

Data sheet

Sheet No.: GPM 1.01 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)											
			3	3.5	4	5	5.5	6	7	8	9	10	12	13
			Pressure Torque Output Start/Min./End (Nm)											
G01108-SR4	Start	1312					622	792	1132	1473	1813	2154	2835	3175
	Min.	645					276	400	525	650	774	1146	1455	1623
	End	1132					422	592	933	1273	1614	1954	2635	2975
G01109-SR4	Start	1312			485	919	1136	1353	1787	2221	2655	3089	3957	4391
	Min.	645			199	431	546	661	891	1120	1349	1578	2036	2265
	End	1132			285	719	936	1153	1587	2021	2455	2889	3757	4191
G01110-SR4	Start	1312		763	1051	1626	1914	2202	2777	3353	3928	4504		
	Min.	645		348	501	806	957	1109	1413	1717	2021	2324		
	End	1132		564	851	1427	1714	2002	2578	3153	3729	4304		
G01112-SR4	Start	1312	1224	1636	2048	2873	3286	3698	4523	5348				
	Min.	645	593	811	1028	1464	1681	1899	2334	2770				
	End	1132	1024	1436	1849	2674	3086	3498	4323	5148				
G01114-SR4	Start	1312	1758	2260	2761	3764	4266	4767						
	Min.	645	875	1140	1404	1934	2198	2463						
	End	1132	1559	2060	2562	3565	4066	4568						
G01108-SR3	Start	1536						613	954	1294	1635	1975	2656	2997
	Min.	746						247	429	610	791	972	1331	1511
	End	1293						345	685	1025	1366	1706	2387	2728
G01109-SR3	Start	1536			741	958	1175	1609	2043	2477	2911	3779	4213	
	Min.	746			316	431	547	777	1007	1236	1465	1923	2152	
	End	1293			472	689	906	1340	1774	2208	2642	3510	3944	
G01110-SR3	Start	1536		585	872	1448	1736	2023	2599	3174	3750	4325		
	Min.	746		232	386	692	845	997	1301	1604	1908	2212		
	End	1293		316	604	1179	1467	1755	2330	2905	3481	4056		
G01112-SR3	Start	1536	1045	1458	1870	2695	3107	3520	4344	5169				
	Min.	746	478	697	916	1351	1569	1787	2222	2657				
	End	1293	776	1189	1601	2426	2838	3251	4075	4900				
G01114-SR3	Start	1536	1580	2081	2583	3586	4087	4589						
	Min.	746	762	1027	1292	1822	2086	2351						
	End	1293	1311	1812	2314	3317	3818	4320						
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)											
			3	3.5	4	5	5.5	6	7	8	9	10	12	13
			Operating Pressure (Bar)											

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Data sheet

Sheet No.: GPM 1.02 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)											
			3	3.5	4	5	5.5	6	7	8	9	10	12	13
			Pressure Torque Output Start/Min./End (Nm)											
G01108-SR2	Start	1754								1095	1436	1776	2457	2798
	Min.	851								417	542	916	1227	1395
	End	1473								785	1125	1466	2146	2487
G01109-SR2	Start	1754					759	976	1410	1844	2278	2712	3580	4014
	Min.	851					316	476	635	794	953	1428	1807	2036
	End	1473					448	665	1099	1533	1967	2401	3269	3703
G01110-SR2	Start	1754			674	1249	1537	1825	2400	2975	3551	4126		
	Min.	851			266	574	727	880	1185	1488	1792	2096		
	End	1473			363	938	1226	1514	2089	2665	3240	3815		
G01112-SR2	Start	1754	846	1259	1671	2496	2908	3321	4145	4970				
	Min.	851	360	579	798	1235	1453	1671	2106	2541				
	End	1473	535	948	1360	2185	2597	3010	3835	4659				
G01114-SR2	Start	1754	1381	1882	2384	3387	3888	4390						
	Min.	851	644	911	1176	1705	1970	2235						
	End	1473	1070	1572	2073	3076	3578	4079						
G01108-SR1	Start	2087									1219	1559	2240	2581
	Min.	989									380	757	1069	1238
	End	1670									757	1098	1779	2119
G01109-SR1	Start	2087					759	1193	1627	2061	2495	3363	3797	
	Min.	989					312	475	635	794	1272	1653	1882	
	End	1670					297	731	1165	1599	2033	2901	3335	
G01110-SR1	Start	2087				1032	1320	1607	2183	2758	3334	3909		
	Min.	989				413	568	721	1027	1333	1638	1941		
	End	1670				571	858	1146	1721	2297	2872	3448		
G01112-SR1	Start	2087		1041	1454	2279	2691	3104	3928	4753				
	Min.	989		418	639	1078	1297	1516	1952	2387				
	End	1670		580	993	1817	2230	2642	3467	4292				
G01114-SR1	Start	2087	1164	1665	2167	3170	3671	4173						
	Min.	989	484	752	1018	1551	1816	2081						
	End	1670	702	1204	1705	2708	3210	3711						
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)											
			3	3.5	4	5	5.5	6	7	8	9	10	12	13
			Operating Pressure (Bar)											



Data sheet

Sheet No.: GPM 1.03 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Pressure Torque Output Start/Min./End (Nm)												
G2109-SR6	Start	1463			839	1364	1627	1890	2415	2941	3466	3991	5042	
	Min.	685			342	623	762	902	1181	1458	1736	2013	2568	
	End	1142			485	1010	1273	1536	2061	2586	3112	3637	4688	
G2110-SR6	Start	1463	827	1176	1524	2221	2569	2917	3614	4310	5007			
	Min.	685	336	522	708	1078	1262	1446	1814	2181	2549			
	End	1142	473	821	1170	1866	2215	2563	3260	3956	4653			
G2112-SR6	Start	1463	1733	2232	2731	3730	4229	4728	5727					
	Min.	685	819	1084	1348	1875	2139	2402	2929					
	End	1142	1379	1878	2377	3376	3875	4374	5373					
G2114-SR6	Start	1463	2380	2987	3594	4809	5416							
	Min.	685	1163	1483	1804	2444	2765							
	End	1142	2026	2633	3240	4454	5061							
G2116-SR6	Start	1463	3546	4347	5148									
	Min.	685	1778	2201	2624									
	End	1142	3191	3993	4794									
G2109-SR5	Start	1855			941	1203	1466	1991	2517	3042	3568	4618		
	Min.	891			394	534	674	953	1232	1510	1787	2341		
	End	1525			577	839	1102	1627	2153	2678	3203	4254		
G2110-SR5	Start	1855		752	1100	1797	2145	2494	3190	3887	4583			
	Min.	891		292	480	850	1035	1220	1588	1955	2323			
	End	1525		388	736	1433	1781	2129	2826	3523	4219			
G2112-SR5	Start	1855	1309	1809	2308	3306	3805	4305	5303					
	Min.	891	591	856	1121	1649	1912	2176	2703					
	End	1525	945	1444	1944	2942	3441	3941	4939					
G2114-SR5	Start	1855	1957	2564	3171	4385	4992							
	Min.	891	935	1257	1577	2218	2539							
	End	1525	1592	2200	2807	4021	4628							
G2116-SR5	Start	1855	3129	3932	4735									
	Min.	891	1552	1974	2397									
	End	1525	2758	3559	4360									
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Operating Pressure (Bar)												



Data sheet

Sheet No.: GPM 1.04 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)											
		3	3.5	4	5	5.5	6	7	8	9	10	12	13
		Pressure Torque Output Start/Min./End (Nm)											
G2109-SR4	Start	2336						1039	1565	2090	2615	3141	4192
	Min.	1119						414	696	975	1254	1534	2088
	End	1912						570	1095	1620	2146	2671	3722
G2110-SR4	Start	2336			1370	1719	2067	2763	3460	4157			
	Min.	1119			593	778	963	1333	1702	2070			
	End	1912			901	1249	1597	2294	2990	3687			
G2112-SR4	Start	2336	1382	1881	2880	3379	3878	4876					
	Min.	1119	599	864	1395	1659	1923	2450					
	End	1912	912	1411	2410	2909	3408	4407					
G2114-SR4	Start	2336	1530	2137	2744	3958	4565						
	Min.	1119	677	1000	1323	1965	2285						
	End	1912	1060	1667	2274	3488	4096						
G2116-SR4	Start	2336	2695	3496	4298								
	Min.	1119	1297	1721	2144								
	End	1912	2225	3027	3828								
G2109-SR3	Start	2728							1781	2307	2832	3883	
	Min.	1295							775	1055	1334	1892	
	End	2191							1188	1714	2239	3290	
G2110-SR3	Start	2728				1410	1758	2455	3151	3848			
	Min.	1295				576	763	1133	1503	1874			
	End	2191				817	1165	1862	2558	3255			
G2112-SR3	Start	2728		1572	2571	3070	3569	4568					
	Min.	1295		664	1195	1460	1726	2254					
	End	2191		979	1978	2477	2976	3975					
G2114-SR3	Start	2728	1828	2435	3649	4256							
	Min.	1295	800	1123	1768	2090							
	End	2191	1235	1842	3056	3663							
G2116-SR3	Start	2728	2386	3188	3989								
	Min.	1295	1097	1523	1949								
	End	2191	1793	2595	3396								
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)											
		3	3.5	4	5	5.5	6	7	8	9	10	12	13
		Operating Pressure (Bar)											



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Sheet No.: GPM 1.05 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)												
			3	3.5	4	5	5.5	6	7	8	9	10	12	13	
			Pressure Torque Output Start/Min./End (Nm)												
G2109-SR2	Start	3030										1971	2497	3547	
	Min.	1456										674	1251	1733	
	End	2494										1379	1904	2955	
G2110-SR2	Start	3030						1423	2119	2816	3513				
	Min.	1456						583	955	1325	1696				
	End	2494						830	1527	2223	2920				
G2112-SR2	Start	3030			1237	2235	2735	3234	4232						
	Min.	1456			482	1017	1282	1548	2077						
	End	2494			645	1643	2142	2641	3640						
G2114-SR2	Start	3030		1493	2100	3314	3921								
	Min.	1456		621	945	1590	1913								
	End	2494		900	1507	2722	3329								
G2116-SR2	Start	3030	2051	2852	3654										
	Min.	1456	919	1345	1771										
	End	2494	1459	2260	3061										
G2109-SR1	Start	3502										2131	3182		
	Min.	1666										1012	1493		
	End	2825										1382	2433		
G2110-SR1	Start	3502						1753	2450	3147					
	Min.	1666						713	1086	1456					
	End	2825						1005	1702	2398					
G2112-SR1	Start	3502					2369	2868	3866						
	Min.	1666					1043	1308	1839						
	End	2825					1620	2120	3118						
G2114-SR1	Start	3502			1734	2948	3555								
	Min.	1666			702	1351	1673								
	End	2825			986	2200	2807								
G2116-SR1	Start	3502		2486	3288										
	Min.	1666		1105	1531										
	End	2825		1738	2539										
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)												
			3	3.5	4	5	5.5	6	7	8	9	10	12	13	
			Operating Pressure (Bar)												

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Data sheet

Sheet No.: GPM 1.06 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Pressure Torque Output Start/Min./End (Nm)												
G3110-SR4	Start	4132							2314	3154	3994	4834	6514	7355
	Min.	1935							937	1387	1834	2280	3173	3618
	End	3228							1314	2154	2995	3835	5515	6355
G3112-SR4	Start	4132				2471	3074	3678	4886	6094	7301			
	Min.	1935				1022	1345	1666	2308	2950	3590			
	End	3228				1471	2075	2679	3887	5094	6302			
G3114-SR4	Start	4132				2313	3784	4519	5254	6724	8195			
	Min.	1935				937	1722	2113	2504	3285	4061			
	End	3228				1314	2784	3520	4255	5725	7195			
G3116-SR4	Start	4132	2262	3233	4205	6148	7120	8091						
	Min.	1935	909	1430	1946	2979	3494	4007						
	End	3228	1263	2234	3206	5149	6120	7092						
G3120-SR4	Start	4132	5683	7225										
	Min.	1935	2731	3549										
	End	3228	4684	6225										
G3110-SR3	Start	4760								2678	3518	4358	6038	6878
	Min.	2212								1065	1518	1964	2857	3304
	End	3659								1460	2300	3140	4821	5661
G3112-SR3	Start	4760					2598	3202	4410	5617	6825			
	Min.	2212					1022	1349	1992	2634	3275			
	End	3659					1381	1985	3192	4400	5608			
G3114-SR3	Start	4760					3308	4043	4778	6248	7718			
	Min.	2212					1406	1797	2187	2969	3750			
	End	3659					2090	2825	3560	5031	6501			
G3116-SR3	Start	4760					2757	3729	5672	6644	7615			
	Min.	2212					1108	1630	2663	3179	3695			
	End	3659					1540	2511	4454	5426	6398			
G3120-SR3	Start	4760	5207	6749										
	Min.	2212	2415	3235										
	End	3659	3989	5531										
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Operating Pressure (Bar)												



Data sheet

Sheet No.: GPM 1.07 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Pressure Torque Output Start/Min./End (Nm)												
G3110-SR2	Start	5539									2944	3784	5464	6304
	Min.	2550									1118	1574	2470	2916
	End	4178									1440	2280	3960	4801
G3112-SR2	Start	5539					2628	3836	5043	6251				
	Min.	2550					942	1602	2246	2888				
	End	4178					1124	2332	3540	4747				
G3114-SR2	Start	5539			2734	3469	4204	5674	7144					
	Min.	2550			1001	1403	1800	2581	3362					
	End	4178			1230	1965	2700	4170	5640					
G3116-SR2	Start	5539		3155	5098	6070	7041							
	Min.	2550		1232	2275	2791	3308							
	End	4178		1651	3594	4566	5537							
G3120-SR2	Start	5539	4633	6175										
	Min.	2550	2028	2847										
	End	4178	3129	4671										
G3110-SR1	Start	6107									3128	4809	5649	
	Min.	2860									1227	2129	2576	
	End	4771									1652	3333	4173	
G3112-SR1	Start	6107						3180	4388	5596				
	Min.	2860						1255	1905	2547				
	End	4771						1704	2912	4119				
G3114-SR1	Start	6107				2813	3548	5019	6489					
	Min.	2860				1056	1455	2241	3022					
	End	4771				1337	2072	3542	5013					
G3116-SR1	Start	6107		2499	4442	5414	6386							
	Min.	2860		879	1934	2451	2967							
	End	4771		1023	2966	3938	4909							
G3120-SR1	Start	6107	3977	5519										
	Min.	2860	1687	2507										
	End	4771	2501	4043										
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Operating Pressure (Bar)												



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Sheet No.: GPM 1.08 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Pressure Torque Output Start/Min./End (Nm)												
G4112-SR4	Start	7772							3999	5454	6909	8364	11274	12729
	Min.	3502							1392	2193	2977	3751	5297	6071
	End	5597							1596	3051	4506	5961	8871	10326
G4114-SR4	Start	7772						4457	6231	8005	9779	11553	15101	
	Min.	3502						1650	2615	3560	4503	5446	7331	
	End	5597						2054	3828	5602	7376	9150	12698	
G4116-SR4	Start	7772				5554	6729	7903	10251	12599	14947	17295		
	Min.	3502				2248	2881	3505	4753	6001	7249	8494		
	End	5597				3151	4325	5499	7847	10196	12544	14892		
G4120-SR4	Start	7772	5012	6879	8745	12478	14345	16211						
	Min.	3502	1953	2961	3953	5937	6929	7921						
	End	5597	2609	4475	6342	10075	11941	13808						
G4124-SR4	Start	7772	10112	12828	15545									
	Min.	3502	4680	6123	7567									
	End	5597	7709	10425	13141									
G4112-SR3	Start	9384									5757	7212	10122	11578
	Min.	4194									2156	2946	4503	5277
	End	6639									2724	4179	7089	8544
G4114-SR3	Start	9384							5079	6853	8627	10401	13949	
	Min.	4194							1775	2751	3709	4651	6537	
	End	6639							2046	3820	5594	7368	10916	
G4116-SR3	Start	9384					5577	6751	9099	11447	13795	16144		
	Min.	4194					2055	2696	3959	5207	6455	7703		
	End	6639					2543	3718	6066	8414	10762	13110		
G4120-SR3	Start	9384		5727	7594	11326	13193	15059						
	Min.	4194		2139	3153	5143	6135	7127						
	End	6639		2694	4560	8293	10160	12026						
G4124-SR3	Start	9384	8960	11677	14393									
	Min.	4194	3885	5329	6773									
	End	6639	5927	8643	11360									
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Operating Pressure (Bar)												



Data sheet

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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Pressure Torque Output Start/Min./End (Nm)														
G4128-SR3	Start	9384	15694														
	Min.	4194	7465														
	End	6639	12661														
G4112-SR2	Start	11116										5881	8791	10246			
	Min.	4962										2018	3617	4400			
	End	7844										2264	5174	6629			
G4114-SR2	Start	11116								5522	7296	9070	12618				
	Min.	4962								1807	2805	3768	5661				
	End	7844								1905	3679	5453	9001				
G4116-SR2	Start	11116						5419	7768	10116	12464	14812					
	Min.	4962						1746	3061	4331	5579	6827					
	End	7844						1802	4151	6499	8847	11195					
G4120-SR2	Start	11116			6262	9995	11861	13728									
	Min.	4962			2232	4267	5259	6251									
	End	7844			2645	6378	8245	10111									
G4124-SR2	Start	11116	7629	10345	13061												
	Min.	4962	2986	4453	5897												
	End	7844	4012	6728	9445												
G4128-SR2	Start	11116	14363														
	Min.	4962	6588														
	End	7844	10746														
G4114-SR1	Start	12698										7491	11039				
	Min.	5759										2857	4773				
	End	9272										3705	7253				
G4116-SR1	Start	12698							6189	8537	10886	13234					
	Min.	5759							2131	3425	4691	5939					
	End	9272							2403	4751	7099	9447					
G4120-SR1	Start	12698			8417	10283	12150										
	Min.	5759			3359	4371	5363										
	End	9272			4630	6496	8363										
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Operating Pressure (Bar)														



Data sheet

Sheet No.: GPM 1.10 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Pressure Torque Output Start/Min./End (Nm)														
G4124-SR1	Start	12698		8767	11483												
	Min.	5759		3549	5009												
	End	9272		4980	7696												
G4128-SR1	Start	12698	12785														
	Min.	5759	5700														
	End	9272	8998														
G5116-SR4	Start	17372									14859	17861	23866	26868			
	Min.	7392									5818	7447	10649	12245			
	End	11002									7819	10821	16825	19827			
G5120-SR4	Start	17372					16605	21399	26193	30988	35782						
	Min.	7392					6765	9338	11886	14434	16982						
	End	11002					9565	14359	19153	23947	28741						
G5124-SR4	Start	17372			15816	22810	26307	29804	36798								
	Min.	7392			6337	10088	11947	13805	17522								
	End	11002			8775	15769	19266	22763	29757								
G5128-SR4	Start	17372	17537	22486	27436	37335	42284										
	Min.	7392	7271	9916	12547	17808	20438										
	End	11002	10496	15446	20395	30294	35244										
G5132-SR4	Start	17372	26711	33189	39668												
	Min.	7392	12162	15605	19048												
	End	11002	19670	26149	32628												
G5116-SR3	Start	20785													21693	24695	
	Min.	8786													9016	10628	
	End	12968													13054	16056	
G5120-SR3	Start	20785					14432	19226	24020	28815	33609						
	Min.	8786					5036	7678	10270	12818	15366						
	End	12968					5793	10587	15381	20176	24970						
G5124-SR3	Start	20785			13643	20637	24134	27631	34625								
	Min.	8786			4585	8443	10330	12188	15906								
	End	12968			5004	11998	15495	18992	25986								
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Operating Pressure (Bar)														



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Pressure Torque Output Start/Min./End (Nm)														
G5128-SR3	Start	20785	15364	20313	25263	35162	40111										
	Min.	8786	5560	8267	10930	16191	18821										
	End	12968	6725	11674	16624	26523	31472										
G5132-SR3	Start	20785	24538	31016	37495												
	Min.	8786	10545	13988	17431												
	End	12968	15899	22377	28856												
G5136-SR3	Start	20785	34935	43147													
	Min.	8786	16071	20435													
	End	12968	26296	34508													
G5116-SR2	Start	25788													19051	22053	
	Min.	10667													6604	8290	
	End	15358													7524	10526	
G5120-SR2	Start	25788								21379	26173	30967					
	Min.	10667								7913	10526	13127					
	End	15358								9851	14646	19440					
G5124-SR2	Start	25788				21492	24989	31983									
	Min.	10667				7977	9883	13667									
	End	15358				9965	13462	20456									
G5128-SR2	Start	25788		17671	22621	32520	37469										
	Min.	10667		5802	8598	13952	16583										
	End	15358		6144	11094	20993	25942										
G5132-SR2	Start	25788	21896	28375	34853												
	Min.	10667	8204	11721	15192												
	End	15358	10369	16848	23326												
G5136-SR2	Start	25788	32294	40505													
	Min.	10667	13832	18196													
	End	15358	20767	28978													
G5120-SR1	Start	28735								18318	23112	27906					
	Min.	12206								6106	8802	11404					
	End	18128								6594	11389	16183					
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Operating Pressure (Bar)														



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Sheet No.: GPM 1.12 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Pressure Torque Output Start/Min./End (Nm)												
G5124-SR1	Start	28735					18431	21928	28922					
	Min.	12206					6173	8152	11956					
	End	18128					6708	10205	17199					
G5128-SR1	Start	28735			19560	29459	34409							
	Min.	12206			6820	12247	14899							
	End	18128			7837	17736	22685							
G5132-SR1	Start	28735	18835	25314	31792									
	Min.	12206	6412	9997	13509									
	End	18128	7112	13590	20069									
G5136-SR1	Start	28735	29233	37444										
	Min.	12206	12124	16513										
	End	18128	17509	25721										
G7120-SR4	Start	33079								23109	28954	34800	46491	52337
	Min.	14207								8395	11596	14766	20980	24087
	End	21404								10204	16050	21896	33587	39433
G7124-SR4	Start	33079					23343	27616	36161	44707	53252	261797	78888	
	Min.	14207					8526	10869	15489	20031	24573	29114	38198	
	End	21404					10438	14711	23257	31802	40348	48893	65984	
G7128-SR4	Start	33079			24786	36896	42952	49007	61118	73228				
	Min.	14207			9333	15880	19098	22317	28753	35190				
	End	21404			11881	23992	30047	36102	48213	60324				
G7132-SR4	Start	33079	23934	31866	39798	55662	63594	71526						
	Min.	14207	8859	13177	17422	25854	30069	34285						
	End	21404	11030	18962	26894	42757	50689	58621						
G7136-SR4	Start	33079	36695	46754	56812	76930								
	Min.	14207	15773	21119	26465	37157								
	End	21404	23790	33849	43908	64025								
G7120-SR3	Start	39345									24780	30625	42317	48163
	Min.	16818									8342	11625	17966	21073
	End	25181									9125	14970	26662	32508
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Operating Pressure (Bar)												



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)											
			3	3.5	4	5	5.5	6	7	8	9	10	12	13
			Pressure Torque Output Start/Min./End (Nm)											
G7124-SR3	Start	39345								31987	40532	49077	57623	74714
	Min.	16818								12364	17002	21559	26101	35184
	End	25181								16332	24877	33422	41968	59059
G7128-SR3	Start	39345				32722	38777	44832	56943	69054				
	Min.	16818				12763	16049	19303	25740	32176				
	End	25181				17067	23122	29177	41288	53399				
G7132-SR3	Start	39345			35623	51487	59419	67351						
	Min.	16818			14338	22840	27056	31271						
	End	25181			19969	35832	43764	51696						
G7136-SR3	Start	39345	32520	42579	52638	72755								
	Min.	16818	12653	18105	23451	34143								
	End	25181	16865	26924	36983	57100								
G71T28-SR3	Start	39345	44832	56943	69054									
	Min.	16818	19303	25740	32176									
	End	25181	29177	41288	53399									
G7124-SR2	Start	50028								35608	44153	52699	69789	
	Min.	20644								11970	16770	21408	30578	
	End	29636								13069	21615	30160	47251	
G7128-SR2	Start	50028					33853	39908	52019	64129				
	Min.	20644					10932	14407	21039	27570				
	End	29636					11314	17370	29480	41591				
G7132-SR2	Start	50028			30699	46563	54495	62427						
	Min.	20644			8161	18078	22383	26665						
	End	29636			8161	24025	31957	39889						
G7136-SR2	Start	50028		37655	47713	67831								
	Min.	20644		13140	18702	29537								
	End	29636		15116	25175	45292								
G71T28-SR2	Start	50028	39908	52019	64129									
	Min.	20644	14407	21039	27570									
	End	29636	17370	29480	41591									
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)											
			3	3.5	4	5	5.5	6	7	8	9	10	12	13
			Operating Pressure (Bar)											



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Sheet No.: GPM 1.14 RevB

Date: August 2010

G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)											
			3	3.5	4	5	5.5	6	7	8	9	10	12	13
			Pressure Torque Output Start/Min./End (Nm)											
G7124-SR1	Start	59263										38204	46749	63840
	Min.	24427										11407	16737	26096
	End	35019										11407	19953	37044
G7128-SR1	Start	59263							46070	58180				
	Min.	24427							16354	23024				
	End	35019							19273	31384				
G7132-SR1	Start	59263				40614	48546	56478						
	Min.	24427				13213	17747	22100						
	End	35019				13817	21749	29681						
G7136-SR1	Start	59263			41764	61881								
	Min.	24427			13894	25033								
	End	35019			14968	35085								
G71T28-SR1	Start	59263	33959	46070	58180									
	Min.	24427	7162	16354	23024									
	End	35019	7162	19273	31384									
G8124-SR3	Start	57255								35211	45262	55314	75417	85468
	Min.	25702								13339	18795	24173	34857	40199
	End	40896								17130	27181	37233	57336	67387
G8128-SR3	Start	57255				33322	40460	54737	69014	83291	97568			
	Min.	25702				12293	16189	23866	31454	39042	46630			
	End	40896				15241	22379	36656	50933	65210	79487			
G8132-SR3	Start	57255			29699	48424	57787	67149	85874	104599	123324			
	Min.	25702			10255	20511	25487	30463	40415	50366	60316			
	End	40896			11618	30343	39706	49068	67793	86518	105243			
G8136-SR3	Start	57255		37981	49864	73630	85513	97396	121163					
	Min.	25702		14843	21276	33907	40223	46538	59170					
	End	40896		19900	31783	55549	67433	79316	103082					
G8140-SR3	Start	57255	43001	57701	72401	101802	116502							
	Min.	25702	17567	25441	33254	48880	56692							
	End	40896	24920	39620	54320	83721	98421							
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)											
			3	3.5	4	5	5.5	6	7	8	9	10	12	13
			Operating Pressure (Bar)											



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Pressure Torque Output Start/Min./End (Nm)														
G81T32-SR3	Start	57255	67149	85874	104599												
	Min.	25702	30463	40415	50366												
	End	40896	49068	67793	86518												
G81T36-SR3	Start	57255	97396	121163													
	Min.	25702	46538	59170													
	End	40896	79316	103082													
G8124-SR2	Start	67425										47381	67484	77536			
	Min.	30242										18889	29685	35027			
	End	48073										25993	46096	56147			
G8128-SR2	Start	67425							46805	61082	75359	89635					
	Min.	30242							18576	26282	33870	41458					
	End	48073							25416	39693	53970	68247					
G8132-SR2	Start	67425			40492	49854	59217	77942	96667	115392							
	Min.	30242			15146	20231	25291	35243	45195	55147							
	End	48073			19103	28466	37828	56553	75278	94003							
G8136-SR2	Start	67425		41931	65698	77581	89464	113230									
	Min.	30242		15931	28736	35051	41367	53998									
	End	48073		20543	44309	56192	68076	91842									
G8140-SR2	Start	67425	35068	49768	64469	93869	108570										
	Min.	30242	12096	20185	28082	43708	51521										
	End	48073	13680	28380	43080	72481	87181										
G81T32-SR2	Start	67425	59217	77942	96667												
	Min.	30242	25291	35243	45195												
	End	48073	37828	56553	75278												
G81T36-SR2	Start	67425	89464	113230													
	Min.	30242	41367	53998													
	End	48073	68076	91842													
G8124-SR1	Start	83654												58045	68096		
	Min.	36645												21964	27420		
	End	56614												28158	38210		
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Operating Pressure (Bar)														



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Sheet No.: GPM 1.16 RevB

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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Pressure Torque Output Start/Min./End (Nm)												
G8128-SR1	Start	83654								51642	65919	80196		
	Min.	36645								18387	26238	33985		
	End	56614								21756	36033	50310		
G8132-SR1	Start	83654					49777	68502	87227	105952				
	Min.	36645					17338	27640	37722	47674				
	End	56614					19891	38616	57341	76066				
G8136-SR1	Start	83654			56258	68142	80025	103791						
	Min.	36645			20982	27444	33894	46525						
	End	56614			26372	38255	50138	73905						
G8140-SR1	Start	83654		55029	84430	99130								
	Min.	36645		20291	36235	44048								
	End	56614		25143	54544	69244								
G81T32-SR1	Start	83654	49777	68502	87227									
	Min.	36645	17338	27640	37722									
	End	56614	19891	38616	57341									
G81T36-SR1	Start	83654	80025	103791										
	Min.	36645	33894	46525										
	End	56614	50138	73905										
G10128-SR4	Start	113922							74116	92685	111253	148389	166957	
	Min.	46963							22631	33767	43949	63986	73855	
	End	67340							22631	41200	59768	96904	115472	
G10132-SR4	Start	113922					72009	96415	120822	145228	169634	218447	242853	
	Min.	46963					20524	35865	49143	62306	75278	101220	114191	
	End	67340					20524	44931	69337	93743	118150	166962	191369	
G10136-SR4	Start	113922			80686	96197	111709	142732	173755	204778	235801			
	Min.	46963			26956	35742	44196	60980	77467	93955	110443			
	End	67340			29201	44712	60224	91247	122270	153293	184316			
G10140-SR4	Start	113922		79243	117661	136870	156079	194497	232915					
	Min.	46963		26103	47427	57853	68073	88491	108909					
	End	67340		27758	66176	85385	104594	143012	181430					
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Operating Pressure (Bar)												



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Pressure Torque Output Start/Min./End (Nm)														
G101T32-SR4	Start	113922	72009	96415	120822	169634	194041	218447									
	Min.	46963	20524	35865	49143	75278	88249	101220									
	End	67340	20524	44931	69337	118150	142556	166962									
G101T36-SR4	Start	113922	111709	142732	173755	235801											
	Min.	46963	44196	60980	77467	110443											
	End	67340	60224	91247	122270	184316											
G101T40-SR4	Start	113922	156079	194497	232915												
	Min.	46963	68073	88491	108909												
	End	67340	104594	143012	181430												
G10128-SR3	Start	141885									97298	134435	153003				
	Min.	57244									28861	51120	61198				
	End	79966									28861	65997	84566				
G10132-SR3	Start	141885								106868	131274	155680	204493	228899			
	Min.	57244								35604	49404	62651	88905	101876			
	End	79966								38430	62837	87243	136056	160462			
G10136-SR3	Start	141885					97754	128777	159800	190823	221846						
	Min.	57244					29317	48020	64887	81640	98128						
	End	79966					29317	60340	91363	122386	153409						
G10140-SR3	Start	141885			103707	122916	142125	180543	218961								
	Min.	57244			33734	44724	55294	76146	96594								
	End	79966			35269	54478	73687	112105	150523								
G101T32-SR3	Start	141885		106868	155680	180087	204493										
	Min.	57244		35604	62651	75898	88905										
	End	79966		38430	87243	111649	136056										
G101T36-SR3	Start	141885	97754	128777	159800	221846											
	Min.	57244	29317	48020	64887	98128											
	End	79966	29317	60340	91363	153409											
G101T40-SR3	Start	141885	142125	180543	218961												
	Min.	57244	55294	76146	96594												
	End	79966	73687	112105	150523												
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)														
			3	3.5	4	5	5.5	6	7	8	9	10	12	13			
			Operating Pressure (Bar)														



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Pressure Torque Output Start/Min./End (Nm)												
G10128-SR2	Start	155488											117617	136185
	Min.	65143											42379	52639
	End	95182											50962	69530
G10132-SR2	Start	155488								114456	138862	187675	212081	
	Min.	65143								40602	54092	80482	93453	
	End	95182								47802	72208	121021	145427	
G10136-SR2	Start	155488						111960	142983	174005	205028			
	Min.	65143						39198	56328	73167	89705			
	End	95182						45305	76328	107351	138374			
G10140-SR2	Start	155488				106098	125307	163725	202143					
	Min.	65143				35868	46704	67587	88171					
	End	95182				39443	58652	97070	135488					
G101T32-SR2	Start	155488		90050	138862	163269	187675							
	Min.	65143		23395	54092	67339	80482							
	End	95182		23395	72208	96614	121021							
G101T36-SR2	Start	155488	111960	142983	205028									
	Min.	65143	39198	56328	89705									
	End	95182	45305	76328	138374									
G101T40-SR2	Start	155488	125307	163725	202143									
	Min.	65143	46704	67587	88171									
	End	95182	58652	97070	135488									
G10132-SR1	Start	192709									118925	167738	192144	
	Min.	79221									31069	62997	76244	
	End	113220									31069	79882	104288	
G10136-SR1	Start	192709							123046	154069	185091			
	Min.	79221							35189	55320	72415			
	End	113220							35189	66212	97235			
G10140-SR1	Start	192709						143788	182206					
	Min.	79221						49538	70849					
	End	113220						55932	94350					
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Operating Pressure (Bar)												



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)											
		3	3.5	4	5	5.5	6	7	8	9	10	12	13
		Pressure Torque Output Start/Min./End (Nm)											
G101T32-SR1	Start	192709				118925	143332	167738					
	Min.	79221				31069	49282	62997					
	End	113220				31069	55476	79882					
G101T36-SR1	Start	192709			123063	185113							
	Min.	79221			35189	72415							
	End	113220			35189	97235							
G101T40-SR1	Start	192709		143788	182206								
	Min.	79221		49538	70849								
	End	113220		55932	94350								
G13140-SR4	Start	249866						193160	242228	291296	340364	438500	487569
	Min.	99270						63485	91298	117931	144525	196682	222760
	End	136001						67309	116377	165445	214513	312650	361718
G13144-SR4	Start	249866					177356	207144	266721	326298	385875	445452	
	Min.	99270					51505	71621	104592	136929	168713	200376	
	End	136001					51505	81293	140870	200447	260024	319601	
G13148-SR4	Start	249866				205115	240658	276202	347288	418374	489461		
	Min.	99270				70480	90446	109738	148205	185985	223766		
	End	136001				79264	114808	150351	221437	292523	363610		
G13152-SR4	Start	249866			184070	267667	309466	351264	434861	518457			
	Min.	99270			58028	105106	127793	150318	194747	239177			
	End	136001			58220	141816	183615	225413	309010	392607			
G131T40-SR4	Start	249866		193160	242228	340364	389432	438500					
	Min.	99270		63485	91298	144525	170603	196682					
	End	136001		67309	116377	214513	263581	312650					
G131T44-SR4	Start	249866	207144	266721	326298	445452	505028						
	Min.	99270	71621	104592	136929	200376	232039						
	End	136001	81293	140870	200447	319601	379177						
G131T48-SR4	Start	249866	276202	347288	418374								
	Min.	99270	109738	148205	185985								
	End	136001	150351	221437	292523								
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)											
		3	3.5	4	5	5.5	6	7	8	9	10	12	13
		Operating Pressure (Bar)											



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)															
			3	3.5	4	5	5.5	6	7	8	9	10	12	13				
			Pressure Torque Output Start/Min./End (Nm)															
G131T52-SR4	Start	249866	351264	434861	518457													
	Min.	99270	150318	194747	239177													
	End	136001	225413	309010	392607													
G13140-SR3	Start	308129									259098	308166	406303	455371				
	Min.	121594									89359	116809	170075	196343				
	End	165132									101049	150118	248254	297322				
G13144-SR3	Start	308129							234523	294100	353677	413254						
	Min.	121594							74962	109043	141511	173847						
	End	165132							76474	136051	195628	255205						
G13148-SR3	Start	308129						244004	315090	386176	457263							
	Min.	121594						80570	120567	159151	197349							
	End	165132						85955	157041	228128	299214							
G13152-SR3	Start	308129			235469	277268	319066	402663	486260									
	Min.	121594			75522	99577	122725	168099	212760									
	End	165132			77420	119219	161017	244614	328211									
G131T40-SR3	Start	308129		210030	308166	357234	406303											
	Min.	121594		51981	116809	143442	170075											
	End	165132		51981	150118	199186	248254											
G131T44-SR3	Start	308129		234523	294100	413254	472830											
	Min.	121594		74962	109043	173847	205622											
	End	165132		76474	136051	255205	314782											
G131T48-SR3	Start	308129	244004	315090	386176													
	Min.	121594	80570	120567	159151													
	End	165132	85955	157041	228128													
G131T52-SR3	Start	308129	319066	402663	486260													
	Min.	121594	122725	168099	212760													
	End	165132	161017	244614	328211													
G13140-SR2	Start	369313										269669	367805	416873				
	Min.	146390										82493	139881	166513				
	End	199963										82493	180629	229697				
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)															
			3	3.5	4	5	5.5	6	7	8	9	10	12	13				
			Operating Pressure (Bar)															



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Pressure Torque Output Start/Min./End (Nm)												
G13144-SR2	Start	369313									315179	374756		
	Min.	146390									110512	143653		
	End	199963									128003	187580		
G13148-SR2	Start	369313						276593	347679	418765				
	Min.	146390						88092	128789	167540				
	End	199963						89416	160503	231589				
G13152-SR2	Start	369313						280569	364165	447762				
	Min.	146390						90448	137905	183279				
	End	199963						93392	176989	260586				
G131T40-SR2	Start	369313			269669	318737	367805							
	Min.	146390			82493	112513	139881							
	End	199963			82493	131561	180629							
G131T44-SR2	Start	369313		255603	374756	434333								
	Min.	146390		68426	143653	175990								
	End	199963		68426	187580	247157								
G131T48-SR2	Start	369313	276593	347679										
	Min.	146390	88092	128789										
	End	199963	89416	160503										
G131T52-SR2	Start	369313	280569	364165	447762									
	Min.	146390	90448	137905	183279									
	End	199963	93392	176989	260586									
G13140-SR1	Start	427576											335607	384675
	Min.	168713											110014	138115
	End	229094											116233	165301
G13144-SR1	Start	427576										342558		
	Min.	168713										114125		
	End	229094										123184		
G13148-SR1	Start	427576									386568			
	Min.	168713									139179			
	End	229094									167193			
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		3	3.5	4	5	5.5	6	7	8	9	10	12	13	
		Operating Pressure (Bar)												



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G-Series

Torque Ratings – (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)												
			3	3.5	4	5	5.5	6	7	8	9	10	12	13	
			Pressure Torque Output Start/Min./End (Nm)												
G13152-SR1	Start	427576								331968	415564				
	Min.	168713								107861	155486				
	End	229094								112593	196190				
G131T40-SR1	Start	427576							335607						
	Min.	168713							110014						
	End	229094							116233						
G131T44-SR1	Start	427576				342558	402135								
	Min.	168713				114125	147934								
	End	229094				123184	182761								
G131T48-SR1	Start	427576			315481										
	Min.	168713			96107										
	End	229094			96107										
G131T52-SR1	Start	427576		331968	415564										
	Min.	168713		107861	155486										
	End	229094		112593	196190										
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)												
			3	3.5	4	5	5.5	6	7	8	9	10	12	13	
			Operating Pressure (Bar)												

