

# Data sheet

Sheet No.: GHPM 1.01 RevA

Date: September 2009

GH-Series

## Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

### Spring-Return Actuators

#### GH-Series

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)											
			4	4.5	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)											
GH2012-SR4	Start	2486	1855	2351	2847	3343	3839	4831	5823	6815	7807			
	Min	1166	804	1074	1343	1612	1881	2420	2958	3496	4035			
	End	1911	1221	1717	2213	2709	3205	4197	5188	6180	7172			
GH2012-SR3	Start	2777				3034	3530	4522	5514	6506	7498			
	Min	1320				1440	1710	2248	2786	3325	3863			
	End	2191				2387	2883	3875	4867	5859	6851			
GH2012-SR2	Start	3090			2259	2755	3251	4242	5234	6226	7218			
	Min	1471			998	1267	1536	2075	2613	3152	3690			
	End	2444			1544	2040	2536	3528	4520	5512	6504			
GH2012-SR1	Start	3566				2417	2913	3905	4897	5889	6881	7873		
	Min	1675				1024	1293	2370	2908	3447	3985			
	End	2750				1515	2011	3995	4987	5979	6971			
GH2012-SR0	Start	4527						3297	4289	5281	6273	7265		
	Min	2065						1356	1895	2433	2972	3510		
	End	3299						1940	2932	3924	4916	5908		

GH3014-SR4	Start	4190			3754	4485	5215	6676	8137	9597	11058	12519	13980	
	Min	1962			1693	2089	2485	3278	4071	4864	5657	6317	7088	
	End	3212			2673	3404	4134	5595	7056	8517	9977	11438	12899	
GH3016-SR4	Start	4190	4185	5152	6119	7085	8052	9986	11920	13853				
	Min	1962	1926	2451	2976	3501	4025	5075	6000	7021				
	End	3212	3104	4071	5038	6005	6971	8905	10839	12773				
GH3014-SR3	Start	4772				3991	4722	6183	7643	9104	10565	12026	13487	
	Min	2235				1773	2170	2963	3756	4549	5341	6134	6788	
	End	3658				2760	3491	4951	6412	7873	9334	10795	12256	
GH3016-SR3	Start	4772	3692	4659	5625	6592	7559	9493	11426	13360				
	Min	2235	1611	2136	2660	3185	3710	4759	5809	6859				
	End	3658	2460	3427	4394	5361	6328	8262	10195	12129				
GH3014-SR2	Start	5449					4148	5609	7069	8530	9991	11452	12913	
	Min	2552					1803	2596	3388	4181	4974	5767	6560	
	End	4178					2742	4203	5664	7125	8586	10047	11507	
GH3016-SR2	Start	5449			5051	6018	6985	8919	10852	12786				
	Min	2552			2293	2818	3343	4392	5442	6491				
	End	4178			3646	4613	5580	7513	9447	11381				
GH3014-SR1	Start	6236						4942	6403	7864	9324	10785	12246	13707
	Min	2920						2169	2962	3755	4548	5341	6133	6926
	End	4781						3334	4794	6255	7716	9177	10638	12099
GH3016-SR1	Start	6236				5351	6318	8252	10186	12119	14053			
	Min	2920				2391	2916	3966	5015	6065	7114			
	End	4781				3743	4710	6644	8578	10511	12445			
GH3014-SR0	Start	7574							5346	6807	8268	9728	11189	12650
	Min	3524							2254	3046	3839	4632	5425	6218
	End	5737							3316	4777	6238	7698	9159	10620
GH3016-SR0	Start	7574					5261	7195	9129	11063	12996			
	Min	3524					2208	3257	4307	5356	6406			
	End	5737					3232	5165	7099	9033	10966			

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**Data sheet**

Sheet No.: GHPM 1.02 RevA

Date: September 2009

**GH-Series**

# Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

**Spring-Return Actuators  
GH-Series (cont.)**

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			3.5	4	4.5	5	5.5	6	7	8	9	10	11
			Air Torque Output (Nm)										
GH4020-SR4	Start	7771	6780	8632	10484	12337	14189	16041	19746	23450	27155		
	Min	3524	2913	3918	4924	5929	6934	7940	9950	11961	13972		
	End	5597	4377	6229	8081	9934	11786	13638	17343	21047	24752		
GH4020-SR3	Start	9383		7480	9333	11185	13037	14889	18594	22299	26003		
	Min	4217		3092	4097	5103	6108	7113	9124	11135	13145		
	End	6639		4447	6300	8152	10004	11856	15561	19265	22970		
GH4020-SR2	Start	11114			8001	9854	11706	13558	17263	20967	24672	28376	
	Min	4988			3189	4194	5200	6205	8216	10226	12237	14248	
	End	7843			4386	6239	8091	9943	13648	17352	21057	24761	
GH4020-SR1	Start	12697				8275	10128	11980	15684	19389	23093	26798	
	Min	5798				3283	4288	5294	7304	9315	11326	13336	
	End	9271				4489	6342	8194	11898	15603	19307	23012	
GH4020-SR0	Start	16828					8077	9930	13634	17339	21043	24748	28452
	Min	7314					1769	3378	5388	7399	9410	11420	13431
	End	11126					1775	3627	7332	11036	14741	18445	22150

GH5024-SR4	Start	17371	12210	15692	19173	22654	26136	29617	36580	43543	50505	57468	64431
	Min	7395	4380	6270	8159	10049	11938	13828	17607	21386	25166	28945	32724
	End	11001	5171	8652	12133	15615	19096	22577	29540	36503	43466	50428	57391
GH5024-SR3	Start	20782		13519	17000	20482	23963	27444	34407	41370	48332	55295	62258
	Min	8785		4580	6470	8359	10249	12138	15918	19697	23476	27255	31034
	End	12967		4881	8362	11844	15325	18806	25769	32732	39695	46657	53620
GH5024-SR2	Start	25786			14359	17840	21321	24803	31766	38728	45691	52654	59617
	Min	10667			2824	6003	7893	9783	13562	17341	21120	24899	28678
	End	15357			2832	6314	9795	13276	20239	27202	34165	41127	48090
GH5024-SR1	Start	28733				14779	18261	21742	28705	35668	42630	49593	56556
	Min	12209				3048	6169	8059	11838	15617	19396	23175	26955
	End	18126				3057	6538	10019	16982	23945	30907	37870	44833



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**Data sheet**

Sheet No.: GHPM 1.03 RevA

Date: September 2009

**GH-Series**

# Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

**Spring-Return Actuators**

**GH-Series (cont.)**

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GH7028-SR4	Start	34730	24528	36574	42597	48620	60665	72711	84757	96803	108848	120894	
	Min	14596	8611	15149	18418	21687	28225	34763	41301	47839	54377	60916	
	End	21402	9798	21843	27866	33889	45935	57981	70027	82072	94118	106164	
GH7032-SR4	Start	34730	39330	55076	62949	70823	86569	102315	118061				
	Min	14596	16645	25191	29465	33738	42285	50831	59378				
	End	21402	24600	40346	48219	56092	71838	87585	103331				
GH7028-SR3	Start	41306		32400	38422	44445	56491	68537	80583	92628	104674	116720	
	Min	17271		11895	15164	18433	24972	31510	38048	44586	51124	57662	
	End	25179		14575	20598	26621	38667	50713	62758	74804	86850	98896	
GH7032-SR3	Start	41306	35156	50902	58775	66648	82395	98141	113887				
	Min	17271	13391	21938	26211	30485	39031	47578	56125				
	End	25179	17331	33078	40951	48824	64570	80316	96063				
GH7028-SR2	Start	50047				38890	50936	62982	75027	87073	99119	111165	123211
	Min	20830				14108	20646	27184	33722	40260	46798	53336	59874
	End	30205				16960	29006	41051	53097	65143	77189	89235	101280
GH7032-SR2	Start	50047		45347	53220	61093	76839	92586	108332	124078			
	Min	20830		17612	21885	26159	34705	43252	51799	60345			
	End	30205		23417	31290	39163	54909	70655	86402	102148			
GH7028-SR1	Start	56623					46762	58807	70853	82899	94945	106990	119036
	Min	23505					17392	23930	30468	37007	43545	50083	56621
	End	33982					21737	33783	45829	57875	69920	81966	94012
GH7032-SR1	Start	56623			49046	56919	72665	88411	104158	119904			
	Min	23505			18632	22905	31452	39999	48545	57092			
	End	33982			24021	31895	47641	63387	79133	94880			
GH7028-SR0	Start	69775						51860	63906	75951	87997	100043	112089
	Min	28452						17737	24275	30813	37351	43889	50427
	End	40268						19247	31292	43338	55384	67430	79475
GH7032-SR0	Start	69775					65717	81464	97210	112956			
	Min	28452					25258	33805	42352	50898			
	End	40268					33104	48851	64597	80343			



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**Data sheet**

Sheet No.: GHPM 1.04 RevA

Date: September 2009

**GH-Series**

# Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

**Spring-Return Actuators**

**GH-Series (cont.)**

Actuator Model	Spring Torque (CW)		Operating Pressure (Bar)										
			4	5	5.5	6	7	8	9	10	11	12	13
			Air Torque Output (Nm)										
GH8032-SR3	Start	57249		47776	57074	66371	84966	103561	122155	140750	159345	177939	196534
	Min	25852		20160	25207	30253	40346	50439	60531	70624	80717	90809	100902
	End	40893		29698	38995	48293	66888	85482	104077	122672	141266	159861	178456
GH8032-SR3	Start	57249	49346	72982	84800	96617	120253	143889	167525	191161			
	Min	25852	21012	33841	40256	46670	59499	72328	85157	97985			
	End	40893	31268	54903	66721	78539	102175	125811	149447	173082			
GH8032-SR2	Start	67418				58439	77034	95629	114223	132818	151413	170008	188602
	Min	30416				24892	34985	45078	55170	65263	75356	85448	95541
	End	48069				37054	55648	74243	92838	111433	130027	148622	167217
GH8036-SR2	Start	67418		65050	76868	88686	112321	135957	159593	183229			
	Min	30416		28480	34895	41309	54138	66967	79796	92624			
	End	48069		43664	55482	67300	90936	114572	138207	161843			
GH8032-SR1	Start	83646					67595	86190	104785	123380	141974	160569	179164
	Min	36769					27149	37242	47334	57427	67520	77613	87705
	End	56609					37712	56307	74901	93496	112091	130686	149280
GH8036-SR1	Start	83646			67429	79247	102883	126519	150154	173790	197426		
	Min	36769			27059	33473	46302	59131	71960	84789	97617		
	End	56609			37546	49364	72999	96635	120271	143907	167543		
GH8032-SR0	Start	105879						76806	95401	113996	132591	151185	169780
	Min	44450						27299	37392	47485	57578	67670	77763
	End	65099						31734	50329	68923	87518	106113	124707
GH8036-SR0	Start	105879					93499	117135	140771	164406	188042		
	Min	44450					36360	49189	62018	74846	87675		
	End	65099					48426	72062	95698	119334	142970		



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**Data sheet**

Sheet No.: GH10PM RevA

Date: September 2009

**GH-Series**

# Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

**Spring-Return Actuators  
GH10-Series**

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



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