



• NAMUR

The shaft driven accessory interface conforms to the NAMUR standard and is identical on all G-Series actuators, allowing for standardization of accessory mounting hardware and installation practices

- Pneumatic and hydraulic scotch-yoke actuators
- Automates ball, butterfly, plug valves and any other 90° rotating mechanisms
- Salt Spray Testing per ASTM B117 criteria. Construction features prevent water ingress, allowing G-Series actuators to meet IP 66 and IP 67M specifications and severe high pressure water deluge test

• Operating Ranges

G-Series double acting actuators produce guaranteed minimum torque outputs from 10,000 lb-in. up to 6,000,000 lb-in. The spring return units produce spring torques from 2,500 lb-in. to 3,000,000 lb-in.

- Standard operating pressures:
Pneumatic — to 200 psig (14 BAR)
- Standard operating temperature is -20°F to +200°F (-29°C to +93°C)
Optional trims available:
0°F to +350°F (-18°C to +177°C)
-50°F to +180°F (-46°C to +82°C)
- Mechanical and hydraulic manual overrides are available
- MSS and ISO Valve Mounting
The G-Series valve interface meets the dimensional requirements of MSS SP-101 or ISO 5211 defined for each torque range

Double Acting G1 Pneumatic Actuator Torque Chart

Part No.	Actuator Model	Stroke Position	Operating Pressure (psig)											
			40	50	60	70	80	90	100	110	120	150	175	200
			Output Torque (in-lbs)											
3TG100800	G01008	Start/End	12465	14543	16620	18698	20775	22853	24930	31163	36356	41550		
		Minimum			6579	7675	8772	9868	10965	12061	13158	16447	19188	21929
3TG100900	G01009	Start/End	10593	13241	15890	18538	21186	23835	26483	29131	31779	39724		
		Minimum	5591	6989	8386	9784	11182	12579	13977	15375	16772	20966		
3TG101000	G01010	Start/End	14046	17557	21069	24580	28092	31603	35115	38626				
		Minimum	7413	9266	11120	1973	14826	16680	18533	20386				
3TG101200	G01012	Start/End	20133	25166	30199	35232								
		Minimum	10626	13282	15938	18595								
3TG101400	G01014	Start/End	24482	30603	36723									
		Minimum	12921	16152	19382									

Torque Ratings G Series

All published torques are guaranteed minimum values.

G Series Pneumatic Double-Acting Actuator Torque Chart

Part No.	Actuator Model	Stroke Position	Operating Pressure (psig)											
			40	50	60	70	80	90	100	110	120	150	175	200
			Output Torque (in-lbs)											
3TG200900	G2009	Start/End Minimum			11844	22441	25647	28852	32058	35264	38470	48087	56102	
3TG201000	G2010	Start/End Minimum		21254	25504	29755	34006	38257	42507	46758	51009			
3TG201200	G2012	Start/End Minimum	24371	30464	36556	42649	48742	54835	60927					
3TG201400	G2014	Start/End Minimum	29636	37046	44455	51864	59273							
3TG201600	G2016	Start/End Minimum	39118	48897	58677									
3TG301000	G3010	Start/End Minimum				35888	41015	46142	51269	56396	61523	76903	89721	102538
3TG301200	G3012	Start/End Minimum		36847	44216	51585	58955	66324	73693	81063	88432			
3TG301400	G3014	Start/End Minimum	35887	44859	53831	62803	71775	80747	89719	98690				
3TG301600	G3016	Start/End Minimum	47430	59288	71145	83003	94860							
3TG302000	G3020	Start/End Minimum	75266	94082										

Spring Return G1 Pneumatic Actuator Torque Chart

Part No.	Actuator Model	Spring Torque (in-lbs) Start/Min/End	Operating Pressure (psig)											
			40	50	60	70	80	90	100	110	120	150	175	200
			Torque Output Start/Min/End (in-lbs)											
3TG100804	G01008-SR4	11614					5551	7628	9706	11783	13861	20093	25287	30481
		5708					2439	3543	4648	5752	6849	10138	12880	15621
		10015					3783	5861	7938	10016	12093	18326	23520	28713
3TG100904	G01009-SR4	11614			4820	7469	10117	12765	15414	18062	20710	28655		
		5708			2051	3459	4866	6271	7669	9066	10464	14657		
		10015			3053	5701	8350	10998	13646	16295	18943	26888		
3TG101004	G01010-SR4	11614		6488	10000	13511	17023	20534	24046	27557				
		5708		2938	4804	6664	8518	10371	12224	14078				
		10015		4721	4232	11744	15255	18767	22278	25790				
3TG101204	G01012-SR4	11614	9063	14096	19130	24163								
		5708	4306	6973	9630	12286								
		10015	7296	12329	17362	22395								
3TG101404	G01014-SR4	11614	13413	19534	25654									
		5708	6613	9843	13073									
		10015	11646	17766	23887									
3TG100803	G01008-SR3	13598						6048	8126	10203	12281	18513	23707	28901
		6605						2523	3631	4735	5839	9143	11884	14625
		11445						3669	5746	7824	9901	16434	21327	26521
3TG100903	G01009-SR3	13598				5889	8537	11185	13834	16482	19130	27075		
		6605				2437	3850	5257	6665	8071	9469	13662		
		11445				3509	6157	8806	11454	14102	16751	24695		
3TG101003	G01010-SR3	13598		4908	8420	11931	15443	18954	22466	25977				
		6605		1904	3787	5653	7520	9376	11229	13082				
		11445		2529	6040	9552	13063	16574	20086	23597				
3TG101203	G01012-SR3	13598	7483	12516	17550	22583								
		6605	3289	5964	8634	11291								
		11445	5104	10137	15170	20203								
3TG101403	G01014-SR3	13598	11833	17954	24074									
		6605	5601	8848	12078									
		11445	9453	15574	21695									

Spring Return G1 Pneumatic Actuator Torque Chart

Part No.	Actuator Model	Spring Torque (in-lbs) Start/Min/End	Operating Pressure (psig)											
			40	50	60	70	80	90	100	110	120	150	175	200
			Torque Output Start/Min/End (in-lbs)											
3TG100802	G01008-SR2	15526								8443	10521	16753	21947	27141
		7352								3692	4796	8109	10857	13598
		13037								5692	7770	14002	19196	24390
3TG100902	G01009-SR2	15526					6777	9425	12074	14722	17370	25315		
		7352					2800	4214	5622	7029	8437	12635		
		13037					4026	6674	3923	11971	14619	22564		
3TG101002	G01010-SR2	15526			6660	10171	13683	17194	20706	24217				
		7352			2736	4611	6477	8348	10202	12055				
		13037			3909	7420	10932	14443	17955	21466				
3TG101202	G01012-SR2	15526	5723	10756	15789	20823								
		7352	2228	4922	7597	10264								
		13037	2972	8005	13039	18072								
3TG101402	G01014-SR2	15526	10073	16194	22314									
		7352	4559	7811	11051									
		13037	7322	13443	19563									
3TG100801	G0108-SR1	18470									8599	14831	20025	25219
		8749									3364	6703	9463	12223
		14776									4516	10748	15942	21136
3TG100901	G0109-SR1	18470						7503	1152	12800	15448	23393		
		8749						2764	4207	5623	7030	11253		
		14776						3420	6069	8717	11365	19310		
3TG101001	G01010-SR1	18470				8249	11761	15272	18784	22295				
		8749				3174	5071	6937	8803	10669				
		14776				4166	7678	11189	14701	18212				
3TG101201	G01012-SR1	18470		8834	13868	18901								
		8749		3492	6190	8865								
		14776		4752	9785	14818								
3TG101401	G01014-SR1	18470	8151	14272	20392									
		8749	3121	6405	9658									
		14776	4068	10189	16309									

Torque Ratings - G Series

All published torques are guaranteed minimum values.

Spring-Return Actuator

Part No.	Actuator Model	Spring Torque (in-lbs) Start/Min/End	Operating Pressure (psig)								
			40	50	60	70	80	90	100	110	120
			Torque Output Start/Min/End (in-lbs)								
3TG200902	G2009-SR2	26818 12882 22074									14072 5964 8829
3TG201002	G2010-SR2	26818 12882 22074						13859 5848 8616	18810 8110 12866	22361 10369 17117	26611 12628 21368
3TG201202	G2012-SR2	26818 12882 22074			12159 4926 6915	18252 8185 13008	24344 11423 19101	30437 14661 25194	36530 17896 31286		
3TG201402	G2014-SR2	26818 12882 22071		12648 5191 7404	20057 9145 14814	27466 13082 22223	34875 17020 29632				
3TG201602	G2016-SR2	26818 12882 22074	14720 6308 9477	24500 11506 19256	34279 16703 29036						
3TG200901	G2009-SR1	30997 14742 25004									
3TG201001	G2010-SR1	30997 14742 25004							14871 5957 8248	19122 8249 12498	23373 10508 16749
3TG201201	G2012-SR1	30997 14742 25004					21106 9303 14482	27199 12541 20575	33291 15779 26668		
3TG201401	G2014-SR1	30997 14742 25004			16819 7014 10195	24228 10962 17604	31637 14900 25013				
3TG201601	G2016-SR1	30997 14742 25004		21261 9386 14638	31041 14583 24417						
3TG200904	G2009-SR4	20678 9903 16917						10155 4185 5998	13361 5900 9204	16567 7603 12410	19772 9307 15616
3TG201004	G2010-SR4	20678 9903 16917				11058 4675 6901	15308 6935 11152	19559 9194 15402	23810 11453 19653	28061 13712 23904	32311 15956 28155
3TG201204	G2012-SR4	20678 9903 16917		11766 5052 7609	17859 8290 13702	23952 11528 19795	30044 14760 25888	36137 17975 31980	42230 21191 38073		
3TG201404	G2014-SR4	20678 9903 16917	10939 4610 6782	18348 8550 14191	25757 12488 21600	33166 16407 29009	40575 20318 36419				
3TG201604	G2016-SR4	20678 9903 16917	20420 9652 16264	30200 14842 26043	39979 20003 35823						
3TG200903	G2009-SR3	24139 11457 19390								13833 5833 8584	17039 7539 11790
3TG201003	G2010-SR3	24139 11457 19390					12575 5150 7326	16826 7426 11577	21077 9685 15828	25327 11944 20078	29578 14203 24329
3TG201203	G2012-SR3	24139 11457 19390			15126 6522 9877	21219 9760 15970	27311 12998 22062	33404 16236 28155	39497 19460 34248		

Spring-Return Actuator (cont.)

Part No.	Actuator Model	Spring Torque (in-lbs) Start/Min/End	Operating Pressure (psig)								
			40	50	60	70	80	90	100	110	120
			Torque Output Start/Min/End (in-lbs)								
3TG201403	G2014-SR3	24139 11457 19390		15615 6782 10366	23024 10720 17775	30433 14657 25184	37842 18587 32593				
3TG201603	G2016-SR3	24139 11457 19390	17687 7883 12438	27467 13081 22218	37246 18273 31997						
3TG301002	G3010-SR2	49017 22571 36975									20655 6848 7346
3TG301202	G3012-SR2	49017 22571 36975						25456 9568 12147	32826 13568 19516	40195 17516 26886	47564 21433 34255
3TG301402	G3014-SR2	49017 22571 36975				21936 7591 8626	30907 12527 17598	39879 17349 26570	48851 22117 35542	57823 26885 44514	
3TG301602	G3016-SR2	49017 22571 36975			30278 12185 16968	42135 18548 28826	53993 24849 40683				
3TG302002	G3020-SR2	49017 22571 36975	34398 14422 21089	53215 24436 39905							
3TG301001	G3010-SR1	54045 25307 42224									
3TG301201	G3012-SR1	54045 25307 42224							27024 10497 13960	34394 14497 21329	41763 18420 28698
3TG301401	G3014-SR1	54045 25307 42224					25106 9456 12041	34078 14326 21013	43050 19104 29985	52022 23873 38957	
3TG301601	G3016-SR1	54045 25307 42224			24476 9107 11412	36334 15535 23269	48191 21837 35127				
3TG302001	G3020-SR1	54045 25307 42224	28597 11351 15532	47413 21423 34349							
3TG301004	G3010-SR4	36568 17123 28566							19695 7867 10851	24822 10637 15978	29949 13361 21105
3TG301204	G3012-SR4	36568 17123 28566				20012 8038 11168	27381 11996 18537	34751 15913 25906	42120 19830 33276	49489 23746 40676	56858 27663 48014
3TG301404	G3014-SR4	36568 17123 28566			22258 9257 13414	31239 14042 22385	40201 18810 31357	49173 23578 40329	58145 28347 49301	67117 33089 58273	
3TG301604	G3016-SR4	36568 17123 28566	15857 5764 7013	27714 12174 18870	39572 18475 30728	51429 24777 42585	63287 31068 54443				
3TG301003	G3010-SR3	42128 19573 32379								20609 7746 9833	25735 10528 14960
3TG301203	G3012-SR3	42128 19573 32379					23167 9135 12392	30537 13115 19761	37906 17032 27130	45275 20949 34500	52645 24865 41869
3TG301403	G3014-SR3	42128 19573 32379			18044 6305 7268	27016 11223 15240	35988 16012 25212	44960 20781 34184	53931 25549 43156	62903 30317 52127	
3TG301603	G3016-SR3	42128 19573 32379		23501 9315 12725	35358 15678 24582	47216 21980 36440	59073 28282 48297				
3TG302003	G3020-SR3	42128 19573 32379	39479 17868 28703	58295 27868 47519							