

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



Data sheet

Sheet No.: GCPM 1.03 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)											
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)											



Data sheet

Sheet No.: GCPM 1.04 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)											
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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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)											
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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Sheet No.: GCPM 1.07 Rev D

Date: January 2013

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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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)												
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)

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)												
GC2114-SR4	Start	2074		3259	4693										
	Min	1156		1204	1824										
	End	2371		1776	2793										
GC2116-SR4	Start	2074	3201	5094											
	Min	1156	1179	1997											
	End	2371	1735	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	4730											
	Min	1305	1017	1835											
	End	2720	1466	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	4401											
	Min	1454	854	1672											
	End	3035	1177	2519											
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)

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)													
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)

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)										
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)

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)											
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)

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)										
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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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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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	41628			54892	73623										
	Min	21204			16641	24740										
	End	37135			20432	33720										
GC7136-SR2	Start	41628		56251	80004											
	Min	21204		17228	27499											
	End	37135		21395	38247											
GC71228-SR2	Start	41628	47034	75634												
	Min	21204	13243	25609												
	End	37135	14857	35146												
GC7124-SR1	Start	47095								57300	67391	77481				
	Min	23942								16681	21044	25407				
	End	41769								19529	26687	33845				
GC7128-SR1	Start	47095					56498	70797								
	Min	23942					16334	22517								
	End	41769					18959	29104								
GC7132-SR1	Start	47095			68787											
	Min	23942			21648											
	End	41769			27678											
GC7136-SR1	Start	47095			75168											
	Min	23942			24407											
	End	41769			32204											
GC71228-SR1	Start	47095		70797												
	Min	23942		22517												
	End	41769		29104												
GC8124-SR3	Start	47714							53987	65856	77724	89592	101461			
	Min	25841							17495	22627	27759	32891	38022			
	End	50608							23041	31461	39880	48300	56720			
GC8128-SR3	Start	47714					65175	82033	98890	115748	132605					
	Min	25841					22333	29622	36911	44200	51489					
	End	50608					30978	42937	54896	66855	78814					
GC8132-SR3	Start	47714			57721	79830	101940	124050	146160							
	Min	25841			19110	28670	38230	47790	57350							
	End	50608			25690	41375	57060	72745	88430							
GC8136-SR3	Start	47714		59421	87483	115545	143607									
	Min	25841		19845	31979	44112	56246									
	End	50608		26896	46804	66712	86620									
GC8140-SR3	Start	47714	51317	86032	120747											
	Min	25841	16341	31351	46361											
	End	50608	21147	45774	70402											
GC8144-SR3	Start	47714	73376	115444												
	Min	25841	25879	44069												
	End	50608	36796	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	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	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	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	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	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	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	Start	1151	1644	2467	3289	4111	4933						
		Min	492	703	1055	1407	1758	2110						
		End	817	1167	1750	2333	2917	3500						
	Rod side inboard	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	Start	1421	2030	3046	4061	5076							
		Min	608	868	1302	1737	2171							
		End	1008	1440	2161	2881	3601							
	Rod side inboard	Start	847	1210	1815	2420	3024							
		Min	511	729	1094	1459	1823							
		End	1194	1705	2558	3411	4263							
GC01103.0	Full Piston outboard	Start	2047	2924	4386									
		Min	875	1250	1876									
		End	1452	2074	3111									
	Rod side inboard	Start	1290	1844	2765									
		Min	778	1111	1667									
		End	1819	2599	3898									
GC01103.5	Full Piston outboard	Start	2785	3979										
		Min	1191	1702										
		End	1976	2823										
	Rod side inboard	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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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	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	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	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	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	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	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	Start	1720	2458	3687	4916	6145	7373						
		Min	736	1051	1577	2102	2628	3153						
		End	1221	1744	2615	3487	4359	5231						
	Rod side inboard	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	Start	2477	3539	5309	7079								
		Min	1060	1514	2270	3027								
		End	1758	2511	3766	5022								
	Rod side inboard	Start	1562	2232	3347	4463								
Min		942	1345	2018	2691									
End		2202	3146	4719	6291									
GC2103.5	Full Piston outboard	Start	3372	4817	7225									
		Min	1442	2060	3090									
		End	2392	3417	5126									
	Rod side inboard	Start	2197	3138	4708									
Min		1324	1892	2838										
End		3097	4424	6636										
GC2104.0	Full Piston outboard	Start	4404	6291										
		Min	1883	2691										
		End	3124	4463										
	Rod side inboard	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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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	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	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	3243
		End	817	1167	1750	2333	2917	3500	4083	4666	5250	5833	7000	7583
GC3102.2	Full Piston outboard	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	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	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	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	Start	3016	4309	6463	8617	10772	12926						
		Min	1290	1843	2764	3685	4607	5528						
		End	2140	3057	4585	6113	7642	9170						
	Rod side inboard	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	Start	4105	5864	8796	11728								
		Min	1756	2508	3762	5016								
		End	2912	4160	6240	8320								
	Rod side inboard	Start	2541	3630	5444	7259								
		Min	1532	2188	3282	4376								
		End	3581	5116	7674	10233								
GC3104.0	Full Piston outboard	Start	5361	7659	11489									
		Min	2293	3276	4913									
		End	3804	5434	8150									
	Rod side inboard	Start	3432	4903	7355									
		Min	2069	2956	4434									
		End	4838	6911	10367									
GC3104.5	Full Piston outboard	Start	6786	9694										
		Min	2902	4146										
		End	4814	6877										
	Rod side inboard	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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Sheet No.: GCHM 1.04 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)											
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)											



Data sheet

Sheet No.: GCHM 1.05 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)											
GC5103.5	Full Piston outboard	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	Start	3082	4403	6605	8806	11008	13209	15411	17613	19814	22016	26419	28620
GC5104.0	Full Piston outboard	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
		Start	8425	12036	18054	24072	30090	36108	42126	48144	54161	60179		
	Min	3603	5147	7721	10295	12868	15442	18016	20589	23163	25737			
GC5104.5	Full Piston outboard	End	5977	8539	12808	17077	21346	25616	29885	34154	38423	42693		
		Start	4483	6404	9606	12808	16011	19213	22415	25617	28819	32021		
		Min	2703	3861	5791	7721	9652	11582	13513	15443	17373	19304		
	GC5105.0	Full Piston outboard	End	6319	9027	13541	18055	22568	27082	31596	36110	40623	45137	
Start			10663	15233	22850	30466	38083	45699	53316	60932				
Min			4560	6515	9772	13029	16287	19544	22801	26059				
GC5106.0		Full Piston outboard	End	7565	10807	16210	21613	27017	32420	37823	43227			
	Start		6071	8672	13009	17345	21681	26017	30353	34690				
	Min		3660	5228	7842	10456	13070	15684	18298	20912				
	GC5107.0	Full Piston outboard	End	8557	12225	18337	24449	30561	36674	42786	48898			
Start			13165	18807	28210	37613	47017	56420						
Min			5630	8043	12064	16086	20107	24129						
GC5108.0		Full Piston outboard	End	9339	13342	20013	26684	33355	40026					
	Start		7845	11207	16810	22414	28017	33621						
	Min		4729	6756	10134	13512	16890	20268						
	GC5109.0	Full Piston outboard	End	11058	15797	23696	31594	39493	47392					
Start			18957	27081	40622	54162								
Min			8107	11582	17373	23163								
GC5110.0		Full Piston outboard	End	13448	19212	28818	38424							
	Start		11954	17078	25617	34155								
	Min		7207	10295	15443	20590								
	GC5111.0	Full Piston outboard	End	16851	24073	36109	48145							
Start			25803	36861	55292									
Min			11035	15764	23647									
GC5112.0		Full Piston outboard	End	18305	26150	39226								
	Start		16811	24015	36023									
	Min		10134	14477	21716									
	GC5113.0	Full Piston outboard	End	23696	33852	50778								
Start			33701	48144										
Min			14413	20590										
GC5114.0		Full Piston outboard	End	23908	34155									
	Start		22414	32021										
	Min		13512	19303										
	GC5115.0	Full Piston outboard	End	31595	45136									
Start														
Min														
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 1.06 Rev C

Date: January 2013

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

Sheet No.: GCHM 1.08 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)														
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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Date: January 2013

GC-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

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	1097										1423	1809
	Min	641										551	717
	End	1409										841	1114
GC01101.7-SR4	Start	1097								1209	1879	2549	
	Min	641								458	748	1038	
	End	1409								689	1165	1640	
GC01102.0-SR4	Start	1097						1453	1940	2427	3401		
	Min	641						563	774	985	1406		
	End	1409						862	1208	1553	2244		
GC01102.2-SR4	Start	1097				1169	1829	2489	3149	3808			
	Min	641				441	726	1011	1297	1582			
	End	1409				661	1129	1597	2065	2533			
GC01102.5-SR4	Start	1097			1087	1940	2792	3645					
	Min	641			405	774	1143	1511					
	End	1409			603	1208	1812	2417					
GC01103.0-SR4	Start	1097		1128	2427	3727							
	Min	641		423	985	1547							
	End	1409		632	1553	2475							
GC01103.5-SR4	Start	1097	1087	2184	4011								
	Min	641	406	880	1670								
	End	1409	603	1381	2677								
GC01101.5-SR3	Start	1283											1600
	Min	742											605
	End	1609											908
GC01101.7-SR3	Start	1283									1671	2341	
	Min	742									635	925	
	End	1609									958	1434	
GC01102.0-SR3	Start	1283						1731	2218	3193			
	Min	742						662	872	1294			
	End	1609						1001	1347	2038			
GC01102.2-SR3	Start	1283				1620	2280	2940	3600				
	Min	742				613	899	1184	1469				
	End	1609				922	1390	1859	2327				
GC01102.5-SR3	Start	1283				1731	2584	3436					
	Min	742				662	1030	1399					
	End	1609				1001	1606	2211					
GC01103.0-SR3	Start	1283			2218	3518							
	Min	742			872	1434							
	End	1609			1347	2269							
GC01103.5-SR3	Start	1283		1975	3802								
	Min	742		767	1557								
	End	1609		1174	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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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)										
GC01101.5-SR2	Start	1465											1366
	Min	847											490
	End	1833											707
GC01101.7-SR2	Start	1465										2107	
	Min	847										811	
	End	1833										1232	
GC01102.0-SR2	Start	1465							1498	1985	2959		
	Min	847							547	758	1179		
	End	1833							800	1146	1837		
GC01102.2-SR2	Start	1465						2046	2706	3366			
	Min	847						784	1070	1355			
	End	1833						1189	1657	2126			
GC01102.5-SR2	Start	1465				1498	2350	3203					
	Min	847				547	916	1284					
	End	1833				800	1405	2010					
GC01103.0-SR2	Start	1465			1985	3284							
	Min	847			758	1319							
	End	1833			1146	2067							
GC01103.5-SR2	Start	1465		1742	3569								
	Min	847		652	1443								
	End	1833		973	2269								
GC01101.5-SR1	Start	1742											1115
	Min	987											333
	End	2074											401
GC01101.7-SR1	Start	1742										1855	
	Min	987										653	
	End	2074										927	
GC01102.0-SR1	Start	1742									2707		
	Min	987									1021		
	End	2074									1531		
GC01102.2-SR1	Start	1742							2454	3114			
	Min	987							912	1197			
	End	2074							1352	1820			
GC01102.5-SR1	Start	1742					2098	2951					
	Min	987					758	1127					
	End	2074					1099	1704					
GC01103.0-SR1	Start	1742				3032							
	Min	987				1162							
	End	2074				1762							
GC01103.5-SR1	Start	1742			3317								
	Min	987			1285								
	End	2074			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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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)										
GC01102.2-SR0	Start	2295									2689		
	Min	1252									895		
	End	2481									1208		
GC01102.5-SR0	Start	2295							2526				
	Min	1252							824				
	End	2481							1093				
GC01103.0-SR0	Start	2295				2608							
	Min	1252				859							
	End	2481				1150							
GC01103.5-SR0	Start	2295			2892								
	Min	1252			982								
	End	2481			1352								
GC2101.7-SR4	Start	2074										2391	3040
	Min	1156										829	1109
	End	2371										1161	1621
GC2102.0-SR4	Start	2074							2243	3422	4602		
	Min	1156							764	1275	1785		
	End	2371							1055	1892	2729		
GC2102.2-SR4	Start	2074						2317	3116	3915	5513		
	Min	1156						797	1142	1488	2178		
	End	2371						1108	1675	2242	3375		
GC2102.5-SR4	Start	2074					2685	3717	4750				
	Min	1156					956	1402	1848				
	End	2371					1369	2101	2834				
GC2103.0-SR4	Start	2074			2243	3816	5389						
	Min	1156			765	1445	2125						
	End	2371			1056	2171	3287						
GC2103.5-SR4	Start	2074			4160								
	Min	1156			1594								
	End	2371			2416								
GC2104.0-SR4	Start	2074		3423									
	Min	1156		1275									
	End	2371		1893									
GC2101.7-SR3	Start	2317											2676
	Min	1305											947
	End	2720											1351
GC2102.0-SR3	Start	2317								3058	4238		
	Min	1305								1113	1623		
	End	2720								1623	2460		
GC2102.2-SR3	Start	2317						2752	3551	5149			
	Min	1305						980	1326	2017			
	End	2720						1406	1972	3106			
Actuator Model	Spring Torque (CW)		Torque Output (Nm)										
			35	50	75	100	125	150	175	200	250	300	340
			Operating Pressure (Bar)										



Data sheet

Sheet No.: GCHM 1.12 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)										
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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Data sheet

Sheet No.: GCHM 1.13 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)											
GC2102.5-SR1	Start	2975								3664				
	Min	1660								1292				
	End	3412								1838				
GC2103.0-SR1	Start	2975						4303						
	Min	1660						1569						
	End	3412						2291						
GC2103.5-SR1	Start	2975			3075									
	Min	1660			1038									
	End	3412			1420									
GC2104.0-SR1	Start	2975		2337										
	Min	1660		719										
	End	3412		897										
GC3102.0-SR4	Start	3495											3773	
	Min	1946											1282	
	End	3985											1765	
GC3102.2-SR4	Start	3495									4218	5894	7234	
	Min	1946									1474	2199	2778	
	End	3985									2080	3269	4220	
GC3102.5-SR4	Start	3495									4817	7062	9306	
	Min	1946									1733	2704	3674	
	End	3985									2505	4097	5689	
GC3103.0-SR4	Start	3495					4741	6521	8301					
	Min	1946					1700	2470	3240					
	End	3985					2451	3714	4977					
GC3103.5-SR4	Start	3495				6073	8631							
	Min	1946				2276	3382							
	End	3985				3396	5211							
GC3104.0-SR4	Start	3495			6207	9663								
	Min	1946			2334	3829								
	End	3985			3491	5943								
GC3104.5-SR4	Start	3495		4786	9259									
	Min	1946		1720	3654									
	End	3985		2483	5656									
GC3102.2-SR3	Start	3981										5316	6656	
	Min	2216										1900	2480	
	End	4539										2732	3683	
GC3102.5-SR3	Start	3981									4239	6484	8728	
	Min	2216									1435	2405	3376	
	End	4539									1968	3561	5153	
GC3103.0-SR3	Start	3981					4163	5943	7723					
	Min	2216					1402	2171	2941					
	End	4539					1914	3177	4440					
Actuator Model	Spring Torque (CW)		Torque Output (Nm)											
			35	50	75	100	125	150	175	200	250	300	340	
			Operating Pressure (Bar)											



Data sheet

Sheet No.: GCHM 1.14 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)										
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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Data sheet

Sheet No.: GCHM 1.15 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)										
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	19447
	Min	3519							2033	2881	4578	6274	7631
	End	6928							2583	3974	6758	9541	11768
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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Sheet No.: GCHM 1.16 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)										
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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Data sheet

Sheet No.: GCHM 1.17 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)										
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)										



Data sheet

Sheet No.: GCHM 1.18 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)										
GC5105.0-SR2	Start	21445						27694	35593	43491			
	Min	10874						8246	11661	15076			
	End	18870						9918	15521	21125			
GC5106.0-SR2	Start	21445				28448	40484						
	Min	10874				8572	13776						
	End	18870				10453	18992						
GC5107.0-SR2	Start	21445			31081								
	Min	10874			9710								
	End	18870			12320								
GC5108.0-SR2	Start	21445		25439									
	Min	10874		7271									
	End	18870		8318									
GC5104.0-SR1	Start	23911									30859	38081	
	Min	12370									9551	12673	
	End	22326									11997	17121	
GC5104.5-SR1	Start	23911								37817			
	Min	12370								12560			
	End	22326								16934			
GC5105.0-SR1	Start	23911						31985	39883				
	Min	12370						10038	13453				
	End	22326						12796	18399				
GC5106.0-SR1	Start	23911					36876						
	Min	12370					12153						
	End	22326					16266						
GC5107.0-SR1	Start	23911			27472								
	Min	12370			8087								
	End	22326			9595								
GC5108.0-SR1	Start	23911		21830									
	Min	12370		5422									
	End	22326		5592									
GC7104.0-SR4	Start	28894									33094	41172	
	Min	14825									9544	13037	
	End	26336									11045	16775	
GC7104.5-SR4	Start	28894								42616	56637	67854	
	Min	14825								13661	19724	24574	
	End	26336								17799	27747	35704	
GC7105.0-SR4	Start	28894						36934	46138	64545	82952		
	Min	14825						11205	15184	23143	31102		
	End	26336						13769	20298	33356	46415		
GC7106.0-SR4	Start	28894					43915	58196	72477	86758			
	Min	14825					14223	20398	26573	32748			
	End	26336					18721	28852	38984	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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Sheet No.: GCHM 1.19 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)											
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)											



Data sheet

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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)										
GC7106.0-SR2	Start	41628							61204	75485			
	Min	21204							19370	25545			
	End	37135							24909	35041			
GC7107.0-SR2	Start	41628					62646	82928					
	Min	21204					19993	28763					
	End	37135					25933	40321					
GC7108.0-SR2	Start	41628				70061							
	Min	21204				23200							
	End	37135				31193							
GC7109.0-SR2	Start	41628			66398								
	Min	21204			21615								
	End	37135			28594								
GC7110.0-SR2	Start	41628		48886									
	Min	21204		14044									
	End	37135		16171									
GC7104.5-SR1	Start	47095											51745
	Min	23942											14279
	End	41769											15587
GC7105.0-SR1	Start	47095										66842	
	Min	23942										20807	
	End	41769										26298	
GC7106.0-SR1	Start	47095							56367	70648			
	Min	23942							16278	22453			
	End	41769							18867	28998			
GC7107.0-SR1	Start	47095				57810	78092						
	Min	23942				16901	25671						
	End	41769				19890	34279						
GC7108.0-SR1	Start	47095				65225							
	Min	23942				20107							
	End	41769				25150							
GC7109.0-SR1	Start	47095			61561								
	Min	23942			18523								
	End	41769			22551								
GC7110.0-SR1	Start	47095		44049									
	Min	23942		10128									
	End	41769		10128									
GC8105.0-SR3	Start	47714										61650	
	Min	25841										20809	
	End	50608										28477	
GC8106.0-SR3	Start	47714						56081	71639	102756	133872		
	Min	25841						18401	25128	38582	52037		
	End	50608						24526	35564	57638	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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Data sheet

Sheet No.: GCHM 1.21 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)										
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)										



Data sheet

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)										



Data sheet

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	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	
	End	66684	88912	111139	122253	133367	155595	177823	200051	222279	244507	266735	288962		
	CW														
GC10132	Full Piston outboard	Start	61978	82638	103297	113627	123956	144616	165275	185934	206594	227253	247913	268572	13.8
		Min	37363	49817	62271	68498	74725	81780	99634	112088	124542	136997	149451	161905	
	End	87364	116485	145607	160168	174728	203850	232971	262092	291214	320335	349456	378578		
	CW														
GC10136	Full Piston outboard	Start	78605	104807	131009	144110	157211	183413	209615	235816	262018	288220			10.9
		Min	47386	63182	78977	86875	94773	110568	126364	142159	157954	173750			
	End	110802	147736	184670	203137	221604	258538	295472	332406	369340	406274				
	CW														
GC10140	Full Piston outboard	Start	97189	129585	161982	178180	194378	226774	259171	291567					8.8
		Min	58589	78119	97649	107413	117178	136708	156238	175767					
	End	136997	182663	228329	251161	273994	319660	365326	410991						
	CW														
GC10140	Rod side inboard	Start	65773	87698	109622	120585	131547	153471	175396	197320	219245	241169	263094	285018	13.8
		Min	28129	37506	46882	51570	56258	65635	75011	84387	93764	103140	112517	121893	
	End	46661	62215	77769	85546	93322	108876	124430	139984	155537	171091	186645	202199		
	CCW														
GC10132	Rod side inboard	Start	86454	115272	144090	158499	172908	201726	230544	259362	288180	316998	345816	374634	10.9
		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		
	CCW														
GC10136	Rod side inboard	Start	109892	146522	183153	201468	219783	256414	293045	329675	366306	402936			8.8
		Min	46997	62663	78328	86161	93994	109660	125325	140991	156657	172323			
	End	77960	103946	129933	142926	155920	181906	207893	233879	259866	285852				
	CCW														
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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Data sheet

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	Start	123311	164414	205518	226069	246621	287725	328828						6.9
		Min	74336	99115	123894	136283	148672	173451	198230						
	CW	End	173818	231757	289697	318666	347636	405575	463515						
		Start	173818	231757	289697	318666	347636	405575	463515						
GC101236	Full Piston outboard	Min	156565	208754	260942	287036	313130							5.5	
		End	94383	125844	157306	173036	188767								
	CW	Start	220694	294258	367823	404605	441387								
		Min	220694	294258	367823	404605	441387								
GC101240	Full Piston outboard	End	193732	258310	322887									4.4	
		Start	116789	155719	194648										
	CW	Min	273084	364112	455140										
		End	273084	364112	455140										
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	94730									132907	154832	176756	198681	13.8
	Min	47909									40814	50294	59774	69254	
	End	82710									50835	66389	81943	97497	
GC10132-SR4	Start	94730				115388	144206	173024	201842	230660	259478	288296	13.8		
	Min	47909				33239	45700	58160	70621	83081	95542	108003			
	End	82710				38407	58851	79295	99740	120184	140628	161072			
GC10136-SR4	Start	94730			133446	170076	206707	243337	279968				10.9		
	Min	47909			41047	56886	72724	88563	104402						
	End	82710			51218	77204	103191	129177	155164						
GC10140-SR4	Start	94730		140474	185836	231198	276561					8.8			
	Min	47909		44086	63700	83314	102928								
	End	82710		56203	88385	120566	152747								
GC10128-SR3	Start	117925								138863	160787	182712	13.8		
	Min	58693								37906	47386	56866			
	End	98008								40753	56307	71861			
GC10132-SR3	Start	117925						157055	185873	214691	243509	272327	13.8		
	Min	58693						45772	58233	70693	83154	95615			
	End	98008						53659	74104	94548	114992	135436			
GC10136-SR3	Start	117925			154108	190738	227369	263999				10.9			
	Min	58693			44498	60336	76175	92014							
	End	98008			51568	77555	103541	129528							
GC10140-SR3	Start	117925		169867	215230	260592						8.8			
	Min	58693		51312	70926	90540									
	End	98008		62749	94930	127111									
GC10128-SR2	Start	129343									140877	162802	13.8		
	Min	66208									39354	48834			
	End	117081									43687	59241			
GC10132-SR2	Start	129343						137145	165963	194781	223599	252417	13.8		
	Min	66208						37740	50201	62661	75122	87582			
	End	117081						41039	61484	81928	102372	122816			
GC10136-SR2	Start	129343			134198	170828	207459	244089				10.9			
	Min	66208			36465	52304	68143	83981							
	End	117081			38948	64935	90921	116908							
GC10140-SR2	Start	129343		149957	195320	240682						8.8			
	Min	66208		43280	62894	82508									
	End	117081		50129	82310	114491									
GC10132-SR1	Start	160234								171876	200694	229512	13.8		
	Min	80870								45899	58360	70820			
	End	139024								47785	68229	88673			
GC10136-SR1	Start	160234						184553	221184				10.9		
	Min	80870						51381	67220						
	End	139024						56778	82765						
GC10140-SR1	Start	160234			172414	217777						8.8			
	Min	80870			46132	65746									
	End	139024			48167	80348									



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Sheet No.: GC10PM 1.04 Rev C

Date: January 2013

GC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

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

Sheet No.: GC10HM 1.01 Rev C

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	36190	51700	77551	103401	129251	155101	180952	206802	232652	258502	310203	336053	345
		Min	15477	22111	33166	44221	55276	66332	77387	88442	99498	110553	132664	143719	
	End	25674	36678	55016	73355	91694	110033	128371	146710	165049	183388	220065	238404		
	End	25674	36678	55016	73355	91694	110033	128371	146710	165049	183388	220065	238404		
GC1017.0	Full Piston outboard CW	Start	49260	70372	105558	140744	175930	211115	246301	281487	316673	351859			345
		Min	21067	30096	45144	60191	75239	90287	105335	120383	135431	150479			
	End	34946	49923	74885	99847	124809	149770	174732	199694	224655	249617				
	End	34946	49923	74885	99847	124809	149770	174732	199694	224655	249617				
GC1018.0	Full Piston outboard CW	Start	64339	91912	137868	183824	229780	275737	321693	367649					224
		Min	27515	39308	58962	78616	98269	117923	137577	157231					
	End	45643	65205	97807	130409	163012	195614	228216	260819						
	End	45643	65205	97807	130409	163012	195614	228216	260819						
GC1019.0	Full Piston outboard CW	Start	81429	116327	174490	232654	290817	348981	407144						196
		Min	34824	49749	74624	99498	124373	149248	174122						
	End	57768	82525	123788	165050	206313	247575	288838							
	End	57768	82525	123788	165050	206313	247575	288838							
GC10110.0	Full Piston outboard CW	Start	100581	143688	215531	287375	359219	431063	502907						156
		Min	43015	61450	92176	122901	153626	184351	215077						
	End	71355	101935	152903	203871	254838	305806	356774							
	End	71355	101935	152903	203871	254838	305806	356774							
GC10112.0	Full Piston outboard CW	Start	144763	206804	310206	413607									104
		Min	61910	88443	132665	176886									
	End	102698	146711	220067	293423										
	End	102698	146711	220067	293423										
GC10114.0	Full Piston outboard CW	Start	197039	281484	422225										75
		Min	84267	120381	180572										
	End	139784	199691	299537											
	End	139784	199691	299537											
GC10114.0	Rod side inboard CCW	Start	132251	188929	283394										75
		Min	79726	113894	170841										
	End	186420	266314	399471											
	End	186420	266314	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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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	94729											132858	162084	345
	Min	47909											40794	53431	
	End	82710											50802	71536	
GC10107.0-SR4	Start	94729									134471	189673	244875	289037	345
	Min	47909								41491	65360	89228	108323		
	End	82710								51946	91108	130270	161599		
GC10108.0-SR4	Start	94729						143895	182267	220639				224	
	Min	47909					45566	62158	78749						
	End	82710					58632	85854	113076						
GC10109.0-SR4	Start	94729				115977	166555	217134	267713					196	
	Min	47909				33494	55364	77234	99103						
	End	82710				38826	74708	110589	146471						
GC10110.0-SR4	Start	94729			106275	170479	234683	298887						156	
	Min	47909			29299	57060	84821	112583							
	End	82710			31943	77491	123039	168587							
GC10112.0-SR4	Start	94729		105298	201116	296934								104	
	Min	47909		28877	70308	111738									
	End	82710		31250	99226	167201									
GC10114.0-SR4	Start	94729		179976	313133									75	
	Min	47909		61167	118742										
	End	82710		84229	178693										
GC10107.0-SR3	Start	117924								173704	228906	273068	345		
	Min	58693							52972	76840	95935				
	End	98008							65472	104634	135963				
GC10108.0-SR3	Start	117924						166299	204671	281415			224		
	Min	58693					49769	66361	99545						
	End	98008					60218	87440	141885						
GC10109.0-SR3	Start	117924				150587	201165	251744					196		
	Min	58693				42976	64845	86715							
	End	98008				49072	84954	120835							
GC10110.0-SR3	Start	117924				154583	218805	283028					156		
	Min	58693				44704	72473	100242							
	End	98008				51907	97468	143029							
GC10112.0-SR3	Start	117924			185147	280965							104		
	Min	58693			57919	99350									
	End	98008			73590	141565									
GC10114.0-SR3	Start	117924		164007	297164								75		
	Min	58693		48779	106354										
	End	98008		58593	153057										
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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Data sheet

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

