397	1,377	860	1,798
GH-065C-070F/C2						
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3	3,748	1,000	1,122	2,559	1,629	3,541
GH-065C-050F/C4						
GH-065C-060F/C4	2,769	784	913	1,802	1,161	2,586
GH-065C-070F/C4						
GH-085C-050F/C1	3,411	1,060	1,312	1,240	758	1,509
GH-085C-060F/C1	5,602	1,921	2,526	1,228	748	1,483
GH-085C-070F/C1	8,193	2,934	3,961	1,212	737	1,452
GH-085C-050F/C2						
GH-085C-060F/C2	4,706	1,364	1,615	2,027	1,225	2,379
GH-085C-070F/C2	7,296	2,387	3,050	2,012	1,214	2,348
GH-085C-060F/C3						
GH-085C-070F/C3	5,897	1,491	1,617	3,270	1,962	3,746
GH-085C-080F/C3	8,886	2,689	3,272	3,253	1,949	3,710
GH-085C-090F/C3						
GH-085C-050F/C4						
GH-085C-060F/C4	4,273	1,148	1,294	2,309	1,411	2,812
GH-085C-070F/C4	6,863	2,177	2,729	2,294	1,400	2,781
GH-085C-080F/C4	9,852	3,350	4,384	2,277	1,387	2,745
GH-085C-090F/C4						
GH-085C-050F/C5						
GH-085C-060F/C5						
GH-085C-070F/C5	5,337	1,257	1,306	3,542	2,163	4,306
GH-085C-080F/C5	8,326	2,468	2,962	3,525	2,150	4,270
GH-085C-090F/C5						
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6						
GH-085C-080F/C6	7,460	1,899	2,068	4,309	2,616	5,135
GH-085C-090F/C6						
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7						
GH-085C-080F/C7						
GH-085C-090F/C7	9,020	2,343	2,584	5,484	3,389	6,921
GH-100C-070F/C1						
GH-100C-080F/C1						
GH-100C-090F/C1	13,932	3,809	4,340	5,486	3,120	5,186
GH-100C-110F/C1						
GH-100C-080F/C2						

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2	11,977	3,013	3,257	6,437	3,826	7,140
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3						
GH-130C-080F/C3	9,936	2,450	2,617	7,285	4,590	9,770
GH-130C-090F/C3	15,236	4,582	5,553	7,255	4,568	9,707
GH-130C-100F/C3	21,159	6,917	8,834	7,220	4,542	9,636
GH-130C-110F/C3	27,841	9,538	12,536	7,255	4,568	9,708
GH-130C-125F/C3						
GH-130C-080F/C4						
GH-130C-090F/C4	13,315	3,819	4,489	8,188	5,258	11,626
GH-130C-100F/C4	19,238	6,162	7,770	8,154	5,233	11,555
GH-130C-110F/C4	25,921	8,786	11,472	8,189	5,259	11,627
GH-130C-125F/C4						
GH-130C-080F/C5						
GH-130C-090F/C5						
GH-130C-100F/C5	16,776	4,334	4,765	10,791	6,729	14,017
GH-130C-110F/C5	23,458	7,014	8,467	10,826	6,755	14,089
GH-130C-125F/C5	34,487	11,360	14,576	10,784	6,724	14,001
GH-130C-140F/C5						
GH-130C-090F/C6						
GH-130C-100F/C6						
GH-130C-110F/C6	20,438	4,234	4,227	14,548	8,797	17,107
GH-130C-125F/C6	31,467	8,884	10,336	14,505	8,765	17,019
GH-130C-140F/C6						
GH-161C-110F/C2	27,074	8,184	9,948	13,993	8,955	19,658
GH-161C-110F/C3	22,492	6,362	7,410	16,220	10,603	24,237
GH-161C-110F/C4	15,460	2,111	2,111	20,872	13,655	31,265
GH-161C-110F/C5						
GH-161C-125F/C2						
GH-161C-125F/C3	36,218	11,789	15,014	16,167	10,564	24,128
GH-161C-125F/C4	29,186	8,307	9,714	20,819	13,616	31,156
GH-161C-125F/C5	22,251	2,855	2,855	26,838	17,233	38,087
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4	44,665	14,428	18,288	20,759	13,572	31,033

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5	37,729	10,141	11,430	26,778	17,189	37,964
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
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-110F/C1						
GH-200C-125F/C1	38,208	9,937	10,969	27,460	17,492	38,058
GH-200C-140F/C1	57,771	17,752	21,806	27,384	17,436	37,902
GH-200C-160F/C1	87,300	29,364	38,163	27,270	17,352	37,668
GH-200C-180F/C1						
GH-200C-125F/C2						
GH-200C-140F/C2	45,965	10,340	10,500	37,306	23,456	49,701
GH-200C-160F/C2	75,494	22,375	26,857	37,192	23,372	49,467
GH-200C-180F/C2						
GH-201C-200F/C3	115,206	30,172	33,450	66,311	40,645	81,534
GH-201C-160F/C7						
GH-201C-200F/C7	132,694	40,787	50,111	51,688	31,759	64,056
GH-270C-200F/C0						
GH-270C-220F/C0	216,911	54,909	59,590	105,693	61,396	108,011
GH-270C-240F/C0						
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4	171,915	34,758	34,665	100,147	57,268	96,611
GH-270C-220F/C4	228,541	59,676	66,033	100,038	57,186	96,387
GH-270C-240F/C4						
GH-271C-200F/C0						
GH-271C-220F/C0	216,911	54,909	59,590	105,693	61,396	108,011
GH-271C-240F/C0	278,930	79,961	93,945	105,573	61,307	107,766
GH-271C-250F/C0	311,962	93,097	112,243	105,510	61,260	107,635

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0						
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2						
GH-271C-220F/C2						
GH-271C-240F/C2	268,704	58,026	57,998	137,121	76,077	117,986
GH-271C-250F/C2	301,736	72,529	76,296	137,058	76,029	117,855
GH-271C-280F/C2						
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3						
GH-271C-220F/C3						
GH-271C-240F/C3						
GH-271C-250F/C3	282,610	64,334	65,701	146,356	83,010	136,971
GH-271C-280F/C3						
GH-271C-300F/C3						
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4	171,915	34,758	34,665	100,147	57,268	96,611
GH-271C-220F/C4	228,541	59,676	66,033	100,038	57,186	96,387
GH-271C-240F/C4	290,560	84,594	100,388	99,919	57,097	96,141
GH-271C-250F/C4						
GH-271C-280F/C4						
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	140 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1						
GH-350C-280F/C1	535,818	122,148	124,832	225,798	118,304	153,906
GH-350C-300F/C1						
GH-350C-320F/C1						
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1	3,122	1,064	1,396	847	534	1,141
GH-065C-060F/C1						
GH-065C-050F/C2	2,444	678	781	1,387	867	1,818
GH-065C-060F/C2						
GH-065C-070F/C2						
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3						
GH-065C-050F/C4						
GH-065C-060F/C4	3,552	1,094	1,347	1,802	1,161	2,586
GH-065C-070F/C4						
GH-085C-050F/C1	4,130	1,343	1,710	1,240	758	1,509
GH-085C-060F/C1	6,638	2,326	3,100	1,228	748	1,483
GH-085C-070F/C1	9,603	3,485	4,742	1,212	737	1,452
GH-085C-050F/C2	3,233	766	799	2,040	1,234	2,405
GH-085C-060F/C2	5,742	1,775	2,189	2,027	1,225	2,379
GH-085C-070F/C2	8,706	2,940	3,831	2,012	1,214	2,348
GH-085C-060F/C3						
GH-085C-070F/C3	7,307	2,061	2,398	3,270	1,962	3,746
GH-085C-080F/C3						
GH-085C-090F/C3						
GH-085C-050F/C4						
GH-085C-060F/C4	5,309	1,563	1,868	2,309	1,411	2,812
GH-085C-070F/C4	8,273	2,731	3,510	2,294	1,400	2,781
GH-085C-080F/C4						
GH-085C-090F/C4						
GH-085C-050F/C5						
GH-085C-060F/C5						
GH-085C-070F/C5	6,747	1,837	2,087	3,542	2,163	4,306
GH-085C-080F/C5						
GH-085C-090F/C5						
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6	5,881	1,197	1,194	4,327	2,629	5,171
GH-085C-080F/C6	9,302	2,643	3,088	4,309	2,616	5,135
GH-085C-090F/C6						
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7						
GH-085C-080F/C7	7,474	1,695	1,728	5,503	3,403	6,962
GH-085C-090F/C7						
GH-100C-070F/C1						
GH-100C-080F/C1	12,078	3,054	3,313	5,502	3,132	5,218
GH-100C-090F/C1						
GH-100C-110F/C1						
GH-100C-080F/C2	10,123	2,220	2,230	6,452	3,838	7,172

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2						
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3						
GH-130C-080F/C3	12,817	3,620	4,213	7,285	4,590	9,770
GH-130C-090F/C3	18,882	6,022	7,573	7,255	4,568	9,707
GH-130C-100F/C3	25,660	8,683	11,328	7,220	4,542	9,636
GH-130C-110F/C3	33,288	11,670	15,553	7,255	4,568	9,708
GH-130C-125F/C3						
GH-130C-080F/C4	10,897	2,846	3,150	8,219	5,281	11,690
GH-130C-090F/C4	16,962	5,265	6,509	8,188	5,258	11,626
GH-130C-100F/C4	23,740	7,931	10,264	8,154	5,233	11,555
GH-130C-110F/C4	31,368	10,919	14,490	8,189	5,259	11,627
GH-130C-125F/C4						
GH-130C-080F/C5						
GH-130C-090F/C5	14,499	3,385	3,504	10,826	6,755	14,088
GH-130C-100F/C5	21,277	6,147	7,259	10,791	6,729	14,017
GH-130C-110F/C5	28,905	9,165	11,484	10,826	6,755	14,089
GH-130C-125F/C5						
GH-130C-140F/C5						
GH-130C-090F/C6						
GH-130C-100F/C6						
GH-130C-110F/C6	25,885	6,628	7,244	14,548	8,797	17,107
GH-130C-125F/C6						
GH-130C-140F/C6						
GH-161C-110F/C2	33,853	10,858	13,704	13,993	8,955	19,658
GH-161C-110F/C3	29,272	9,053	11,166	16,220	10,603	24,237
GH-161C-110F/C4	22,240	5,490	5,866	20,872	13,655	31,265
GH-161C-110F/C5						
GH-161C-125F/C2						
GH-161C-125F/C3						
GH-161C-125F/C4	37,941	11,779	14,564	20,819	13,616	31,156
GH-161C-125F/C5	31,005	7,371	7,705	26,838	17,233	38,087
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4	55,646	18,739	24,371	20,759	13,572	31,033

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5	48,711	14,530	17,513	26,778	17,189	37,964
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
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-110F/C1	29,428	6,116	6,105	27,527	17,542	38,196
GH-200C-125F/C1	49,272	14,383	17,098	27,460	17,492	38,058
GH-200C-140F/C1	71,650	23,221	29,494	27,384	17,436	37,902
GH-200C-160F/C1						
GH-200C-180F/C1						
GH-200C-125F/C2						
GH-200C-140F/C2	59,844	16,116	18,188	37,306	23,456	49,701
GH-200C-160F/C2	93,622	29,541	36,899	37,192	23,372	49,467
GH-200C-180F/C2						
GH-201C-200F/C3	143,531	41,558	49,141	66,311	40,645	81,534
GH-201C-160F/C7	79,244	19,326	20,503	51,582	31,680	63,837
GH-201C-200F/C7						
GH-270C-200F/C0	198,944	47,419	49,638	105,802	61,477	108,235
GH-270C-220F/C0						
GH-270C-240F/C0						
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4	210,574	52,289	56,080	100,147	57,268	96,611
GH-270C-220F/C4						
GH-270C-240F/C4						
GH-271C-200F/C0	198,944	47,419	49,638	105,802	61,477	108,235
GH-271C-220F/C0	263,688	73,868	85,502	105,693	61,396	108,011
GH-271C-240F/C0						
GH-271C-250F/C0						

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0						
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2						
GH-271C-220F/C2						
GH-271C-240F/C2						
GH-271C-250F/C2						
GH-271C-280F/C2						
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3						
GH-271C-220F/C3						
GH-271C-240F/C3	305,247	74,008	78,241	146,420	83,057	137,102
GH-271C-250F/C3						
GH-271C-280F/C3						
GH-271C-300F/C3						
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4	210,574	52,289	56,080	100,147	57,268	96,611
GH-271C-220F/C4	275,319	78,518	91,945	100,038	57,186	96,387
GH-271C-240F/C4						
GH-271C-250F/C4						
GH-271C-280F/C4						
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	160 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1						
GH-350C-280F/C1						
GH-350C-300F/C1						
GH-350C-320F/C1						
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1	3,666	1,277	1,697	847	534	1,141
GH-065C-060F/C1						
GH-065C-050F/C2	2,988	895	1,082	1,387	867	1,818
GH-065C-060F/C2						
GH-065C-070F/C2						
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3						
GH-065C-050F/C4	2,200	553	598	1,812	1,168	2,606
GH-065C-060F/C4						
GH-065C-070F/C4						
GH-085C-050F/C1	4,849	1,626	2,109	1,240	758	1,509
GH-085C-060F/C1	7,674	2,732	3,674	1,228	748	1,483
GH-085C-070F/C1						
GH-085C-050F/C2	3,953	1,062	1,198	2,040	1,234	2,405
GH-085C-060F/C2	6,777	2,183	2,763	2,027	1,225	2,379
GH-085C-070F/C2						
GH-085C-060F/C3	5,379	1,274	1,329	3,285	1,973	3,777
GH-085C-070F/C3	8,717	2,622	3,179	3,270	1,962	3,746
GH-085C-080F/C3						
GH-085C-090F/C3						
GH-085C-050F/C4	3,520	838	877	2,322	1,420	2,838
GH-085C-060F/C4	6,345	1,973	2,441	2,309	1,411	2,812
GH-085C-070F/C4	9,683	3,284	4,291	2,294	1,400	2,781
GH-085C-080F/C4						
GH-085C-090F/C4						
GH-085C-050F/C5						
GH-085C-060F/C5	4,819	1,020	1,019	3,557	2,174	4,337
GH-085C-070F/C5	8,157	2,400	2,868	3,542	2,163	4,306
GH-085C-080F/C5						
GH-085C-090F/C5						
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6	7,291	1,829	1,975	4,327	2,629	5,171
GH-085C-080F/C6						
GH-085C-090F/C6						
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7						
GH-085C-080F/C7	9,316	2,463	2,748	5,503	3,403	6,962
GH-085C-090F/C7						
GH-100C-070F/C1	9,673	1,985	1,980	5,516	3,142	5,246
GH-100C-080F/C1						
GH-100C-090F/C1						
GH-100C-110F/C1						
GH-100C-080F/C2	12,314	3,152	3,444	6,452	3,838	7,172

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2						
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3	9,672	2,340	2,471	7,313	4,611	9,826
GH-130C-080F/C3	15,698	4,766	5,809	7,285	4,590	9,770
GH-130C-090F/C3	22,528	7,455	9,593	7,255	4,568	9,707
GH-130C-100F/C3	30,162	10,447	13,822	7,220	4,542	9,636
GH-130C-110F/C3						
GH-130C-125F/C3						
GH-130C-080F/C4	13,778	4,004	4,746	8,219	5,281	11,690
GH-130C-090F/C4	20,608	6,701	8,529	8,188	5,258	11,626
GH-130C-100F/C4	28,242	9,695	12,758	8,154	5,233	11,555
GH-130C-110F/C4						
GH-130C-125F/C4						
GH-130C-080F/C5						
GH-130C-090F/C5	18,145	4,891	5,524	10,826	6,755	14,088
GH-130C-100F/C5	25,779	7,932	9,752	10,791	6,729	14,017
GH-130C-110F/C5	34,352	11,307	14,502	10,826	6,755	14,089
GH-130C-125F/C5						
GH-130C-140F/C5						
GH-130C-090F/C6						
GH-130C-100F/C6	22,759	5,322	5,512	14,513	8,771	17,035
GH-130C-110F/C6	31,333	8,830	10,261	14,548	8,797	17,107
GH-130C-125F/C6						
GH-130C-140F/C6						
GH-161C-110F/C2						
GH-161C-110F/C3	36,051	11,723	14,921	16,220	10,603	24,237
GH-161C-110F/C4	29,019	8,240	9,621	20,872	13,655	31,265
GH-161C-110F/C5	22,084	2,763	2,763	26,891	17,273	38,196
GH-161C-125F/C2						
GH-161C-125F/C3						
GH-161C-125F/C4	46,695	15,226	19,413	20,819	13,616	31,156
GH-161C-125F/C5	39,760	10,959	12,554	26,838	17,233	38,087
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4						

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5	59,692	18,869	23,596	26,778	17,189	37,964
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
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-110F/C1	37,996	9,851	10,852	27,527	17,542	38,196
GH-200C-125F/C1	60,337	18,765	23,227	27,460	17,492	38,058
GH-200C-140F/C1	85,529	28,670	37,183	27,384	17,436	37,902
GH-200C-160F/C1						
GH-200C-180F/C1						
GH-200C-125F/C2	48,531	11,453	11,921	37,382	23,512	49,857
GH-200C-140F/C2	73,724	21,672	25,877	37,306	23,456	49,701
GH-200C-160F/C2						
GH-200C-180F/C2						
GH-201C-200F/C3						
GH-201C-160F/C7	97,372	26,733	30,545	51,582	31,680	63,837
GH-201C-200F/C7						
GH-270C-200F/C0	237,603	63,359	71,053	105,802	61,477	108,235
GH-270C-220F/C0						
GH-270C-240F/C0						
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4	249,234	68,059	77,495	100,147	57,268	96,611
GH-270C-220F/C4						
GH-270C-240F/C4						
GH-271C-200F/C0	237,603	63,359	71,053	105,802	61,477	108,235
GH-271C-220F/C0	310,466	92,504	111,415	105,693	61,396	108,011
GH-271C-240F/C0						
GH-271C-250F/C0						

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0						
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2						
GH-271C-220F/C2	300,240	71,899	75,467	137,241	76,167	118,231
GH-271C-240F/C2						
GH-271C-250F/C2						
GH-271C-280F/C2						
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3						
GH-271C-220F/C3	281,114	63,678	64,872	146,539	83,147	137,347
GH-271C-240F/C3						
GH-271C-250F/C3						
GH-271C-280F/C3						
GH-271C-300F/C3						
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4	249,234	68,059	77,495	100,147	57,268	96,611
GH-271C-220F/C4						
GH-271C-240F/C4						
GH-271C-250F/C4						
GH-271C-280F/C4						
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	180 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1	553,672	129,866	134,722	226,068	118,513	154,462
GH-350C-280F/C1						
GH-350C-300F/C1						
GH-350C-320F/C1						
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1						
GH-065C-060F/C1						
GH-065C-050F/C2	3,532	1,110	1,383	1,387	867	1,818
GH-065C-060F/C2						
GH-065C-070F/C2						
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3						
GH-065C-050F/C4	2,743	773	899	1,812	1,168	2,606
GH-065C-060F/C4						
GH-065C-070F/C4						
GH-085C-050F/C1	5,569	1,908	2,507	1,240	758	1,509
GH-085C-060F/C1	8,710	3,137	4,247	1,228	748	1,483
GH-085C-070F/C1						
GH-085C-050F/C2	4,672	1,351	1,596	2,040	1,234	2,405
GH-085C-060F/C2	7,813	2,590	3,336	2,027	1,225	2,379
GH-085C-070F/C2						
GH-085C-060F/C3	6,414	1,702	1,903	3,285	1,973	3,777
GH-085C-070F/C3						
GH-085C-080F/C3						
GH-085C-090F/C3						
GH-085C-050F/C4	4,239	1,134	1,275	2,322	1,420	2,838
GH-085C-060F/C4	7,380	2,381	3,015	2,309	1,411	2,812
GH-085C-070F/C4						
GH-085C-080F/C4						
GH-085C-090F/C4						
GH-085C-050F/C5						
GH-085C-060F/C5	5,855	1,473	1,593	3,557	2,174	4,337
GH-085C-070F/C5	9,567	2,959	3,649	3,542	2,163	4,306
GH-085C-080F/C5						
GH-085C-090F/C5						
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6	8,701	2,402	2,756	4,327	2,629	5,171
GH-085C-080F/C6						
GH-085C-090F/C6						
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7	6,873	1,398	1,395	5,521	3,416	6,998
GH-085C-080F/C7						
GH-085C-090F/C7						
GH-100C-070F/C1	11,350	2,752	2,910	5,516	3,142	5,246
GH-100C-080F/C1						
GH-100C-090F/C1						
GH-100C-110F/C1						
GH-100C-080F/C2						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2						
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3	11,877	3,243	3,693	7,313	4,611	9,826
GH-130C-080F/C3	18,579	5,903	7,405	7,285	4,590	9,770
GH-130C-090F/C3	26,175	8,885	11,613	7,255	4,568	9,707
GH-130C-100F/C3	34,664	12,208	16,315	7,220	4,542	9,636
GH-130C-110F/C3						
GH-130C-125F/C3						
GH-130C-080F/C4	16,659	5,145	6,342	8,219	5,281	11,690
GH-130C-090F/C4	24,254	8,132	10,549	8,188	5,258	11,626
GH-130C-100F/C4	32,743	11,457	15,251	8,154	5,233	11,555
GH-130C-110F/C4						
GH-130C-125F/C4						
GH-130C-080F/C5	14,196	3,255	3,336	10,857	6,778	14,151
GH-130C-090F/C5	21,792	6,352	7,544	10,826	6,755	14,088
GH-130C-100F/C5	30,281	9,707	12,246	10,791	6,729	14,017
GH-130C-110F/C5						
GH-130C-125F/C5						
GH-130C-140F/C5						
GH-130C-090F/C6						
GH-130C-100F/C6	27,261	7,189	8,006	14,513	8,771	17,035
GH-130C-110F/C6						
GH-130C-125F/C6						
GH-130C-140F/C6						
GH-161C-110F/C2						
GH-161C-110F/C3	42,830	14,384	18,677	16,220	10,603	24,237
GH-161C-110F/C4	35,798	10,933	13,377	20,872	13,655	31,265
GH-161C-110F/C5	28,863	6,442	6,518	26,891	17,273	38,196
GH-161C-125F/C2						
GH-161C-125F/C3						
GH-161C-125F/C4	55,449	18,662	24,262	20,819	13,616	31,156
GH-161C-125F/C5	48,514	14,452	17,404	26,838	17,233	38,087
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
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-110F/C1	46,564	13,304	15,598	27,527	17,542	38,196
GH-200C-125F/C1	71,401	23,123	29,356	27,460	17,492	38,058
GH-200C-140F/C1	99,409	34,109	44,871	27,384	17,436	37,902
GH-200C-160F/C1						
GH-200C-180F/C1						
GH-200C-125F/C2	59,596	16,016	18,051	37,382	23,512	49,857
GH-200C-140F/C2	87,603	27,166	33,565	37,306	23,456	49,701
GH-200C-160F/C2						
GH-200C-180F/C2						
GH-201C-200F/C3						
GH-201C-160F/C7	115,500	33,976	40,587	51,582	31,680	63,837
GH-201C-200F/C7						
GH-270C-200F/C0						
GH-270C-220F/C0						
GH-270C-240F/C0						
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4						
GH-270C-220F/C4						
GH-270C-240F/C4						
GH-271C-200F/C0	276,262	78,895	92,468	105,802	61,477	108,235
GH-271C-220F/C0						
GH-271C-240F/C0						
GH-271C-250F/C0						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0						
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2	266,037	56,576	56,520	137,350	76,249	118,455
GH-271C-220F/C2						
GH-271C-240F/C2						
GH-271C-250F/C2						
GH-271C-280F/C2						
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3						
GH-271C-220F/C3						
GH-271C-240F/C3						
GH-271C-250F/C3						
GH-271C-280F/C3						
GH-271C-300F/C3						
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4	287,893	83,533	98,910	100,147	57,268	96,611
GH-271C-220F/C4						
GH-271C-240F/C4						
GH-271C-250F/C4						
GH-271C-280F/C4						
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	200 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1						
GH-350C-280F/C1						
GH-350C-300F/C1						
GH-350C-320F/C1						
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1						
GH-065C-060F/C1						
GH-065C-050F/C2						
GH-065C-060F/C2						
GH-065C-070F/C2						
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3						
GH-065C-050F/C4						
GH-065C-060F/C4						
GH-065C-070F/C4						
GH-085C-050F/C1						
GH-085C-060F/C1						
GH-085C-070F/C1						
GH-085C-050F/C2						
GH-085C-060F/C2						
GH-085C-070F/C2						
GH-085C-060F/C3						
GH-085C-070F/C3						
GH-085C-080F/C3						
GH-085C-090F/C3						
GH-085C-050F/C4						
GH-085C-060F/C4						
GH-085C-070F/C4						
GH-085C-080F/C4						
GH-085C-090F/C4						
GH-085C-050F/C5						
GH-085C-060F/C5						
GH-085C-070F/C5						
GH-085C-080F/C5						
GH-085C-090F/C5						
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6						
GH-085C-080F/C6						
GH-085C-090F/C6						
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7						
GH-085C-080F/C7						
GH-085C-090F/C7						
GH-100C-070F/C1						
GH-100C-080F/C1						
GH-100C-090F/C1						
GH-100C-110F/C1						
GH-100C-080F/C2						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2						
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3						
GH-130C-080F/C3						
GH-130C-090F/C3						
GH-130C-100F/C3						
GH-130C-110F/C3						
GH-130C-125F/C3						
GH-130C-080F/C4						
GH-130C-090F/C4						
GH-130C-100F/C4						
GH-130C-110F/C4						
GH-130C-125F/C4						
GH-130C-080F/C5						
GH-130C-090F/C5						
GH-130C-100F/C5						
GH-130C-110F/C5						
GH-130C-125F/C5						
GH-130C-140F/C5						
GH-130C-090F/C6						
GH-130C-100F/C6						
GH-130C-110F/C6						
GH-130C-125F/C6						
GH-130C-140F/C6						
GH-161C-110F/C2						
GH-161C-110F/C3						
GH-161C-110F/C4	38,171	11,870	14,691	20,872	13,655	31,265
GH-161C-110F/C5	31,236	7,469	7,833	26,891	17,273	38,196
GH-161C-125F/C2						
GH-161C-125F/C3						
GH-161C-125F/C4						
GH-161C-125F/C5	51,578	15,666	19,101	26,838	17,233	38,087
GH-161C-140F/C2						
GH-161C-140F/C3						
GH-161C-140F/C4						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
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-110F/C1						
GH-200C-125F/C1						
GH-200C-140F/C1						
GH-200C-160F/C1						
GH-200C-180F/C1						
GH-200C-125F/C2						
GH-200C-140F/C2						
GH-200C-160F/C2						
GH-200C-180F/C2						
GH-201C-200F/C3						
GH-201C-160F/C7						
GH-201C-200F/C7						
GH-270C-200F/C0						
GH-270C-220F/C0						
GH-270C-240F/C0						
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4						
GH-270C-220F/C4						
GH-270C-240F/C4						
GH-271C-200F/C0						
GH-271C-220F/C0						
GH-271C-240F/C0						
GH-271C-250F/C0						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0						
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2						
GH-271C-220F/C2						
GH-271C-240F/C2						
GH-271C-250F/C2						
GH-271C-280F/C2						
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3						
GH-271C-220F/C3						
GH-271C-240F/C3						
GH-271C-250F/C3						
GH-271C-280F/C3						
GH-271C-300F/C3						
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4						
GH-271C-220F/C4						
GH-271C-240F/C4						
GH-271C-250F/C4						
GH-271C-280F/C4						
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	207 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1						
GH-350C-280F/C1						
GH-350C-300F/C1						
GH-350C-320F/C1						
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/C1						
GH-065C-060F/C1						
GH-065C-050F/C2	3,803	1,217	1,534	1,387	867	1,818
GH-065C-060F/C2						
GH-065C-070F/C2						
GH-065C-080F/C2						
GH-065C-090F/C2						
GH-065C-070F/C3						
GH-065C-050F/C4	3,015	882	1,050	1,812	1,168	2,606
GH-065C-060F/C4						
GH-065C-070F/C4						
GH-085C-050F/C1	5,928	2,048	2,707	1,240	758	1,509
GH-085C-060F/C1	9,228	3,339	4,534	1,228	748	1,483
GH-085C-070F/C1						
GH-085C-050F/C2	5,032	1,494	1,796	2,040	1,234	2,405
GH-085C-060F/C2	8,331	2,793	3,623	2,027	1,225	2,379
GH-085C-070F/C2						
GH-085C-060F/C3	6,932	1,911	2,190	3,285	1,973	3,777
GH-085C-070F/C3						
GH-085C-080F/C3						
GH-085C-090F/C3						
GH-085C-050F/C4	4,599	1,279	1,474	2,322	1,420	2,838
GH-085C-060F/C4	7,898	2,584	3,302	2,309	1,411	2,812
GH-085C-070F/C4						
GH-085C-080F/C4						
GH-085C-090F/C4						
GH-085C-050F/C5						
GH-085C-060F/C5	6,373	1,685	1,880	3,557	2,174	4,337
GH-085C-070F/C5						
GH-085C-080F/C5						
GH-085C-090F/C5						
GH-085C-050F/C6						
GH-085C-060F/C6						
GH-085C-070F/C6	9,406	2,685	3,146	4,327	2,629	5,171
GH-085C-080F/C6						
GH-085C-090F/C6						
GH-085C-050F/C7						
GH-085C-060F/C7						
GH-085C-070F/C7	7,578	1,740	1,785	5,521	3,416	6,998
GH-085C-080F/C7						
GH-085C-090F/C7						
GH-100C-070F/C1	12,189	3,100	3,375	5,516	3,142	5,246
GH-100C-080F/C1						
GH-100C-090F/C1						
GH-100C-110F/C1						
GH-100C-080F/C2						

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/C2						
GH-100C-110F/C2						
GH-130C-070F/C1						
GH-130C-080F/C1						
GH-130C-090F/C1						
GH-130C-100F/C1						
GH-130C-110F/C1						
GH-130C-125F/C1						
GH-130C-080F/C2						
GH-130C-090F/C2						
GH-130C-100F/C2						
GH-130C-110F/C2						
GH-130C-125F/C2						
GH-130C-070F/C3	12,980	3,685	4,304	7,313	4,611	9,826
GH-130C-080F/C3	20,020	6,470	8,203	7,285	4,590	9,770
GH-130C-090F/C3	27,998	9,599	12,623	7,255	4,568	9,707
GH-130C-100F/C3						
GH-130C-110F/C3						
GH-130C-125F/C3						
GH-130C-080F/C4	18,100	5,714	7,140	8,219	5,281	11,690
GH-130C-090F/C4	26,078	8,847	11,559	8,188	5,258	11,626
GH-130C-100F/C4	34,994	12,338	16,498	8,154	5,233	11,555
GH-130C-110F/C4						
GH-130C-125F/C4						
GH-130C-080F/C5	15,637	3,865	4,134	10,857	6,778	14,151
GH-130C-090F/C5	23,615	7,076	8,553	10,826	6,755	14,088
GH-130C-100F/C5	32,532	10,592	13,493	10,791	6,729	14,017
GH-130C-110F/C5						
GH-130C-125F/C5						
GH-130C-140F/C5						
GH-130C-090F/C6	20,595	4,319	4,313	14,547	8,796	17,106
GH-130C-100F/C6	29,512	8,099	9,253	14,513	8,771	17,035
GH-130C-110F/C6						
GH-130C-125F/C6						
GH-130C-140F/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 RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL CLOSE, CLOCK WISE TO CLOSE
METRIC

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/C5						
GH-161C-160F/C2						
GH-161C-160F/C3						
GH-161C-160F/C4						
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-110F/C1	50,849	15,011	17,971	27,527	17,542	38,196
GH-200C-125F/C1	76,933	25,296	32,421	27,460	17,492	38,058
GH-200C-140F/C1						
GH-200C-160F/C1						
GH-200C-180F/C1						
GH-200C-125F/C2	65,128	18,243	21,115	37,382	23,512	49,857
GH-200C-140F/C2	94,543	29,903	37,409	37,306	23,456	49,701
GH-200C-160F/C2						
GH-200C-180F/C2						
GH-201C-200F/C3						
GH-201C-160F/C7	124,565	37,571	45,608	51,582	31,680	63,837
GH-201C-200F/C7						
GH-270C-200F/C0						
GH-270C-220F/C0						
GH-270C-240F/C0						
GH-270C-200F/C2						
GH-270C-220F/C2						
GH-270C-240F/C2						
GH-270C-250F/C2						
GH-270C-280F/C2						
GH-270C-220F/C3						
GH-270C-250F/C3						
GH-270C-280F/C3						
GH-270C-200F/C4						
GH-270C-220F/C4						
GH-270C-240F/C4						
GH-271C-200F/C0	295,592	86,596	103,175	105,802	61,477	108,235
GH-271C-220F/C0						
GH-271C-240F/C0						
GH-271C-250F/C0						

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-280F/C0						
GH-271C-300F/C0						
GH-271C-320F/C0						
GH-271C-340F/C0						
GH-271C-360F/C0						
GH-271C-380F/C0						
GH-271C-400F/C0						
GH-271C-420F/C0						
GH-271C-440F/C0						
GH-271C-460F/C0						
GH-271C-200F/C2	285,366	65,536	67,228	137,350	76,249	118,455
GH-271C-220F/C2						
GH-271C-240F/C2						
GH-271C-250F/C2						
GH-271C-280F/C2						
GH-271C-300F/C2						
GH-271C-320F/C2						
GH-271C-340F/C2						
GH-271C-360F/C2						
GH-271C-380F/C2						
GH-271C-400F/C2						
GH-271C-420F/C2						
GH-271C-440F/C2						
GH-271C-460F/C2						
GH-271C-200F/C3	266,240	56,687	56,633	146,648	83,228	137,571
GH-271C-220F/C3						
GH-271C-240F/C3						
GH-271C-250F/C3						
GH-271C-280F/C3						
GH-271C-300F/C3						
GH-271C-320F/C3						
GH-271C-340F/C3						
GH-271C-360F/C3						
GH-271C-380F/C3						
GH-271C-400F/C3						
GH-271C-420F/C3						
GH-271C-440F/C3						
GH-271C-460F/C3						
GH-271C-200F/C4	307,223	91,219	109,618	100,147	57,268	96,611
GH-271C-220F/C4						
GH-271C-240F/C4						
GH-271C-250F/C4						
GH-271C-280F/C4						
GH-271C-300F/C4						
GH-271C-320F/C4						
GH-271C-340F/C4						

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

Model Number	210 BAR			SPRING		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-360F/C4						
GH-271C-380F/C4						
GH-271C-400F/C4						
GH-271C-420F/C4						
GH-271C-440F/C4						
GH-271C-460F/C4						
GH-350C-220F/C1						
GH-350C-250F/C1						
GH-350C-280F/C1						
GH-350C-300F/C1						
GH-350C-320F/C1						
GH-350C-350F/C1						
GH-350C-380F/C1						
GH-350C-400F/C1						
GH-350C-420F/C1						
GH-350C-440F/C1						
GH-350C-460F/C1						
GH-350C-480F/C1						
GH-350C-500F/C1						

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1	1,577	472	571	874	544	1,132
GH-065C-060F/O1	1,559	465	562	1,539	1,037	2,500
GH-065C-050F/O2						
GH-065C-060F/O2	2,563	754	901	1,176	694	1,274
GH-065C-070F/O2	2,541	745	889	1,962	1,276	2,891
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4						
GH-065C-060F/O4	3,299	1,024	1,266	784	380	375
GH-065C-070F/O4	3,278	1,016	1,255	1,570	971	1,991
GH-085C-050F/O1	2,307	650	756	1,157	679	1,228
GH-085C-060F/O1	2,283	641	743	2,037	1,330	3,038
GH-085C-070F/O1	2,255	629	727	3,077	2,099	5,176
GH-085C-050F/O2						
GH-085C-060F/O2	3,771	1,040	1,192	1,555	843	1,221
GH-085C-070F/O2	3,743	1,029	1,176	2,595	1,617	3,359
GH-085C-060F/O3						
GH-085C-070F/O3	6,086	1,654	1,878	1,843	553	499
GH-085C-080F/O3	6,053	1,641	1,860	3,043	1,745	2,966
GH-085C-090F/O3	6,017	1,626	1,840	4,403	2,752	5,763
GH-085C-050F/O4						
GH-085C-060F/O4	4,297	1,212	1,409	1,322	601	579
GH-085C-070F/O4	4,269	1,201	1,394	2,362	1,419	2,717
GH-085C-080F/O4	4,237	1,188	1,376	3,562	2,307	5,185
GH-085C-090F/O4	4,200	1,173	1,356	4,922	3,314	7,981
GH-085C-050F/O5						
GH-085C-060F/O5						
GH-085C-070F/O5						
GH-085C-080F/O5	6,560	1,845	2,141	2,742	1,519	2,348
GH-085C-090F/O5	6,523	1,830	2,120	4,103	2,530	5,144
GH-085C-050F/O6						
GH-085C-060F/O6						
GH-085C-070F/O6						
GH-085C-080F/O6	8,020	2,233	2,575	2,277	635	565
GH-085C-090F/O6	7,983	2,218	2,554	3,637	2,056	3,362
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1						
GH-100C-080F/O1						
GH-100C-090F/O1	10,209	2,465	2,599	4,879	2,551	3,296
GH-100C-110F/O1	10,141	2,436	2,561	8,706	5,407	11,163
GH-100C-080F/O2						

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2	11,978	3,192	3,579	3,829	1,240	1,136
GH-100C-110F/O2	11,909	3,164	3,541	7,655	4,629	9,004
GH-130C-070F/O1						
GH-130C-080F/O1						
GH-130C-090F/O1	15,254	4,391	5,173	4,430	1,963	1,885
GH-130C-100F/O1	15,190	4,366	5,137	6,808	3,926	6,775
GH-130C-110F/O1	15,256	4,392	5,174	9,510	5,927	12,329
GH-130C-125F/O1	15,176	4,360	5,130	13,944	9,208	21,444
GH-130C-080F/O2						
GH-130C-090F/O2						
GH-130C-100F/O2	18,656	5,098	5,807	6,090	2,654	2,543
GH-130C-110F/O2	18,721	5,124	5,844	8,792	4,965	8,098
GH-130C-125F/O2	18,642	5,092	5,800	13,226	8,253	17,213
GH-130C-070F/O3						
GH-130C-080F/O3						
GH-130C-090F/O3	13,501	4,034	4,867	4,758	2,628	4,026
GH-130C-100F/O3	13,437	4,008	4,832	7,136	4,396	8,915
GH-130C-110F/O3	13,502	4,034	4,868	9,838	6,395	14,470
GH-130C-125F/O3	13,423	4,003	4,824	14,272	9,677	23,585
GH-130C-080F/O4						
GH-130C-090F/O4	15,238	4,721	5,829	3,726	1,832	1,905
GH-130C-100F/O4	15,174	4,695	5,794	6,105	3,632	6,795
GH-130C-110F/O4	15,239	4,721	5,830	8,806	5,632	12,349
GH-130C-125F/O4	15,160	4,690	5,786	13,240	8,913	21,464
GH-130C-080F/O5						
GH-130C-090F/O5						
GH-130C-100F/O5						
GH-130C-110F/O5	20,149	5,919	7,065	7,483	4,138	6,355
GH-130C-125F/O5	20,069	5,887	7,021	11,917	7,430	15,470
GH-130C-140F/O5	19,980	5,852	6,971	16,916	11,130	25,749
GH-130C-090F/O6						
GH-130C-100F/O6						
GH-130C-110F/O6						
GH-130C-125F/O6	26,993	7,445	8,533	10,295	5,394	7,017
GH-130C-140F/O6	26,903	7,409	8,484	15,295	9,142	17,296
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 RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
METRIC

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						
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-110F/O1						
GH-200C-125F/O1						
GH-200C-140F/O1	50,960	15,544	19,004	17,992	10,176	16,658
GH-200C-160F/O1	50,748	15,461	18,887	29,864	18,974	41,064
GH-200C-180F/O1	50,507	15,365	18,753	43,318	28,931	68,724
GH-200C-125F/O2						
GH-200C-140F/O2						
GH-200C-160F/O2	69,216	20,606	24,805	23,519	12,758	18,515
GH-200C-180F/O2	68,976	20,510	24,672	36,973	22,773	46,175
GH-201C-200F/O3	123,402	35,022	40,882	35,272	12,804	11,957
GH-201C-160F/O7						
GH-201C-200F/O7	96,192	27,430	32,119	44,667	25,873	45,179
GH-270C-200F/O0						
GH-270C-220F/O0	196,660	49,847	54,141	72,590	29,913	28,455
GH-270C-240F/O0	196,438	49,756	54,018	97,554	53,427	79,776
GH-270C-200F/O2						
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4						
GH-270C-220F/O4	186,137	45,484	48,311	78,840	38,963	41,303
GH-271C-200F/O0						
GH-271C-220F/O0	196,660	49,847	54,141	72,590	29,913	28,455
GH-271C-240F/O0	196,438	49,756	54,018	97,554	53,427	79,776
GH-271C-250F/O0	196,319	49,707	53,952	110,849	63,416	107,110
GH-271C-280F/O0	195,935	49,549	53,739	153,993	95,384	195,806

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0	195,655	49,433	53,584	185,469	118,680	260,515
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2						
GH-271C-220F/O2						
GH-271C-240F/O2						
GH-271C-250F/O2	255,079	57,937	59,103	105,327	37,923	35,368
GH-271C-280F/O2	254,695	57,769	58,890	148,471	81,762	124,064
GH-271C-300F/O2	254,414	57,646	58,735	179,947	105,299	188,774
GH-271C-320F/O2	254,115	57,515	58,569	213,594	130,201	257,946
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3						
GH-271C-220F/O3						
GH-271C-240F/O3						
GH-271C-250F/O3						
GH-271C-280F/O3	271,924	65,168	68,434	138,239	73,988	103,029
GH-271C-300F/O3	271,643	65,050	68,278	169,715	97,687	167,738
GH-271C-320F/O3	271,344	64,924	68,112	203,361	122,628	236,910
GH-271C-340F/O3	271,025	64,789	67,936	239,179	149,137	310,545
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4						
GH-271C-220F/O4	186,137	45,484	48,311	78,840	38,963	41,303
GH-271C-240F/O4	185,915	45,391	48,188	103,803	58,140	92,624
GH-271C-250F/O4	185,796	45,342	48,123	117,099	68,068	119,958
GH-271C-280F/O4	185,412	45,181	47,910	160,243	100,010	208,654
GH-271C-300F/O4	185,132	45,064	47,755	191,719	123,305	273,363
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1						
GH-350C-250F/O1						
GH-350C-280F/O1	420,209	77,631	77,170	194,553	62,345	57,010
GH-350C-300F/O1	419,841	77,431	76,967	235,798	120,064	141,804
GH-350C-320F/O1	419,449	77,218	76,749	279,889	153,894	232,446
GH-350C-350F/O1	418,812	76,872	76,397	351,357	207,262	379,373
GH-350C-380F/O1	418,119	76,495	76,013	429,226	264,894	539,459
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			105 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1	1,577	472	571	1,093	707	1,583
GH-065C-060F/O1	1,559	465	562	1,855	1,269	3,149
GH-065C-050F/O2	2,581	761	911	729	355	357
GH-065C-060F/O2	2,563	754	901	1,491	928	1,923
GH-065C-070F/O2	2,541	745	889	2,391	1,594	3,774
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4						
GH-065C-060F/O4	3,299	1,024	1,266	1,099	622	1,024
GH-065C-070F/O4	3,278	1,016	1,255	1,999	1,289	2,874
GH-085C-050F/O1	2,307	650	756	1,447	894	1,824
GH-085C-060F/O1	2,283	641	743	2,454	1,639	3,896
GH-085C-070F/O1	2,255	629	727	3,645	2,514	6,344
GH-085C-050F/O2						
GH-085C-060F/O2	3,771	1,040	1,192	1,973	1,156	2,079
GH-085C-070F/O2	3,743	1,029	1,176	3,164	2,037	4,527
GH-085C-060F/O3						
GH-085C-070F/O3	6,086	1,654	1,878	2,411	1,267	1,667
GH-085C-080F/O3	6,053	1,641	1,860	3,785	2,295	4,492
GH-085C-090F/O3	6,017	1,626	1,840	5,343	3,448	7,694
GH-085C-050F/O4						
GH-085C-060F/O4	4,297	1,212	1,409	1,740	955	1,437
GH-085C-070F/O4	4,269	1,201	1,394	2,930	1,839	3,885
GH-085C-080F/O4	4,237	1,188	1,376	4,304	2,856	6,710
GH-085C-090F/O4	4,200	1,173	1,356	5,862	4,005	9,912
GH-085C-050F/O5						
GH-085C-060F/O5						
GH-085C-070F/O5	6,592	1,857	2,159	2,110	1,031	1,049
GH-085C-080F/O5	6,560	1,845	2,141	3,484	2,072	3,874
GH-085C-090F/O5	6,523	1,830	2,120	5,042	3,225	7,075
GH-085C-050F/O6						
GH-085C-060F/O6						
GH-085C-070F/O6						
GH-085C-080F/O6	8,020	2,233	2,575	3,019	1,588	2,091
GH-085C-090F/O6	7,983	2,218	2,554	4,576	2,753	5,292
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1						
GH-100C-080F/O1	10,238	2,477	2,615	4,136	1,840	1,768
GH-100C-090F/O1	10,209	2,465	2,599	5,997	3,398	5,594
GH-100C-110F/O1						
GH-100C-080F/O2						

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2	11,978	3,192	3,579	4,946	2,603	3,434
GH-100C-110F/O2	11,909	3,164	3,541	9,325	5,865	12,436
GH-130C-070F/O1						
GH-130C-080F/O1						
GH-130C-090F/O1	15,254	4,391	5,173	5,899	3,245	4,906
GH-130C-100F/O1	15,190	4,366	5,137	8,622	5,270	10,504
GH-130C-110F/O1	15,256	4,392	5,174	11,705	7,552	16,842
GH-130C-125F/O1	15,176	4,360	5,130	16,779	11,306	27,272
GH-130C-080F/O2						
GH-130C-090F/O2						
GH-130C-100F/O2	18,656	5,098	5,807	7,904	4,296	6,273
GH-130C-110F/O2	18,721	5,124	5,844	10,987	6,596	12,611
GH-130C-125F/O2	18,642	5,092	5,800	16,060	10,351	23,041
GH-130C-070F/O3						
GH-130C-080F/O3	13,558	4,056	4,899	3,791	1,884	2,038
GH-130C-090F/O3	13,501	4,034	4,867	6,227	3,723	7,047
GH-130C-100F/O3	13,437	4,008	4,832	8,950	5,738	12,645
GH-130C-110F/O3	13,502	4,034	4,868	12,033	8,020	18,983
GH-130C-125F/O3	13,423	4,003	4,824	17,107	11,750	29,413
GH-130C-080F/O4						
GH-130C-090F/O4	15,238	4,721	5,829	5,196	2,957	4,926
GH-130C-100F/O4	15,174	4,695	5,794	7,919	4,975	10,524
GH-130C-110F/O4	15,239	4,721	5,830	11,002	7,256	16,862
GH-130C-125F/O4	15,160	4,690	5,786	16,075	10,997	27,292
GH-130C-080F/O5						
GH-130C-090F/O5						
GH-130C-100F/O5	20,083	5,893	7,028	6,595	3,461	4,530
GH-130C-110F/O5	20,149	5,919	7,065	9,678	5,773	10,868
GH-130C-125F/O5	20,069	5,887	7,021	14,751	9,528	21,298
GH-130C-140F/O5	19,980	5,852	6,971	20,472	13,762	33,059
GH-130C-090F/O6						
GH-130C-100F/O6						
GH-130C-110F/O6	27,072	7,477	8,577	8,056	2,632	2,415
GH-130C-125F/O6	26,993	7,445	8,533	13,130	7,536	12,845
GH-130C-140F/O6	26,903	7,409	8,484	18,851	11,774	24,606
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 RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
METRIC

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						
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-110F/O1						
GH-200C-125F/O1	51,101	15,600	19,082	14,587	7,591	9,656
GH-200C-140F/O1	50,960	15,544	19,004	23,586	14,327	28,157
GH-200C-160F/O1	50,748	15,461	18,887	37,170	24,381	56,083
GH-200C-180F/O1	50,507	15,365	18,753	52,565	35,767	87,733
GH-200C-125F/O2						
GH-200C-140F/O2	69,429	20,690	24,923	17,241	6,040	5,608
GH-200C-160F/O2	69,216	20,606	24,805	30,825	18,222	33,534
GH-200C-180F/O2	68,976	20,510	24,672	46,220	29,616	65,184
GH-201C-200F/O3	123,402	35,022	40,882	46,687	25,098	35,424
GH-201C-160F/O7						
GH-201C-200F/O7	96,192	27,430	32,119	56,082	34,327	68,646
GH-270C-200F/O0	196,863	49,931	54,253	65,377	15,829	13,625
GH-270C-220F/O0	196,660	49,847	54,141	91,441	48,777	67,210
GH-270C-240F/O0	196,438	49,756	54,018	119,988	70,217	125,898
GH-270C-200F/O2						
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4	186,340	45,569	48,424	71,626	28,031	26,473
GH-270C-220F/O4	186,137	45,484	48,311	97,691	53,531	80,058
GH-271C-200F/O0	196,863	49,931	54,253	65,377	15,829	13,625
GH-271C-220F/O0	196,660	49,847	54,141	91,441	48,777	67,210
GH-271C-240F/O0	196,438	49,756	54,018	119,988	70,217	125,898
GH-271C-250F/O0	196,319	49,707	53,952	135,192	81,470	157,155
GH-271C-280F/O0	195,935	49,549	53,739	184,529	117,984	258,583

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0						
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2						
GH-271C-220F/O2						
GH-271C-240F/O2	255,197	57,989	59,168	114,466	55,389	54,156
GH-271C-250F/O2	255,079	57,937	59,103	129,670	67,405	85,413
GH-271C-280F/O2	254,695	57,769	58,890	179,007	104,600	186,841
GH-271C-300F/O2	254,414	57,646	58,735	215,001	131,243	260,839
GH-271C-320F/O2						
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3						
GH-271C-220F/O3						
GH-271C-240F/O3	272,426	65,380	68,712	104,234	35,788	33,120
GH-271C-250F/O3	272,308	65,330	68,647	119,438	59,383	64,378
GH-271C-280F/O3	271,924	65,168	68,434	168,775	96,988	165,806
GH-271C-300F/O3	271,643	65,050	68,278	204,769	123,670	239,803
GH-271C-320F/O3	271,344	64,924	68,112	243,245	152,147	318,904
GH-271C-340F/O3						
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4	186,340	45,569	48,424	71,626	28,031	26,473
GH-271C-220F/O4	186,137	45,484	48,311	97,691	53,531	80,058
GH-271C-240F/O4	185,915	45,391	48,188	126,238	74,842	138,746
GH-271C-250F/O4	185,796	45,342	48,123	141,442	86,095	170,003
GH-271C-280F/O4	185,412	45,181	47,910	190,779	122,610	271,431
GH-271C-300F/O4						
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1						
GH-350C-250F/O1						
GH-350C-280F/O1	420,209	77,631	77,170	234,567	119,098	139,272
GH-350C-300F/O1	419,841	77,431	76,967	281,733	155,285	236,237
GH-350C-320F/O1	419,449	77,218	76,749	332,152	193,016	339,890
GH-350C-350F/O1	418,812	76,872	76,397	413,879	253,535	507,908
GH-350C-380F/O1						
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			120 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1						
GH-065C-060F/O1						
GH-065C-050F/O2						
GH-065C-060F/O2						
GH-065C-070F/O2						
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4						
GH-065C-060F/O4						
GH-065C-070F/O4						
GH-085C-050F/O1						
GH-085C-060F/O1						
GH-085C-070F/O1						
GH-085C-050F/O2						
GH-085C-060F/O2						
GH-085C-070F/O2						
GH-085C-060F/O3						
GH-085C-070F/O3						
GH-085C-080F/O3						
GH-085C-090F/O3						
GH-085C-050F/O4						
GH-085C-060F/O4						
GH-085C-070F/O4						
GH-085C-080F/O4						
GH-085C-090F/O4						
GH-085C-050F/O5						
GH-085C-060F/O5						
GH-085C-070F/O5						
GH-085C-080F/O5						
GH-085C-090F/O5						
GH-085C-050F/O6						
GH-085C-060F/O6						
GH-085C-070F/O6						
GH-085C-080F/O6						
GH-085C-090F/O6						
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1						
GH-100C-080F/O1						
GH-100C-090F/O1						
GH-100C-110F/O1						
GH-100C-080F/O2						

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2						
GH-100C-110F/O2						
GH-130C-070F/O1						
GH-130C-080F/O1						
GH-130C-090F/O1						
GH-130C-100F/O1						
GH-130C-110F/O1						
GH-130C-125F/O1						
GH-130C-080F/O2						
GH-130C-090F/O2						
GH-130C-100F/O2						
GH-130C-110F/O2						
GH-130C-125F/O2						
GH-130C-070F/O3						
GH-130C-080F/O3						
GH-130C-090F/O3						
GH-130C-100F/O3						
GH-130C-110F/O3						
GH-130C-125F/O3						
GH-130C-080F/O4						
GH-130C-090F/O4						
GH-130C-100F/O4						
GH-130C-110F/O4						
GH-130C-125F/O4						
GH-130C-080F/O5						
GH-130C-090F/O5						
GH-130C-100F/O5						
GH-130C-110F/O5						
GH-130C-125F/O5						
GH-130C-140F/O5						
GH-130C-090F/O6						
GH-130C-100F/O6						
GH-130C-110F/O6						
GH-130C-125F/O6						
GH-130C-140F/O6						
GH-161C-110F/O2	25,871	7,949	9,763	12,636	7,802	15,909
GH-161C-110F/O3						
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2	25,942	7,977	9,802	19,572	12,936	30,168
GH-161C-125F/O3	30,087	9,611	12,098	17,110	11,114	25,107
GH-161C-125F/O4						
GH-161C-125F/O5						
GH-161C-140F/O2	25,830	7,933	9,740	27,291	18,632	46,036
GH-161C-140F/O3	29,975	9,567	12,036	24,829	16,827	40,975
GH-161C-140F/O4	38,634	12,354	15,562	21,049	13,598	30,404

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4	38,466	12,288	15,469	32,700	22,221	54,356
GH-161C-160F/O5	49,666	15,359	18,944	28,975	18,538	40,681
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-110F/O1						
GH-200C-125F/O1						
GH-200C-140F/O1						
GH-200C-160F/O1						
GH-200C-180F/O1						
GH-200C-125F/O2						
GH-200C-140F/O2						
GH-200C-160F/O2						
GH-200C-180F/O2						
GH-201C-200F/O3						
GH-201C-160F/O7						
GH-201C-200F/O7						
GH-270C-200F/O0						
GH-270C-220F/O0						
GH-270C-240F/O0						
GH-270C-200F/O2						
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4						
GH-270C-220F/O4						
GH-271C-200F/O0						
GH-271C-220F/O0						
GH-271C-240F/O0						
GH-271C-250F/O0						
GH-271C-280F/O0						

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0						
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2						
GH-271C-220F/O2						
GH-271C-240F/O2						
GH-271C-250F/O2						
GH-271C-280F/O2						
GH-271C-300F/O2						
GH-271C-320F/O2						
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3						
GH-271C-220F/O3						
GH-271C-240F/O3						
GH-271C-250F/O3						
GH-271C-280F/O3						
GH-271C-300F/O3						
GH-271C-320F/O3						
GH-271C-340F/O3						
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4						
GH-271C-220F/O4						
GH-271C-240F/O4						
GH-271C-250F/O4						
GH-271C-280F/O4						
GH-271C-300F/O4						
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1						
GH-350C-250F/O1						
GH-350C-280F/O1						
GH-350C-300F/O1						
GH-350C-320F/O1						
GH-350C-350F/O1						
GH-350C-380F/O1						
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			130 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1	1,577	472	571	1,385	923	2,183
GH-065C-060F/O1						
GH-065C-050F/O2	2,581	761	911	1,022	580	958
GH-065C-060F/O2	2,563	754	901	1,912	1,239	2,788
GH-065C-070F/O2						
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4						
GH-065C-060F/O4	3,299	1,024	1,266	1,520	934	1,889
GH-065C-070F/O4						
GH-085C-050F/O1	2,307	650	756	1,833	1,180	2,619
GH-085C-060F/O1	2,283	641	743	3,011	2,050	5,040
GH-085C-070F/O1	2,255	629	727	4,403	3,066	7,901
GH-085C-050F/O2	3,795	1,049	1,205	1,352	686	802
GH-085C-060F/O2	3,771	1,040	1,192	2,529	1,568	3,223
GH-085C-070F/O2	3,743	1,029	1,176	3,921	2,598	6,085
GH-085C-060F/O3	6,114	1,665	1,894	1,777	424	363
GH-085C-070F/O3	6,086	1,654	1,878	3,169	1,838	3,225
GH-085C-080F/O3	6,053	1,641	1,860	4,775	3,027	6,526
GH-085C-090F/O3						
GH-085C-050F/O4						
GH-085C-060F/O4	4,297	1,212	1,409	2,296	1,370	2,581
GH-085C-070F/O4	4,269	1,201	1,394	3,688	2,400	5,443
GH-085C-080F/O4	4,237	1,188	1,376	5,294	3,589	8,744
GH-085C-090F/O4						
GH-085C-050F/O5						
GH-085C-060F/O5						
GH-085C-070F/O5	6,592	1,857	2,159	2,868	1,614	2,606
GH-085C-080F/O5	6,560	1,845	2,141	4,474	2,805	5,908
GH-085C-090F/O5	6,523	1,830	2,120	6,294	4,152	9,650
GH-085C-050F/O6						
GH-085C-060F/O6						
GH-085C-070F/O6	8,052	2,246	2,593	2,403	881	824
GH-085C-080F/O6	8,020	2,233	2,575	4,009	2,333	4,125
GH-085C-090F/O6	7,983	2,218	2,554	5,829	3,680	7,867
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1						
GH-100C-080F/O1	10,238	2,477	2,615	5,313	2,883	4,189
GH-100C-090F/O1	10,209	2,465	2,599	7,487	4,505	8,657
GH-100C-110F/O1						
GH-100C-080F/O2	12,007	3,204	3,595	4,263	2,065	2,029

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2	11,978	3,192	3,579	6,437	3,726	6,498
GH-100C-110F/O2						
GH-130C-070F/O1						
GH-130C-080F/O1	15,162	4,354	5,122	5,100	2,633	3,263
GH-130C-090F/O1	15,254	4,391	5,173	7,859	4,705	8,934
GH-130C-100F/O1	15,190	4,366	5,137	11,041	7,060	15,477
GH-130C-110F/O1	15,256	4,392	5,174	14,632	9,718	22,859
GH-130C-125F/O1						
GH-130C-080F/O2						
GH-130C-090F/O2	18,720	5,124	5,843	7,140	3,711	4,703
GH-130C-100F/O2	18,656	5,098	5,807	10,323	6,105	11,246
GH-130C-110F/O2	18,721	5,124	5,844	13,914	8,762	18,628
GH-130C-125F/O2	18,642	5,092	5,800	19,840	13,148	30,811
GH-130C-070F/O3						
GH-130C-080F/O3	13,558	4,056	4,899	5,339	3,064	5,221
GH-130C-090F/O3	13,501	4,034	4,867	8,187	5,173	11,075
GH-130C-100F/O3	13,437	4,008	4,832	11,369	7,529	17,618
GH-130C-110F/O3	13,502	4,034	4,868	14,960	10,183	25,000
GH-130C-125F/O3						
GH-130C-080F/O4	15,296	4,743	5,861	4,307	2,286	3,100
GH-130C-090F/O4	15,238	4,721	5,829	7,155	4,409	8,954
GH-130C-100F/O4	15,174	4,695	5,794	10,338	6,765	15,497
GH-130C-110F/O4	15,239	4,721	5,830	13,928	9,423	22,879
GH-130C-125F/O4						
GH-130C-080F/O5						
GH-130C-090F/O5	20,147	5,918	7,064	5,831	2,863	2,960
GH-130C-100F/O5	20,083	5,893	7,028	9,014	5,282	9,503
GH-130C-110F/O5	20,149	5,919	7,065	12,605	7,939	16,885
GH-130C-125F/O5	20,069	5,887	7,021	18,531	12,325	29,068
GH-130C-140F/O5						
GH-130C-090F/O6						
GH-130C-100F/O6						
GH-130C-110F/O6	27,072	7,477	8,577	10,983	5,921	8,432
GH-130C-125F/O6	26,993	7,445	8,533	16,909	10,337	20,615
GH-130C-140F/O6	26,903	7,409	8,484	23,592	15,283	34,353
GH-161C-110F/O2	25,871	7,949	9,763	14,457	9,151	19,653
GH-161C-110F/O3						
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2	25,942	7,977	9,802	21,924	14,677	35,003
GH-161C-125F/O3	30,087	9,611	12,098	19,462	12,855	29,942
GH-161C-125F/O4						
GH-161C-125F/O5						
GH-161C-140F/O2	25,830	7,933	9,740	30,241	20,786	52,102
GH-161C-140F/O3	29,975	9,567	12,036	27,779	18,989	47,041
GH-161C-140F/O4	38,634	12,354	15,562	23,999	15,782	36,469

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4	38,466	12,288	15,469	36,553	25,035	62,278
GH-161C-160F/O5	49,666	15,359	18,944	32,828	21,390	48,604
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-110F/O1	51,226	15,649	19,151	11,210	3,065	2,715
GH-200C-125F/O1	51,101	15,600	19,082	20,532	12,067	21,879
GH-200C-140F/O1	50,960	15,544	19,004	31,044	19,847	43,489
GH-200C-160F/O1	50,748	15,461	18,887	46,910	31,590	76,109
GH-200C-180F/O1						
GH-200C-125F/O2						
GH-200C-140F/O2	69,429	20,690	24,923	24,699	13,651	20,940
GH-200C-160F/O2	69,216	20,606	24,805	40,565	25,431	53,560
GH-200C-180F/O2	68,976	20,510	24,672	58,548	38,740	90,529
GH-201C-200F/O3	123,402	35,022	40,882	61,907	36,498	66,714
GH-201C-160F/O7	95,994	27,351	32,010	32,841	16,930	20,866
GH-201C-200F/O7	96,192	27,430	32,119	71,302	45,592	99,936
GH-270C-200F/O0	196,863	49,931	54,253	86,149	44,705	56,331
GH-270C-220F/O0	196,660	49,847	54,141	116,576	67,679	118,883
GH-270C-240F/O0	196,438	49,756	54,018	149,901	92,356	187,393
GH-270C-200F/O2						
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4	186,340	45,569	48,424	92,399	49,509	69,179
GH-270C-220F/O4	186,137	45,484	48,311	122,826	72,317	131,731
GH-271C-200F/O0	196,863	49,931	54,253	86,149	44,705	56,331
GH-271C-220F/O0	196,660	49,847	54,141	116,576	67,679	118,883
GH-271C-240F/O0	196,438	49,756	54,018	149,901	92,356	187,393
GH-271C-250F/O0	196,319	49,707	53,952	167,650	105,492	223,882
GH-271C-280F/O0						

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0						
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2						
GH-271C-220F/O2	255,419	58,086	59,291	111,054	49,105	47,141
GH-271C-240F/O2	255,197	57,989	59,168	144,379	78,661	115,651
GH-271C-250F/O2	255,079	57,937	59,103	162,128	92,021	152,140
GH-271C-280F/O2	254,695	57,769	58,890	219,721	134,737	270,544
GH-271C-300F/O2						
GH-271C-320F/O2						
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3						
GH-271C-220F/O3	272,648	65,474	68,835	100,822	29,126	26,106
GH-271C-240F/O3	272,426	65,380	68,712	134,147	70,855	94,616
GH-271C-250F/O3	272,308	65,330	68,647	151,896	84,342	131,105
GH-271C-280F/O3	271,924	65,168	68,434	209,489	127,164	249,508
GH-271C-300F/O3						
GH-271C-320F/O3						
GH-271C-340F/O3						
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4	186,340	45,569	48,424	92,399	49,509	69,179
GH-271C-220F/O4	186,137	45,484	48,311	122,826	72,317	131,731
GH-271C-240F/O4	185,915	45,391	48,188	156,150	96,981	200,241
GH-271C-250F/O4	185,796	45,342	48,123	173,899	110,117	236,730
GH-271C-280F/O4						
GH-271C-300F/O4						
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1						
GH-350C-250F/O1	420,712	77,904	77,449	212,449	97,288	93,800
GH-350C-280F/O1	420,209	77,631	77,170	287,919	159,944	248,954
GH-350C-300F/O1	419,841	77,431	76,967	342,978	201,061	362,148
GH-350C-320F/O1	419,449	77,218	76,749	401,836	244,622	483,149
GH-350C-350F/O1						
GH-350C-380F/O1						
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			140 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1	1,577	472	571	1,677	1,139	2,784
GH-065C-060F/O1						
GH-065C-050F/O2	2,581	761	911	1,314	796	1,559
GH-065C-060F/O2	2,563	754	901	2,333	1,550	3,653
GH-065C-070F/O2						
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4	3,317	1,031	1,276	922	488	659
GH-065C-060F/O4	3,299	1,024	1,266	1,941	1,246	2,754
GH-065C-070F/O4						
GH-085C-050F/O1	2,307	650	756	2,220	1,466	3,413
GH-085C-060F/O1	2,283	641	743	3,568	2,457	6,184
GH-085C-070F/O1	2,255	629	727	5,160	3,619	9,459
GH-085C-050F/O2	3,795	1,049	1,205	1,738	981	1,597
GH-085C-060F/O2	3,771	1,040	1,192	3,086	1,980	4,367
GH-085C-070F/O2	3,743	1,029	1,176	4,679	3,158	7,642
GH-085C-060F/O3	6,114	1,665	1,894	2,334	1,207	1,508
GH-085C-070F/O3	6,086	1,654	1,878	3,926	2,399	4,782
GH-085C-080F/O3	6,053	1,641	1,860	5,764	3,760	8,560
GH-085C-090F/O3						
GH-085C-050F/O4	4,321	1,221	1,422	1,505	775	955
GH-085C-060F/O4	4,297	1,212	1,409	2,853	1,782	3,726
GH-085C-070F/O4	4,269	1,201	1,394	4,446	2,961	7,000
GH-085C-080F/O4						
GH-085C-090F/O4						
GH-085C-050F/O5						
GH-085C-060F/O5	6,620	1,869	2,174	2,033	923	889
GH-085C-070F/O5	6,592	1,857	2,159	3,626	2,177	4,164
GH-085C-080F/O5	6,560	1,845	2,141	5,463	3,537	7,942
GH-085C-090F/O5						
GH-085C-050F/O6						
GH-085C-060F/O6						
GH-085C-070F/O6	8,052	2,246	2,593	3,160	1,696	2,381
GH-085C-080F/O6	8,020	2,233	2,575	4,998	3,066	6,159
GH-085C-090F/O6						
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1	10,264	2,488	2,630	4,297	2,093	2,099
GH-100C-080F/O1	10,238	2,477	2,615	6,491	3,766	6,609
GH-100C-090F/O1	10,209	2,465	2,599	8,977	5,607	11,721
GH-100C-110F/O1						
GH-100C-080F/O2	12,007	3,204	3,595	5,440	2,979	4,450

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2	11,978	3,192	3,579	7,927	4,830	9,561
GH-100C-110F/O2						
GH-130C-070F/O1						
GH-130C-080F/O1	15,162	4,354	5,122	6,648	3,807	6,445
GH-130C-090F/O1	15,254	4,391	5,173	9,818	6,155	12,962
GH-130C-100F/O1	15,190	4,366	5,137	13,460	8,850	20,450
GH-130C-110F/O1	15,256	4,392	5,174	17,559	11,884	28,876
GH-130C-125F/O1						
GH-130C-080F/O2	18,777	5,147	5,875	5,841	2,168	2,031
GH-130C-090F/O2	18,720	5,124	5,843	9,100	5,196	8,731
GH-130C-100F/O2	18,656	5,098	5,807	12,742	7,895	16,219
GH-130C-110F/O2	18,721	5,124	5,844	16,841	10,928	24,645
GH-130C-125F/O2						
GH-130C-070F/O3	13,609	4,076	4,927	4,012	2,057	2,492
GH-130C-080F/O3	13,558	4,056	4,899	6,887	4,211	8,403
GH-130C-090F/O3	13,501	4,034	4,867	10,146	6,623	15,103
GH-130C-100F/O3	13,437	4,008	4,832	13,788	9,319	22,591
GH-130C-110F/O3	13,502	4,034	4,868	17,887	12,320	31,017
GH-130C-125F/O3						
GH-130C-080F/O4	15,296	4,743	5,861	5,855	3,448	6,282
GH-130C-090F/O4	15,238	4,721	5,829	9,114	5,860	12,982
GH-130C-100F/O4	15,174	4,695	5,794	12,756	8,555	20,470
GH-130C-110F/O4	15,239	4,721	5,830	16,855	11,567	28,896
GH-130C-125F/O4						
GH-130C-080F/O5						
GH-130C-090F/O5	20,147	5,918	7,064	7,791	4,369	6,988
GH-130C-100F/O5	20,083	5,893	7,028	11,433	7,072	14,476
GH-130C-110F/O5	20,149	5,919	7,065	15,532	10,106	22,902
GH-130C-125F/O5						
GH-130C-140F/O5						
GH-130C-090F/O6						
GH-130C-100F/O6	27,007	7,451	8,541	9,811	5,019	6,022
GH-130C-110F/O6	27,072	7,477	8,577	13,910	8,117	14,449
GH-130C-125F/O6	26,993	7,445	8,533	20,689	13,134	28,385
GH-130C-140F/O6						
GH-161C-110F/O2	25,871	7,949	9,763	18,100	11,847	27,142
GH-161C-110F/O3	30,016	9,583	12,059	15,638	10,025	22,081
GH-161C-110F/O4						
GH-161C-110F/O5						
GH-161C-125F/O2	25,942	7,977	9,802	26,628	18,149	44,674
GH-161C-125F/O3	30,087	9,611	12,098	24,166	16,336	39,613
GH-161C-125F/O4	38,745	12,398	15,624	20,386	13,108	29,041
GH-161C-125F/O5						
GH-161C-140F/O2	25,830	7,933	9,740	36,142	25,092	64,232
GH-161C-140F/O3	29,975	9,567	12,036	33,680	23,297	59,172
GH-161C-140F/O4	38,634	12,354	15,562	29,900	20,149	48,600

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5	49,834	15,426	19,037	26,175	16,466	34,925
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						
GH-161C-160F/O5	49,666	15,359	18,944	40,535	27,094	64,448
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-110F/O1	51,226	15,649	19,151	15,814	8,533	12,180
GH-200C-125F/O1	51,101	15,600	19,082	26,477	16,467	34,101
GH-200C-140F/O1	50,960	15,544	19,004	38,501	25,366	58,821
GH-200C-160F/O1	50,748	15,461	18,887	56,651	38,751	96,134
GH-200C-180F/O1						
GH-200C-125F/O2	69,570	20,746	25,001	20,132	10,146	11,552
GH-200C-140F/O2	69,429	20,690	24,923	32,156	19,207	36,272
GH-200C-160F/O2	69,216	20,606	24,805	50,306	32,640	73,585
GH-200C-180F/O2						
GH-201C-200F/O3	123,402	35,022	40,882	77,127	47,763	98,004
GH-201C-160F/O7	95,994	27,351	32,010	42,582	24,320	40,892
GH-201C-200F/O7	96,192	27,430	32,119	86,522	56,856	131,225
GH-270C-200F/O0	196,863	49,931	54,253	106,922	60,477	99,036
GH-270C-220F/O0	196,660	49,847	54,141	141,711	86,294	170,557
GH-270C-240F/O0	196,438	49,756	54,018	179,814	114,494	248,889
GH-270C-200F/O2	255,622	58,175	59,404	101,400	30,254	27,294
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4	186,340	45,569	48,424	113,172	65,146	111,884
GH-270C-220F/O4	186,137	45,484	48,311	147,961	90,920	183,405
GH-271C-200F/O0	196,863	49,931	54,253	106,922	60,477	99,036
GH-271C-220F/O0	196,660	49,847	54,141	141,711	86,294	170,557
GH-271C-240F/O0	196,438	49,756	54,018	179,814	114,494	248,889
GH-271C-250F/O0	196,319	49,707	53,952	200,107	129,514	290,609
GH-271C-280F/O0						

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0						
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2	255,622	58,175	59,404	101,400	30,254	27,294
GH-271C-220F/O2	255,419	58,086	59,291	136,189	72,422	98,815
GH-271C-240F/O2	255,197	57,989	59,168	174,292	101,092	177,147
GH-271C-250F/O2	255,079	57,937	59,103	194,585	116,133	218,868
GH-271C-280F/O2						
GH-271C-300F/O2						
GH-271C-320F/O2						
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3						
GH-271C-220F/O3	272,648	65,474	68,835	125,957	64,517	77,779
GH-271C-240F/O3	272,426	65,380	68,712	164,059	93,467	156,111
GH-271C-250F/O3	272,308	65,330	68,647	184,353	108,560	197,832
GH-271C-280F/O3						
GH-271C-300F/O3						
GH-271C-320F/O3						
GH-271C-340F/O3						
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4	186,340	45,569	48,424	113,172	65,146	111,884
GH-271C-220F/O4	186,137	45,484	48,311	147,961	90,920	183,405
GH-271C-240F/O4	185,915	45,391	48,188	186,063	119,120	261,737
GH-271C-250F/O4	185,796	45,342	48,123	206,357	134,139	303,457
GH-271C-280F/O4						
GH-271C-300F/O4						
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1						
GH-350C-250F/O1	420,712	77,904	77,449	254,980	134,930	181,238
GH-350C-280F/O1	420,209	77,631	77,170	341,270	199,797	358,637
GH-350C-300F/O1	419,841	77,431	76,967	404,224	246,390	488,059
GH-350C-320F/O1						
GH-350C-350F/O1						
GH-350C-380F/O1						
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			160 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1	1,577	472	571	1,970	1,353	3,385
GH-065C-060F/O1						
GH-065C-050F/O2	2,581	761	911	1,606	1,013	2,159
GH-065C-060F/O2						
GH-065C-070F/O2						
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4	3,317	1,031	1,276	1,214	708	1,260
GH-065C-060F/O4	3,299	1,024	1,266	2,361	1,557	3,618
GH-065C-070F/O4						
GH-085C-050F/O1	2,307	650	756	2,606	1,752	4,208
GH-085C-060F/O1	2,283	641	743	4,124	2,863	7,328
GH-085C-070F/O1						
GH-085C-050F/O2	3,795	1,049	1,205	2,125	1,268	2,391
GH-085C-060F/O2	3,771	1,040	1,192	3,643	2,391	5,512
GH-085C-070F/O2	3,743	1,029	1,176	5,436	3,715	9,199
GH-085C-060F/O3	6,114	1,665	1,894	2,890	1,630	2,652
GH-085C-070F/O3	6,086	1,654	1,878	4,684	2,960	6,340
GH-085C-080F/O3						
GH-085C-090F/O3						
GH-085C-050F/O4	4,321	1,221	1,422	1,891	1,069	1,750
GH-085C-060F/O4	4,297	1,212	1,409	3,409	2,194	4,870
GH-085C-070F/O4	4,269	1,201	1,394	5,203	3,521	8,558
GH-085C-080F/O4						
GH-085C-090F/O4						
GH-085C-050F/O5						
GH-085C-060F/O5	6,620	1,869	2,174	2,589	1,404	2,033
GH-085C-070F/O5	6,592	1,857	2,159	4,383	2,737	5,721
GH-085C-080F/O5	6,560	1,845	2,141	6,453	4,269	9,976
GH-085C-090F/O5						
GH-085C-050F/O6						
GH-085C-060F/O6						
GH-085C-070F/O6	8,052	2,246	2,593	3,918	2,265	3,938
GH-085C-080F/O6	8,020	2,233	2,575	5,988	3,798	8,194
GH-085C-090F/O6						
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1	10,264	2,488	2,630	5,198	2,796	3,952
GH-100C-080F/O1	10,238	2,477	2,615	7,668	4,639	9,030
GH-100C-090F/O1						
GH-100C-110F/O1						
GH-100C-080F/O2	12,007	3,204	3,595	6,618	3,861	6,870

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2	11,978	3,192	3,579	9,417	5,933	12,625
GH-100C-110F/O2						
GH-130C-070F/O1	15,213	4,374	5,150	4,958	2,522	2,971
GH-130C-080F/O1	15,162	4,354	5,122	8,196	4,954	9,628
GH-130C-090F/O1	15,254	4,391	5,173	11,777	7,605	16,990
GH-130C-100F/O1	15,190	4,366	5,137	15,879	10,641	25,423
GH-130C-110F/O1	15,256	4,392	5,174	20,486	14,029	34,893
GH-130C-125F/O1						
GH-130C-080F/O2	18,777	5,147	5,875	7,389	3,903	5,214
GH-130C-090F/O2	18,720	5,124	5,843	11,059	6,649	12,759
GH-130C-100F/O2	18,656	5,098	5,807	15,161	9,685	21,191
GH-130C-110F/O2	18,721	5,124	5,844	19,768	13,095	30,662
GH-130C-125F/O2						
GH-130C-070F/O3	13,609	4,076	4,927	5,197	2,958	4,928
GH-130C-080F/O3	13,558	4,056	4,899	8,435	5,357	11,586
GH-130C-090F/O3	13,501	4,034	4,867	12,105	8,073	19,131
GH-130C-100F/O3	13,437	4,008	4,832	16,207	11,094	27,564
GH-130C-110F/O3						
GH-130C-125F/O3						
GH-130C-080F/O4	15,296	4,743	5,861	7,403	4,593	9,465
GH-130C-090F/O4	15,238	4,721	5,829	11,074	7,310	17,010
GH-130C-100F/O4	15,174	4,695	5,794	15,175	10,341	25,443
GH-130C-110F/O4	15,239	4,721	5,830	19,782	13,703	34,913
GH-130C-125F/O4						
GH-130C-080F/O5	20,205	5,941	7,096	6,080	3,060	3,471
GH-130C-090F/O5	20,147	5,918	7,064	9,750	5,826	11,016
GH-130C-100F/O5	20,083	5,893	7,028	13,852	8,862	19,449
GH-130C-110F/O5	20,149	5,919	7,065	18,459	12,272	28,919
GH-130C-125F/O5						
GH-130C-140F/O5						
GH-130C-090F/O6	27,071	7,477	8,576	8,128	2,772	2,563
GH-130C-100F/O6	27,007	7,451	8,541	12,230	6,864	10,995
GH-130C-110F/O6	27,072	7,477	8,577	16,837	10,284	20,466
GH-130C-125F/O6						
GH-130C-140F/O6						
GH-161C-110F/O2	25,871	7,949	9,763	21,743	14,543	34,631
GH-161C-110F/O3	30,016	9,583	12,059	19,281	12,721	29,570
GH-161C-110F/O4	38,844	12,437	15,678	15,592	9,560	19,186
GH-161C-110F/O5						
GH-161C-125F/O2	25,942	7,977	9,802	31,332	21,583	54,344
GH-161C-125F/O3	30,087	9,611	12,098	28,870	19,786	49,284
GH-161C-125F/O4	38,745	12,398	15,624	25,090	16,589	38,712
GH-161C-125F/O5	49,945	15,470	19,098	21,365	12,906	25,037
GH-161C-140F/O2						
GH-161C-140F/O3						
GH-161C-140F/O4	38,634	12,354	15,562	35,801	24,486	60,731

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5	49,834	15,426	19,037	32,075	20,833	47,056
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						
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-110F/O1	51,226	15,649	19,151	20,418	11,983	21,645
GH-200C-125F/O1	51,101	15,600	19,082	32,422	20,867	46,324
GH-200C-140F/O1	50,960	15,544	19,004	45,959	30,886	74,153
GH-200C-160F/O1						
GH-200C-180F/O1						
GH-200C-125F/O2	69,570	20,746	25,001	26,077	14,688	23,775
GH-200C-140F/O2	69,429	20,690	24,923	39,614	24,727	51,604
GH-200C-160F/O2	69,216	20,606	24,805	60,047	39,850	93,611
GH-200C-180F/O2						
GH-201C-200F/O3	123,402	35,022	40,882	92,347	59,027	129,293
GH-201C-160F/O7	95,994	27,351	32,010	52,323	31,545	60,917
GH-201C-200F/O7						
GH-270C-200F/O0	196,863	49,931	54,253	127,695	75,921	141,741
GH-270C-220F/O0	196,660	49,847	54,141	166,846	104,897	222,230
GH-270C-240F/O0						
GH-270C-200F/O2	255,622	58,175	59,404	122,173	61,550	69,999
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4	186,340	45,569	48,424	133,944	80,546	154,589
GH-270C-220F/O4	186,137	45,484	48,311	173,096	109,522	235,078
GH-271C-200F/O0	196,863	49,931	54,253	127,695	75,921	141,741
GH-271C-220F/O0	196,660	49,847	54,141	166,846	104,897	222,230
GH-271C-240F/O0	196,438	49,756	54,018	209,726	136,633	310,385
GH-271C-250F/O0						
GH-271C-280F/O0						

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0						
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2	255,622	58,175	59,404	122,173	61,550	69,999
GH-271C-220F/O2	255,419	58,086	59,291	161,324	91,420	150,488
GH-271C-240F/O2	255,197	57,989	59,168	204,204	123,252	238,643
GH-271C-250F/O2	255,079	57,937	59,103	227,043	140,155	285,595
GH-271C-280F/O2						
GH-271C-300F/O2						
GH-271C-320F/O2						
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3	272,851	65,559	68,948	111,941	50,835	48,964
GH-271C-220F/O3	272,648	65,474	68,835	151,092	83,736	129,453
GH-271C-240F/O3	272,426	65,380	68,712	193,972	115,679	217,607
GH-271C-250F/O3	272,308	65,330	68,647	216,810	132,582	264,559
GH-271C-280F/O3						
GH-271C-300F/O3						
GH-271C-320F/O3						
GH-271C-340F/O3						
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4	186,340	45,569	48,424	133,944	80,546	154,589
GH-271C-220F/O4	186,137	45,484	48,311	173,096	109,522	235,078
GH-271C-240F/O4						
GH-271C-250F/O4						
GH-271C-280F/O4						
GH-271C-300F/O4						
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1	421,159	78,147	77,696	211,395	95,231	91,635
GH-350C-250F/O1	420,712	77,904	77,449	297,512	167,164	268,677
GH-350C-280F/O1	420,209	77,631	77,170	394,622	239,283	468,319
GH-350C-300F/O1						
GH-350C-320F/O1						
GH-350C-350F/O1						
GH-350C-380F/O1						
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			180 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1	1,577	472	571	2,262	1,566	3,985
GH-065C-060F/O1						
GH-065C-050F/O2	2,581	761	911	1,898	1,229	2,760
GH-065C-060F/O2						
GH-065C-070F/O2						
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4	3,317	1,031	1,276	1,506	924	1,860
GH-065C-060F/O4						
GH-065C-070F/O4						
GH-085C-050F/O1	2,307	650	756	2,993	2,037	5,003
GH-085C-060F/O1	2,283	641	743	4,681	3,269	8,473
GH-085C-070F/O1						
GH-085C-050F/O2	3,795	1,049	1,205	2,511	1,554	3,186
GH-085C-060F/O2	3,771	1,040	1,192	4,199	2,803	6,656
GH-085C-070F/O2						
GH-085C-060F/O3	6,114	1,665	1,894	3,447	2,044	3,796
GH-085C-070F/O3	6,086	1,654	1,878	5,441	3,521	7,897
GH-085C-080F/O3						
GH-085C-090F/O3						
GH-085C-050F/O4	4,321	1,221	1,422	2,278	1,357	2,544
GH-085C-060F/O4	4,297	1,212	1,409	3,966	2,606	6,014
GH-085C-070F/O4						
GH-085C-080F/O4						
GH-085C-090F/O4						
GH-085C-050F/O5						
GH-085C-060F/O5	6,620	1,869	2,174	3,146	1,821	3,178
GH-085C-070F/O5	6,592	1,857	2,159	5,141	3,298	7,279
GH-085C-080F/O5						
GH-085C-090F/O5						
GH-085C-050F/O6						
GH-085C-060F/O6	8,080	2,257	2,608	2,681	1,323	1,395
GH-085C-070F/O6	8,052	2,246	2,593	4,675	2,827	5,496
GH-085C-080F/O6						
GH-085C-090F/O6						
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1	10,264	2,488	2,630	6,100	3,475	5,805
GH-100C-080F/O1	10,238	2,477	2,615	8,846	5,510	11,451
GH-100C-090F/O1						
GH-100C-110F/O1						
GH-100C-080F/O2	12,007	3,204	3,595	7,795	4,733	9,291

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2						
GH-100C-110F/O2						
GH-130C-070F/O1	15,213	4,374	5,150	6,143	3,428	5,407
GH-130C-080F/O1	15,162	4,354	5,122	9,744	6,100	12,811
GH-130C-090F/O1	15,254	4,391	5,173	13,737	9,055	21,018
GH-130C-100F/O1	15,190	4,366	5,137	18,298	12,431	30,396
GH-130C-110F/O1						
GH-130C-125F/O1						
GH-130C-080F/O2	18,777	5,147	5,875	8,937	5,074	8,396
GH-130C-090F/O2	18,720	5,124	5,843	13,018	8,099	16,787
GH-130C-100F/O2	18,656	5,098	5,807	17,580	11,475	26,164
GH-130C-110F/O2						
GH-130C-125F/O2						
GH-130C-070F/O3	13,609	4,076	4,927	6,382	3,837	7,365
GH-130C-080F/O3	13,558	4,056	4,899	9,983	6,503	14,768
GH-130C-090F/O3	13,501	4,034	4,867	14,064	9,523	23,159
GH-130C-100F/O3	13,437	4,008	4,832	18,626	12,860	32,536
GH-130C-110F/O3						
GH-130C-125F/O3						
GH-130C-080F/O4	15,296	4,743	5,861	8,952	5,739	12,648
GH-130C-090F/O4	15,238	4,721	5,829	13,033	8,760	21,038
GH-130C-100F/O4	15,174	4,695	5,794	17,594	12,107	30,415
GH-130C-110F/O4						
GH-130C-125F/O4						
GH-130C-080F/O5	20,205	5,941	7,096	7,628	4,247	6,654
GH-130C-090F/O5	20,147	5,918	7,064	11,709	7,276	15,044
GH-130C-100F/O5	20,083	5,893	7,028	16,271	10,652	24,422
GH-130C-110F/O5	20,149	5,919	7,065	21,385	14,438	34,937
GH-130C-125F/O5						
GH-130C-140F/O5						
GH-130C-090F/O6	27,071	7,477	8,576	10,088	5,234	6,591
GH-130C-100F/O6	27,007	7,451	8,541	14,649	8,664	15,968
GH-130C-110F/O6	27,072	7,477	8,577	19,764	12,450	26,483
GH-130C-125F/O6						
GH-130C-140F/O6						
GH-161C-110F/O2	25,871	7,949	9,763	25,386	17,239	42,120
GH-161C-110F/O3	30,016	9,583	12,059	22,924	15,417	37,059
GH-161C-110F/O4	38,844	12,437	15,678	19,235	12,256	26,675
GH-161C-110F/O5						
GH-161C-125F/O2	25,942	7,977	9,802	36,036	25,015	64,015
GH-161C-125F/O3	30,087	9,611	12,098	33,574	23,220	58,954
GH-161C-125F/O4	38,745	12,398	15,624	29,794	20,070	48,383
GH-161C-125F/O5	49,945	15,470	19,098	26,069	16,388	34,708
GH-161C-140F/O2						
GH-161C-140F/O3						
GH-161C-140F/O4						

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5	49,834	15,426	19,037	37,976	25,200	59,187
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						
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-110F/O1	51,226	15,649	19,151	25,022	15,390	31,110
GH-200C-125F/O1	51,101	15,600	19,082	38,368	25,267	58,546
GH-200C-140F/O1	50,960	15,544	19,004	53,417	36,390	89,485
GH-200C-160F/O1						
GH-200C-180F/O1						
GH-200C-125F/O2	69,570	20,746	25,001	32,023	19,108	35,997
GH-200C-140F/O2	69,429	20,690	24,923	47,072	30,247	66,936
GH-200C-160F/O2						
GH-200C-180F/O2						
GH-201C-200F/O3						
GH-201C-160F/O7	95,994	27,351	32,010	62,064	38,754	80,943
GH-201C-200F/O7						
GH-270C-200F/O0	196,863	49,931	54,253	148,468	91,295	184,447
GH-270C-220F/O0						
GH-270C-240F/O0						
GH-270C-200F/O2	255,622	58,175	59,404	142,945	77,574	112,705
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4	186,340	45,569	48,424	154,717	95,920	197,295
GH-270C-220F/O4						
GH-271C-200F/O0	196,863	49,931	54,253	148,468	91,295	184,447
GH-271C-220F/O0	196,660	49,847	54,141	191,981	123,500	273,904
GH-271C-240F/O0						
GH-271C-250F/O0						
GH-271C-280F/O0						

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0						
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2	255,622	58,175	59,404	142,945	77,574	112,705
GH-271C-220F/O2	255,419	58,086	59,291	186,459	110,119	202,162
GH-271C-240F/O2	255,197	57,989	59,168	234,117	145,391	300,138
GH-271C-250F/O2						
GH-271C-280F/O2						
GH-271C-300F/O2						
GH-271C-320F/O2						
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3	272,851	65,559	68,948	132,713	69,751	91,669
GH-271C-220F/O3	272,648	65,474	68,835	176,227	102,532	181,126
GH-271C-240F/O3	272,426	65,380	68,712	223,885	137,818	279,103
GH-271C-250F/O3						
GH-271C-280F/O3						
GH-271C-300F/O3						
GH-271C-320F/O3						
GH-271C-340F/O3						
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4	186,340	45,569	48,424	154,717	95,920	197,295
GH-271C-220F/O4	186,137	45,484	48,311	198,231	128,125	286,752
GH-271C-240F/O4						
GH-271C-250F/O4						
GH-271C-280F/O4						
GH-271C-300F/O4						
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1	421,159	78,147	77,696	244,332	126,714	159,347
GH-350C-250F/O1	420,712	77,904	77,449	340,044	198,888	356,115
GH-350C-280F/O1	420,209	77,631	77,170	447,974	278,769	578,002
GH-350C-300F/O1						
GH-350C-320F/O1						
GH-350C-350F/O1						
GH-350C-380F/O1						
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			200 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1						
GH-065C-060F/O1						
GH-065C-050F/O2						
GH-065C-060F/O2						
GH-065C-070F/O2						
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4						
GH-065C-060F/O4						
GH-065C-070F/O4						
GH-085C-050F/O1						
GH-085C-060F/O1						
GH-085C-070F/O1						
GH-085C-050F/O2						
GH-085C-060F/O2						
GH-085C-070F/O2						
GH-085C-060F/O3						
GH-085C-070F/O3						
GH-085C-080F/O3						
GH-085C-090F/O3						
GH-085C-050F/O4						
GH-085C-060F/O4						
GH-085C-070F/O4						
GH-085C-080F/O4						
GH-085C-090F/O4						
GH-085C-050F/O5						
GH-085C-060F/O5						
GH-085C-070F/O5						
GH-085C-080F/O5						
GH-085C-090F/O5						
GH-085C-050F/O6						
GH-085C-060F/O6						
GH-085C-070F/O6						
GH-085C-080F/O6						
GH-085C-090F/O6						
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1						
GH-100C-080F/O1						
GH-100C-090F/O1						
GH-100C-110F/O1						
GH-100C-080F/O2						

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2						
GH-100C-110F/O2						
GH-130C-070F/O1						
GH-130C-080F/O1						
GH-130C-090F/O1						
GH-130C-100F/O1						
GH-130C-110F/O1						
GH-130C-125F/O1						
GH-130C-080F/O2						
GH-130C-090F/O2						
GH-130C-100F/O2						
GH-130C-110F/O2						
GH-130C-125F/O2						
GH-130C-070F/O3						
GH-130C-080F/O3						
GH-130C-090F/O3						
GH-130C-100F/O3						
GH-130C-110F/O3						
GH-130C-125F/O3						
GH-130C-080F/O4						
GH-130C-090F/O4						
GH-130C-100F/O4						
GH-130C-110F/O4						
GH-130C-125F/O4						
GH-130C-080F/O5						
GH-130C-090F/O5						
GH-130C-100F/O5						
GH-130C-110F/O5						
GH-130C-125F/O5						
GH-130C-140F/O5						
GH-130C-090F/O6						
GH-130C-100F/O6						
GH-130C-110F/O6						
GH-130C-125F/O6						
GH-130C-140F/O6						
GH-161C-110F/O2	25,871	7,949	9,763	26,661	18,172	44,741
GH-161C-110F/O3	30,016	9,583	12,059	24,199	16,360	39,680
GH-161C-110F/O4	38,844	12,437	15,678	20,510	13,199	29,296
GH-161C-110F/O5						
GH-161C-125F/O2						
GH-161C-125F/O3						
GH-161C-125F/O4	38,745	12,398	15,624	31,441	21,289	51,767
GH-161C-125F/O5	49,945	15,470	19,098	27,715	17,606	38,093
GH-161C-140F/O2						
GH-161C-140F/O3						
GH-161C-140F/O4						

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5	49,834	15,426	19,037	40,041	26,729	63,433
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						
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-110F/O1						
GH-200C-125F/O1						
GH-200C-140F/O1						
GH-200C-160F/O1						
GH-200C-180F/O1						
GH-200C-125F/O2						
GH-200C-140F/O2						
GH-200C-160F/O2						
GH-200C-180F/O2						
GH-201C-200F/O3						
GH-201C-160F/O7						
GH-201C-200F/O7						
GH-270C-200F/O0						
GH-270C-220F/O0						
GH-270C-240F/O0						
GH-270C-200F/O2						
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4						
GH-270C-220F/O4						
GH-271C-200F/O0						
GH-271C-220F/O0						
GH-271C-240F/O0						
GH-271C-250F/O0						
GH-271C-280F/O0						

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0						
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2						
GH-271C-220F/O2						
GH-271C-240F/O2						
GH-271C-250F/O2						
GH-271C-280F/O2						
GH-271C-300F/O2						
GH-271C-320F/O2						
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3						
GH-271C-220F/O3						
GH-271C-240F/O3						
GH-271C-250F/O3						
GH-271C-280F/O3						
GH-271C-300F/O3						
GH-271C-320F/O3						
GH-271C-340F/O3						
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4						
GH-271C-220F/O4						
GH-271C-240F/O4						
GH-271C-250F/O4						
GH-271C-280F/O4						
GH-271C-300F/O4						
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1						
GH-350C-250F/O1						
GH-350C-280F/O1						
GH-350C-300F/O1						
GH-350C-320F/O1						
GH-350C-350F/O1						
GH-350C-380F/O1						
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			207 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-065C-050F/O1						
GH-065C-060F/O1						
GH-065C-050F/O2	2,581	761	911	2,044	1,337	3,060
GH-065C-060F/O2						
GH-065C-070F/O2						
GH-065C-080F/O2						
GH-065C-090F/O2						
GH-065C-070F/O3						
GH-065C-050F/O4	3,317	1,031	1,276	1,652	1,032	2,161
GH-065C-060F/O4						
GH-065C-070F/O4						
GH-085C-050F/O1	2,307	650	756	3,186	2,178	5,400
GH-085C-060F/O1	2,283	641	743	4,959	3,472	9,045
GH-085C-070F/O1						
GH-085C-050F/O2	3,795	1,049	1,205	2,704	1,697	3,583
GH-085C-060F/O2	3,771	1,040	1,192	4,477	3,009	7,228
GH-085C-070F/O2						
GH-085C-060F/O3	6,114	1,665	1,894	3,725	2,250	4,368
GH-085C-070F/O3	6,086	1,654	1,878	5,820	3,801	8,676
GH-085C-080F/O3						
GH-085C-090F/O3						
GH-085C-050F/O4	4,321	1,221	1,422	2,471	1,500	2,941
GH-085C-060F/O4	4,297	1,212	1,409	4,244	2,812	6,586
GH-085C-070F/O4						
GH-085C-080F/O4						
GH-085C-090F/O4						
GH-085C-050F/O5						
GH-085C-060F/O5	6,620	1,869	2,174	3,424	2,028	3,750
GH-085C-070F/O5	6,592	1,857	2,159	5,519	3,579	8,057
GH-085C-080F/O5						
GH-085C-090F/O5						
GH-085C-050F/O6						
GH-085C-060F/O6	8,080	2,257	2,608	2,959	1,541	1,967
GH-085C-070F/O6	8,052	2,246	2,593	5,054	3,107	6,275
GH-085C-080F/O6						
GH-085C-090F/O6						
GH-085C-050F/O7						
GH-085C-060F/O7						
GH-085C-070F/O7						
GH-085C-080F/O7						
GH-085C-090F/O7						
GH-100C-070F/O1	10,264	2,488	2,630	6,551	3,811	6,732
GH-100C-080F/O1	10,238	2,477	2,615	9,434	5,946	12,661
GH-100C-090F/O1						
GH-100C-110F/O1						
GH-100C-080F/O2	12,007	3,204	3,595	8,384	5,168	10,501

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-100C-090F/O2						
GH-100C-110F/O2						
GH-130C-070F/O1	15,213	4,374	5,150	6,736	3,872	6,626
GH-130C-080F/O1	15,162	4,354	5,122	10,518	6,673	14,402
GH-130C-090F/O1	15,254	4,391	5,173	14,716	9,780	23,032
GH-130C-100F/O1	15,190	4,366	5,137	19,507	13,315	32,882
GH-130C-110F/O1						
GH-130C-125F/O1						
GH-130C-080F/O2	18,777	5,147	5,875	9,711	5,651	9,988
GH-130C-090F/O2	18,720	5,124	5,843	13,998	8,824	18,801
GH-130C-100F/O2	18,656	5,098	5,807	18,789	12,370	28,651
GH-130C-110F/O2						
GH-130C-125F/O2						
GH-130C-070F/O3	13,609	4,076	4,927	6,975	4,276	8,583
GH-130C-080F/O3	13,558	4,056	4,899	10,757	7,076	16,360
GH-130C-090F/O3	13,501	4,034	4,867	15,044	10,245	25,173
GH-130C-100F/O3						
GH-130C-110F/O3						
GH-130C-125F/O3						
GH-130C-080F/O4	15,296	4,743	5,861	9,726	6,312	14,239
GH-130C-090F/O4	15,238	4,721	5,829	14,012	9,485	23,052
GH-130C-100F/O4	15,174	4,695	5,794	18,804	12,989	32,902
GH-130C-110F/O4						
GH-130C-125F/O4						
GH-130C-080F/O5	20,205	5,941	7,096	8,402	4,827	8,245
GH-130C-090F/O5	20,147	5,918	7,064	12,689	8,002	17,058
GH-130C-100F/O5	20,083	5,893	7,028	17,480	11,548	26,908
GH-130C-110F/O5						
GH-130C-125F/O5						
GH-130C-140F/O5						
GH-130C-090F/O6	27,071	7,477	8,576	11,067	5,985	8,605
GH-130C-100F/O6	27,007	7,451	8,541	15,859	9,560	18,455
GH-130C-110F/O6	27,072	7,477	8,577	21,227	13,533	29,492
GH-130C-125F/O6						
GH-130C-140F/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 RANGE TORQUE DATA
CANTED SPRING-RETURN
FAIL OPEN, CLOCK WISE TO CLOSE
METRIC

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-161C-140F/O5						
GH-161C-160F/O2						
GH-161C-160F/O3						
GH-161C-160F/O4						
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-110F/O1	51,226	15,649	19,151	27,324	17,094	35,843
GH-200C-125F/O1	51,101	15,600	19,082	41,340	27,467	64,658
GH-200C-140F/O1	50,960	15,544	19,004	57,146	39,112	97,151
GH-200C-160F/O1						
GH-200C-180F/O1						
GH-200C-125F/O2	69,570	20,746	25,001	34,995	21,309	42,109
GH-200C-140F/O2	69,429	20,690	24,923	50,801	33,006	74,602
GH-200C-160F/O2						
GH-200C-180F/O2						
GH-201C-200F/O3						
GH-201C-160F/O7	95,994	27,351	32,010	66,934	42,359	90,955
GH-201C-200F/O7						
GH-270C-200F/O0	196,863	49,931	54,253	158,854	98,982	205,799
GH-270C-220F/O0						
GH-270C-240F/O0						
GH-270C-200F/O2	255,622	58,175	59,404	153,332	85,423	134,057
GH-270C-220F/O2						
GH-270C-240F/O2						
GH-270C-250F/O2						
GH-270C-280F/O2						
GH-270C-220F/O3						
GH-270C-250F/O3						
GH-270C-280F/O3						
GH-270C-200F/O4	186,340	45,569	48,424	165,103	103,607	218,647
GH-270C-220F/O4						
GH-271C-200F/O0	196,863	49,931	54,253	158,854	98,982	205,799
GH-271C-220F/O0	196,660	49,847	54,141	204,549	132,801	299,740
GH-271C-240F/O0						
GH-271C-250F/O0						
GH-271C-280F/O0						

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-300F/O0						
GH-271C-320F/O0						
GH-271C-340F/O0						
GH-271C-360F/O0						
GH-271C-380F/O0						
GH-271C-400F/O0						
GH-271C-420F/O0						
GH-271C-440F/O0						
GH-271C-460F/O0						
GH-271C-200F/O2	255,622	58,175	59,404	153,332	85,423	134,057
GH-271C-220F/O2	255,419	58,086	59,291	199,027	119,420	227,998
GH-271C-240F/O2						
GH-271C-250F/O2						
GH-271C-280F/O2						
GH-271C-300F/O2						
GH-271C-320F/O2						
GH-271C-340F/O2						
GH-271C-360F/O2						
GH-271C-380F/O2						
GH-271C-400F/O2						
GH-271C-420F/O2						
GH-271C-440F/O2						
GH-271C-460F/O2						
GH-271C-200F/O3	272,851	65,559	68,948	143,100	77,691	113,022
GH-271C-220F/O3	272,648	65,474	68,835	188,795	111,847	206,963
GH-271C-240F/O3	272,426	65,380	68,712	238,841	148,887	309,851
GH-271C-250F/O3						
GH-271C-280F/O3						
GH-271C-300F/O3						
GH-271C-320F/O3						
GH-271C-340F/O3						
GH-271C-360F/O3						
GH-271C-380F/O3						
GH-271C-400F/O3						
GH-271C-420F/O3						
GH-271C-440F/O3						
GH-271C-460F/O3						
GH-271C-200F/O4	186,340	45,569	48,424	165,103	103,607	218,647
GH-271C-220F/O4	186,137	45,484	48,311	210,798	137,427	312,588
GH-271C-240F/O4						
GH-271C-250F/O4						
GH-271C-280F/O4						
GH-271C-300F/O4						
GH-271C-320F/O4						
GH-271C-340F/O4						
GH-271C-360F/O4						

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC
GH-271C-380F/O4						
GH-271C-400F/O4						
GH-271C-420F/O4						
GH-271C-440F/O4						
GH-271C-460F/O4						
GH-350C-220F/O1	421,159	78,147	77,696	260,800	139,381	193,203
GH-350C-250F/O1	420,712	77,904	77,449	361,310	214,628	399,834
GH-350C-280F/O1						
GH-350C-300F/O1						
GH-350C-320F/O1						
GH-350C-350F/O1						
GH-350C-380F/O1						
GH-350C-400F/O1						
GH-350C-420F/O1						
GH-350C-440F/O1						
GH-350C-460F/O1						
GH-350C-480F/O1						
GH-350C-500F/O1						

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

Model Number	SPRING			210 BAR		
	Torque Output (Nm)					
	BTO	RTO	ETO	BTC	RTC	ETC