

Bettis GC/GH/GHC-Series

Technical Data Pneumatic and Hydraulic Actuators - Metric



Data sheet

Sheet No.: GCPM 1.01 Rev D

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)											
GC01108	Full Piston outboard CW	Start	869	1159	1449	1594	1739	2029	2318	2608	2898	3188	3477	3767
		Min	524	699	873	961	1048	1223	1398	1572	1747	1922	2096	2271
		End	1225	1634	2042	2247	2451	2859	3268	3676	4085	4493	4902	5310
	Rod side inboard CCW	Start	1206	1608	2010	2211	2412	2814	3216	3618	4020	4422	4824	5226
		Min	516	688	860	946	1031	1203	1375	1547	1719	1891	2063	2235
		End	856	1141	1426	1568	1711	1996	2281	2567	2852	3137	3422	3707
GC01109	Full Piston outboard CW	Start	1104	1473	1841	2025	2209	2577	2945	3313	3681			
		Min	666	888	1110	1221	1332	1554	1775	1997	2219			
		End	1557	2076	2595	2854	3114	3633	4151	4670	5189			
	Rod side inboard CCW	Start	1537	2050	2562	2818	3075	3587	4099	4612	5124			
		Min	657	877	1096	1205	1315	1534	1753	1972	2192			
		End	1091	1454	1818	1999	2181	2545	2908	3272	3635			
GC01110	Full Piston outboard CW	Start	1460	1947	2433	2676	2920	3406						
		Min	880	1173	1467	1613	1760	2054						
		End	2058	2744	3430	3773	4116	4802						
	Rod side inboard CCW	Start	2038	2718	3397	3737	4077	4756						
		Min	872	1162	1453	1598	1744	2034						
		End	1446	1928	2410	2651	2892	3374						
GC01112	Full Piston outboard CW	Start	2087	2782	3478	3825								
		Min	1258	1677	2096	2306								
		End	2941	3922	4902	5392								
	Rod side inboard CCW	Start	2922	3896	4869	5356								
		Min	1250	1666	2083	2291								
		End	2073	2764	3455	3800								
GC01114	Full Piston outboard CW	Start	2534	3379										
		Min	1528	2037										
		End	3572	4763										
	Rod side inboard CCW	Start	3553	4737										
		Min	1519	2026										
		End	2521	3361										
GC2109	Full Piston outboard CW	Start	1337	1783	2228	2451	2674	3120	3565	4011	4457	4902	5348	
		Min	806	1075	1343	1478	1612	1881	2149	2418	2687	2955	3224	
		End	1885	2513	3141	3455	3769	4397	5025	5654	6282	6910	7538	
	Rod side inboard CCW	Start	1861	2481	3102	3412	3722	4342	4963	5583	6203	6823	7444	
		Min	796	1061	1326	1459	1592	1857	2122	2388	2653	2918	3183	
		End	1320	1760	2200	2420	2640	3080	3521	3961	4401	4841	5281	
GC2110	Full Piston outboard CW	Start	1767	2356	2945	3240	3535	4124	4713	5302				
		Min	1065	1420	1776	1953	2131	2486	2841	3196				
		End	2491	3321	4152	4567	4982	5813	6643	7473				
	Rod side inboard CCW	Start	2468	3290	4113	4524	4935	5758	6580	7403				
		Min	1055	1407	1759	1935	2111	2462	2814	3166				
		End	1751	2334	2918	3209	3501	4085	4668	5252				
Actuator Model	Stroke Direction		Air Torque Output (Nm)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)											

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Data sheet

Sheet No.: GCPM 1.02 Rev D

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series (cont.)

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)											
GC2112	Full Piston outboard CW	Start Min End	2526 1523 3560	3368 2030 4747	4210 2538 5934	4631 2792 6527	5052 3045 7121							
	Rod side inboard CCW	Start Min End	3537 1513 2509	4716 2017 3345	5895 2521 4182	6484 2773 4600	7074 3025 5018							
GC2114	Full Piston outboard CW	Start Min End	3068 1849 4325	4091 2466 5766	5113 3082 7208	5625 3391 7928								
	Rod side inboard CCW	Start Min End	4301 1839 3051	5735 2452 4068	7168 3066 5085	7885 3372 5594								
GC2116	Full Piston outboard CW	Start Min End	4044 2438 5701	5392 3251 7601										
	Rod side inboard CCW	Start Min End	5677 2428 4027	7569 3237 5370										
GC3110	Full Piston outboard CW	Start Min End	2143 1292 3021	2858 1723 4028	3572 2153 5035	3929 2369 5538	4286 2584 6042	5001 3015 7049	5715 3445 8056	6429 3876 9063	7144 4307 10070	7858 4737 11077	8573 5168 12084	9287 5599 13091
	Rod side inboard CCW	Start Min End	2976 1273 2111	3968 1697 2815	4960 2121 3519	5456 2333 3871	5952 2546 4223	6944 2970 4926	7936 3394 5630	8928 3818 6334	9920 4243 7038	10912 4667 7742	11904 5091 8445	12896 5515 9149
GC3112	Full Piston outboard CW	Start Min End	3067 1849 4323	4089 2465 5764	5111 3081 7205	5622 3389 7925	6133 3697 8645	7156 4314 10086	8178 4930 11527	9200 5546 12968				
	Rod side inboard CCW	Start Min End	4278 1829 3035	5704 2439 4046	7130 3049 5058	7843 3354 5564	8556 3659 6070	9982 4269 7081	11408 4879 8093	12833 5488 9104				
GC3114	Full Piston outboard CW	Start Min End	3727 2247 5253	4969 2995 7004	6211 3744 8755	6832 4119 9630	7453 4493 10506	8695 5242 12257	9938 5991 14008					
	Rod side inboard CCW	Start Min End	5208 2227 3695	6944 2970 4926	8680 3712 6158	9548 4083 6774	10416 4455 7389	12152 5197 8621	13888 5940 9853					
GC3116	Full Piston outboard CW	Start Min End	4915 2963 6928	6553 3951 9237	8192 4938 11547	9011 5432 12702	9830 5926 13856							
	Rod side inboard CCW	Start Min End	6883 2944 4883	9178 3925 6511	11472 4906 8139	12619 5397 8952	13766 5887 9766							
Actuator Model	Stroke Direction		Air Torque Output (Nm)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)											

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Sheet No.: GCPM 1.03 Rev D

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GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series (cont.)

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)											
GC3120	Full Piston outboard CW	Start Min End	7781 4691 10968											
	Rod side inboard CCW	Start Min End	10923 4671 7749											
GC4112	Full Piston outboard CW	Start Min End	3712 2238 5233	4950 2984 6977	6187 3730 8721	6806 4103 9593	7424 4476 10465	8662 5222 12210	9899 5968 13954	11136 6713 15698	12374 7459 17442	13611 8205 19186	14849 8951 20931	16086 9697 22675
	Rod side inboard CCW	Start Min End	5154 2204 3656	6872 2939 4875	8590 3674 6094	9449 4041 6704	10308 4409 7313	12026 5143 8532	13744 5878 9751	15463 6613 10969	17181 7348 12188	18899 8082 13407	20617 8817 14626	22335 9552 15845
GC4114	Full Piston outboard CW	Start Min End	4514 2721 6362	6018 3628 8483	7523 4535 10604	8275 4988 11664	9027 5442 12725	10532 6349 14845	12036 7256 16966	13541 8163 19087	15045 9070 21208	16550 9977 23328	18054 10884 25449	19559 11791 27570
	Rod side inboard CCW	Start Min End	6284 2687 4458	8378 3583 5944	10473 4479 7430	11520 4927 8173	12568 5375 8916	14662 6271 10402	16757 7166 11888	18851 8062 13374	20946 8958 14860	23041 9854 16345	25135 10749 17831	27230 11645 19317
GC4116	Full Piston outboard CW	Start Min End	5957 3591 8396	7942 4788 11195	9928 5985 13994	10920 6583 15393	11913 7182 16793	13899 8379 19591	15884 9576 22390	17870 10773 25189	19855 11969 27988			
	Rod side inboard CCW	Start Min End	8318 3557 5901	11090 4743 7868	13863 5929 9835	15249 6522 10818	16636 7115 11802	19408 8300 13769	22181 9486 15736	24954 10672 17703	27726 11858 19670			
GC4120	Full Piston outboard CW	Start Min End	9436 5689 13302	12582 7585 17735	15727 9481 22169	17300 10429 24386	18873 11377 26603							
	Rod side inboard CCW	Start Min End	13223 5655 9381	17631 7540 12508	22038 9425 15635	24242 10368 17198	26446 11310 18761							
GC4124	Full Piston outboard CW	Start Min End	13708 8264 19323	18277 11018 25764										
	Rod side inboard CCW	Start Min End	19244 8230 13652	25659 10974 18203										
GC4128	Full Piston outboard CW	Start Min End	19349 11664 27274											
	Rod side inboard CCW	Start Min End	27196 11631 19293											
Actuator Model	Stroke Direction		Air Torque Output (Nm)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)											

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Sheet No.: GCPM 1.04 Rev D

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GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series (cont.)

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)											
GC5116	Full Piston outboard CW	Start	7672	10230	12787	14066	15345	17902	20460	23017	25575	28132	30690	33247
		Min	4625	6167	7709	8480	9250	10792	12334	13876	15417	16959	18501	20043
	End	10815	14420	18025	19828	21630	25235	28840	32445	36050	39655	43260	46865	
	Rod side inboard CCW	Start	10634	14179	17724	19497	21269	24814	28359	31903	35448	38993	42538	46083
Min		4548	6064	7580	8338	9096	10612	12128	13644	15160	16676	18192	19708	
End	7544	10059	12574	13831	15089	17603	20118	22633	25148	27663	30177	32692		
GC5120	Full Piston outboard CW	Start	12176	16234	20293	22322	24352	28410	32469	36527	40586	44645		
		Min	7340	9787	12233	13457	14680	17127	19573	22020	24467	26913		
	End	17163	22884	28605	31465	34326	40047	45768	51489	57210	62931			
	Rod side inboard CCW	Start	16982	22643	28304	31134	33965	39626	45286	50947	56608	62269		
Min		7263	9684	12105	13315	14526	16947	19368	21788	24209	26630			
End	12048	16064	20080	22088	24095	28111	32127	36143	40159	44175				
GC5124	Full Piston outboard CW	Start	17704	23605	29506	32457	35408	41309						
		Min	10673	14230	17788	19566	21345	24903						
	End	24955	33274	41592	45751	49910	58229							
	Rod side inboard CCW	Start	24775	33033	41291	45420	49549	57808						
Min		10595	14127	17659	19425	21191	24722							
End	17576	23434	29293	32222	35151	41010								
GC5128	Full Piston outboard CW	Start	25004	33339	41673	45841								
		Min	15073	20098	25122	27634								
	End	35245	46994	58742	64617									
	Rod side inboard CCW	Start	35065	46753	58442	64286								
Min		14996	19995	24994	27493									
End	24876	33168	41460	45606										
GC5132	Full Piston outboard CW	Start	32689	43585										
		Min	19706	26275										
	End	46078	61437											
	Rod side inboard CCW	Start	45897	61197										
Min		19629	26172											
End	32561	43414												
GC5136	Full Piston outboard CW	Start	41398											
		Min	24957											
	End	58355												
	Rod side inboard CCW	Start	58174											
Min		24879												
End	41270													
GC7120	Full Piston outboard CW	Start	14889	19852	24815	27297	29778	34741	39704	44667	49630	54593	59556	64519
		Min	8976	11968	14959	16455	17951	20943	23935	26927	29919	32911	35903	38895
	End	20988	27983	34979	38477	41975	48971	55967	62963	69958	76954	83950	90946	
	Rod side inboard CCW	Start	20707	27609	34512	37963	41414	48317	55219	62121	69024	75926	82828	89731
Min		8856	11808	14760	16236	17711	20663	23615	26567	29519	32471	35423	38375	
End	14690	19587	24483	26932	29380	34277	39174	44070	48967	53864	58760	63657		
Actuator Model	Stroke Direction		Air Torque Output (Nm)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)											

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Data sheet

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GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series (cont.)

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)											
GC7124	Full Piston outboard CW	Start	21673	28898	36122	39735	43347	50571	57796	65020	72245	79469	86694	
		Min	13066	17421	21776	23953	26131	30486	34841	39197	43552	47907	52262	
		End	30551	40734	50918	56010	61101	71285	81469	91652	101836	112019	122203	
	Rod side inboard CCW	Start	30270	40360	50450	55496	60541	70631	80721	90811	100901	110991	121081	
		Min	12946	17261	21576	23734	25891	30206	34522	38837	43152	47467	51782	
		End	21474	28633	35791	39370	42949	50107	57265	64423	71582	78740	85898	
GC7128	Full Piston outboard CW	Start	30633	40844	51054	56160	61265	71476	81687					
		Min	18467	24622	30778	33855	36933	43089	49244					
		End	43180	57573	71966	79163	86359	100753	115146					
	Rod side inboard CCW	Start	42899	57199	71499	78649	85798	100098	114398					
		Min	18347	24462	30578	33635	36693	42809	48924					
		End	30434	40578	50723	55795	60867	71012	81157					
GC7132	Full Piston outboard CW	Start	40064	53419	66774	73451	80128							
		Min	24152	32203	40254	44279	48304							
		End	56474	75299	94124	103536	112948							
	Rod side inboard CCW	Start	56194	74925	93656	103022	112388							
		Min	24032	32043	40054	44059	48064							
		End	39865	53154	66442	73086	79730							
GC7136	Full Piston outboard CW	Start	50753	67671	84589									
		Min	30596	40795	50993									
		End	71541	95389	119236									
	Rod side inboard CCW	Start	71261	95015	118768									
		Min	30476	40635	50793									
		End	50554	67406	84257									
GC71228	Full Piston outboard CW	Start	61066	81422										
		Min	36813	49084										
		End	86079	114772										
	Rod side inboard CCW	Start	86079	114772										
		Min	36813	49084										
		End	61066	81422										
GC8124	Full Piston outboard CW	Start	25611	34148	42686	46954	51223	59760	68297	76834	85371	93908	102445	110982
		Min	15439	20586	25732	28306	30879	36025	41172	46318	51465	56611	61758	66904
		End	36102	48135	60169	66186	72203	84237	96271	108305	120339	132373	144406	156440
	Rod side inboard CCW	Start	35605	47473	59342	65276	71210	83078	94947	106815	118684	130552	142420	154289
		Min	15227	20303	25379	27916	30454	35530	40606	45681	50757	55833	60908	65984
		End	25259	33679	42098	46308	50518	58938	67358	75777	84197	92617	101036	109456
GC8128	Full Piston outboard CW	Start	36230	48306	60383	66421	72459	84536	96613	108689	120766	132842		
		Min	21841	29121	36401	40041	43681	50961	58242	65522	72802	80082		
		End	51069	68092	85115	93627	102138	119162	136185	153208	170231	187254		
	Rod side inboard CCW	Start	50573	67430	84288	92717	101145	118003	134861	151718	168576	185433		
		Min	21628	28838	36047	39652	43257	50466	57675	64885	72094	79304		
		End	35877	47837	59796	65775	71755	83714	95673	107632	119591	131551		
Actuator Model	Stroke Direction		Air Torque Output (Nm)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)											

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Sheet No.: GCPM 1.06 Rev D

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GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series (cont.)

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)											
GC8132	Full Piston outboard CW	Start	47408	63210	79013	86914	94815	110618	126421	142223				
		Min	28579	38106	47632	52395	57158	66685	76211	85737				
		End	66826	89101	111376	122514	133651	155927	178202	200477				
	Rod side inboard CCW	Start	66329	88439	110549	121603	132658	154768	176878	198988				
Min		28367	37822	47278	52006	56734	66189	75645	85100					
		End	47055	62741	78426	86268	94111	109796	125481	141166				
GC8136	Full Piston outboard CW	Start	60076	80102	100127	110140	120152	140178						
		Min	36216	48288	60360	66396	72432	84504						
		End	84683	112911	141138	155252	169366	197594						
	Rod side inboard CCW	Start	84187	112249	140311	154342	168373	196435						
Min		36004	48005	60006	66007	72008	84009							
		End	59724	79632	99540	109494	119448	139356						
GC8140	Full Piston outboard CW	Start	74235	98980	123725	136098								
		Min	44752	59669	74586	82045								
		End	104641	139522	174402	191842								
	Rod side inboard CCW	Start	104145	138860	173575	190932								
Min		44539	59386	74232	81655									
		End	73883	98510	123138	135452								
GC8144	Full Piston outboard CW	Start	89884	119846										
		Min	54186	72247										
		End	126700	168934										
	Rod side inboard CCW	Start	126204	168272										
Min		53973	71964											
		End	89532	119376										
GC81232	Full Piston outboard CW	Start	94463	125951										
		Min	56946	75928										
		End	133155	177540										
	Rod side inboard CCW	Start	133155	177540										
Min		56946	75928											
		End	94463	125951										
GC8148	Full Piston outboard CW	Start	107024	142699										
		Min	64518	86024										
		End	150861	201147										
	Rod side inboard CCW	Start	150364	200485										
Min		64306	85741											
		End	106672	142229										
GC81236	Full Piston outboard CW	Start	119800											
		Min	72220											
		End	168870											
	Rod side inboard CCW	Start	168870											
Min		72220												
		End	119800											
Actuator Model	Stroke Direction		Air Torque Output (Nm)											
			3	4	5	5.5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)											

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GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC01108-SR4	Start	1097					1343	1745	2147	2549	2951	3353	3755
	Min	641					516	690	864	1038	1211	1385	1559
	End	1409					784	1069	1355	1640	1925	2210	2495
GC01109-SR4	Start	1097			1091	1604	2116	2629	3141	3654	4166	4678	5191
	Min	641			407	629	850	1072	1294	1515	1737	1958	2180
	End	1409			606	969	1333	1696	2060	2423	2787	3150	3514
GC01110-SR4	Start	1097		1247	1927	2606	3285	3965	4644	5324	6003		
	Min	641		475	768	1062	1356	1650	1944	2237	2531		
	End	1409		716	1198	1680	2162	2644	3126	3608	4090		
GC01112-SR4	Start	1097	1451	2425	3399	4373	5346	6320					
	Min	641	563	984	1405	1826	2247	2668					
	End	1409	861	1552	2243	2933	3624	4315					
GC01114-SR4	Start	1097	2082	3266	4451	5635							
	Min	641	836	1348	1860	2372							
	End	1409	1309	2149	2989	3829							
GC01108-SR3	Start	1283					1134	1536	1938	2340	2742	3144	3546
	Min	742					404	577	751	925	1099	1273	1446
	End	1609					578	863	1148	1433	1719	2004	2289
GC01109-SR3	Start	1283				1395	1908	2420	2932	3445	3957	4470	4982
	Min	742				516	738	959	1181	1403	1624	1846	2067
	End	1609				763	1126	1490	1853	2217	2580	2944	3308
GC01110-SR3	Start	1283		1038	1718	2397	3077	3756	4436	5115	5795		
	Min	742		362	656	950	1243	1537	1831	2125	2419		
	End	1609		510	992	1474	1956	2438	2920	3402	3884		
GC01112-SR3	Start	1283	1242	2216	3190	4164	5138	6112					
	Min	742	450	871	1292	1713	2135	2556					
	End	1609	654	1345	2036	2727	3418	4109					
GC01114-SR3	Start	1283	1873	3058	4242	5426							
	Min	742	723	1235	1747	2259							
	End	1609	1102	1942	2782	3623							
GC01108-SR2	Start	1465						1303	1705	2107	2509	2911	3313
	Min	847						463	637	810	984	1158	1332
	End	1833						662	947	1232	1517	1803	2088
GC01109-SR2	Start	1465				1162	1674	2186	2699	3211	3724	4236	4749
	Min	847				402	623	845	1066	1288	1510	1731	1953
	End	1833				562	925	1289	1652	2016	2379	2743	3106
GC01110-SR2	Start	1465			1484	2164	2843	3523	4202	4882	5561		
	Min	847			541	835	1129	1423	1716	2010	2304		
	End	1833			791	1273	1755	2237	2719	3201	3683		
GC01112-SR2	Start	1465		1983	2956	3930	4904	5878					
	Min	847		757	1178	1599	2020	2441					
	End	1833		1144	1835	2526	3217	3908					
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC01114-SR2	Start	1465	1640	2824	4009	5193							
	Min	847	608	1121	1633	2145							
	End	1833	901	1741	2581	3421							
GC01108-SR1	Start	1742								1855	2257	2659	3061
	Min	987								653	827	1000	1174
	End	2074								926	1212	1497	1782
GC01109-SR1	Start	1742						1935	2447	2960	3472	3984	4497
	Min	987						687	909	1130	1352	1574	1795
	End	2074						983	1346	1710	2074	2437	2801
GC01110-SR1	Start	1742				1912	2591	3271	3950	4630	5309		
	Min	987				677	971	1265	1559	1853	2146		
	End	2074				967	1449	1931	2413	2895	3377		
GC01112-SR1	Start	1742		1731	2705	3679	4652	5626					
	Min	987		599	1020	1441	1862	2283					
	End	2074		838	1529	2220	2911	3602					
GC01114-SR1	Start	1742	1388	2572	3757	4941	6125						
	Min	987	451	963	1475	1987	2499						
	End	2074	595	1435	2276	3116	3956						
GC01108-SR0	Start	2295											2636
	Min	1252											872
	End	2481											1171
GC01109-SR0	Start	2295							2535	3047	3559	4072	
	Min	1252							828	1049	1271	1493	
	End	2481							1099	1462	1826	2189	
GC01110-SR0	Start	2295						2846	3525	4205	4884		
	Min	1252						962	1256	1550	1844		
	End	2481						1319	1802	2284	2766		
GC01112-SR0	Start	2295				3254	4227	5201					
	Min	1252				1139	1560	1981					
	End	2481				1609	2300	2991					
GC01114-SR0	Start	2295			3332	4516							
	Min	1252			1173	1685							
	End	2481			1664	2504							
GC2109-SR4	Start	2074						2487	3107	3728	4348	4968	
	Min	1156						870	1138	1406	1675	1943	
	End	2371						1229	1669	2109	2549	2989	
GC2110-SR4	Start	2074				2460	3282	4105	4927				
	Min	1156				858	1214	1569	1925				
	End	2371				1209	1793	2376	2960				
GC2112-SR4	Start	2074		2240	3419	4598							
	Min	1156		763	1273	1783							
	End	2371		1054	1890	2726							
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Pneumatic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC2114-SR4	Start	2074		3259	4693								
	Min	1156		1204	1824								
	End	2371		1776	2793								
GC2116-SR4	Start	2074	3201 1179 1735	5094									
	Min	1156		1997									
	End	2371		3078									
GC2109-SR3	Start	2317							2743	3363	3984	4604	
	Min	1305							977	1245	1513	1781	
	End	2720							1399	1839	2279	2719	
GC2110-SR3	Start	2317					2918	3740	4563				
	Min	1305					1052	1408	1763				
	End	2720					1523	2107	2690				
GC2112-SR3	Start	2317			3055	4234							
	Min	1305			1111	1621							
	End	2720			1620	2457							
GC2114-SR3	Start	2317		2895	4328								
	Min	1305		1042	1662								
	End	2720		1507	2524								
GC2116-SR3	Start	2317	2837 1017 1466	4730									
	Min	1305		1835									
	End	2720		2808									
GC2109-SR2	Start	2579								3035	3655	4275	
	Min	1454								1081	1349	1618	
	End	3035								1550	1990	2430	
GC2110-SR2	Start	2579					2589	3412	4234				
	Min	1454					889	1244	1600				
	End	3035					1234	1818	2401				
GC2112-SR2	Start	2579			2726	3905							
	Min	1454			948	1458							
	End	3035			1331	2168							
GC2114-SR2	Start	2579		2566	4000								
	Min	1454		879	1498								
	End	3035		1218	2235								
GC2116-SR2	Start	2579	2509 1454 3035	4401									
	Min	1454		1672									
	End	3035		1177									
GC2109-SR1	Start	2975									3262	3882	
	Min	1660									1119	1387	
	End	3412									1553	1993	
GC2110-SR1	Start	2975						3841					
	Min	1660						1369					
	End	3412						1964					
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Pneumatic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC2112-SR1	Start	2975				3512							
	Min	1660				1227							
	End	3412				1730							
GC2114-SR1	Start	2975			3607								
	Min	1660			1268								
	End	3412			1797								
GC2116-SR1	Start	2975		4008									
	Min	1660		1441									
	End	3412		2082									
GC3110-SR4	Start	3495							4769	5761	6753	7745	8737
	Min	1946							1712	2141	2570	2999	3428
	End	3985							2471	3174	3878	4582	5286
GC3112-SR4	Start	3495				4396	5822	7248	8674				
	Min	1946				1551	2168	2784	3401				
	End	3985				2206	3218	4230	5241				
GC3114-SR4	Start	3495			4521	6257	7993	9729					
	Min	1946			1605	2356	3106	3857					
	End	3985			2295	3526	4758	5989					
GC3116-SR4	Start	3495		5023	7318	9614							
	Min	1946		1822	2815	3807							
	End	3985		2651	4280	5908							
GC3120-SR4	Start	3495	6763										
	Min	1946	2575										
	End	3985	3886										
GC3110-SR3	Start	3981								5183	6175	7167	8159
	Min	2216								1843	2272	2701	3130
	End	4539								2638	3342	4045	4749
GC3112-SR3	Start	3981					5244	6670	8096				
	Min	2216					1869	2486	3102				
	End	4539					2681	3693	4704				
GC3114-SR3	Start	3981				5679	7415	9151					
	Min	2216				2057	2808	3558					
	End	4539				2989	4221	5453					
GC3116-SR3	Start	3981		4445	6741	9036							
	Min	2216		1524	2516	3509							
	End	4539		2114	3743	5371							
GC3120-SR3	Start	3981	6185										
	Min	2216	2276										
	End	4539	3349										
GC3110-SR2	Start	4546									5502	6494	7486
	Min	2531									1925	2353	2782
	End	5183									2717	3421	4125
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Pneumatic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC3112-SR2	Start	4546					4571	5997	7423				
	Min	2531					1522	2139	2755				
	End	5183					2057	3069	4080				
GC3114-SR2	Start	4546				5006	6742	8478					
	Min	2531				1710	2461	3211					
	End	5183				2365	3597	4828					
GC3116-SR2	Start	4546			6068	8364							
	Min	2531			2169	3162							
	End	5183			3119	4747							
GC3120-SR2	Start	4546	5513										
	Min	2531	1929										
	End	5183	2725										
GC3110-SR1	Start	5202										5713	6705
	Min	2896										1950	2379
	End	5931										2696	3399
GC3112-SR1	Start	5202						5216	6642				
	Min	2896						1735	2352				
	End	5931						2343	3355				
GC3114-SR1	Start	5202					5961	7697					
	Min	2896					2057	2808					
	End	5931					2871	4103					
GC3116-SR1	Start	5202			5287	7582							
	Min	2896			1766	2758							
	End	5931			2393	4022							
GC3120-SR1	Start	5202	4731										
	Min	2896	1526										
	End	5931	1999										
GC4112-SR4	Start	6477						6512	8230	9948	11666	13384	15102
	Min	3519						2038	2781	3524	4267	5010	5753
	End	6928						2592	3810	5029	6248	7467	8686
GC4114-SR4	Start	6477					7430	9524	11619	13714	15808	17903	19997
	Min	3519					2435	3341	4247	5152	6058	6964	7869
	End	6928					3243	4729	6215	7701	9186	10672	12158
GC4116-SR4	Start	6477			6631	9403	12176	14949	17721	20494			
	Min	3519			2090	3289	4487	5686	6885	8084			
	End	6928			2676	4643	6610	8577	10544	12511			
GC4120-SR4	Start	6477	5991	10398	14806	19214							
	Min	3519	1813	3719	5625	7530							
	End	6928	2222	5349	8476	11602							
GC4124-SR4	Start	6477	12012	18427									
	Min	3519	4417	7190									
	End	6928	6493	11044									
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Pneumatic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC4112-SR3	Start	7819								8607	10325	12043	13761
	Min	4219								2740	3483	4226	4969
	End	8213								3546	4765	5984	7202
GC4114-SR3	Start	7819						8183	10278	12373	14467	16562	18656
	Min	4219						2557	3463	4369	5274	6180	7086
	End	8213						3245	4731	6217	7703	9189	10675
GC4116-SR3	Start	7819				8062	10835	13608	16380	19153			
	Min	4219				2505	3704	4903	6101	7300			
	End	8213				3159	5126	7093	9060	11027			
GC4120-SR3	Start	7819		9057	13465	17873							
	Min	4219		2935	4841	6747							
	End	8213		3865	6992	10119							
GC4124-SR3	Start	7819	10671	17086									
	Min	4219	3633	6406									
	End	8213	5010	9561									
GC4128-SR3	Start	7819	18622										
	Min	4219	7071										
	End	8213	10651										
GC4112-SR2	Start	9261										10489	12207
	Min	4993										3366	4109
	End	9703										4390	5609
GC4114-SR2	Start	9261								10818	12912	15007	17102
	Min	4993								3508	4414	5320	6225
	End	9703								4623	6109	7595	9081
GC4116-SR2	Start	9261						12053	14826	17598			
	Min	4993						4042	5241	6440			
	End	9703						5500	7466	9433			
GC4120-SR2	Start	9261			11910	16318							
	Min	4993			3981	5886							
	End	9703			5398	8525							
GC4124-SR2	Start	9261	9116	15531									
	Min	4993	2772	5546									
	End	9703	3416	7967									
GC4128-SR2	Start	9261	17068										
	Min	4993	6211										
	End	9703	9057										
GC4112-SR1	Start	10585											10348
	Min	5782											3250
	End	11483											4146
GC4114-SR1	Start	10585									11054	13149	15243
	Min	5782									3555	4461	5366
	End	11483									4646	6132	7618
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Pneumatic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC4116-SR1	Start	10585						10194	12967	15740			
	Min	5782						3183	4382	5581			
	End	11483						4037	6004	7970			
GC4120-SR1	Start	10585				14460							
	Min	5782				5027							
	End	11483				7062							
GC4124-SR1	Start	10585		13673									
	Min	5782		4687									
	End	11483		6504									
GC4128-SR1	Start	10585	15209										
	Min	5782	5352										
	End	11483	7594										
GC5116-SR4	Start	14456							17756	21301	24846	28391	31936
	Min	7489							5400	6933	8466	9999	11531
	End	13553							6655	9170	11684	14199	16714
GC5120-SR4	Start	14456				19818	25479	31139	36800	42461	48122	53783	59443
	Min	7489				6292	8739	11187	13635	16082	18530	20978	23425
	End	13553				8117	12133	16149	20165	24181	28197	32213	36229
GC5124-SR4	Start	14456		18886	27144	35402	43660						
	Min	7489		5889	9460	13030	16601						
	End	13553		7456	13315	19173	25032						
GC5128-SR4	Start	14456	20918	32606	44294								
	Min	7489	6767	11821	16875								
	End	13553	8898	17190	25482								
GC5132-SR4	Start	14456	31750	47050									
	Min	7489	11451	18066									
	End	13553	16583	27436									
GC5116-SR3	Start	17293									22328	25873	29418
	Min	8911									6860	8393	9926
	End	15965									8549	11064	13579
GC5120-SR3	Start	17293					22961	28622	34282	39943	45604		
	Min	8911					7134	9581	12029	14477	16924		
	End	15965					8998	13014	17030	21046	25062		
GC5124-SR3	Start	17293			24626	32884	41143						
	Min	8911			7854	11425	14995						
	End	15965			10180	16038	21897						
GC5128-SR3	Start	17293	18400	30088	41777								
	Min	8911	5162	10216	15270								
	End	15965	5763	14055	22347								
GC5132-SR3	Start	17293	29233	44532									
	Min	8911	9846	16461									
	End	15965	13448	24301									
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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Sheet No.: GCPM 1.14 Rev D

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC5136-SR3	Start	17293	41510										
	Min	8911	15154										
	End	15965	22157										
GC5116-SR2	Start	21445											26385
	Min	10874											7680
	End	18870											8989
GC5120-SR2	Start	21445						25589	31250	36911	42571		
	Min	10874						7336	9783	12231	14679		
	End	18870						8425	12440	16456	20472		
GC5124-SR2	Start	21445				29852	38110						
	Min	10874				9179	12750						
	End	18870				11449	17307						
GC5128-SR2	Start	21445		27056	38744								
	Min	10874		7970	13024								
	End	18870		9465	17757								
GC5132-SR2	Start	21445	26200	41499									
	Min	10874	7600	14215									
	End	18870	8858	19712									
GC5136-SR2	Start	21445	38477										
	Min	10874	12908										
	End	18870	17568										
GC5116-SR1	Start	23911											22777
	Min	12370											6056
	End	22326											6264
GC5120-SR1	Start	23911								33302	38963		
	Min	12370								10607	13055		
	End	22326								13731	17747		
GC5124-SR1	Start	23911					34502						
	Min	12370					11126						
	End	22326					14582						
GC5128-SR1	Start	23911			35136								
	Min	12370			11400								
	End	22326			15032								
GC5132-SR1	Start	23911		37891									
	Min	12370		12591									
	End	22326		16986									
GC5136-SR1	Start	23911	34869										
	Min	12370	11285										
	End	22326	14842										
GC7120-SR4	Start	28894							34630	41533	48435	55337	62240
	Min	14825							10209	13193	16178	19162	22147
	End	26336							12134	17031	21928	26824	31721
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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Sheet No.: GCPM 1.15 Rev D

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC7124-SR4	Start	28894				33050	43140	53230	63320	73410	83500	93590	
	Min	14825				9525	13888	18251	22614	26977	31339	35702	
	End	26336				11013	18171	25329	32488	39646	46804	53962	
GC7128-SR4	Start	28894			44008	58308	72607	86907					
	Min	14825			14263	20446	26629	32813					
	End	26336			18787	28932	39076	49221					
GC7132-SR4	Start	28894		47434	66165	84897							
	Min	14825		15745	23844	31943							
	End	26336		21218	34506	47794							
GC7136-SR4	Start	28894	43770	67524	91277								
	Min	14825	14161	24431	34702								
	End	26336	18618	35470	52321								
GC71228-SR4	Start	28894	58308	86907									
	Min	14825	20446	32813									
	End	26336	28932	49221									
GC7140-SR4	Start	28894	60610	89977									
	Min	14825	21442	34140									
	End	26336	30565	51399									
GC7128-SR3	Start	34361			39171	53471	67771	82071					
	Min	17563			11171	17354	23537	29720					
	End	30969			12744	22889	33034	43178					
GC7132-SR3	Start	34361		42598	61329	80060							
	Min	17563		12653	20752	28851							
	End	30969		15175	28464	41752							
GC7136-SR3	Start	34361	38934	62687	86441								
	Min	17563	11068	21339	31610								
	End	30969	12576	29427	46279								
GC71228-SR3	Start	34361	53471	82071									
	Min	17563	17354	29720									
	End	30969	22889	43178									
GC7124-SR2	Start	41628							52047	62137	72227	82317	
	Min	21204							15410	19773	24136	28499	
	End	37135							18413	25571	32729	39888	
GC7128-SR2	Start	41628				47034	61334	75634					
	Min	21204				13243	19426	25609					
	End	37135				14857	25002	35146					
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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Sheet No.: GCPM 1.16 Rev D

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC7132-SR2	Start Min End	41628 21204 37135			54892 16641 20432	73623 24740 33720							
GC7136-SR2	Start Min End	41628 21204 37135		56251 17228 21395	80004 27499 38247								
GC71228-SR2	Start Min End	41628 21204 37135	47034 13243 14857	75634 25609 35146									
GC7124-SR1	Start Min End	47095 23942 41769								57300 16681 19529	67391 21044 26687	77481 25407 33845	
GC7128-SR1	Start Min End	47095 23942 41769					56498 16334 18959	70797 22517 29104					
GC7132-SR1	Start Min End	47095 23942 41769				68787 21648 27678							
GC7136-SR1	Start Min End	47095 23942 41769			75168 24407 32204								
GC71228-SR1	Start Min End	47095 23942 41769		70797 22517 29104									
GC8124-SR3	Start Min End	47714 25841 50608							53987 17495 23041	65856 22627 31461	77724 27759 39880	89592 32891 48300	101461 38022 56720
GC8128-SR3	Start Min End	47714 25841 50608					65175 22333 30978	82033 29622 42937	98890 36911 54896	115748 44200 66855	132605 51489 78814		
GC8132-SR3	Start Min End	47714 25841 50608			57721 19110 25690	79830 28670 41375	101940 38230 57060	124050 47790 72745	146160 57350 88430				
GC8136-SR3	Start Min End	47714 25841 50608		59421 19845 26896	87483 31979 46804	115545 44112 66712	143607 56246 86620						
GC8140-SR3	Start Min End	47714 25841 50608	51317 16341 21147	86032 31351 45774	120747 46361 70402								
GC8144-SR3	Start Min End	47714 25841 50608	73376 25879 36796	115444 44069 66640									
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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Sheet No.: GCPM 1.17 Rev D

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC81232-SR3	Start	47714	79830	124050									
	Min	25841	28670	47790									
	End	50608	41375	72745									
GC8148-SR3	Start	47714	97536	147657									
	Min	25841	36325	57997									
	End	50608	53936	89493									
GC81236-SR3	Start	47714	115545										
	Min	25841	44112										
	End	50608	66712										
GC8124-SR2	Start	56187									68457	80325	92194
	Min	30409									22682	27814	32946
	End	59486									30515	38934	47354
GC8128-SR2	Start	56187						72766	89623	106481	123338		
	Min	30409						24545	31834	39123	46412		
	End	59486						33571	45530	57490	69449		
GC8132-SR2	Start	56187				70564	92673	14783	136893				
	Min	30409				23593	33153	42713	52273				
	End	59486				32009	47694	63379	79064				
GC8136-SR2	Start	56187			78216	106278	134340						
	Min	30409			26902	39036	51169						
	End	59486			37438	57346	77254						
GC8140-SR2	Start	56187		76765	111480								
	Min	30409		26274	41285								
	End	59486		36408	61036								
GC8144-SR2	Start	56187	64109	106177									
	Min	30409	20802	38992									
	End	59486	27430	57274									
GC81232-SR2	Start	56187	70564	114783									
	Min	30409	23593	42713									
	End	59486	32009	63379									
GC8148-SR2	Start	56187	88269	138391									
	Min	30409	31249	52921									
	End	59486	44570	80127									
GC81236-SR2	Start	56187	106278										
	Min	30409	39036										
	End	59486	57346										
GC8124-SR1	Start	69667											81303
	Min	36971											25488
	End	69919											32455
GC8128-SR1	Start	69667								95590	112448		
	Min	36971								31665	38954		
	End	69919								42591	54550		
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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Sheet No.: GCPM 1.18 Rev D

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3	4	5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GC8132-SR1	Start	69667					81782	103892	126002				
	Min	36971					25695	35255	44815				
	End	69919					32795	48481	64166				
GC8136-SR1	Start	69667				95388	123450						
	Min	36971				31578	43711						
	End	69919				42447	62355						
GC8140-SR1	Start	69667			100589								
	Min	36971			33827								
	End	69919			46137								
GC8144-SR1	Start	69667		95286									
	Min	36971		31534									
	End	69919		42375									
GC81232-SR1	Start	69667		103892									
	Min	36971		35255									
	End	69919		48481									
GC8148-SR1	Start	69667	77378	127500									
	Min	36971	23791	45463									
	End	69919	29671	65228									
GC81236-SR1	Start	69667	95388										
	Min	36971	31578										
	End	69919	42447										
Actuator Model	Spring Torque (CW)		Air Torque Output (Nm)										
			3	4	5	6	7	8	9	10	11	12	13
			Operating Pressure (Bar)										

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Sheet No.: GCHM 1.01 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Torque Output (Nm)											
GC01101.5	Full Piston outboard CCW	Start	512	731	1096	1462	1827	2192	2558	2923	3289	3654	4385	4750
		Min	219	313	469	625	781	938	1094	1250	1406	1563	1875	2032
		End	363	518	778	1037	1296	1555	1815	2074	2333	2592	3111	3370
	Rod side inboard CW	Start	239	342	513	684	855	1026	1197	1369	1540	1711	2053	2224
		Min	144	206	309	412	516	619	722	825	928	1031	1237	1341
		End	338	482	723	965	1206	1447	1688	1929	2170	2411	2894	3135
GC01101.7	Full Piston outboard CCW	Start	696	995	1492	1989	2487	2984	3481	3979	4476	4974		
		Min	298	425	638	851	1064	1276	1489	1702	1914	2127		
		End	494	706	1059	1411	1764	2117	2470	2823	3176	3528		
	Rod side inboard CW	Start	333	475	713	951	1188	1426	1664	1901	2139	2377		
		Min	201	287	430	573	716	860	1003	1146	1289	1433		
		End	469	670	1005	1340	1675	2010	2345	2680	3015	3350		
GC01102.0	Full Piston outboard CCW	Start	910	1300	1949	2599	3249	3899	4548	5198				
		Min	389	556	834	1112	1389	1667	1945	2223				
		End	645	922	1383	1844	2305	2766	3227	3688				
	Rod side inboard CW	Start	484	691	1037	1383	1728	2074	2420	2765				
		Min	292	417	625	833	1042	1250	1459	1667				
		End	682	974	1462	1949	2436	2923	3411	3898				
GC01102.2	Full Piston outboard CCW	Start	1151	1644	2467	3289	4111	4933						
		Min	492	703	1055	1407	1758	2110						
		End	817	1167	1750	2333	2917	3500						
	Rod side inboard CW	Start	655	936	1404	1873	2341	2809						
		Min	395	564	847	1129	1411	1693						
		End	924	1320	1980	2640	3300	3959						
GC01102.5	Full Piston outboard CCW	Start	1421	2030	3046	4061	5076							
		Min	608	868	1302	1737	2171							
		End	1008	1440	2161	2881	3601							
	Rod side inboard CW	Start	847	1210	1815	2420	3024							
		Min	511	729	1094	1459	1823							
		End	1194	1705	2558	3411	4263							
GC01103.0	Full Piston outboard CCW	Start	2047	2924	4386									
		Min	875	1250	1876									
		End	1452	2074	3111									
	Rod side inboard CW	Start	1290	1844	2765									
		Min	778	1111	1667									
		End	1819	2599	3898									
GC01103.5	Full Piston outboard CCW	Start	2785	3979										
		Min	1191	1702										
		End	1976	2823										
	Rod side inboard CW	Start	1815	2593										
		Min	1094	1563										
		End	2558	3655										
Actuator Model	Stroke Direction		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Operating Pressure (Bar)											

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Process Management

Data sheet

Sheet No.: GCHM 1.02 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Torque Output (Nm)											
GC2101.7	Full Piston outboard CCW	Start	843	1204	1806	2408	3010	3612	4214	4816	5419	6021	7225	
		Min	360	515	772	1030	1287	1545	1802	2060	2317	2575	3090	
		End	598	854	1281	1708	2136	2563	2990	3417	3844	4271	5125	
	Rod side inboard CW	Start	403	575	863	1151	1439	1726	2014	2302	2589	2877	3452	
			Min	243	347	520	694	867	1041	1214	1388	1561	1734	2081
			End	568	811	1217	1622	2028	2433	2839	3244	3650	4055	4867
GC2102.0	Full Piston outboard CCW	Start	1101	1573	2360	3146	3933	4719	5506	6292	7079	7866		
		Min	471	673	1009	1346	1682	2018	2355	2691	3027	3364		
		End	781	1116	1674	2232	2790	3348	3906	4464	5022	5580		
	Rod side inboard CW	Start	586	837	1255	1674	2092	2510	2929	3347	3766	4184		
			Min	353	504	757	1009	1261	1513	1766	2018	2270	2522	
			End	826	1180	1769	2359	2949	3539	4129	4718	5308	5898	
GC2102.2	Full Piston outboard CCW	Start	1393	1991	2986	3981	4977	5972	6967	7963				
		Min	596	851	1277	1703	2128	2554	2980	3405				
		End	989	1412	2118	2824	3531	4237	4943	5649				
	Rod side inboard CW	Start	793	1133	1700	2267	2834	3400	3967	4534				
			Min	478	683	1025	1367	1708	2050	2391	2733			
			End	1118	1598	2396	3195	3994	4793	5592	6391			
GC2102.5	Full Piston outboard CCW	Start	1720	2458	3687	4916	6145	7373						
		Min	736	1051	1577	2102	2628	3153						
		End	1221	1744	2615	3487	4359	5231						
	Rod side inboard CW	Start	1025	1464	2197	2929	3661	4393						
			Min	618	883	1324	1766	2207	2648					
			End	1445	2064	3096	4129	5161	6193					
GC2103.0	Full Piston outboard CCW	Start	2477	3539	5309	7079								
		Min	1060	1514	2270	3027								
		End	1758	2511	3766	5022								
	Rod side inboard CW	Start	1562	2232	3347	4463								
			Min	942	1345	2018	2691							
			End	2202	3146	4719	6291							
GC2103.5	Full Piston outboard CCW	Start	3372	4817	7225									
		Min	1442	2060	3090									
		End	2392	3417	5126									
	Rod side inboard CW	Start	2197	3138	4708									
			Min	1324	1892	2838								
			End	3097	4424	6636								
GC2104.0	Full Piston outboard CCW	Start	4404	6291										
		Min	1883	2691										
		End	3124	4463										
	Rod side inboard CW	Start	2929	4184										
			Min	1766	2523									
			End	4129	5898									
Actuator Model	Stroke Direction		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Operating Pressure (Bar)											

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Data sheet

Sheet No.: GCHM 1.03 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Torque Output (Nm)											
GC3102.0	Full Piston outboard CCW	Start	1341	1915	2873	3830	4788	5745	6703	7660	8618	9576	11491	12448
		Min	573	819	1229	1638	2048	2457	2867	3276	3686	4095	4914	5324
		End	951	1359	2038	2717	3397	4076	4755	5434	6114	6793	8152	8831
	Rod side inboard CW	Start	579	828	1241	1655	2069	2483	2897	3310	3724	4138	4966	5380
		Min	349	499	748	998	1247	1497	1746	1996	2245	2495	2994	
		End	817	1167	1750	2333	2917	3500	4083	4666	5250	5833	7000	7583
GC3102.2	Full Piston outboard CCW	Start	1696	2423	3635	4847	6059	7270	8482	9694	10905	12117		
		Min	725	1036	1555	2073	2591	3109	3627	4146	4664	5182		
		End	1203	1719	2579	3438	4298	5158	6017	6877	7737	8596		
	Rod side inboard CW	Start	832	1189	1783	2377	2972	3566	4160	4755	5349	5943		
		Min	502	717	1075	1433	1791	2150	2508	2866	3225	3583		
		End	1173	1676	2513	3351	4189	5027	5864	6702	7540	8378		
GC3102.5	Full Piston outboard CCW	Start	2094	2992	4488	5984	7480	8976	10472	11968	13465			
		Min	896	1280	1919	2559	3199	3839	4479	5119	5758			
		End	1486	2123	3184	4245	5307	6368	7429	8491	9552			
	Rod side inboard CW	Start	1114	1592	2388	3184	3980	4776	5572	6368	7165			
		Min	672	960	1440	1920	2399	2879	3359	3839	4319			
		End	1571	2244	3366	4488	5611	6733	7855	8977	10099			
GC3103.0	Full Piston outboard CCW	Start	3016	4309	6463	8617	10772	12926						
		Min	1290	1843	2764	3685	4607	5528						
		End	2140	3057	4585	6113	7642	9170						
	Rod side inboard CW	Start	1768	2526	3789	5051	6314	7577						
		Min	1066	1523	2284	3045	3806	4568						
		End	2492	3560	5340	7120	8900	10681						
GC3103.5	Full Piston outboard CCW	Start	4105	5864	8796	11728								
		Min	1756	2508	3762	5016								
		End	2912	4160	6240	8320								
	Rod side inboard CW	Start	2541	3630	5444	7259								
		Min	1532	2188	3282	4376								
		End	3581	5116	7674	10233								
GC3104.0	Full Piston outboard CCW	Start	5361	7659	11489									
		Min	2293	3276	4913									
		End	3804	5434	8150									
	Rod side inboard CW	Start	3432	4903	7355									
		Min	2069	2956	4434									
		End	4838	6911	10367									
GC3104.5	Full Piston outboard CCW	Start	6786	9694										
		Min	2902	4146										
		End	4814	6877										
	Rod side inboard CW	Start	4442	6346										
		Min	2678	3826										
		End	6262	8946										
Actuator Model	Stroke Direction		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Operating Pressure (Bar)											

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GC-Series

Torque Ratings – (Hydraulic)

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Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Torque Output (Nm)											
GC4102.5	Full Piston outboard CCW	Start	2543	3633	5450	7267	9083	10900	12717	14533	16350	18166	21800	23616
		Min	1088	1554	2331	3108	3885	4662	5438	6215	6992	7769	9323	10100
		End	1804	2578	3866	5155	6444	7733	9021	10310	11599	12888	15465	16754
	Rod side inboard CW	Start	1155	1650	2475	3300	4124	4949	5774	6599	7424	8249	9899	10723
		Min	696	995	1492	1989	2486	2984	3481	3978	4475	4973	5967	6464
		End	1628	2325	3488	4651	5814	6976	8139	9302	10465	11627	13953	15116
GC4103.0	Full Piston outboard CCW	Start	3662	5232	7848	10464	13080	15696	18312	20928	23544	26160		
		Min	1566	2238	3356	4475	5594	6713	7831	8950	10069	11188		
		End	2598	3712	5568	7423	9279	11135	12991	14847	16703	18558		
	Rod side inboard CW	Start	1948	2783	4175	5567	6958	8350	9742	11133	12525	13917		
		Min	1175	1678	2517	3356	4195	5034	5873	6712	7551	8390		
		End	2746	3923	5885	7847	9809	11770	13732	15694	17655	19617		
GC4103.5	Full Piston outboard CCW	Start	4985	7121	10681	14242	17802	21362	24923					
		Min	2132	3045	4568	6091	7613	9136	10659					
		End	3536	5052	7577	10103	12629	15155	17681					
	Rod side inboard CW	Start	2887	4124	6186	8248	10310	12372	14433					
		Min	1740	2486	3729	4972	6215	7458	8701					
		End	4069	5813	8719	11626	14532	17439	20345					
GC4104.0	Full Piston outboard CCW	Start	6510	9300	13951	18601	23251	27901						
		Min	2784	3977	5966	7955	9944	11932						
		End	4619	6598	9897	13196	16495	19794						
	Rod side inboard CW	Start	3969	5670	8505	11340	14175	17011						
		Min	2393	3418	5127	6836	8545	10255						
		End	5595	7993	11989	15985	19982	23978						
GC4104.5	Full Piston outboard CCW	Start	8240	11771	17656	23542								
		Min	3524	5034	7551	10068								
		End	5845	8351	12526	16701								
	Rod side inboard CW	Start	5196	7423	11134	14846								
		Min	3132	4475	6712	8950								
		End	7324	10463	15695	20926								
GC4105.0	Full Piston outboard CCW	Start	10173	14532	21799									
		Min	4351	6215	9323									
		End	7217	10310	15464									
	Rod side inboard CW	Start	6567	9382	14073									
		Min	3959	5656	8484									
		End	9257	13225	19837									
GC4106.0	Full Piston outboard CCW	Start	14648	20926										
		Min	6265	8950										
		End	10392	14846										
	Rod side inboard CW	Start	9743	13918										
		Min	5873	8390										
		End	13733	19619										
Actuator Model	Stroke Direction		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Operating Pressure (Bar)											

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GC-Series

Torque Ratings – (Hydraulic)

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Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Torque Output (Nm)											
GC5103.5	Full Piston outboard CCW	Start	6451	9215	13823	18430	23038	27645	32253	36860	41468	46076	55291	59898
		Min	2759	3941	5912	7882	9853	11823	13794	15764	17735	19705	23646	25617
		End	4576	6537	9806	13075	16344	19612	22881	26150	29418	32687	39225	42493
	Rod side inboard CW	Start	3082	4403	6605	8806	11008	13209	15411	17613	19814	22016	26419	28620
		Min	1858	2654	3982	5309	6636	7963	9290	10617	11945	13272	15926	17253
		End	4345	6207	9310	12413	15517	18620	21723	24827	27930	31033	37240	40343
GC5104.0	Full Piston outboard CCW	Start	8425	12036	18054	24072	30090	36108	42126	48144	54161	60179		
		Min	3603	5147	7721	10295	12868	15442	18016	20589	23163	25737		
		End	5977	8539	12808	17077	21346	25616	29885	34154	38423	42693		
	Rod side inboard CW	Start	4483	6404	9606	12808	16011	19213	22415	25617	28819	32021		
		Min	2703	3861	5791	7721	9652	11582	13513	15443	17373	19304		
		End	6319	9027	13541	18055	22568	27082	31596	36110	40623	45137		
GC5104.5	Full Piston outboard CCW	Start	10663	15233	22850	30466	38083	45699	53316	60932				
		Min	4560	6515	9772	13029	16287	19544	22801	26059				
		End	7565	10807	16210	21613	27017	32420	37823	43227				
	Rod side inboard CW	Start	6071	8672	13009	17345	21681	26017	30353	34690				
		Min	3660	5228	7842	10456	13070	15684	18298	20912				
		End	8557	12225	18337	24449	30561	36674	42786	48898				
GC5105.0	Full Piston outboard CCW	Start	13165	18807	28210	37613	47017	56420						
		Min	5630	8043	12064	16086	20107	24129						
		End	9339	13342	20013	26684	33355	40026						
	Rod side inboard CW	Start	7845	11207	16810	22414	28017	33621						
		Min	4729	6756	10134	13512	16890	20268						
		End	11058	15797	23696	31594	39493	47392						
GC5106.0	Full Piston outboard CCW	Start	18957	27081	40622	54162								
		Min	8107	11582	17373	23163								
		End	13448	19212	28818	38424								
	Rod side inboard CW	Start	11954	17078	25617	34155								
		Min	7207	10295	15443	20590								
		End	16851	24073	36109	48145								
GC5107.0	Full Piston outboard CCW	Start	25803	36861	55292									
		Min	11035	15764	23647									
		End	18305	26150	39226									
	Rod side inboard CW	Start	16811	24015	36023									
		Min	10134	14477	21716									
		End	23696	33852	50778									
GC5108.0	Full Piston outboard CCW	Start	33701	48144										
		Min	14413	20590										
		End	23908	34155										
	Rod side inboard CW	Start	22414	32021										
		Min	13512	19303										
		End	31595	45136										
Actuator Model	Stroke Direction		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Operating Pressure (Bar)											

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GC-Series

Torque Ratings – (Hydraulic)

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Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Torque Output (Nm)											
GC7104.0	Full Piston outboard CCW	Start	10340	14771	22157	29543	36928	44314	51700	59085	66471	73857	88628	96013
		Min	4422	6317	9476	12634	15793	18952	22110	25269	28427	31586	37903	41062
		End	7335	10479	15719	20958	26198	31437	36677	41916	47156	52396	62875	68114
	Rod side inboard CW	Start	5014	7163	10745	14327	17909	21490	25072	28654	32235	35817	42981	46562
		Min	3023	4318	6478	8637	10796	12955	15114	17274	19433	21592	25910	28069
		End	7068	10098	15146	20195	25244	30293	35341	40390	45439	50488	60585	65634
GC7104.5	Full Piston outboard CCW	Start	13087	18695	28043	37390	46738	56085	65433	74780	84128	93476	112171	121518
		Min	5597	7995	11993	15991	19988	23986	27983	31981	35979	39976	47972	51969
		End	9284	13263	19894	26526	33157	39788	46420	53051	59682	66314	79577	86208
	Rod side inboard CW	Start	6963	9947	14921	19894	24868	29841	34815	39788	44762	49735	59682	64656
		Min	4198	5996	8995	11993	14991	17989	20988	23986	26984	29982	35979	38977
		End	9815	14021	21032	28043	35053	42064	49075	56085	63096	70107	84128	91139
GC7105.0	Full Piston outboard CCW	Start	16157	23081	34621	46162	57702	69243	80783	92324	103864	115404		
		Min	6910	9871	14806	19742	24677	29613	34548	39484	44419	49355		
		End	11462	16374	24561	32748	40935	49122	57309	65497	73684	81871		
	Rod side inboard CW	Start	9141	13058	19588	26117	32646	39175	45705	52234	58763	65292		
		Min	5510	7872	11808	15744	19680	23616	27552	31488	35425	39361		
		End	12885	18407	27611	36814	46018	55221	64425	73628	82832	92036		
GC7106.0	Full Piston outboard CCW	Start	23265	33236	49854	66472	83090	99708	116326					
		Min	9950	14214	21321	28428	35535	42642	49749					
		End	16505	23578	35368	47157	58946	70735	82524					
	Rod side inboard CW	Start	14184	20263	30394	40525	50657	60788	70920					
		Min	8551	12215	18323	24430	30538	36645	42753					
		End	19994	28562	42843	57124	71406	85687	99968					
GC7107.0	Full Piston outboard CCW	Start	31667	45239	67859	90478	113098							
		Min	13543	19347	29021	38694	48368							
		End	22466	32094	48140	64187	80234							
	Rod side inboard CW	Start	20144	28777	43166	57554	71943							
		Min	12144	17348	26022	34696	43370							
		End	28395	40564	60846	81128	101410							
GC7108.0	Full Piston outboard CCW	Start	41360	59086	88630	118173								
		Min	17689	25269	37904	50539								
		End	29342	41917	62876	83835								
	Rod side inboard CW	Start	27021	38602	57902	77203								
		Min	16289	23270	34906	46541								
		End	38089	54413	81619	108825								
GC7109.0	Full Piston outboard CCW	Start	52347	74782	112172									
		Min	22387	31982	47972									
		End	37136	53052	79578									
	Rod side inboard CW	Start	34815	49736	74604									
		Min	20988	29983	44974									
		End	49076	70108	105162									
Actuator Model	Stroke Direction		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Operating Pressure (Bar)											

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GC-Series

Torque Ratings – (Hydraulic)

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Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Torque Output (Nm)											
GC7110.0	Full Piston outboard CCW	Start Min End	64627 27639 45848	92324 39484 65497										
	Rod side inboard CW	Start Min End	43527 26239 61355	62181 37485 87650										
GC8105.0	Full Piston outboard CCW	Start Min End	19149 8189 13584	27355 11699 19406	41033 17548 29110	54710 23398 38813	68388 29247 48516	82065 35097 58219	95743 40946 67922	109421 46796 77625	123098 52645 87329	136776 58494 97032	164131 70193 116438	177808 76043 126141
	Rod side inboard CW	Start Min End	9475 5712 13356	13536 8160 19080	20303 12240 28619	27071 16319 38159	33839 20399 47699	40607 24479 57239	47374 28559 66779	54142 32639 76319	60910 36719 85858	67678 40799 95398	81213 48958 114478	87981 53038 124018
GC8106.0	Full Piston outboard CCW	Start Min End	27574 11792 19561	39391 16846 27945	59086 25269 41917	78782 33692 55890	98477 42115 69862	118173 50538 83834	137868 58962 97807	157563 67385 111779	177259 75808 125752	196954 84231 139724		
	Rod side inboard CW	Start Min End	15452 9315 21782	22075 13308 31117	33112 19961 46675	44150 26615 62233	55187 33269 77792	66225 39923 93350	77262 46577 108909	88300 53230 124467	99337 59884 140025	110375 66538 155584		
GC8107.0	Full Piston outboard CCW	Start Min End	37395 15993 26529	53422 22847 37899	80132 34270 56848	106843 45693 75797	133554 57117 94746	160265 68540 113696	186976 79963 132645					
	Rod side inboard CW	Start Min End	22516 13574 31739	32166 19391 45341	48249 29086 68012	64332 38782 90682	80415 48477 113353	96498 58173 136023	112581 67868 158694					
GC8108.0	Full Piston outboard CCW	Start Min End	49020 20964 34776	70028 29949 49680	105042 44923 74520	140057 59898 99359	175071 74872 124199							
	Rod side inboard CW	Start Min End	30667 18487 43228	43810 26410 61754	65715 39615 92631	87620 52820 123508	109525 66026 154386							
GC8109.0	Full Piston outboard CCW	Start Min End	62041 26533 44013	88630 37904 62876	132945 56856 94314	177260 75808 125753								
	Rod side inboard CW	Start Min End	39904 24056 56249	57006 34366 80356	85510 51548 120534	114013 68731 160712								
GC8110.0	Full Piston outboard CCW	Start Min End	76594 32757 54338	109421 46796 77625	164131 70193 116438									
	Rod side inboard CW	Start Min End	50228 30279 70802	71755 43256 101145	107632 64885 151718									
Actuator Model	Stroke Direction		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Operating Pressure (Bar)											

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GC-Series

Torque Ratings – (Hydraulic)

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Double-Acting Actuators

GC-Series

Actuator Model	Stroke Direction		Operating Pressure (Bar)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Torque Output (Nm)											
GC8112.0	Full Piston outboard CCW	Start	110295	157565										
		Min	47170	67385										
		End	78246	111780										
	Rod side inboard CW	Start	74137	105910										
Min		44693	63847											
End		104503	149291											
Actuator Model	Stroke Direction		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	225	250	300	325
			Operating Pressure (Bar)											

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GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC01101.5-SR4	Start Min End	1097 641 1409									1423 551 841	1809 717 1114	
GC01101.7-SR4	Start Min End	1097 641 1409								1209 458 689	1879 748 1165	2549 1038 1640	
GC01102.0-SR4	Start Min End	1097 641 1409						1453 563 862	1940 774 1208	2427 985 1553	3401 1406 2244		
GC01102.2-SR4	Start Min End	1097 641 1409				1169 441 661	1829 726 1129	2489 1011 1597	3149 1297 2065	3808 1582 2533			
GC01102.5-SR4	Start Min End	1097 641 1409			1087 405 603	1940 774 1208	2792 1143 1812	3645 1511 2417					
GC01103.0-SR4	Start Min End	1097 641 1409		1128 423 632	2427 985 1553	3727 1547 2475							
GC01103.5-SR4	Start Min End	1097 641 1409	1087 406 603	2184 880 1381	4011 1670 2677								
GC01101.5-SR3	Start Min End	1283 742 1609											1600 605 908
GC01101.7-SR3	Start Min End	1283 742 1609									1671 635 958	2341 925 1434	
GC01102.0-SR3	Start Min End	1283 742 1609							1731 662 1001	2218 872 1347	3193 1294 2038		
GC01102.2-SR3	Start Min End	1283 742 1609					1620 613 922	2280 899 1390	2940 1184 1859	3600 1469 2327			
GC01102.5-SR3	Start Min End	1283 742 1609				1731 662 1001	2584 1030 1606	3436 1399 2211					
GC01103.0-SR3	Start Min End	1283 742 1609			2218 872 1347	3518 1434 2269							
GC01103.5-SR3	Start Min End	1283 742 1609		1975 767 1174	3802 1557 2471								
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC01101.5-SR2	Start Min End	1465 847 1833											1366 490 707
GC01101.7-SR2	Start Min End	1465 847 1833										2107 811 1232	
GC01102.0-SR2	Start Min End	1465 847 1833							1498 547 800	1985 758 1146	2959 1179 1837		
GC01102.2-SR2	Start Min End	1465 847 1833						2046 784 1189	2706 1070 1657	3366 1355 2126			
GC01102.5-SR2	Start Min End	1465 847 1833				1498 547 800	2350 916 1405	3203 1284 2010					
GC01103.0-SR2	Start Min End	1465 847 1833			1985 758 1146	3284 1319 2067							
GC01103.5-SR2	Start Min End	1465 847 1833		1742 652 973	3569 1443 2269								
GC01101.5-SR1	Start Min End	1742 987 2074											1115 333 401
GC01101.7-SR1	Start Min End	1742 987 2074										1855 653 927	
GC01102.0-SR1	Start Min End	1742 987 2074									2707 1021 1531		
GC01102.2-SR1	Start Min End	1742 987 2074							2454 912 1352	3114 1197 1820			
GC01102.5-SR1	Start Min End	1742 987 2074					2098 758 1099	2951 1127 1704					
GC01103.0-SR1	Start Min End	1742 987 2074				3032 1162 1762							
GC01103.5-SR1	Start Min End	1742 987 2074			3317 1285 1964								
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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Sheet No.: GCHM 1.11 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC01102.2-SR0	Start Min End	2295 1252 2481								2689 895 1208			
GC01102.5-SR0	Start Min End	2295 1252 2481						2526 824 1093					
GC01103.0-SR0	Start Min End	2295 1252 2481				2608 859 1150							
GC01103.5-SR0	Start Min End	2295 1252 2481			2892 982 1352								
GC2101.7-SR4	Start Min End	2074 1156 2371										2391 829 1161	3040 1109 1621
GC2102.0-SR4	Start Min End	2074 1156 2371								2243 764 1055	3422 1275 1892	4602 1785 2729	
GC2102.2-SR4	Start Min End	2074 1156 2371						2317 797 1108	3116 1142 1675	3915 1488 2242	5513 2178 3375		
GC2102.5-SR4	Start Min End	2074 1156 2371					2685 956 1369	3717 1402 2101	4750 1848 2834				
GC2103.0-SR4	Start Min End	2074 1156 2371			2243 765 1056	3816 1445 2171	5389 2125 3287						
GC2103.5-SR4	Start Min End	2074 1156 2371			4160 1594 2416								
GC2104.0-SR4	Start Min End	2074 1156 2371		3423 1275 1893									
GC2101.7-SR3	Start Min End	2317 1305 2720											2676 947 1351
GC2102.0-SR3	Start Min End	2317 1305 2720									3058 1113 1623	4238 1623 2460	
GC2102.2-SR3	Start Min End	2317 1305 2720							2752 980 1406	3551 1326 1972	5149 2017 3106		
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC2102.5-SR3	Start	2317					2321	3353	4385				
	Min	1305					794	1240	1687				
	End	2720					1100	1832	2564				
GC2103.0-SR3	Start	2317				3452	5025						
	Min	1305				1283	1963						
	End	2720				1902	3018						
GC2103.5-SR3	Start	2317			3796								
	Min	1305			1432								
	End	2720			2146								
GC2104.0-SR3	Start	2317		3059									
	Min	1305		1113									
	End	2720		1623									
GC2101.7-SR2	Start	2579											2347
	Min	1454											784
	End	3035											1062
GC2102.0-SR2	Start	2579									2730	3909	
	Min	1454									949	1459	
	End	3035									1334	2171	
GC2102.2-SR2	Start	2579								3222	4820		
	Min	1454								1162	1853		
	End	3035								1683	2817		
GC2102.5-SR2	Start	2579						3025	4057				
	Min	1454						1077	1523				
	End	3035						1543	2275				
GC2103.0-SR2	Start	2579				3123	4696						
	Min	1454				1119	1799						
	End	3035				1613	2729						
GC2103.5-SR2	Start	2579			3468								
	Min	1454			1268								
	End	3035			1857								
GC2104.0-SR2	Start	2579		2730									
	Min	1454		949									
	End	3035		1334									
GC2101.7-SR1	Start	2579											1954
	Min	1454											553
	End	3035											625
GC2102.0-SR1	Start	2579										3516	
	Min	1454										1229	
	End	3035										1733	
GC2102.2-SR1	Start	2579									4427		
	Min	1660									1622		
	End	3412									2379		
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC2102.5-SR1	Start Min End	2975 1660 3412							3664 1292 1838				
GC2103.0-SR1	Start Min End	2975 1660 3412					4303 1569 2291						
GC2103.5-SR1	Start Min End	2975 1660 3412			3075 1038 1420								
GC2104.0-SR1	Start Min End	2975 1660 3412		2337 719 897									
GC3102.0-SR4	Start Min End	3495 1946 3985											3773 1282 1765
GC3102.2-SR4	Start Min End	3495 1946 3985									4218 1474 2080	5894 2199 3269	7234 2778 4220
GC3102.5-SR4	Start Min End	3495 1946 3985								4817 1733 2505	7062 2704 4097	9306 3674 5689	
GC3103.0-SR4	Start Min End	3495 1946 3985					4741 1700 2451	6521 2470 3714	8301 3240 4977				
GC3103.5-SR4	Start Min End	3495 1946 3985				6073 2276 3396	8631 3382 5211						
GC3104.0-SR4	Start Min End	3495 1946 3985			6207 2334 3491	9663 3829 5943							
GC3104.5-SR4	Start Min End	3495 1946 3985		4786 1720 2483	9259 3654 5656								
GC3102.2-SR3	Start Min End	3981 2216 4539										5316 1900 2732	6656 2480 3683
GC3102.5-SR3	Start Min End	3981 2216 4539								4239 1435 1968	6484 2405 3561	8728 3376 5153	
GC3103.0-SR3	Start Min End	3981 2216 4539					4163 1402 1914	5943 2171 3177	7723 2941 4440				
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC3103.5-SR3	Start	3981				5495	8053						
	Min	2216				1978	3084						
	End	4539				2859	4674						
GC3104.0-SR3	Start	3981			5629	9085							
	Min	2216			2036	3530							
	End	4539			2955	5406							
GC3104.5-SR3	Start	3981		4208	8681								
	Min	2216		1421	3355								
	End	4539		1946	5120								
GC3102.2-SR2	Start	4546										4643	5984
	Min	2531										1553	2133
	End	5183										2108	3059
GC3102.5-SR2	Start	4546									5811	8055	
	Min	2531									2058	3028	
	End	5183									2936	4529	
GC3103.0-SR2	Start	4546						5270	7050				
	Min	2531						1824	2594				
	End	5183						2553	3816				
GC3103.5-SR2	Start	4546				4822	7381						
	Min	2531				1631	2737						
	End	5183				2235	4050						
GC3104.0-SR2	Start	4546			4957	8412							
	Min	2531			1689	3183							
	End	5183			2330	4782							
GC3104.5-SR2	Start	4546			8009								
	Min	2531			3008								
	End	5183			4495								
GC3102.2-SR1	Start	5202											5203
	Min	2896											1729
	End	5931											2333
GC3102.5-SR1	Start	5202										7274	
	Min	2896										2625	
	End	5931										3803	
GC3103.0-SR1	Start	5202							6269				
	Min	2896							2191				
	End	5931							3090				
GC3103.5-SR1	Start	5202					6599						
	Min	2896					2333						
	End	5931					3324						
GC3104.0-SR1	Start	5202				7631							
	Min	2896				2779							
	End	5931				4056							
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC3104.5-SR1	Start	5202			7228								
	Min	2896			2605								
	End	5931			3770								
GC4102.5-SR4	Start	6477									6721	8581	
	Min	3519									2129	2933	
	End	6928									2739	4059	
GC4103.0-SR4	Start	6477							6500	8461	12385	16308	
	Min	3519							2033	2881	4578	6274	
	End	6928							2583	3974	6758	9541	
GC4103.5-SR4	Start	6477					7300	10207	13113	16020			
	Min	3519					2379	3636	4893	6149			
	End	6928					3151	5213	7274	9336			
GC4104.0-SR4	Start	6477				8753	12749	16746	20742				
	Min	3519				3007	4735	6463	8191				
	End	6928				4181	7016	9851	12687				
GC4104.5-SR4	Start	6477			8462	13694	18926						
	Min	3519			2882	5144	7406						
	End	6928			3975	7687	11398						
GC4105.0-SR4	Start	6477			12605	19217							
	Min	3519			4673	7532							
	End	6928			6914	11605							
GC4106.0-SR4	Start	6477		12386									
	Min	3519		4578									
	End	6928		6759									
GC4103.0-SR3	Start	7819								11044	14967	18106	
	Min	4219								3794	5490	6848	
	End	8213								5274	8058	10285	
GC4103.5-SR3	Start	7819						11772	14678				
	Min	4219						4109	5366				
	End	8213						5791	7853				
GC4104.0-SR3	Start	7819					11408	15405	19401				
	Min	4219					3952	5680	7408				
	End	8213					5533	8368	11203				
GC4104.5-SR3	Start	7819				12353	17585						
	Min	4219				4360	6622						
	End	8213				6203	9915						
GC4105.0-SR3	Start	7819			11264	17876							
	Min	4219			3889	6748							
	End	8213			5430	10121							
GC4106.0-SR3	Start	7819		11045									
	Min	4219		3795									
	End	8213		5276									
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC4103.0-SR2	Start	9261									9489	13412	16551
	Min	4993									2934	4630	5987
	End	9703									3681	6464	8691
GC4103.5-SR2	Start	9261							10217	13124			
	Min	4993							3248	4505			
	End	9703							4197	6259			
GC4104.0-SR2	Start	9261					9854	13850	17846				
	Min	4993					3091	4819	6547				
	End	9703					3939	6774	9609				
GC4104.5-SR2	Start	9261				10798	16030						
	Min	4993				3500	5762						
	End	9703				4609	8321						
GC4105.0-SR2	Start	9261			9709	16321							
	Min	4993			3029	5888							
	End	9703			3837	8527							
GC4106.0-SR2	Start	9261		9490									
	Min	4993		2934									
	End	9703		3682									
GC4103.0-SR1	Start	10585										11554	14693
	Min	5782										3771	5128
	End	11483										5001	7228
GC4103.5-SR1	Start	10585								11265			
	Min	5782								3646			
	End	11483								4796			
GC4104.0-SR1	Start	10585						11991	15988				
	Min	5782						3960	5688				
	End	11483						5311	8146				
GC4104.5-SR1	Start	10585					14171						
	Min	5782					4903						
	End	11483					6858						
GC4105.0-SR1	Start	10585				14463							
	Min	5782				5029							
	End	11483				7065							
GC4106.0-SR1	Start	10585		7632									
	Min	5782		2075									
	End	11483		2219									
GC5103.5-SR4	Start	14456									16886	23093	28058
	Min	7489									5024	7708	9855
	End	13553									6038	10441	13963
GC5104.0-SR4	Start	14456							17449	21962	30990	40017	47239
	Min	7489							5267	7219	11122	15026	18148
	End	13553							6437	9639	16043	22447	27571
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC5104.5-SR4	Start	14456					16414	22527	28639	34751	46976		
	Min	7489					4820	7463	10106	12749	18035		
	End	13553					5703	10039	14375	18711	27384		
GC5105.0-SR4	Start	14456				17447	25346	33245	41143	49042			
	Min	7489				5267	8682	12097	15513	18928			
	End	13553				6436	12039	17643	23246	28850			
GC5106.0-SR4	Start	14456			21962	33998	46035						
	Min	7489			7219	12423	17628						
	End	13553			9638	18177	26716						
GC5107.0-SR4	Start	14456		19705	36631								
	Min	7489		6243	13562								
	End	13553		8037	20045								
GC5108.0-SR4	Start	14456	17448	30989									
	Min	7489	5267	11122									
	End	13553	6436	16042									
GC5103.5-SR3	Start	17293										20575	25540
	Min	8911										6102	8249
	End	15965										7306	10828
GC5104.0-SR3	Start	17293								19445	28472	37499	44721
	Min	8911								5613	9517	13420	16543
	End	15965								6504	12908	19312	24436
GC5104.5-SR3	Start	17293						20009	26121	32233	44458		
	Min	8911						5857	8500	11143	16429		
	End	15965						6904	11240	15576	24249		
GC5105.0-SR3	Start	17293					22828	30727	38625	46524			
	Min	8911					7076	10492	13907	17322			
	End	15965					8904	14508	20111	25714			
GC5106.0-SR3	Start	17293			19444	31480	43517						
	Min	8911			5613	10818	16022						
	End	15965			6503	15042	23581						
GC5107.0-SR3	Start	17293			34113								
	Min	8911			11956								
	End	15965			16910								
GC5108.0-SR3	Start	17293		28471									
	Min	8911		9516									
	End	15965		12907									
GC5104.0-SR2	Start	21445									25439	34467	41689
	Min	10874									7271	11174	14297
	End	18870									8318	14723	19846
GC5104.5-SR2	Start	21445								29201	41425		
	Min	10874								8897	14183		
	End	18870								10987	19659		
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

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Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC5105.0-SR2	Start Min End	21445 10874 18870						27694 8246 9918	35593 11661 15521	43491 15076 21125			
GC5106.0-SR2	Start Min End	21445 10874 18870				28448 8572 10453	40484 13776 18992						
GC5107.0-SR2	Start Min End	21445 10874 18870			31081 9710 12320								
GC5108.0-SR2	Start Min End	21445 10874 18870		25439 7271 8318									
GC5104.0-SR1	Start Min End	23911 12370 22326										30859 9551 11997	38081 12673 17121
GC5104.5-SR1	Start Min End	23911 12370 22326									37817 12560 16934		
GC5105.0-SR1	Start Min End	23911 12370 22326							31985 10038 12796	39883 13453 18399			
GC5106.0-SR1	Start Min End	23911 12370 22326					36876 12153 16266						
GC5107.0-SR1	Start Min End	23911 12370 22326			27472 8087 9595								
GC5108.0-SR1	Start Min End	23911 12370 22326		21830 5422 5592									
GC7104.0-SR4	Start Min End	28894 14825 26336										33094 9544 11045	41172 13037 16775
GC7104.5-SR4	Start Min End	28894 14825 26336									42616 13661 17799	56637 19724 27747	67854 24574 35704
GC7105.0-SR4	Start Min End	28894 14825 26336							36934 11205 13769	46138 15184 20298	64545 23143 33356	82952 31102 46415	
GC7106.0-SR4	Start Min End	28894 14825 26336					43915 14223 18721	58196 20398 28852	72477 26573 38984	86758 32748 49115			
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC7107.0-SR4	Start	28894			33355	53637	73919	94201					
	Min	14825			9657	18427	27197	35966					
	End	26336			11230	25618	40007	54395					
GC7108.0-SR4	Start	28894			54128	81334							
	Min	14825			18639	30403							
	End	26336			25967	45267							
GC7109.0-SR4	Start	28894		42617	77671								
	Min	14825		13662	28819								
	End	26336		17800	42668								
GC7110.0-SR4	Start	28894	33864	60159									
	Min	14825	9877	21247									
	End	26336	11591	30245									
GC7104.0-SR3	Start	34361										36336	
	Min	17563										9726	
	End	30969										10733	
GC7104.5-SR3	Start	34361									51801	63018	
	Min	17563									16632	21482	
	End	30969									21704	29662	
GC7105.0-SR3	Start	34361								59708	78115		
	Min	17563								20051	28010		
	End	30969								27314	40372		
GC7106.0-SR3	Start	34361						53359	67640	81922			
	Min	17563						17306	23481	29656			
	End	30969						22810	32941	43073			
GC7107.0-SR3	Start	34361				48801	69083	89365					
	Min	17563				15335	24105	32874					
	End	30969				19576	33964	48353					
GC7108.0-SR3	Start	34361			49292	76498							
	Min	17563			15547	27311							
	End	30969			19924	39225							
GC7109.0-SR3	Start	34361			72834								
	Min	17563			25727								
	End	30969			36626								
GC7110.0-SR3	Start	34361		55322									
	Min	17563		18155									
	End	30969		24202									
GC7104.5-SR2	Start	41628										56581	
	Min	21204										17371	
	End	37135										21630	
GC7105.0-SR2	Start	41628									53272	71679	
	Min	21204									15940	23899	
	End	37135									19282	32340	
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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Sheet No.: GCHM 1.20 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC7106.0-SR2	Start Min End	41628 21204 37135							61204 19370 24909	75485 25545 35041			
GC7107.0-SR2	Start Min End	41628 21204 37135					62646 19993 25933	82928 28763 40321					
GC7108.0-SR2	Start Min End	41628 21204 37135				70061 23200 31193							
GC7109.0-SR2	Start Min End	41628 21204 37135			66398 21615 28594								
GC7110.0-SR2	Start Min End	41628 21204 37135		48886 14044 16171									
GC7104.5-SR1	Start Min End	47095 23942 41769											51745 14279 15587
GC7105.0-SR1	Start Min End	47095 23942 41769										66842 20807 26298	
GC7106.0-SR1	Start Min End	47095 23942 41769							56367 16278 18867	70648 22453 28998			
GC7107.0-SR1	Start Min End	47095 23942 41769					57810 16901 19890	78092 25671 34279					
GC7108.0-SR1	Start Min End	47095 23942 41769				65225 20107 25150							
GC7109.0-SR1	Start Min End	47095 23942 41769			61561 18523 22551								
GC7110.0-SR1	Start Min End	47095 23942 41769		44049 10128 10128									
GC8105.0-SR3	Start Min End	47714 25841 50608										61650 20809 28477	
GC8106.0-SR3	Start Min End	47714 25841 50608							56081 18401 24526	71639 25128 35564	102756 57638	133872 52037 79713	
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC8107.0-SR3	Start	47714					60525	83195	105866	128537			
	Min	25841					20322	30125	39927	49730			
	End	50608					27679	43762	59845	75928			
GC8108.0-SR3	Start	47714				70680	101558	132435					
	Min	25841				24713	38064	51415					
	End	50608				34884	56788	78693					
GC8109.0-SR3	Start	47714			67706	107884	148062						
	Min	25841			23427	40800	58172						
	End	50608			32773	61277	89780						
GC8110.0-SR3	Start	47714		48317	98890								
	Min	25841		15044	36911								
	End	50608		19018	54896								
GC8112.0-SR3	Start	47714		96463									
	Min	25841		35861									
	End	50608		53174									
GC8105.0-SR2	Start	56187										52383	
	Min	30409										15732	
	End	59486										19111	
GC8106.0-SR2	Start	56187								62372	93489	124606	
	Min	30409								20051	33506	46960	
	End	59486								26198	48273	70348	
GC8107.0-SR2	Start	56187						73929	96599	119270			
	Min	30409						25048	34850	44653			
	End	59486						34396	50479	66562			
GC8108.0-SR2	Start	56187				61414	92291	123168					
	Min	30409				19637	32988	46338					
	End	59486				25518	47423	69328					
GC8109.0-SR2	Start	56187			58439	98617	138795						
	Min	30409			18350	35723	53096						
	End	59486			23408	51911	80414						
GC8110.0-SR2	Start	56187			89623								
	Min	30409			31834								
	End	59486			45530								
GC8112.0-SR2	Start	56187		87196									
	Min	30409		30785									
	End	59486		43808									
GC8106.0-SR1	Start	69667									82598	113715	
	Min	36971									26048	39502	
	End	69919									33374	55449	
GC8107.0-SR1	Start	69667							85708	108379			
	Min	36971							27392	37195			
	End	69919							35581	51664			
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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Sheet No.: GCHM 1.22 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			35	50	75	100	125	150	175	200	250	300	340
			Torque Output (Nm)										
GC8108.0-SR1	Start	69667					81400	112277					
	Min	36971					25530	38880					
	End	69919					32524	54429					
GC8109.0-SR1	Start	69667				87726	127904						
	Min	36971				28265	45637						
	End	69919				37012	65515						
GC8110.0-SR1	Start	69667			78732								
	Min	36971			24376								
	End	69919			30631								
GC8112.0-SR1	Start	69667		76305									
	Min	36971		23327									
	End	69919		28910									
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										

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Sheet No.: GC10PM 1.01 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC10-Series

Actuator Model	Stroke Direction		Operating Pressure, barg												MOP barg
			3	4	5	5.5	6	7	8	9	10	11	12	13	
			Air Torque Output, Nm												
GC10128	Full Piston outboard CW	Start	47307	63076	78845	86729	94614	110383	126152	141921	157690	173459	189228	204997	13.8
		Min	28518	38025	47531	52284	57037	66543	76049	85555	95061	104567	114074	123580	
	Rod side inboard CCW	End	66684	88912	111139	122253	133367	155595	177823	200051	222279	244507	266735	288962	
		Start	65773	87698	109622	120585	131547	153471	175396	197320	219245	241169	263094	285018	
GC10132	Full Piston outboard CW	Min	28129	37506	46882	51570	56258	65635	75011	84387	93764	103140	112517	121893	13.8
		End	46661	62215	77769	85546	93322	108876	124430	139984	155537	171091	186645	202199	
	Rod side inboard CCW	Start	61978	82638	103297	113627	123956	144616	165275	185934	206594	227253	247913	268572	
		Min	37363	49817	62271	68498	74725	87180	99634	112088	124542	136997	149451	161905	
GC10136	Full Piston outboard CW	End	87364	116485	145607	160168	174728	203850	232971	262092	291214	320335	349456	378578	10.9
		Start	86454	115272	144090	158499	172908	201726	230544	259362	288180	316998	345816	374634	
	Rod side inboard CCW	Min	36973	49298	61622	67785	73947	86271	98596	110920	123245	135569	147894	160218	
		End	61332	81777	102221	112443	122665	143109	163553	183997	204441	224886	245330	265774	
GC10136	Full Piston outboard CW	Start	78605	104807	131009	144110	157211	183413	209615	235816	262018	288220			10.9
		Min	47386	63182	78977	86875	94773	110568	126364	142159	157954	173750			
	Rod side inboard CCW	End	110802	147736	184670	203137	221604	258538	295472	332406	369340	406274			
		Start	109892	146522	183153	201468	219783	256414	293045	329675	366306	402936			
GC10140	Full Piston outboard CW	Min	46997	62663	78328	86161	93994	109660	125325	140991	156657	172323			8.8
		End	77960	103946	129933	142926	155920	181906	207893	233879	259866	285852			
	Rod side inboard CCW	Start	97189	129585	161982	178180	194378	226774	259171	291567					
		Min	58589	78119	97649	107413	117178	136708	156238	175767					
GC10140	Full Piston outboard CW	End	136997	182663	228329	251161	273994	319660	365326	410991					8.8
		Start	136087	181449	226812	249493	272174	317536	362899	408261					
	Rod side inboard CCW	Min	58200	77600	97000	106700	116400	135800	155200	174600					
		End	96543	128724	160905	176996	193087	225268	257449	289630					
Actuator Model	Spring Torque Nm		Air Torque Output, Nm												MOP barg
			3	4	5		6	7	8	9	10	11	12	13	
			Operating Pressure, barg												

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Sheet No.: GC10PM 1.02 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC10-Series (cont.)

Actuator Model	Stroke Direction		Operating Pressure, barg												MOP barg
			3	4	5	5.5	6	7	8	9	10	11	12	13	
			Air Torque Output, Nm												
GC101232	Full Piston outboard CW	Start	123311	164414	205518	226069	246621	287725	328828						6.9
		Min	74336	99115	123894	136283	148672	173451	198230						
	Rod side inboard CCW	End	173818	231757	289697	318666	347636	405575	463515						
		Start	173818	231757	289697	318666	347636	405575	463515						
GC101236	Full Piston outboard CW	Min	74336	99115	123894	136283	148672	173451	198230						5.5
		End	123311	164414	205518	226069	246621	287725	328828						
	Rod side inboard CCW	Start	156565	208754	260942	287036	313130								
		Min	94383	125844	157306	173036	188767								
GC101240	Full Piston outboard CW	End	220694	294258	367823	404605	441387								4.4
		Start	220694	294258	367823	404605	441387								
	Rod side inboard CCW	Min	193732	258310	322887										
		End	116789	155719	194648										
Actuator Model	Spring Torque Nm		Air Torque Output, Nm												MOP barg
			3	4	5		6	7	8	9	10	11	12	13	
			Operating Pressure, barg												

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Sheet No.: GC10PM 1.03 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC10-Series

Actuator Model	Spring Torque Nm		Operating Pressure, barg											MOP barg
			3	4	5	6	7	8	9	10	11	12	13	
			Air Torque Output, Nm											
GC10128-SR4	Start Min End	94730 47909 82710								132907 40814 50835	154832 50294 66389	176756 59774 81943	198681 69254 97497	13.8
GC10132-SR4	Start Min End	94730 47909 82710					115388 33239 38407	144206 45700 58851	173024 58160 79295	201842 70621 99740	230660 83081 120184	259478 95542 140628	288296 108003 161072	13.8
GC10136-SR4	Start Min End	94730 47909 82710				133446 41047 51218	170076 56886 77204	206707 72724 103191	243337 88563 129177	279968 104402 155164				10.9
GC10140-SR4	Start Min End	94730 47909 82710			140474 44086 56203	185836 63700 88385	231198 83314 120566	276561 102928 152747						8.8
GC10128-SR3	Start Min End	117925 58693 98008									138863 37906 40753	160787 47386 56307	182712 56866 71861	13.8
GC10132-SR3	Start Min End	117925 58693 98008							157055 45772 53659	185873 58233 74104	214691 70693 94548	243509 83154 114992	272327 95615 135436	13.8
GC10136-SR3	Start Min End	117925 58693 98008					154108 44498 51568	190738 60336 77555	227369 76175 103541	263999 92014 129528				10.9
GC10140-SR3	Start Min End	117925 58693 98008				169867 51312 62749	215230 70926 94930	260592 90540 127111						8.8
GC10128-SR2	Start Min End	129343 66208 117081										140877 39354 43687	162802 48834 59241	13.8
GC10132-SR2	Start Min End	129343 66208 117081							137145 37740 41039	165963 50201 61484	194781 62661 81928	223599 75122 102372	252417 87582 122816	13.8
GC10136-SR2	Start Min End	129343 66208 117081					134198 36465 38948	170828 52304 64935	207459 68143 90921	244089 83981 116908				10.9
GC10140-SR2	Start Min End	129343 66208 117081				149957 43280 50129	195320 62894 82310	240682 82508 114491						8.8
GC10132-SR1	Start Min End	160234 80870 139024									171876 45899 47785	200694 58360 68229	229512 70820 88673	13.8
GC10136-SR1	Start Min End	160234 80870 139024							184553 51381 56778	221184 67220 82765				10.9
GC10140-SR1	Start Min End	160234 80870 139024					172414 46132 48167	217777 65746 80348						8.8

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Sheet No.: GC10PM 1.04 Rev C

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GC-Series

Torque Ratings – (Pneumatic)

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Spring-Return Actuators

GC10-Series (cont.)

Actuator Model	Spring Torque Nm		Operating Pressure, barg										MOP barg	
			3	4	5	6	7	8	9	10	11	12		13
			Air Torque Output, Nm											
GC101232-SR4	Start Min End	94729 47909 82710		144206 45700 58853	201842 70621 99741	259478 95543 140629								6.9
GC101236-SR4	Start Min End	94729 47909 82710	133446 41048 51219	206707 72725 103192	279968 104402 155165									5.5
GC101240-SR4	Start Min End	94729 47909 82710	185836 63701 88386	276561 102929 152748										4.4
GC101232-SR3	Start Min End	117924 58693 98008			185873 58233 74105	243509 83154 114993								6.9
GC101236-SR3	Start Min End	117924 58693 98008		190738 60337 77556	263999 92014 129529									5.5
GC101240-SR3	Start Min End	117924 58693 98008	169867 51313 62750	260592 90541 127112										4.4
GC101232-SR2	Start Min End	129344 66208 117081			165963 50200 61483	223599 75121 102371								6.9
GC101236-SR2	Start Min End	129344 66208 117081		170828 52304 64934	244089 83981 116907									5.5
GC101240-SR2	Start Min End	129344 66208 117081	149957 43279 50128	240682 82508 114490										4.4
GC101232-SR1	Start Min End	160234 80870 139024				200694 58360 68229	258330 83281 109118							6.9
GC101236-SR1	Start Min End	160234 80870 139024		147923 35542 30792	221184 67220 82765									5.5
GC101240-SR1	Start Min End	160234 80870 139024		217777 65746 80348										4.4
Actuator Model	Spring Torque Nm		Air Torque Output, Nm										MOP barg	
			3	4	5	6	7	8	9	10	11	12		13
			Operating Pressure, barg											

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Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

GC10-Series

Actuator Model	Spring Torque Nm		Operating Pressure, barg												MOP barg
			35	50	75	100	125	150	175	200	225	250	300	325	
			Torque Output, Nm												
GC1016.0	Full Piston outboard CW	Start Min End	36190 15477 25674	51700 22111 36678	77551 33166 55016	103401 44221 73355	129251 55276 91694	155101 66332 110033	180952 77387 128371	206802 88442 146710	232652 99498 165049	258502 110553 183388	310203 132664 220065	336053 143719 238404	345
	Rod side inboard CCW	Start Min End	18142 10937 25573	25917 15624 36533	38876 23436 54799	51834 31248 73065	64793 39060 91332	77751 46871 109598	90710 54683 127864	103668 62495 146131	116627 70307 164397	129586 78119 182663	155503 93743 219196	168461 101555 237462	
GC1017.0	Full Piston outboard CW	Start Min End	49260 21067 34946	70372 30096 49923	105558 45144 74885	140744 60191 99847	175930 75239 124809	211115 90287 149770	246301 105335 174732	281487 120383 199694	316673 135431 224655	351859 150479 249617			345
	Rod side inboard CCW	Start Min End	27413 16526 38642	39162 23608 55202	58743 35412 82803	78323 47216 110404	97904 59020 138005	117485 70824 165606	137066 82628 193208	156647 94433 220809	176228 106237 248410	195809 118041 276011			
GC1018.0	Full Piston outboard CW	Start Min End	64339 27515 45643	91912 39308 65205	137868 58962 97807	183824 78616 130409	229780 98269 163012	275737 117923 195614	321693 137577 228216	367649 157231 260819					224
	Rod side inboard CCW	Start Min End	38111 22975 53721	54444 32821 76744	81666 49232 115116	108888 65642 153489	136111 82053 191861	163333 98463 230233	190555 114874 268605	217777 131284 306977					
GC1019.0	Full Piston outboard CW	Start Min End	81429 34824 57768	116327 49749 82525	174490 74624 123788	232654 99498 165050	290817 124373 206313	348981 149248 247575	407144 174122 288838						196
	Rod side inboard CCW	Start Min End	50234 30283 70810	71763 43262 101157	107645 64892 151736	143527 86523 202315	179408 108154 252893	215290 129785 303472	251172 151416 354051						
GC10110.0	Full Piston outboard CW	Start Min End	100581 43015 71355	143688 61450 101935	215531 92176 152903	287375 122901 203871	359219 153626 254838	431063 184351 305806	502907 215077 356774						156
	Rod side inboard CCW	Start Min End	63785 38452 89911	91122 54932 128445	136683 82397 192667	182243 109863 256890	227804 137329 321112	273365 164795 385334	318926 192261 449557						
GC10112.0	Full Piston outboard CW	Start Min End	144763 61910 102698	206804 88443 146711	310206 132665 220067	413607 176886 293423									104
	Rod side inboard CCW	Start Min End	95166 57369 134145	135951 81956 191636	203926 122935 287454	271902 163913 383272									
GC10114.0	Full Piston outboard CW	Start Min End	197039 84267 139784	281484 120381 199691	422225 180572 299537										75
	Rod side inboard CCW	Start Min End	132251 79726 186420	188929 113894 266314	283394 170841 399471										
Actuator Model	Spring Torque Nm		Torque Output, Nm												MOP barg
			3	4	5		6	7	8	9	10	11	12	13	
			Operating Pressure, barg												

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Process Management

Data sheet

Sheet No.: GC10HM 1.02 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC10-Series

Actuator Model	Spring Torque Nm		Operating Pressure, barg											MOP barg
			35	50	75	100	125	150	175	200	250	300	340	
			Torque Output, Nm											
GC10106.0-SR4	Start Min End	94729 47909 82710										132858 40794 50802	162084 53431 71536	345
GC10107.0-SR4	Start Min End	94729 47909 82710								134471 41491 51946	189673 65360 91108	244875 89228 130270	289037 108323 161599	345
GC10108.0-SR4	Start Min End	94729 47909 82710						143895 45566 58632	182267 62158 85854	220639 78749 113076				224
GC10109.0-SR4	Start Min End	94729 47909 82710				115977 33494 38826	166555 55364 74708	217134 77234 110589	267713 99103 146471					196
GC10110.0-SR4	Start Min End	94729 47909 82710			106275 29299 31943	170479 57060 77491	234683 84821 123039	298887 112583 168587						156
GC10112.0-SR4	Start Min End	94729 47909 82710		105298 28877 31250	201116 70308 99226	296934 111738 167201								104
GC10114.0-SR4	Start Min End	94729 47909 82710		179976 61167 84229	313133 118742 178693									75
GC10107.0-SR3	Start Min End	117924 58693 98008									173704 52972 65472	228906 76840 104634	273068 95935 135963	345
GC10108.0-SR3	Start Min End	117924 58693 98008							166299 49769 60218	204671 66361 87440	281415 99545 141885			224
GC10109.0-SR3	Start Min End	117924 58693 98008					150587 42976 49072	201165 64845 84954	251744 86715 120835					196
GC10110.0-SR3	Start Min End	117924 58693 98008				154583 44704 51907	218805 72473 97468	283028 100242 143029						156
GC10112.0-SR3	Start Min End	117924 58693 98008			185147 57919 73590	280965 99350 141565								104
GC10114.0-SR3	Start Min End	117924 58693 98008		164007 48779 58593	297164 106354 153057									75
Actuator Model	Spring Torque Nm		Torque Output, Nm											MOP barg
			35	50	75	100	125	150	175	200	250	300	340	
			Operating Pressure, barg											

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Sheet No.: GC10HM 1.03 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GC10-Series (cont.)

Actuator Model	Spring Torque Nm		Operating Pressure, barg											MOP barg
			35	50	75	100	125	150	175	200	250	300	340	
			Torque Output, Nm											
GC10107.0-SR2	Start Min End	129344 66208 117081									153794 44939 52850	208996 68807 92011	253158 87902 123341	345
GC10108.0-SR2	Start Min End	129344 66208 117081							146389 41736 47596	184761 58328 74818	261505 91511 129262			224
GC10109.0-SR2	Start Min End	129344 66208 117081					130677 34943 36450	181256 56812 72331	231834 78682 108213					196
GC10110.0-SR2	Start Min End	129344 66208 117081				134673 36671 39285	198896 64440 84846	263118 92209 130406						156
GC10112.0-SR2	Start Min End	129344 66208 117081			165237 49886 60968	261055 91317 128943								104
GC10114.0-SR2	Start Min End	129344 66208 117081		144098 40746 45971	277254 98321 140435									75
GC10108.0-SR1	Start Min End	160234 80870 139024									238600 74750 95121	315344 107934 149565	376740 134480 193120	224
GC10109.0-SR1	Start Min End	160234 80870 139024							208929 61921 74071	259507 83790 109953	360665 127530 181716			196
GC10110.0-SR1	Start Min End	160234 80870 139024					175990 47678 50704	240213 75448 96265	304435 103217 141826					156
GC10112.0-SR1	Start Min End	160234 80870 139024				238150 74556 94801	333968 115986 162777	429786 157417 230752						104
GC10114.0-SR1	Start Min End	160234 80870 139024			254349 81560 106293	387506 139136 200758								75
Actuator Model	Spring Torque Nm		Torque Output, Nm											MOP barg
			35	50	75	100	125	150	175	200	250	300	340	
			Operating Pressure, barg											

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Sheet No.: GHPM 1.01 Rev C

Date: January 2013

GH-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GH-Series

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)											
			4	4.5	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)											
GH2112-SR4	Start	2486	1855	2351	2847	3343	3839	4831	5823	6815	7807			
	Min	1166	804	1074	1343	1612	1881	2420	2958	3496	4035			
	End	1911	1221	1717	2213	2709	3205	4197	5188	6180	7172			
GH2112-SR3	Start	2777				3034	3530	4522	5514	6506	7498			
	Min	1320				1440	1710	2248	2786	3325	3863			
	End	2191				2387	2883	3875	4867	5859	6851			
GH2112-SR2	Start	3090			2259	2755	3251	4242	5234	6226	7218			
	Min	1471			998	1267	1536	2075	2613	3152	3690			
	End	2444			1544	2040	2536	3528	4520	5512	6504			
GH2112-SR1	Start	3566				2417	2913	3905	4897	5889	6881	7873		
	Min	1675				1024	1293	2370	2908	3447	3985	4977		
	End	2750				1515	2011	3995	4987	5979	6971			
GH2112-SR0	Start	4527						3297	4289	5281	6273	7265		
	Min	2065						1356	1895	2433	2972	3510		
	End	3299						1940	2932	3924	4916	5908		

GH3114-SR4	Start	4190			3754	4485	5215	6676	8137	9597	11058	12519	13980	
	Min	1962			1693	2089	2485	3278	4071	4864	5657	6317	7088	
	End	3212			2673	3404	4134	5595	7056	8517	9977	11438	12899	
GH3116-SR4	Start	4190	4185	5152	6119	7085	8052	9986	11920	13853				
	Min	1962	1926	2451	2976	3501	4025	5075	6000	7021				
	End	3212	3104	4071	5038	6005	6971	8905	10839	12773				
GH3114-SR3	Start	4772				3991	4722	6183	7643	9104	10565	12026	13487	
	Min	2235				1773	2170	2963	3756	4549	5341	6134	6788	
	End	3658				2760	3491	4951	6412	7873	9334	10795	12256	
GH3116-SR3	Start	4772	3692	4659	5625	6592	7559	9493	11426	13360				
	Min	2235	1611	2136	2660	3185	3710	4759	5809	6859				
	End	3658	2460	3427	4394	5361	6328	8262	10195	12129				
GH3114-SR2	Start	5449					4148	5609	7069	8530	9991	11452	12913	
	Min	2552					1803	2596	3388	4181	4974	5767	6560	
	End	4178					2742	4203	5664	7125	8586	10047	11507	
GH3116-SR2	Start	5449			5051	6018	6985	8919	10852	12786				
	Min	2552			2293	2818	3343	4392	5442	6491				
	End	4178			3646	4613	5580	7513	9447	11381				
GH3114-SR1	Start	6236						4942	6403	7864	9324	10785	12246	13707
	Min	2920						2169	2962	3755	4548	5341	6133	6926
	End	4781						3334	4794	6255	7716	9177	10638	12099
GH3116-SR1	Start	6236				5351	6318	8252	10186	12119	14053			
	Min	2920				2391	2916	3966	5015	6065	7114			
	End	4781				3743	4710	6644	8578	10511	12445			
GH3114-SR0	Start	7574							5346	6807	8268	9728	11189	12650
	Min	3524							2254	3046	3839	4632	5425	6218
	End	5737							3316	4777	6238	7698	9159	10620
GH3116-SR0	Start	7574					5261	7195	9129	11063	12996			
	Min	3524					2208	3257	4307	5356	6406			
	End	5737					3232	5165	7099	9033	10966			

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Data sheet

Sheet No.: GHPM 1.02 Rev C

Date: January 2013

GH-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GH-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3.5	4	4.5	5	5.5	6	7	8	9	10	11
			Air Torque Output (Nm)										
GH4120-SR4	Start	7771	6780	8632	10484	12337	14189	16041	19746	23450	27155		
	Min	3524	2913	3918	4924	5929	6934	7940	9950	11961	13972		
	End	5597	4377	6229	8081	9934	11786	13638	17343	21047	24752		
GH4120-SR3	Start	9383		7480	9333	11185	13037	14889	18594	22299	26003		
	Min	4217		3092	4097	5103	6108	7113	9124	11135	13145		
	End	6639		4447	6300	8152	10004	11856	15561	19265	22970		
GH4120-SR2	Start	11114			8001	9854	11706	13558	17263	20967	24672	28376	
	Min	4988			3189	4194	5200	6205	8216	10226	12237	14248	
	End	7843			4386	6239	8091	9943	13648	17352	21057	24761	
GH4120-SR1	Start	12697				8275	10128	11980	15684	19389	23093	26798	
	Min	5798				3283	4288	5294	7304	9315	11326	13336	
	End	9271				4489	6342	8194	11898	15603	19307	23012	
GH4120-SR0	Start	16828					8077	9930	13634	17339	21043	24748	28452
	Min	7314					1769	3378	5388	7399	9410	11420	13431
	End	11126					1775	3627	7332	11036	14741	18445	22150

GH5124-SR4	Start	17371	12210	15692	19173	22654	26136	29617	36580	43543	50505	57468	64431
	Min	7395	4380	6270	8159	10049	11938	13828	17607	21386	25166	28945	32724
	End	11001	5171	8652	12133	15615	19096	22577	29540	36503	43466	50428	57391
GH5124-SR3	Start	20782		13519	17000	20482	23963	27444	34407	41370	48332	55295	62258
	Min	8785		4580	6470	8359	10249	12138	15918	19697	23476	27255	31034
	End	12967		4881	8362	11844	15325	18806	25769	32732	39695	46657	53620
GH5124-SR2	Start	25786			14359	17840	21321	24803	31766	38728	45691	52654	59617
	Min	10667			2824	6003	7893	9783	13562	17341	21120	24899	28678
	End	15357			2832	6314	9795	13276	20239	27202	34165	41127	48090
GH5124-SR1	Start	28733				14779	18261	21742	28705	35668	42630	49593	56556
	Min	12209				3048	6169	8059	11838	15617	19396	23175	26955
	End	18126				3057	6538	10019	16982	23945	30907	37870	44833

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Sheet No.: GHPM 1.03 Rev C

Date: January 2013

GH-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GH-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GH7128-SR4	Start	34730	24528	36574	42597	48620	60665	72711	84757	96803	108848	120894	
	Min	14596	8611	15149	18418	21687	28225	34763	41301	47839	54377	60916	
	End	21402	9798	21843	27866	33889	45935	57981	70027	82072	94118	106164	
GH7132-SR4	Start	34730	39330	55076	62949	70823	86569	102315	118061				
	Min	14596	16645	25191	29465	33738	42285	50831	59378				
	End	21402	24600	40346	48219	56092	71838	87585	103331				
GH7128-SR3	Start	41306		32400	38422	44445	56491	68537	80583	92628	104674	116720	
	Min	17271		11895	15164	18433	24972	31510	38048	44586	51124	57662	
	End	25179		14575	20598	26621	38667	50713	62758	74804	86850	98896	
GH7132-SR3	Start	41306	35156	50902	58775	66648	82395	98141	113887				
	Min	17271	13391	21938	26211	30485	39031	47578	56125				
	End	25179	17331	33078	40951	48824	64570	80316	96063				
GH7128-SR2	Start	50047				38890	50936	62982	75027	87073	99119	111165	123211
	Min	20830				14108	20646	27184	33722	40260	46798	53336	59874
	End	30205				16960	29006	41051	53097	65143	77189	89235	101280
GH7132-SR2	Start	50047		45347	53220	61093	76839	92586	108332	124078			
	Min	20830		17612	21885	26159	34705	43252	51799	60345			
	End	30205		23417	31290	39163	54909	70655	86402	102148			
GH7128-SR1	Start	56623					46762	58807	70853	82899	94945	106990	119036
	Min	23505					17392	23930	30468	37007	43545	50083	56621
	End	33982					21737	33783	45829	57875	69920	81966	94012
GH7132-SR1	Start	56623			49046	56919	72665	88411	104158	119904			
	Min	23505			18632	22905	31452	39999	48545	57092			
	End	33982			24021	31895	47641	63387	79133	94880			
GH7128-SR0	Start	69775						51860	63906	75951	87997	100043	112089
	Min	28452						17737	24275	30813	37351	43889	50427
	End	40268						19247	31292	43338	55384	67430	79475
GH7132-SR0	Start	69775					65717	81464	97210	112956			
	Min	28452					25258	33805	42352	50898			
	End	40268					33104	48851	64597	80343			

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Sheet No.: GHPM 1.04 Rev C

Date: January 2013

GH-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GH-Series (cont.)

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GH8132-SR3	Start	57249		47776	57074	66371	84966	103561	122155	140750	159345	177939	196534
	Min	25852		20160	25207	30253	40346	50439	60531	70624	80717	90809	100902
	End	40893		29698	38995	48293	66888	85482	104077	122672	141266	159861	178456
GH8132-SR3	Start	57249	49346	72982	84800	96617	120253	143889	167525	191161			
	Min	25852	21012	33841	40256	46670	59499	72328	85157	97985			
	End	40893	31268	54903	66721	78539	102175	125811	149447	173082			
GH8132-SR2	Start	67418				58439	77034	95629	114223	132818	151413	170008	188602
	Min	30416				24892	34985	45078	55170	65263	75356	85448	95541
	End	48069				37054	55648	74243	92838	111433	130027	148622	167217
GH8136-SR2	Start	67418		65050	76868	88686	112321	135957	159593	183229			
	Min	30416		28480	34895	41309	54138	66967	79796	92624			
	End	48069		43664	55482	67300	90936	114572	138207	161843			
GH8132-SR1	Start	83646					67595	86190	104785	123380	141974	160569	179164
	Min	36769					27149	37242	47334	57427	67520	77613	87705
	End	56609					37712	56307	74901	93496	112091	130686	149280
GH8136-SR1	Start	83646			67429	79247	102883	126519	150154	173790	197426		
	Min	36769			27059	33473	46302	59131	71960	84789	97617		
	End	56609			37546	49364	72999	96635	120271	143907	167543		
GH8132-SR0	Start	105879						76806	95401	113996	132591	151185	169780
	Min	44450						27299	37392	47485	57578	67670	77763
	End	65099						31734	50329	68923	87518	106113	124707
GH8136-SR0	Start	105879					93499	117135	140771	164406	188042		
	Min	44450					36360	49189	62018	74846	87675		
	End	65099					48426	72062	95698	119334	142970		

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Sheet No.: GH10PM RevB

Date: August 2010

GH-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GH10-Series

Actuator Model	Spring Torque Nm		Operating Pressure, barg											MOP barg	MAWP barg
			4	5	5.5	6	7	8	9	10	11	12	13		
			Air Torque Output, Nm												
GH10x40-SR4	Start	113911		116392	135473	154555	192718	230881	269044	307206	345369	383532	421695	12.62	13.93
	Min	46959		51667	62024	72381	93095	113808	134522	155236	175950	196664	217377		
	End	67335		64913	83994	103076	141239	179402	217565	255727	293890	332053	370216		
GH10x44-SR4	Start	113911	110922	157258	180426	203594	249930	296266	342602	388938				10.41	12.07
	Min	46959	48698	73848	86423	98998	124148	149298	174448	199598					
	End	67335	59443	105779	128947	152115	198451	244787	291123	337459					
GH10x40-SR3	Start	141872			121520	140602	178765	216927	255090	293253	331416	369579	407742	12.97	13.93
	Min	57239			50661	61018	81732	102446	123160	143873	164587	185301	206015		
	End	79959			53090	72172	110335	148498	186661	224823	262986	301149	339312		
GH10x44-SR3	Start	141872		143305	166473	189641	235977	282313	328649	374985	421321			10.69	12.07
	Min	57239		62485	75060	87635	112785	137935	163085	188235	213385				
	End	79959		74875	98043	121211	167547	213883	260219	306555	352891				
GH10x40-SR2	Start	155476				123785	161948	200111	238274	276437	314600	352763	324276	13.45	13.93
	Min	65137				52289	73003	93716	114430	135144	155858	176571	197285		
	End	95174				57135	95298	133461	171624	209787	247950	286113	390926		
GH10x44-SR2	Start	155476		126488	149656	172824	219160	265497	311833	358169	404505			11.03	12.07
	Min	65137		53756	66331	78906	104056	129206	154356	179506	204656				
	End	95174		59838	83006	106174	152510	198846	245183	291519	337855				
GH10x40-SR1	Start	192692						180176	218339	256502	294665	332827	370990	13.93	13.93
	Min	79214						78158	98871	119585	140299	161013	181726		
	End	113210						92328	130491	168654	206816	244979	283142		
GH10x44-SR1	Start	192692				152889	199225	245561	291897	338233	384569			11.45	12.07
	Min	79214				63347	88497	113647	138797	163947	189097				
	End	113210				65041	111377	157713	204049	250385	296721				
Actuator Model	Spring Torque Nm		Air Torque Output, Nm											MOP barg	MAWP barg
			4	5	5.5	6	7	8	9	10	11	12	13		
			Operating Pressure, barg												

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Data sheet

Sheet No.: GHC10PM RevB

Date: August 2010

GHC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GHC10-Series

Actuator Model	Spring Torque Nm		Operating Pressure, barg											MOP barg	MAWP barg
			4	5	5.5	6	7	8	9	10	11	12	13		
			Air Torque Output, Nm												
GHC10x40-SR4	Start	94729		138975	161506	184037	229100	274162	319225	364288	409350	454413		10.9	13.93
	Min	47909		43438	53181	62923	82407	101892	121377	140861	160346	179830			
	End	82710		55141	71126	87110	119078	151047	183015	214984	246952	278920			
GHC10x44-SR4	Start	94729	132516	187229	214586	241942	296656	351369	406083	460796				9.0	12.07
	Min	47909	40645	64303	76132	87960	111618	135275	158933	182590					
	End	82710	50559	89374	108782	128189	167004	205819	244634	283449					
GHC10x40-SR3	Start	117924			145537	168069	213131	258194	303256	348319	393381	438444	483506	11.2	13.93
	Min	58693			40793	50535	70019	89504	108988	128473	147958	167442	186927		
	End	98008			45490	61474	93442	125411	157379	189348	221316	253284	285253		
GHC10x44-SR3	Start	117924		171260	198617	225974	280687	335400	390114	444827				9.2	12.07
	Min	58693		51915	63744	75572	99230	122887	146545	170202					
	End	98008		63738	83146	102553	141368	180183	218998	257813					
GHC10x40-SR2	Start	129344					193221	238284	283346	328409	373471	418534	463597	13.4	13.93
	Min	66208					61986	81471	100955	120440	139924	159409	178894		
	End	117081					80820	112788	144757	176725	208694	240662	272631		
GHC10x44-SR2	Start	129344				206064	260777	315491	370204	424917	479631			9.7	12.07
	Min	66208				67539	91197	114854	138512	162169	185827				
	End	117081				89931	128746	167561	206376	245191	284006				
GHC10x40-SR1	Start	160234						215378	260441	305504	350566	395629	440691	12.2	13.93
	Min	80870						64709	84194	103679	123163	142648	162132		
	End	139024						78647	110615	142584	174552	206520	238489		
GHC10x44-SR1	Start	160234					237872	292585	347299	402012	456725			10.1	12.07
	Min	80870					74435	98093	121750	145408	169065				
	End	139024					94604	133419	172234	211049	249864				
Actuator Model	Spring Torque Nm		Air Torque Output, Nm											MOP barg	MAWP barg
			4	5	5.5	6	7	8	9	10	11	12	13		
			Operating Pressure, barg												

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USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600



EMERSON™

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Contact Us: Emerson Process Management, Valve Automation facilities at your nearest location:

NORTH & SOUTH AMERICA

9200 Northwest Freeway
Houston TX 77065
USA
T +1 281 727 5300
F +1 281 727 5353

2500 Park Avenue West
Mansfield, OH 44906
USA
T +1 419 529 4311
F +1 419 529 3688

9009 King Palm Drive
Tampa, FL 33619
USA
T +1 813 630 2255
F +1 813 630 9449

13840 Pike Road
Missouri City, TX 77489
USA
T +1 281 499 1561
F +1 281 499 8445

Av. Hollingsworth,
325, Iporanga Sorocaba,
SP 18087-105
Brazil
T +55 15 3238 3788
F +55 15 3228 3300

MIDDLE EAST & AFRICA

P. O. Box 17033
Dubai
United Arab Emirates
T +971 4 811 8100
F +971 4 886 5465

P. O. Box 105958
Abu Dhabi
United Arab Emirates
T +971 2 697 2000
F +971 2 555 0364

P. O. Box 3911
Al Khobar 31952
Saudi Arabia
T +966 3 814 7560
F +966 3 814 7570

P.O. Box 10305
Jubail 31961
Saudi Arabia
T +966 3 340 8650
F +966 3 340 8790

P. O. Box 32281
Doha
Qatar
T +974 4 576777
F +974 4 315448

24 Angus Crescent
Longmeadow Business Estate East
P.O. Box 6908; Greenstone; 1616
Modderfontein, Extension 5
South Africa
T +27 11 451 3700
F +27 11 451 3800

EUROPE

Asveldweg 11
7556 BR Hengelo (O)
The Netherlands
T +31 74 256 1010
F +31 74 291 0938

Siemensring 112
47877 Willich
Germany
T +49 2154 499 660
F +49 2154 499 6613

25, Rue de Villeneuve
Silic – BP 40434
94583 Rungis
France
T +33 1 49 79 73 00
F +33 1 49 79 73 99

Via Montello 71/73
20038 Seregno (Milan)
Italy
T +39 0362 2285 207
F +39 0362 2436 55

6 Bracken Hill
South West Industrial Estate
Peterlee SR8 2LS
United Kingdom
T +44 191 518 0020
F +44 191 518 0032

2A Szturmowa Str
02-678 Warsaw
Poland
T +48 22 45 89 237
F +48 22 45 89 231

C/ Francisco Gervás, 1
28108 Alcobendas – Madrid
Spain
T +34 0913 586 000
F +34 0913 589 145

Letnikovskaya Str. 10-2
115114 Moscow
Russia and FSU
T +7 495 981 98 11
F +7 495 981 98 10

ASIA PACIFIC

No. 9 Gul Road
#01-02 Singapore 629361
T +65 6501 4600
F +65 6268 0028

9/F Gateway Building
No. 10 Ya Bao Road
Chaoyang District
Beijing 100020
P.R.China
T +86 10 5821 1188
F +86 10 5821 1100

No.15 Xing Wang Road
Wuqing Development Area
Tianjin 301700
P.R.China
T +86 22 8212 3300
F +86 22 8212 3308

Lot 13112, Mukim Labu
Kawasan Perindustrian Nilai
71807 Nilai, Negeri Sembilan
Malaysia
T +60 6 799 2323
F +60 6 799 9942

471 Mountain Highway
Bayswater, Victoria 3153
Australia
T +61 3 9721 0200
F +61 3 9720 0588

Delphi B Wing, 601 & 602
6th Floor, Central Avenue
Powai, Mumbai – 400 076
India
T +91 22 6662 0566
F +91 22 6662 0500

NOF, Shinagawa Konan Bldg
1-2-5, Higashi-shinagawa
Shinagawa-ku, Tokyo
140-0002 Japan
T +81 3 5769 6873
F +81 3 5769 6902

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