

Data sheet

Sheet No.: GHCP1 1.01 RevA

Date: September 2009

GHC-Series

Torque Ratings – (Pneumatic-CW)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GHC-Series

Actuator Model	Spring Torque in-lbs		Operating Pressure (PSIG)										
			60	70	80	90	100	110	120	130	140	150	160
			Air Torque Output, lb-in										
GHC2012-SR4	Start	18353	20977	28124	35272	42420	49568	56716	63863	71011			
	Min	10231	7253	10343	13434	16525	19615	22706	25797	28887			
	End	20989	10140	15211	20281	25352	30423	35494	40565	45635			
GHC2012-SR3	Start	20508			32048	39196	46344	53492	60639	67787			
	Min	11551			12004	15094	18185	21276	24366	27457			
	End	24078			17899	22970	28041	33112	38182	43253			
GHC2012-SR2	Start	22826			29140	36288	43436	50583	57731	64879	72027		
	Min	12869			10555	13646	16736	19827	22918	26008	29099		
	End	26864			15338	20409	25479	30550	35621	40692	45763		
GHC2012-SR1	Start	26328				32809	39957	47104	54252	61400	68548		
	Min	14693				11604	14694	17785	20876	23966	27057		
	End	30197				16537	21608	26679	31750	36821	41891		
GHC2012-SR0	Start	33401						40873	48020	55168	62316	69464	
	Min	18231						13789	16879	19970	23061	26151	
	End	36166						18862	23932	29003	34074	39145	
Actuator Model	Spring Torque in-lbs		Air Torque Output, lb-in										
			60	70	80	90	100	110	120	130	140	150	160
			Operating Pressure (PSIG)										



www.Bettis.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.bettis.com or from your nearest Valve Automation Center. USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600



Data sheet

Sheet No.: GHCPI 1.02 RevA

Date: September 2009

GHC-Series

Torque Ratings – (Pneumatic-CW)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GHC-Series (cont.)

Actuator Model	Spring Torque in-lbs		Operating Pressure (PSIG)										
			50	60	70	80	90	100	110	120	150	175	200
			Air Torque Output, lb-in										
GHC3014-SR4	Start	30936			36869	47395	57921	68448	78974	89500	121079		
	Min	17224			12847	17398	21950	26501	31053	35604	49259		
	End	35269			18081	25548	33016	40484	47951	55419	77822		
GHC3016-SR4	Start	30936		46787	60721	74654	88588	102522	116456				
	Min	17224		17135	23160	29185	35210	41235	47259				
	End	35269		25117	35002	44887	54772	64657	74542				
GHC3014-SR3	Start	35235				42279	52806	63332	73858	84385	115964		
	Min	19617				14757	19308	23860	28411	32962	46617		
	End	40170				20798	28265	35733	43201	50668	73071		
GHC3016-SR3	Start	35235		41671	55605	69539	83473	97406	111340	125274			
	Min	19617		14494	20518	26543	32568	38593	44618	50642			
	End	40170		20366	30251	40136	50021	59906	69791	79676			
GHC3014-SR2	Start	40233					46853	57379	67906	78432	110011		
	Min	22401					16235	20787	25338	29890	43544		
	End	45872					22741	30208	37676	45144	67547		
GHC3016-SR2	Start	40233			49652	63586	77520	91454	105388	119321			
	Min	22401			17446	23471	29495	35520	41545	47570			
	End	45872			24727	34612	44497	54382	64267	74151			
GHC3014-SR1	Start	46042						50466	60992	71518	103097		
	Min	25635						17216	21768	26319	39974		
	End	52495						23787	31255	38723	61125		
GHC3016-SR1	Start	46042				56673	70606	84540	98474	112408			
	Min	25635				19900	25925	31950	37974	43999			
	End	52495				28191	38076	47960	57845	67730			
GHC3014-SR0	Start	55910								60585	92164	118480	
	Min	30981								20385	34039	45418	
	End	62969								27816	50219	68888	
GHC3016-SR0	Start	55910					59673	73607	87541	101475			
	Min	30981					19990	26015	32040	38065			
	End	62969					27169	37054	46939	56824			
Actuator Model	Spring Torque in-lbs		Air Torque Output, lb-in										
			50	60	70	80	90	100	110	120	150	175	200
			Operating Pressure (PSIG)										



www.Bettis.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.bettis.com or from your nearest Valve Automation Center. USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600



Data sheet

Sheet No.: GHCPI 1.03 RevA

Date: September 2009

GHC-Series

Torque Ratings – (Pneumatic-CW)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GHC-Series (cont.)

Actuator Model	Spring Torque in-lbs		Operating Pressure (PSIG)										
			40	50	60	70	80	90	100	110	120	130	140
			Air Torque Output, lb-in										
GHC4020-SR4	Start	57328	42762	69455	96149	122842	149535	176229	202922	229615			
	Min	31147	11340	23152	34694	46236	57777	69319	80861	92403			
	End	61322	12385	31322	50259	69196	88133	107070	126006	144943			
GHC4020-SR3	Start	69206			84279	110973	137666	164359	191053	217746	244440		
	Min	37345			27757	39299	50841	62383	73925	85467	97009		
	End	72693			37130	56067	75004	93941	112878	131815	150752		
GHC4020-SR2	Start	81970				97213	123906	150599	177293	203986	230679		
	Min	44190				31684	43226	54768	66310	77852	89393		
	End	85875				41960	60897	79834	98771	117708	136645		
GHC4020-SR1	Start	93685					107457	134151	160844	187537	214231	240924	
	Min	51171					35623	47165	58707	70249	81791	93333	
	End	101632					47949	66886	85823	104760	123696	142633	
GHC4020-SR0	Start	124018							140084	166778	193471	220164	246858
	Min	65251							42526	54068	65610	77152	88694
	End	121520							52297	71234	90171	109108	128044
Actuator Model	Spring Torque in-lbs		Air Torque Output, lb-in										
			40	50	60	70	80	90	100	110	120	130	140
			Operating Pressure (PSIG)										



www.Bettis.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.bettis.com or from your nearest Valve Automation Center. USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600



Data sheet

Sheet No.: GHCP1 1.04 RevA

Date: September 2009

GHC-Series

Torque Ratings – (Pneumatic-CW)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GHC-Series (cont.)

Actuator Model	Spring Torque in-lbs		Operating Pressure (PSIG)										
			60	70	80	90	100	110	120	130	140	150	160
			Air Torque Output, lb-in										
GHC5024-SR4	Start	127950	175814	225985	276156	326327	376498	426669	476840	527011	577182		
	Min	66284	55864	77558	99251	120945	142638	164331	186025	207718	229412		
	End	119952	72137	107729	143322	178914	214507	250099	285692	321284	356877		
GHC5024-SR3	Start	153055		203700	253871	304042	354213	404384	454555	504726	554897		
	Min	78872		63347	85040	106733	128427	150120	171814	193507	215200		
	End	141300		79981	115574	151166	186759	222351	257944	293537	329129		
GHC5024-SR2	Start	189808			227031	277202	327373	377544	427715	477886	528057		
	Min	96241			65164	86857	108551	130244	151937	173631	195324		
	End	167012			74953	110545	146138	181730	217323	252915	288508		
GHC5024-SR1	Start	211633				245267	295438	345609	395780	445951	496122	546293	
	Min	109483				72487	94180	115874	137567	159260	180954	202647	
	End	197605				86423	122015	157608	193200	228793	264385	299978	
GHC5024-SR0	Start	252364						310203	360374	410545	460716	510887	561058
	Min	129769						92937	114631	136324	158017	179711	201404
	End	231524						112589	148182	183774	219367	254959	290552
Actuator Model	Spring Torque in-lbs		Air Torque Output, lb-in										
			60	70	80	90	100	110	120	130	140	150	160
			Operating Pressure (PSIG)										



www.Bettis.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.bettis.com or from your nearest Valve Automation Center. USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600



Data sheet

Sheet No.: GHCP1 1.05 RevA

Date: September 2009

GHC-Series

Torque Ratings – (Pneumatic-CW)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GHC-Series (cont.)

Actuator Model	Spring Torque in-lbs		Operating Pressure (PSIG)										
			50	60	70	80	90	100	110	120	140	160	180
			Air Torque Output, lb-in										
GHC7028-SR4	Start	255736			364268	451065	537863	624660	711458	798255	971850		
	Min	131211			115331	152861	190391	227921	265452	302982	378043		
	End	233092			148377	209954	271530	333106	394682	456258	579411		
GHC7032-SR4	Start	255736		437457	550918	664380	777842	891304	1004766	1118228			
	Min	131211		146977	196036	245096	294156	343215	392275	441335			
	End	233092		200299	280792	361284	441777	522270	602762	683255			
GHC7028-SR3	Start	304124				408259	495057	581854	668652	755449	929044	1102639	
	Min	155446				125494	163024	200554	238084	275615	350675	425736	
	End	274099				156473	218049	279625	341201	402777	525930	649082	
GHC7032-SR3	Start	304124		394650	508112	621574	735036	848498	961960	1075422			
	Min	155446		119609	168669	217729	266788	315848	364908	413967			
	End	274099		146818	227311	307803	388296	468788	549281	629774			
GHC7028-SR2	Start	368442					438087	524885	611682	698480	872075	1045670	
	Min	187672					126635	164166	201696	239226	314287	389347	
	End	328675					146961	208537	270113	331689	454842	577994	
GHC7032-SR2	Start	368442			451143	564605	678067	791529	904991	1018452			
	Min	187672			132281	181340	230400	279460	328519	377579			
	End	328675			156223	236715	317208	397701	478193	558686			
GHC7028-SR1	Start	416829						482078	568876	655673	829269	1002864	
	Min	211907						136798	174329	211859	286920	361980	
	End	369683						155056	216632	278208	401361	524513	
GHC7032-SR1	Start	416829				521799	635260	748722	862184	975646			
	Min	211907				153973	203033	252092	301152	350212			
	End	369683				183234	263727	344220	424712	505205			
GHC7028-SR0	Start	513438								585074	758669	932264	1105860
	Min	257571								156085	234665	309726	384786
	End	437316								171431	294583	417736	540888
GHC7032-SR0	Start	513438					564661	678123	791585	905047			
	Min	257571					146580	199838	248898	297957			
	End	437316					156949	237442	317934	398427			
Actuator Model	Spring Torque in-lbs		Air Torque Output, lb-in										
			50	60	70	80	90	100	110	120	140	160	180
			Operating Pressure (PSIG)										



www.Bettis.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.bettis.com or from your nearest Valve Automation Center. USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600



Data sheet

Sheet No.: GHCP1 1.06 RevA

Date: September 2009

GHC-Series

Torque Ratings – (Pneumatic-CW)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

GHC-Series (cont.)

Actuator Model	Spring Torque in-lbs		Operating Pressure (PSIG)										
			50	60	70	80	90	100	110	120	140	160	180
			Air Torque Output, lb-in										
GHC8032-SR3	Start	422302			470343	604330	738317	872304	1006292	1140279	1408253	1676227	
	Min	228714			151611	209546	267480	325415	383349	441284	557153	673022	
	End	447921			198620	293674	388727	483781	578835	673888	863995	1054103	
GHC8036-SR3	Start	422302		554301	724612	894923	1065234	1235546	1405857	1576168			
	Min	228714		187914	261554	335195	408836	482476	556117	629758			
	End	447921		258182	379004	499827	620650	741473	862295	983118			
GHC8032-SR2	Start	497301			522311	656299	790286	924273	1058260	1326234	1594208		
	Min	269146			164613	222547	280482	338416	396351	512220	628089		
	End	526494			210781	305834	400888	495941	590995	781102	971209		
GHC8036-SR2	Start	497301			642593	812904	983216	1153527	1323838	1494149			
	Min	269146			216621	290262	363902	437543	511184	584824			
	End	526494			296111	416934	537757	658580	779402	900225			
GHC8032-SR1	Start	616608						693894	827881	961869	1229843	1497817	1765791
	Min	327225						214473	272407	330342	446211	562080	677949
	End	618835						269022	364076	459130	649237	839344	1029451
GHC8036-SR1	Start	616608				716513	886824	1057135	1227447	1397758	1738380		
	Min	327225				224253	297893	371534	445175	518815	666097		
	End	618835				285069	405891	526714	647537	768360	1010005		
GHC8032-SR0	Start	779636								867820	1135794	1403769	1671743
	Min	399691								246188	362057	477926	593795
	End	708932								278940	469047	659155	849262
GHC8036-SR0	Start	779636						963087	1133398	1303709	1644332		
	Min	399691						287380	361021	434662	581943		
	End	708932						346525	467348	588170	829816		
Actuator Model	Spring Torque in-lbs		Air Torque Output, lb-in										
			50	60	70	80	90	100	110	120	140	160	180
			Operating Pressure (PSIG)										



www.Bettis.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.bettis.com or from your nearest Valve Automation Center. USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600



Data sheet

Sheet No.: GHC10PI RevA

Date: September 2009

GHC-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

**Spring-Return Actuators
GHC10-Series**

Actuator Model	Spring Torque lb-in	Operating Pressure (PSIG)											MOP psig	MAWP psig	
		50	60	70	80	90	100	110	120	140	166	180			
		Air Torque Output, lb-in													
GHC10x40-SR4	Start	838424	610788	885776	1160765	1435753	1710742	1985730	2260719	2535708	3085685			158	210
	Min	424030	116708	235610	354512	473414	592316	711218	830120	949022	1186826				
	End	732047	48737	243820	438904	633987	829070	1024154	1219237	1414320	1804487				
GHC10x44-SR4	Start	838424	905253	1239135	1573016	1906898	2240779	2574661	2908543	3242424			130	175	
	Min	424030	244032	388398	532765	677132	821498	965865	1110232	1254598					
	End	732047	257638	494501	731364	968228	1205091	1441955	1678818	1915681					
GHC10x40-SR3	Start	1043712				1294419	1569407	1844396	2119384	2394373	2944350	3659320	163	210	
	Min	519475				363770	482672	601574	720476	839378	1077182	1386327			
	End	867444				407090	602173	797257	992340	1187423	1577590	2084806			
GHC10x44-SR3	Start	1043712			1431681	1765563	2099444	2433326	2767208	3101089			134	175	
	Min	519475			423121	567488	711854	856221	1000588	1144954					
	End	867444			504468	741331	978194	1215058	1451921	1688784					
GHC10x40-SR2	Start	1144789					1393189	1668178	1943166	2218155	2768132	3483102	195	210	
	Min	585990					411573	530475	649377	768279	1006083	1315228			
	End	1036257					490457	685540	880623	1075706	1465873	1973090			
GHC10x44-SR2	Start	1144789				1589345	1923227	2257108	2590990	2924871	3592635		140	175	
	Min	585990				496389	640756	785122	929489	1073856	1362589				
	End	1036257				629614	866478	1103341	1340204	1577068	2050794				
GHC10x40-SR1	Start	1418189							1740437	2015425	2565402	3280373	177	210	
	Min	715757							501027	619929	857733	1166878			
	End	1230469							578444	773527	1163693	1670910			
GHC10x44-SR1	Start	1418189					1720497	2054379	2388260	2722142	3389905		146	175	
	Min	715757					492406	636772	781139	925506	1214239				
	End	1230469					564298	801161	1038025	1274888	1748615				
Actuator Model	Spring Torque lb-in	Air Torque Output, lb-in											MOP psig	MAWP psig	
		50	60	70	80	90	100	110	120	140	166	180			
		Operating Pressure (PSIG)													



www.Bettis.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.bettis.com or from your nearest Valve Automation Center. USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600

