

Bettis GC-Series

Pneumatic Double-Acting and Spring-Return Actuator Torque Chart Imperial

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Torque - Pneumatic

Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC01x08	Start	Outboard	6,589	8,351	10,113	11,876	13,639	15,402	17,166	18,930	20,694	22,458	24,223	25,988	27,753	29,519	31,284	33,050	Exceeds MOP	40	192	33,404	
	Min		4,159	5,234	6,308	7,383	8,458	9,533	10,608	11,683	12,759	13,834	14,909	15,985	17,060	18,136	19,212	20,288				20,503	
	End		9,499	12,040	14,581	17,122	19,664	22,206	24,749	27,292	29,836	32,379	34,924	37,468	40,013	42,559	45,105	47,651				48,160	
	Start	Inboard	9,335	11,835	14,335	16,835	19,336	21,837	24,339	26,841	29,343	31,846	34,349	36,852	39,356	41,861	44,366	46,871				47,372	
	Min		4,098	5,157	6,217	7,276	8,336	9,396	10,455	11,515	12,575	13,635	14,695	15,756	16,816	17,876	18,937	19,997				20,210	
	End		6,464	8,194	9,925	11,657	13,388	15,120	16,852	18,584	20,317	22,050	23,783	25,517	27,250	28,984	30,719	32,453				32,800	
GC01x09	Start	Outboard	8,452	10,694	12,935	15,177	17,419	19,661	21,904	24,147	26,390	28,634	30,878	33,122	Exceeds MOP					40	151	33,347	
	Min		5,309	6,675	8,041	9,407	10,773	12,139	13,506	14,873	16,239	17,606	18,973	20,340								20,476	
	End		12,186	15,417	18,649	21,881	25,114	28,347	31,580	34,814	38,049	41,283	44,519	47,755								48,078	
	Start	Inboard	12,022	15,212	18,402	21,593	24,784	27,976	31,169	34,361	37,554	40,748	43,942	47,137								47,456	
	Min		5,249	6,600	7,952	9,303	10,655	12,006	13,358	14,710	16,062	17,414	18,766	20,118								20,253	
	End		8,324	10,533	12,742	14,951	17,161	19,371	21,581	23,792	26,003	28,214	30,426	32,637								32,859	
GC01x10	Start	Outboard	11,289	14,255	17,222	20,189	23,156	26,124	29,092	32,061	Exceeds MOP								40	114	33,248		
	Min		7,052	8,859	10,666	12,473	14,280	16,088	17,895	19,702											20,425		
	End		16,276	20,553	24,830	29,108	33,386	37,665	41,944	46,224											47,936		
	Start	Inboard	16,111	20,347	24,583	28,819	33,056	37,294	41,531	45,770											47,465		
	Min		6,996	8,789	10,582	12,375	14,168	15,962	17,755	19,549											20,266		
	End		11,156	14,088	17,021	19,954	22,888	25,822	28,756	31,691											32,865		
GC01x12	Start	Outboard	16,305	20,551	24,796	29,042	33,288	Exceeds MOP											40	80	33,288		
	Min		10,131	12,715	15,300	17,884	20,468														20,468		
	End		23,509	29,629	35,750	41,871	47,993														47,993		
	Start	Inboard	23,343	29,421	35,501	41,581	47,661														47,661		
	Min		10,081	12,652	15,224	17,795	20,367														20,367		
	End		16,162	20,371	24,581	28,791	33,001														33,001		
GC01x14	Start	Outboard	19,878	25,036	30,194	Exceeds MOP													40	66	33,289		
	Min		12,328	15,467	18,606																20,490		
	End		28,659	36,095	43,533																47,995		
	Start	Inboard	28,492	35,887	43,283																47,720		
	Min		12,281	15,409	18,537																20,413		
	End		19,728	24,848	29,969																33,042		

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Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC2x09	Start	Outboard	10,233	12,946	15,660	18,374	21,088	23,803	26,518	29,234	31,950	34,666	37,383	40,100	42,817	45,535	48,253	Exceeds MOP	40	187	10,233	50,156	
	Min		6,426	8,079	9,732	11,386	13,040	14,694	16,348	18,002	19,656	21,310	22,965	24,619	26,274	27,929	29,584				6,426	30,742	
	End		14,751	18,663	22,575	26,487	30,400	34,314	38,228	42,143	46,058	49,974	53,890	57,807	61,724	65,642	69,561				14,751	72,304	
	Start	Inboard	14,550	18,410	22,272	26,134	29,996	33,859	37,723	41,587	45,452	49,317	53,183	57,049	60,916	64,783	68,651				14,550	71,359	
	Min		6,353	7,988	9,624	11,260	12,895	14,531	16,167	17,803	19,439	21,076	22,712	24,349	25,985	27,622	29,259				6,353	30,405	
	End		10,079	12,754	15,429	18,104	20,780	23,456	26,132	28,809	31,486	34,164	36,842	39,520	42,199	44,878	47,558				10,079	49,434	
GC2x10	Start	Outboard	13,667	17,258	20,850	24,442	28,034	31,627	35,221	38,814	42,408	46,003	49,598	Exceeds MOP					40	141	13,667	49,957	
	Min		8,536	10,723	12,910	15,098	17,285	19,472	21,660	23,848	26,036	28,224	30,412								8,536	30,631	
	End		19,702	24,879	30,057	35,235	40,414	45,593	50,773	55,954	61,135	66,317	71,499								19,702	72,017	
	Start	Inboard	19,499	24,625	29,752	34,879	40,007	45,136	50,265	55,395	60,525	65,656	70,788								19,499	71,301	
	Min		8,468	10,637	12,807	14,978	17,148	19,318	21,489	23,659	25,830	28,001	30,172								8,468	30,389	
	End		13,508	17,059	20,611	24,163	27,715	31,268	34,821	38,374	41,928	45,483	49,038								13,508	49,393	
GC2x12	Start	Outboard	19,739	24,878	30,018	35,158	40,299	45,440	50,582	Exceeds MOP									40	100	19,739	50,582	
	Min		12,263	15,390	18,518	21,646	24,775	27,903	31,031												12,263	31,031	
	End		28,456	35,864	43,273	50,683	58,094	65,505	72,918												28,456	72,918	
	Start	Inboard	28,250	35,607	42,965	50,323	57,682	65,042	72,403												28,250	72,403	
	Min		12,200	15,312	18,425	21,537	24,650	27,763	30,875												12,200	30,875	
	End		19,570	24,666	29,763	34,861	39,959	45,058	50,157												19,570	50,157	
GC2x14	Start	Outboard	24,065	30,309	36,554	42,800	49,046	Exceeds MOP											40	81	24,065	49,671	
	Min		14,922	18,721	22,521	26,321	30,121														14,922	30,501	
	End		34,692	43,693	52,696	61,699	70,704														34,692	71,604	
	Start	Inboard	34,484	43,434	52,384	61,336	70,288														34,484	71,184	
	Min		14,864	18,649	22,434	26,220	30,006														14,864	30,384	
	End		23,889	30,089	36,289	42,490	48,692														23,889	49,312	
GC2x16	Start	Outboard	31,915	40,152	48,391	Exceeds MOP													40	61	31,915	49,214	
	Min		19,728	24,739	29,749																19,728	30,250	
	End		46,007	57,882	69,759																46,007	70,946	
	Start	Inboard	45,797	57,619	69,443																45,797	70,625	
	Min		19,678	24,676	29,675																19,678	30,175	
	End		31,725	39,915	48,106																31,725	48,925	

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Torque - Pneumatic

Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200					
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC3x10	Start	Outboard	16,467	20,799	25,132	29,465	33,798	38,132	42,467	46,802	51,137	55,473	59,810	64,147	68,485	72,823	77,162	81,501	85,841	40	200	85,841		
	Min		10,346	12,998	15,650	18,303	20,955	23,608	26,261	28,914	31,567	34,221	36,874	39,528	42,182	44,836	47,490	50,144	52,799			52,799		
	End		24,046	30,372	36,698	43,025	49,353	55,682	62,011	68,342	74,673	81,004	87,337	93,670	100,004	106,339	112,675	119,011	125,348			125,348		
	Start	Inboard	23,651	29,878	36,106	42,334	48,563	54,793	61,024	67,255	73,487	79,720	85,954	92,188	98,423	104,659	110,896	117,134	123,372			123,372		
	Min		10,203	12,820	15,437	18,054	20,671	23,288	25,905	28,523	31,141	33,758	36,376	38,995	41,613	44,231	46,850	49,469	52,088			52,088		
	End		16,187	20,448	24,710	28,972	33,236	37,499	41,763	46,028	50,293	54,559	58,825	63,091	67,359	71,626	75,895	80,164	84,433			84,433		
GC3x12	Start	Outboard	23,821	30,028	36,235	42,443	48,652	54,861	61,071	67,281	73,492	79,704	85,916	Exceeds MOP							40	142	87,159	
	Min		14,883	18,680	22,478	26,275	30,073	33,871	37,670	41,468	45,267	49,066	52,865										53,625	
	End		34,784	43,847	52,912	61,977	71,043	80,110	89,178	98,246	107,316	116,387	125,458										127,272	
	Start	Inboard	34,382	43,344	52,308	61,272	70,238	79,204	88,171	97,139	106,108	115,077	124,048										125,842	
	Min		14,747	18,511	22,274	26,038	29,803	33,567	37,331	41,096	44,861	48,626	52,392										53,145	
	End		23,530	29,664	35,798	41,933	48,069	54,205	60,342	66,480	72,618	78,756	84,896										86,124	
GC3x14	Start	Outboard	29,060	36,605	44,151	51,697	59,245	66,793	74,342	81,891	Exceeds MOP										40	117	87,176	
	Min		18,120	22,735	27,351	31,967	36,583	41,199	45,815	50,432													53,664	
	End		42,434	53,452	64,471	75,490	86,511	97,533	108,556	119,580													127,298	
	Start	Inboard	42,027	52,943	63,859	74,777	85,696	96,616	107,537	118,459													126,105	
	Min		17,989	22,572	27,155	31,739	36,322	40,906	45,490	50,074													53,283	
	End		28,762	36,233	43,704	51,176	58,649	66,122	73,596	81,071													86,304	
GC3x16	Start	Outboard	38,566	48,525	58,485	68,446	78,408	88,370	Exceeds MOP												40	90	88,370	
	Min		23,971	30,061	36,151	42,241	48,331	54,422															54,422	
	End		56,316	70,859	85,403	99,948	114,494	129,042															129,042	
	Start	Inboard	55,899	70,338	84,778	99,218	113,660	128,103															128,103	
	Min		23,850	29,909	35,969	42,029	48,089	54,149															54,149	
	End		38,256	48,138	58,020	67,903	77,787	87,671															87,671	
GC3x20	Start	Outboard	61,565	77,348	Exceeds MOP																40	56	86,819	
	Min		38,104	47,749																				53,537
	End		89,899	112,947																				126,776
	Start	Inboard	89,461	112,398																				126,161
	Min		38,004	47,625																				53,398
	End		61,225	76,922																				86,341

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Torque - Pneumatic

Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC4x12	Start	Outboard	28,962	36,515	44,068	51,622	59,177	66,732	74,289	81,846	89,404	96,962	104,522	112,082	119,643	127,204	134,767	142,330	149,894	40	200	28,962	149,894
	Min		18,011	22,609	27,206	31,804	36,402	41,001	45,599	50,198	54,797	59,397	63,996	68,596	73,196	77,796	82,397	86,997	91,598			18,011	91,598
	End		41,774	52,668	63,562	74,458	85,355	96,252	107,151	118,052	128,953	139,855	150,758	161,663	172,569	183,475	194,383	205,292	216,202			41,774	216,202
	Start	Inboard	41,100	51,824	62,550	73,277	84,005	94,734	105,464	116,195	126,928	137,661	148,396	159,131	169,868	180,606	191,345	202,085	212,826			41,100	212,826
	Min		17,765	22,301	26,837	31,373	35,910	40,447	44,984	49,522	54,059	58,597	63,135	67,674	72,212	76,751	81,290	85,829	90,369			17,765	90,369
	End		28,461	35,888	43,315	50,744	58,173	65,602	73,033	80,464	87,896	95,329	102,763	110,197	117,632	125,068	132,505	139,942	147,380			28,461	147,380
GC4x14	Start	Outboard	35,358	44,544	53,732	62,920	72,109	81,299	90,490	99,682	108,875	118,068	127,263	136,458	145,654	154,851	164,049	173,248	Exceeds MOP	40	194	35,358	176,928
	Min		21,943	27,534	33,125	38,717	44,309	49,901	55,493	61,086	66,679	72,272	77,865	83,459	89,053	94,647	100,242	105,837				21,943	108,075
	End		50,999	64,249	77,501	90,754	104,008	117,263	130,520	143,778	157,037	170,297	183,559	196,822	210,086	223,352	236,619	249,887				50,999	255,194
	Start	Inboard	50,320	63,401	76,482	89,565	102,650	115,735	128,822	141,910	154,999	168,090	181,182	194,275	207,369	220,465	233,561	246,660				50,320	251,899
	Min		21,703	27,234	32,766	38,298	43,830	49,362	54,895	60,427	65,961	71,494	77,028	82,562	88,096	93,630	99,165	104,700				21,703	106,914
	End		34,846	43,904	52,963	62,023	71,084	80,146	89,208	98,271	107,336	116,401	125,467	134,534	143,601	152,670	161,739	170,810				34,846	174,438
GC4x16	Start	Outboard	46,965	59,098	71,232	83,368	95,504	107,642	119,780	131,920	144,060	156,201	168,344	Exceeds MOP						40	147	46,965	176,844
	Min		29,050	36,432	43,813	51,196	58,578	65,961	73,344	80,727	88,111	95,495	102,879									29,050	108,048
	End		67,740	85,241	102,743	120,247	137,752	155,259	172,767	190,276	207,787	225,299	242,813									67,740	255,074
	Start	Inboard	67,055	84,384	101,715	119,047	136,381	153,716	171,052	188,390	205,730	223,070	240,412									67,055	252,553
	Min		28,822	36,147	43,472	50,798	58,124	65,450	72,776	80,103	87,430	94,757	102,084									28,822	107,214
	End		46,435	58,435	70,437	82,439	94,442	106,447	118,452	130,459	142,466	154,474	166,484									46,435	174,891
GC4x20	Start	Outboard	75,038	94,281	113,525	132,770	152,017	171,264	Exceeds MOP										40	92	75,038	175,114	
	Min		46,214	57,915	69,615	81,316	93,018	104,719													46,214	107,060	
	End		108,232	135,987	163,744	191,503	219,264	247,026													108,232	252,579	
	Start	Inboard	107,530	135,109	162,691	190,274	217,859	245,445													107,530	250,963	
	Min		46,016	57,667	69,318	80,970	92,622	104,274													46,016	106,605	
	End		74,464	93,562	112,662	131,763	150,865	169,969													74,464	173,789	
GC4x24	Start	Outboard	109,727	137,708	165,690	Exceeds MOP													40	63	109,727	174,085	
	Min		67,354	84,359	101,364																67,354	106,466	
	End		158,267	198,626	238,986																158,267	251,095	
	Start	Inboard	157,544	197,722	237,901																157,544	249,955	
	Min		67,191	84,156	101,121																67,191	106,210	
	End		109,098	136,921	164,744																109,098	173,092	
GC4x28	Start	Outboard	154,515	Exceeds MOP															40	45	154,515	174,244	
	Min		94,959																		94,959	106,955	
	End		222,867																		222,867	251,324	
	Start	Inboard	222,118																		222,118	250,481	
	Min		94,844																		94,844	106,825	
	End		153,814																		153,814	173,456	
GC4x220	Start	Outboard	149,620	Exceeds MOP															40	46	149,620	172,643	
	Min		92,152																		92,152	106,151	
	End		215,807																		215,807	249,014	
	Start	Inboard	215,717																		215,717	248,911	
	Min		92,309																		92,309	106,332	
	End		149,382																		149,382	172,369	

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Double-Acting Actuator

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			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC5x16	Start	Outboard	60,570	76,197	91,825	107,454	123,084	138,715	154,347	169,980	185,614	201,250	216,886	232,524	248,163	263,803	279,443	295,085	310,729	40	60,570	200	310,729
	Min		37,430	46,934	56,439	65,944	75,449	84,955	94,461	103,967	113,474	122,981	132,488	141,996	151,504	161,012	170,521	180,030	189,540		37,430		189,540
	End		87,358	109,895	132,435	154,975	177,518	200,062	222,607	245,154	267,703	290,253	312,805	335,359	357,914	380,470	403,029	425,588	448,150		87,358		448,150
	Start	Inboard	85,776	107,917	130,061	152,205	174,352	196,500	218,649	240,800	262,953	285,107	307,263	329,420	351,579	373,740	395,902	418,066	440,231		85,776		440,231
	Min		36,850	46,210	55,570	64,930	74,291	83,651	93,013	102,374	111,736	121,099	130,461	139,824	149,188	158,551	167,915	177,279	186,644		36,850		186,644
	End		59,450	74,797	90,144	105,492	120,842	136,192	151,544	166,896	182,250	197,605	212,961	228,318	243,676	259,036	274,396	289,757	305,120		59,450		305,120
GC5x20	Start	Outboard	96,869	121,689	146,509	171,332	196,155	220,980	245,806	270,634	295,463	320,294	345,126	369,959	394,794	Exceeds MOP				40	96,869	164	404,728
	Min		59,626	74,715	89,805	104,895	119,986	135,076	150,168	165,260	180,352	195,444	210,537	225,631	240,725						59,626		246,762
	End		139,710	175,506	211,304	247,104	282,905	318,709	354,515	390,323	426,133	461,945	497,759	533,575	569,393						139,710		583,721
	Start	Inboard	138,086	173,475	208,865	244,258	279,653	315,050	350,449	385,850	421,253	456,658	492,065	527,475	562,886						138,086		577,051
	Min		59,080	74,033	88,987	103,941	118,895	133,850	148,805	163,760	178,716	193,673	208,630	223,587	238,545						59,080		244,528
	End		95,706	120,234	144,763	169,293	193,825	218,358	242,893	267,429	291,967	316,505	341,046	365,588	390,131						95,706		399,948
GC5x24	Start	Outboard	141,723	177,840	213,959	250,080	286,202	322,326	358,451	394,578	Exceeds MOP									40	141,723	112	401,804
	Min		86,962	108,911	130,861	152,811	174,761	196,712	218,663	240,615											86,962		245,006
	End		204,401	256,491	308,584	360,679	412,776	464,876	516,978	569,082											204,401		579,503
	Start	Inboard	202,723	254,393	306,066	357,741	409,418	461,098	512,779	564,463											202,723		574,800
	Min		86,458	108,282	130,105	151,930	173,754	195,579	217,405	239,231											86,458		243,597
	End		140,505	176,318	212,131	247,947	283,764	319,582	355,402	391,224											140,505		398,389
GC5x28	Start	Outboard	199,634	250,594	301,557	352,523	403,492	Exceeds MOP												40	199,634	80	403,492
	Min		122,661	153,645	184,630	215,616	246,603														122,661		246,603
	End		287,923	361,420	434,921	508,427	581,938														287,923		581,938
	Start	Inboard	286,177	359,236	432,300	505,369	578,441														286,177		578,441
	Min		122,211	153,084	183,957	214,831	245,706														122,211		245,706
	End		198,346	248,983	299,623	350,266	400,912														198,346		400,912
GC5x32	Start	Outboard	261,812	328,464	395,120	Exceeds MOP														40	261,812	61	401,785
	Min		160,610	201,126	241,643																160,610		245,695
	End		377,600	473,729	569,863																377,600		579,477
	Start	Inboard	375,781	471,454	567,132																375,781		576,700
	Min		160,218	200,637	241,057																160,218		245,099
	End		260,450	326,760	393,074																260,450		399,705
GC5x36	Start	Outboard	332,376	Exceeds MOP																40	332,376	48	399,927
	Min		203,647																		203,647		244,703
	End		479,370																		479,370		576,797
	Start	Inboard	477,468																		477,468		574,513
	Min		203,321																		203,321		244,313
	End		330,929																		330,929		398,189

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Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200					
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC5x220	Start	Outboard	192,691	242,067	291,447	340,829	390,214	Exceeds MOP												40	82	192,691	400,091	
	Min		118,616	148,636	178,656	208,677	238,699															118,616	244,703	
	End		277,909	349,123	420,340	491,562	562,788															277,909	577,033	
	Start	Inboard	277,682	348,837	419,997	491,160	562,327															277,682	576,561	
	Min		118,798	148,863	178,929	208,996	239,064															118,798	245,078	
	End		192,459	241,776	291,096	340,418	389,744															192,459	399,609	
GC5x224	Start	Outboard	282,398	354,371	Exceeds MOP															40	56	282,398	397,556	
	Min		173,289	217,028																			173,289	243,271
	End		407,289	511,093																			407,289	573,377
	Start	Inboard	406,956	510,675																			406,956	572,908
	Min		173,554	217,360																			173,554	243,644
	End		282,058	353,944																			282,058	397,077

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Torque - Pneumatic Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC7x20	Start	Outboard	118,155	148,511	178,870	209,231	239,594	269,959	300,326	330,695	361,066	391,439	421,815	452,193	482,572	512,954	543,338	573,724	604,112	40	118,155	200	604,112
	Min		72,891	91,362	109,834	128,306	146,779	165,253	183,727	202,202	220,677	239,153	257,630	276,108	294,586	313,064	331,544	350,024	368,504		72,891		368,504
	End		170,413	214,195	257,981	301,770	345,562	389,357	433,155	476,956	520,760	564,567	608,377	652,190	696,006	739,825	783,648	827,473	871,301		170,413		871,301
	Start	Inboard	167,899	211,052	254,209	297,368	340,530	383,696	426,864	470,035	513,210	556,387	599,568	642,751	685,938	729,127	772,320	815,516	858,714		167,899		858,714
	Min		72,016	90,268	108,522	126,776	145,030	163,285	181,541	199,798	218,055	236,313	254,571	272,830	291,090	309,350	327,611	345,872	364,135		72,016		364,135
	End		116,387	146,300	176,216	206,134	236,054	265,976	295,900	325,826	355,754	385,685	415,617	445,552	475,489	505,427	535,368	565,311	595,256		116,387		595,256
GC7x24	Start	Outboard	173,227	217,461	261,698	305,937	350,179	394,423	438,669	482,917	527,168	571,421	615,677	659,935	704,195	748,457	Exceeds MOP		40	173,227	178	783,869	
	Min		106,479	133,381	160,283	187,186	214,089	240,993	267,898	294,804	321,711	348,618	375,525	402,434	429,343	456,253				106,479		477,782	
	End		249,842	313,641	377,443	441,249	505,057	568,870	632,685	696,504	760,326	824,152	887,981	951,813	1,015,649	1,079,488				249,842		1,130,562	
	Start	Inboard	247,251	310,401	373,554	436,711	499,870	563,034	626,200	689,370	752,543	815,720	878,900	942,083	1,005,270	1,068,460				247,251		1,119,014	
	Min		105,657	132,354	159,051	185,749	212,447	239,146	265,846	292,547	319,248	345,951	372,653	399,357	426,061	452,766				105,657		474,130	
	End		171,393	215,168	258,946	302,725	346,508	390,292	434,079	477,868	521,659	565,453	609,249	653,047	696,848	740,651				171,393		775,695	
GC7x28	Start	Outboard	244,399	306,870	369,344	431,822	494,305	556,791	619,282	681,776	744,275	Exceeds MOP							40	244,399	126	781,776	
	Min		150,363	188,370	226,378	264,387	302,397	340,409	378,422	416,436	454,451									150,363		477,261	
	End		352,493	442,593	532,699	622,810	712,928	803,051	893,180	983,315	1,073,456									352,493		1,127,543	
	Start	Inboard	349,803	439,228	528,659	618,096	707,538	796,987	886,441	975,902	1,065,368									349,803		1,119,051	
	Min		149,611	187,430	225,251	263,072	300,895	338,720	376,545	414,372	452,200									149,611		474,898	
	End		242,481	304,470	366,463	428,461	490,462	552,467	614,477	676,490	738,508									242,481		775,720	
GC7x32	Start	Outboard	320,785	402,533	484,285	566,042	647,803	729,569	Exceeds MOP										40	320,785	96	778,631	
	Min		197,004	246,725	296,448	346,173	395,899	445,626												197,004		475,464	
	End		462,664	580,567	698,477	816,393	934,316	1,052,246												462,664		1,123,007	
	Start	Inboard	459,866	577,067	694,275	811,490	928,712	1,045,940												459,866		1,116,280	
	Min		196,325	245,878	295,433	344,988	394,546	444,104												196,325		473,840	
	End		318,777	400,020	481,268	562,521	643,778	725,040												318,777		773,799	
GC7x36	Start	Outboard	407,472	511,071	614,677	718,287	Exceeds MOP												40	407,472	76	780,455	
	Min		249,898	312,898	375,900	438,904														249,898		476,706	
	End		587,690	737,110	886,538	1,035,974														587,690		1,125,638	
	Start	Inboard	584,770	733,458	882,154	1,030,857														584,770		1,120,082	
	Min		249,304	312,156	375,010	437,866														249,304		475,580	
	End		405,360	508,429	611,504	714,585														405,360		776,435	

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Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC7x220	Start	Outboard	234,680	294,986	355,296	415,610	475,928	536,251	596,578	Exceeds MOP										40	234,680	100	596,578
	Min		144,793	181,487	218,183	254,881	291,579	328,279	364,980														
	End		338,475	425,453	512,438	599,428	686,424	773,426	860,435														
	Start	Inboard	338,146	425,039	511,939	598,845	685,756	772,674	859,598														
	Min		145,022	181,775	218,530	255,285	292,042	328,800	365,560														
	End		234,401	294,635	354,873	415,116	475,363	535,613	595,869														
GC7x224	Start	Outboard	344,824	432,885	520,952	609,023	697,099	Exceeds MOP											40	344,824	89	776,371	
	Min		211,969	265,524	319,081	372,640	426,200																
	End		497,334	624,344	751,361	878,384	1,005,415																
	Start	Inboard	496,850	623,736	750,630	877,530	1,004,436																
	Min		212,305	265,946	319,588	373,231	426,876																
	End		344,414	432,371	520,333	608,299	696,270																
GC7x228	Start	Outboard	487,169	611,702	736,244	Exceeds MOP													40	487,169	63	773,607	
	Min		299,737	375,503	451,271																		
	End		702,637	882,249	1,061,872																		
	Start	Inboard	701,953	881,390	1,060,839																		
	Min		300,212	376,099	451,988																		
	End		486,590	610,975	735,368																		

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Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC8x24	Start	Outboard	204,508	256,749	308,993	361,239	413,489	465,741	517,995	570,253	622,513	674,776	727,041	779,310	831,581	883,855	936,132	988,411	1,040,694	40	204,508	200	1,040,694
	Min		125,730	157,500	189,271	221,044	252,817	284,590	316,365	348,141	379,917	411,694	443,472	475,251	507,031	538,811	570,593	602,375	634,158		125,730		634,158
	End		295,029	370,393	445,761	521,133	596,509	671,889	747,273	822,661	898,053	973,449	1,048,849	1,124,253	1,199,660	1,275,072	1,350,488	1,425,908	1,501,331		295,029		1,501,331
	Start	Inboard	290,568	364,815	439,067	513,322	587,581	661,844	736,111	810,382	884,657	958,936	1,033,219	1,107,506	1,181,797	1,256,091	1,330,390	1,404,693	1,479,000		290,568		1,479,000
	Min		124,163	155,542	186,922	218,303	249,685	281,068	312,451	343,836	375,221	406,607	437,994	469,382	500,770	532,160	563,550	594,941	626,333		124,163		626,333
	End		201,413	252,879	304,348	355,819	407,294	458,771	510,250	561,733	613,218	664,706	716,197	767,690	819,186	870,685	922,187	973,691	1,025,199		201,413		1,025,199
GC8x28	Start	Outboard	288,778	362,617	436,461	510,310	584,163	658,022	731,886	805,754	879,627	953,505	1,027,388	1,101,276	1,175,169	1,249,067	Exceeds MOP			40	288,778	172	1,263,847
	Min		177,699	222,623	267,549	312,476	357,404	402,334	447,265	492,198	537,133	582,069	627,006	671,945	716,885	761,827					177,699		770,816
	End		416,598	523,120	629,650	736,186	842,729	949,280	1,055,837	1,162,401	1,268,973	1,375,551	1,482,137	1,588,730	1,695,329	1,801,936					416,598		1,823,258
	Start	Inboard	412,011	517,385	622,765	728,152	833,546	938,947	1,044,355	1,149,770	1,255,193	1,360,622	1,466,058	1,571,502	1,676,952	1,782,409					412,011		1,803,502
	Min		176,209	220,762	265,316	309,871	354,428	398,986	443,546	488,107	532,670	577,234	621,800	666,367	710,936	755,506					176,209		764,420
	End		285,594	358,636	431,682	504,733	577,789	650,850	723,916	796,987	870,062	943,143	1,016,228	1,089,318	1,162,413	1,235,513					285,594		1,250,134
GC8x32	Start	Outboard	379,258	475,931	572,610	669,294	765,984	862,680	959,381	1,056,087	1,152,799	1,249,517	Exceeds MOP							40	379,258	131	1,259,189
	Min		232,945	291,745	350,547	409,351	468,157	526,964	585,773	644,583	703,395	762,209									232,945		768,091
	End		547,127	686,591	826,062	965,541	1,105,029	1,244,524	1,384,028	1,523,539	1,663,058	1,802,586									547,127		1,816,539
	Start	Inboard	542,405	680,685	818,974	957,270	1,095,574	1,233,886	1,372,206	1,510,534	1,648,870	1,787,214									542,405		1,801,049
	Min		231,537	289,986	348,438	406,890	465,345	523,801	582,259	640,718	699,180	757,642									231,537		763,489
	End		375,979	471,831	567,688	663,551	759,419	855,293	951,172	1,047,057	1,142,948	1,238,844									375,979		1,248,433
GC8x36	Start	Outboard	481,938	604,496	727,059	849,629	972,206	1,094,788	1,217,376	Exceeds MOP										40	481,938	103	1,254,154
	Min		295,598	370,126	444,657	519,190	593,724	668,260	742,799												295,598		765,160
	End		695,256	872,061	1,048,875	1,225,697	1,402,529	1,579,369	1,756,219												695,256		1,809,275
	Start	Inboard	690,381	865,964	1,041,555	1,217,156	1,392,766	1,568,384	1,744,012												690,381		1,796,702
	Min		294,283	368,484	442,687	516,892	591,099	665,307	739,518												294,283		761,781
	End		478,552	600,260	721,975	843,696	965,424	1,087,157	1,208,897												478,552		1,245,420
GC8x40	Start	Outboard	596,818	748,310	899,809	1,051,315	1,202,827	Exceeds MOP												40	596,818	84	1,263,434
	Min		365,658	457,767	549,878	641,991	734,106														365,658		770,953
	End		860,986	1,079,532	1,298,088	1,516,654	1,735,229														860,986		1,822,662
	Start	Inboard	855,939	1,073,220	1,290,511	1,507,811	1,725,122														855,939		1,812,049
	Min		364,448	456,255	548,064	639,876	731,689														364,448		768,415
	End		593,311	743,924	894,544	1,045,170	1,195,803														593,311		1,256,058

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Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC8x224	Start	Outboard	406,134	509,894	613,661	717,433	821,210	924,993	1,028,782	Exceeds MOP										40	100	406,134	1,028,782
	Min		249,708	312,812	375,917	439,023	502,132	565,242	628,353													249,708	628,353
	End		585,899	735,587	885,283	1,034,987	1,184,699	1,334,419	1,484,147													585,899	1,484,147
	Start	Inboard	585,292	734,825	884,366	1,033,915	1,183,473	1,333,038	1,482,610													585,292	1,482,610
	Min		250,079	313,276	376,475	439,675	502,877	566,081	629,286													250,079	629,286
	End		405,707	509,359	613,016	716,679	820,348	924,022	1,027,701													405,707	1,027,701
GC8x228	Start	Outboard	574,672	721,629	868,597	1,015,573	1,162,560	Exceeds MOP												40	86	574,672	1,250,757
	Min		353,647	443,058	532,471	621,887	711,307															353,647	764,960
	End		829,037	1,041,041	1,253,060	1,465,093	1,677,139															829,037	1,804,374
	Start	Inboard	828,178	1,039,963	1,251,762	1,463,575	1,675,402															828,178	1,802,505
	Min		354,172	443,715	533,261	622,810	712,362															354,172	766,095
	End		574,069	720,872	867,684	1,014,507	1,161,339															574,069	1,249,443
GC8x232	Start	Outboard	755,632	948,258	1,140,895	Exceeds MOP														40	65	755,632	1,237,217
	Min		464,139	581,302	698,468																	464,139	757,053
	End		1,090,095	1,367,982	1,645,884																	1,090,095	1,784,842
	Start	Inboard	1,088,966	1,366,565	1,644,180																	1,088,966	1,782,994
	Min		464,827	582,165	699,505																	464,827	758,177
	End		754,839	947,262	1,139,697																	754,839	1,235,918
GC8x236	Start	Outboard	960,993	1,205,387	Exceeds MOP															40	52	960,993	1,254,267
	Min		589,445	738,065																		589,445	767,789
	End		1,386,353	1,738,923																		1,386,353	1,809,439
	Start	Inboard	1,384,917	1,737,122																		1,384,917	1,807,565
	Min		590,320	739,160																		590,320	768,929
	End		959,984	1,204,121																		959,984	1,252,950

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic
Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)		
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200	
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC10x28	Start	Outboard	377,106	473,597	570,096	666,600	763,111	859,629	956,153	1,052,684	1,149,221	1,245,764	1,342,314	1,438,871	1,535,434	1,632,004	1,728,580	1,825,163	1,921,752	40	200	377,106	1,921,752	
	Min		232,189	290,909	349,630	408,354	467,080	525,807	584,537	643,269	702,002	760,738	819,475	878,215	936,956	995,700	1,054,445	1,113,193	1,171,942			232,189	1,171,942	
	End		543,978	683,168	822,368	961,576	1,100,794	1,240,022	1,379,259	1,518,505	1,657,760	1,797,025	1,936,300	2,075,583	2,214,877	2,354,179	2,493,491	2,632,812	2,772,143			543,978	2,772,143	
	Start	Inboard	535,853	673,008	810,173	947,347	1,084,531	1,221,724	1,358,926	1,496,138	1,633,359	1,770,590	1,907,830	2,045,079	2,182,338	2,319,606	2,456,883	2,594,170	2,731,466			535,853	2,731,466	
	Min		229,313	287,314	345,318	403,324	461,331	519,341	577,352	635,366	693,382	751,399	809,419	867,440	925,464	983,489	1,041,517	1,099,546	1,157,577			229,313	1,157,577	
	End		371,410	466,475	561,547	656,625	751,710	846,801	941,899	1,037,003	1,132,114	1,227,231	1,322,355	1,417,485	1,512,622	1,607,765	1,702,915	1,798,071	1,893,234			371,410	1,893,234	
GC10x32	Start	Outboard	495,966	622,454	748,949	875,452	1,001,962	1,128,479	1,255,004	1,381,536	1,508,075	1,634,622	1,761,177	1,887,738	2,014,307	2,140,884	2,267,467	2,394,058	2,520,657	40	200	495,966	2,520,657	
	Min		304,777	381,729	458,683	535,640	612,599	689,560	766,523	843,489	920,457	997,427	1,074,399	1,151,374	1,228,350	1,305,329	1,382,311	1,459,294	1,536,280			304,777	1,536,280	
	End		715,435	897,895	1,080,365	1,262,846	1,445,338	1,627,840	1,810,353	1,992,877	2,175,411	2,357,956	2,540,512	2,723,078	2,905,655	3,088,242	3,270,840	3,453,449	3,636,069			715,435	3,636,069	
	Start	Inboard	707,151	887,536	1,067,933	1,248,339	1,428,757	1,609,185	1,789,624	1,970,073	2,150,533	2,331,003	2,511,484	2,691,976	2,872,479	3,052,992	3,233,515	3,414,050	3,594,595			707,151	3,594,595	
	Min		302,007	378,268	454,531	530,796	607,064	683,334	759,606	835,880	912,157	988,436	1,064,717	1,141,000	1,217,286	1,293,574	1,369,864	1,446,156	1,522,450			302,007	1,522,450	
	End		490,140	615,169	740,206	865,249	990,300	1,115,358	1,240,424	1,365,497	1,490,578	1,615,665	1,740,760	1,865,863	1,990,973	2,116,090	2,241,215	2,366,347	2,491,486			490,140	2,491,486	
GC10x36	Start	Outboard	630,852	791,343	951,842	1,112,349	1,272,864	1,433,388	1,593,920	1,754,460	1,915,009	2,075,565	2,236,130	2,396,703	Exceeds MOP						40	158	630,852	2,525,168
	Min		387,097	484,714	582,335	679,957	777,582	875,210	972,840	1,070,473	1,168,108	1,265,746	1,363,386	1,461,028									387,097	1,539,144
	End		910,009	1,141,518	1,373,039	1,604,572	1,836,117	2,067,674	2,299,243	2,530,823	2,762,416	2,994,020	3,225,636	3,457,264									910,009	3,642,575
	Start	Inboard	901,546	1,130,935	1,360,337	1,589,750	1,819,176	2,048,613	2,278,062	2,507,523	2,736,996	2,966,480	3,195,977	3,425,486									901,546	3,609,101
	Min		384,448	481,405	578,364	675,326	772,290	869,257	966,226	1,063,198	1,160,172	1,257,149	1,354,128	1,451,110									384,448	1,528,697
	End		624,879	783,874	942,877	1,101,888	1,260,907	1,419,935	1,578,971	1,738,015	1,897,067	2,056,127	2,215,196	2,374,273									624,879	2,501,540
GC10x40	Start	Outboard	781,764	980,265	1,178,774	1,377,293	1,575,820	1,774,357	1,972,903	2,171,458	2,370,022	Exceeds MOP									40	128	781,764	2,528,880
	Min		479,150	599,866	720,585	841,307	962,031	1,082,759	1,203,489	1,324,222	1,444,957												479,150	1,541,548
	End		1,127,702	1,414,040	1,700,392	1,986,756	2,273,134	2,559,525	2,845,929	3,132,346	3,418,776												1,127,702	3,647,930
	Start	Inboard	1,119,038	1,403,206	1,687,387	1,971,582	2,255,789	2,540,010	2,824,244	3,108,491	3,392,751												1,119,038	3,620,169
	Min		476,636	596,726	716,818	836,912	957,010	1,077,110	1,197,214	1,317,320	1,437,428												476,636	1,533,517
	End		775,628	972,590	1,169,562	1,366,543	1,563,533	1,760,532	1,957,540	2,154,558	2,351,584												775,628	2,509,212

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic

Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC10x228	Start	Outboard	748,922	940,582	1,132,256	1,323,942	1,515,642	1,707,355	1,899,080	Exceeds MOP											40	748,922	1,899,080
	Min		461,165	577,801	694,442	811,086	927,734	1,044,386	1,161,043														
	End		1,080,326	1,356,798	1,633,288	1,909,798	2,186,326	2,462,873	2,739,439														
	Start	Inboard	1,079,329	1,355,546	1,631,782	1,908,037	2,184,310	2,460,602	2,736,913														
	Min		461,842	578,650	695,462	812,278	929,097	1,045,921	1,162,748														
	End		748,105	939,556	1,131,021	1,322,499	1,513,989	1,705,493	1,897,009														
GC10x232	Start	Outboard	986,641	1,238,295	1,489,963	1,741,645	1,993,343	2,245,055	2,496,782	Exceeds MOP											40	986,641	2,496,782
	Min		606,341	759,442	912,547	1,065,658	1,218,772	1,371,891	1,525,015														
	End		1,423,238	1,786,250	2,149,283	2,512,338	2,875,414	3,238,511	3,601,629														
	Start	Inboard	1,421,926	1,784,603	2,147,301	2,510,021	2,872,762	3,235,524	3,598,307														
	Min		607,231	760,558	913,888	1,067,223	1,220,563	1,373,907	1,527,255														
	End		985,565	1,236,944	1,488,338	1,739,746	1,991,169	2,242,607	2,494,059														
GC10x236	Start	Outboard	1,256,413	1,576,072	1,895,748	2,215,440	Exceeds MOP														40	1,256,413	2,503,177
	Min		770,981	965,413	1,159,850	1,354,292																	
	End		1,812,387	2,273,497	2,734,632	3,195,790																	
	Start	Inboard	1,810,715	2,271,401	2,732,110	3,192,843																	
	Min		772,114	966,831	1,161,554	1,356,282																	
	End		1,255,043	1,574,354	1,893,680	2,213,024																	
GC10x240	Start	Outboard	1,558,239	1,953,917	2,349,613	Exceeds MOP															40	1,558,239	2,507,897
	Min		955,087	1,195,716	1,436,351																		
	End		2,247,772	2,818,541	3,389,337																		
	Start	Inboard	2,245,699	2,815,942	3,386,211																		
	Min		956,490	1,197,473	1,438,461																		
	End		1,556,539	1,951,786	2,347,051																		

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC01x08-SR0	Start	20,473												Please consult factory	18,658	21,085	23,513	Exceeds MOP	169	18,415	192	23,998	
	Min	10,924													6,012	7,063	8,107			5,907		8,315	
	End	21,272													7,210	8,891	10,572			7,042		10,908	
GC01x08-SR1	Start	15,419								Please consult factory	12,586	15,011	17,438	19,864	22,291	24,718	27,146	Exceeds MOP	128	12,101	192	27,632	
	Min	8,593									4,373	5,412	6,447	7,480	8,512	9,544	10,574			4,164		10,780	
	End	17,638									5,535	7,215	8,895	10,575	12,255	13,936	15,617			5,199		15,953	
GC01x08-SR2	Start	12,894						Please consult factory	9,877	12,302	14,727	17,153	19,579	22,006	24,433	26,860	29,288	Exceeds MOP	107	9,150	192	29,773	
	Min	7,358								3,599	4,634	5,666	6,696	7,726	8,756	9,785	10,813			11,842		3,288	12,048
	End	15,496								4,697	6,376	8,056	9,735	11,415	13,095	14,776	16,457			18,137		4,194	18,474
GC01x08-SR3	Start	11,237					Please consult factory	9,422	11,847	14,272	16,697	19,123	21,549	23,976	26,403	28,830	31,258	Exceeds MOP	94	7,968	192	31,743	
	Min	6,434							3,508	4,541	5,572	6,602	7,631	8,660	9,689	10,717	11,746			12,774		2,886	12,980
	End	13,526							4,673	6,351	8,030	9,710	11,389	13,069	14,749	16,430	18,110			19,791		3,665	20,128
GC01x08-SR4	Start	9,536			Please consult factory	6,340	8,764	11,188	13,613	16,038	18,463	20,889	23,315	25,742	28,169	30,596	33,024	Exceeds MOP	80	6,340	192	33,509	
	Min	5,536				2,364	3,397	4,428	5,457	6,486	7,514	8,543	9,571	10,598	11,626	12,654	13,682			2,364		13,888	
	End	11,760				3,014	4,692	6,370	8,049	9,728	11,408	13,087	14,767	16,447	18,128	19,808	21,489			3,014		21,825	
GC01x09-SR0	Start	20,423								Please consult factory	20,675	23,771	26,867	29,963	33,061	36,158	39,256	132	18,199	200	39,256		
	Min	10,909									6,894	8,225	9,550	10,872	12,192	13,509	14,825		5,821		14,825		
	End	21,199									8,607	10,751	12,894	15,038	17,183	19,328	21,473		6,892		21,473		
GC01x09-SR1	Start	15,368					Please consult factory	11,930	15,024	18,118	21,213	24,308	27,404	30,500	33,597	36,694	39,791	42,889	100	11,930	200	42,889	
	Min	8,577						4,099	5,426	6,746	8,062	9,377	10,691	12,005	13,317	14,629	15,942	17,254		4,099		17,254	
	End	17,566						5,081	7,223	9,366	11,509	13,652	15,795	17,939	20,083	22,228	24,373	26,518		5,081		26,518	
GC01x09-SR2	Start	12,843				Please consult factory	10,978	14,071	17,165	20,260	23,355	26,450	29,546	32,642	35,738	38,836	41,933	45,031	84	9,122	200	45,031	
	Min	7,343					4,079	5,396	6,710	8,024	9,336	10,648	11,959	13,271	14,583	15,894	17,205	18,516		3,286		18,516	
	End	15,424					5,459	7,601	9,744	11,886	14,029	16,172	18,316	20,460	22,604	24,748	26,893	29,038		4,174		29,038	
GC01x09-SR3	Start	11,186			Please consult factory	9,854	12,947	16,041	19,135	22,229	25,324	28,420	31,515	34,612	37,708	40,805	43,903	47,001	74	7,999	200	47,001	
	Min.	6,419				3,703	5,019	6,333	7,645	8,957	10,269	11,580	12,891	14,202	15,513	16,824	18,135	19,446		2,910		19,446	
	End	13,454				4,972	7,113	9,255	11,398	13,540	15,683	17,826	19,970	22,114	24,258	26,402	28,547	30,692		3,687		30,692	
GC01x09-SR4	Start	9,485		Please consult factory	5,436	8,528	11,620	14,714	17,807	20,901	23,996	27,090	30,186	33,282	36,378	39,474	42,571	45,669	60	5,436	200	48,767	
	Min.	5,521			1,988	3,308	4,622	5,934	7,245	8,557	9,867	11,178	12,489	13,799	15,110	16,421	17,732	19,043		20,354		1,988	20,354
	End	11,687			2,387	4,528	6,670	8,811	10,953	13,096	15,238	17,381	19,524	21,668	23,812	25,956	28,100	30,245		2,387		32,390	

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC01x10-SR0	Start	20,361						Please consult factory	18,339	22,446	26,554	30,662	34,771	38,881	42,990	Exceeds MOP				100	18,339	166	45,457
	Min	10,890							5,892	7,665	9,425	11,178	12,927	14,673	16,418						5,892		17,464
	End	21,111							6,989	9,833	12,678	15,522	18,367	21,213	24,058						6,989		25,766
GC01x10-SR1	Start	15,307				Please consult factory	13,759	17,865	21,972	26,079	30,187	34,296	38,405	42,514	46,624	Exceeds MOP				76	12,116	166	49,090
	Min	8,559					4,896	6,648	8,394	10,138	11,880	13,621	15,361	17,102	18,842						4,191		19,886
	End	17,477					6,348	9,191	12,034	14,878	17,723	20,567	23,412	26,258	29,103						5,210		30,811
GC01x10-SR2	Start	12,782			Please consult factory	11,795	15,900	20,007	24,114	28,221	32,329	36,437	40,546	44,656	48,765	Exceeds MOP				64	9,331	166	51,232
	Min	7,324				4,439	6,184	7,926	9,667	11,407	13,147	14,886	16,625	18,364	20,103						3,388		21,146
	End	15,335				6,025	8,868	11,711	14,555	17,399	20,243	23,088	25,933	28,778	31,624						4,319		33,331
GC01x10-SR3	Start	11,125	Please consult factory	9,659	13,764	17,870	21,977	26,084	30,191	34,299	38,407	42,516	46,625	50,735	Exceeds MOP				56	8,017	166	53,201	
	Min	6,400		3,632	5,378	7,120	8,860	10,600	12,339	14,078	15,817	17,555	19,294	21,033						2,931		22,077	
	End	13,365		4,836	7,679	10,522	13,365	16,209	19,053	21,897	24,742	27,587	30,432	33,278						3,699		34,985	
GC01x10-SR4	Start	9,424	Please consult factory	7,320	11,425	15,530	19,636	23,743	27,850	31,957	36,065	40,173	44,282	48,392	52,501	Exceeds MOP				48	6,499	166	54,968
	Min	5,502		2,807	4,551	6,292	8,031	9,770	11,509	13,247	14,986	16,725	18,464	20,202	21,942						2,457		22,985
	End	11,599		3,692	6,534	9,377	12,220	15,063	17,907	20,751	23,595	26,440	29,285	32,130	34,976						3,124		36,683
GC01x12-SR0	Start	20,266		Please consult factory	18,387	24,279	30,172	36,066	41,960	Exceeds MOP									70	18,387	116	45,497	
	Min	10,861	5,932		8,470	10,986	13,493	15,996												5,932		17,496	
	End	20,974	7,023		11,103	15,183	19,264	23,345												7,023		25,794	
GC01x12-SR1	Start	15,212		Please consult factory	16,128	22,020	27,912	33,806	39,699	45,594	Exceeds MOP								53	12,004	116	49,130	
	Min	8,530	5,928		8,434	10,933	13,430	15,926	18,421											4,164		19,918	
	End	17,340	7,988		12,068	16,148	20,228	24,309	28,390											5,132		30,839	
GC01x12-SR2	Start	12,687	Please consult factory	12,378	18,270	24,162	30,054	35,947	41,841	47,735	Exceeds MOP								44	8,844	116	51,272	
	Min	7,295		4,709	7,210	9,706	12,201	14,695	17,189	19,682										3,201		21,178	
	End	15,198		6,429	10,508	14,588	18,668	22,748	26,829	30,910										3,982		33,359	
GC01x12-SR3	Start	11,030	8,457	14,348	20,239	26,131	32,024	37,917	43,811	49,705	Exceeds MOP								39	7,868	116	53,242	
	Min	6,371	3,142	5,647	8,144	10,639	13,133	15,626	18,119	20,613										2,891		22,109	
	End	13,228	4,004	8,083	12,162	16,242	20,322	24,402	28,483	32,564										3,596		35,013	
GC01x12-SR4	Start	9,329	10,223	16,114	22,006	27,897	33,790	39,683	45,577	51,471	Exceeds MOP								33	6,100	116	55,008	
	Min	5,473	4,064	6,560	9,055	11,548	14,041	16,534	19,027	21,521										2,310		23,017	
	End	11,462	5,702	9,781	13,860	17,940	22,020	26,100	30,181	34,262										2,847		36,711	

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Torque - Pneumatic
Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC01x14-SR0	Start	20,190		Please consult factory	20,036	27,203	34,371	41,540	Exceeds MOP											57	17,886	91	42,257
	Min	10,837			6,667	9,740	12,793	15,838													5,735		16,142
	End	20,864			8,165	13,127	18,090	23,054													6,676		23,551
GC01x14-SR1	Start	15,136	Please consult factory	16,502	23,669	30,836	38,005	45,173	Exceeds MOP											43	11,486	91	45,890
	Min	8,507		6,109	9,155	12,193	15,228	18,263													3,963		18,566
	End	17,230		8,247	13,209	18,172	23,135	28,099													4,774		28,595
GC01x14-SR2	Start	12,611	11,478	18,644	25,811	32,978	40,146	47,315	Exceeds MOP											36	8,612	91	48,032
	Min	7,272	4,347	7,389	10,425	13,459	16,492	19,524													3,124		19,827
	End	15,089	5,806	10,768	15,730	20,693	25,656	30,620													3,821		31,116
GC01x14-SR3	Start	10,954	13,448	20,614	27,781	34,948	42,116	49,285	Exceeds MOP											32	7,715	91	50,002
	Min	6,348	5,287	8,323	11,358	14,390	17,422	20,455													2,847		20,758
	End	13,118	7,460	12,422	17,384	22,346	27,310	32,273													3,491		32,770
GC01x14-SR4	Start	9,253	15,214	22,380	29,547	36,714	43,882	51,051	Exceeds MOP											27	5,899	91	51,768
	Min	5,450	6,200	9,234	12,266	15,298	18,330	21,363													2,246		21,666
	End	11,352	9,158	14,119	19,082	24,044	29,008	33,971													2,708		34,468

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)							
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200											
			Pressure Torque Output: Start/Min./End (lbf-in)																											
GC2x09-SR1	Start	26,501											Please consult factory	25,201	28,949	32,697	36,445	Exceeds MOP		141	21,829	187	39,069							
	Min.	14,497												8,696	10,300	11,900	13,497		7,244		14,613									
	End	29,231												11,244	13,840	16,436	19,033		8,908		20,851									
GC2x09-SR2	Start	22,890										Please consult factory	21,044	24,790	28,537	32,284	36,032	39,780	Exceeds MOP		123	18,422	187	42,404						
	Min.	12,678											7,398	9,000	10,596	12,190	13,783	15,373		6,272		16,486								
	End	25,895											9,658	12,253	14,849	17,445	20,041	22,638		7,842		24,456								
GC2x09-SR3	Start	20,509										Please consult factory	16,325	20,071	23,816	27,563	31,309	35,057	38,804	42,553	Exceeds MOP		110	16,325	187	45,177				
	Min.	11,362											5,541	7,149	8,748	10,343	11,936	13,527	15,117	16,707		5,541		17,820						
	End	23,121											6,847	9,441	12,036	14,631	17,227	19,823	22,419	25,015		6,847		26,833						
GC2x09-SR4	Start	18,294										Please consult factory	15,644	19,389	23,134	26,880	30,626	34,373	38,120	41,868	45,616	Exceeds MOP		99	15,270	187	48,241			
	Min.	10,038											5,277	6,885	8,485	10,080	11,673	13,264	14,854	16,444	18,032		5,115		19,144					
	End	20,057											6,464	9,058	11,652	14,247	16,842	19,438	22,034	24,630	27,227		6,204		29,045					
GC2x10-SR1	Start	26,427										Please consult factory	23,598	28,570	33,542	38,515	Exceeds MOP							107	22,107	141	39,013			
	Min.	14,474											8,017	10,148	12,270	14,386									7,375		14,597			
	End	29,124											10,134	13,578	17,022	20,467									9,101		20,812			
GC2x10-SR2	Start	22,816										Please consult factory	21,962	26,933	31,905	36,877	41,850	Exceeds MOP							92	17,986	141	42,348		
	Min.	12,655											7,803	9,924	12,039	14,151	16,260									6,097		16,471		
	End	25,788											10,295	13,738	17,183	20,627	24,072									7,540		24,417		
GC2x10-SR3	Start	20,435										Please consult factory	19,765	24,735	29,706	34,678	39,650	44,623	Exceeds MOP							83	16,286	141	45,120	
	Min.	11,339											7,030	9,151	11,265	13,376	15,485	17,594									5,537		17,804	
	End	23,014											9,229	12,672	16,116	19,560	23,005	26,450									6,819		26,794	
GC2x10-SR4	Start	18,220										Please consult factory	17,858	22,828	27,799	32,770	37,742	42,714	47,687	Exceeds MOP							74	14,877	141	48,184
	Min.	10,016											6,242	8,366	10,482	12,594	14,703	16,812	18,918									4,959		19,129
	End	19,950											7,997	11,440	14,884	18,327	21,771	25,216	28,661									5,932		29,005
GC2x12-SR1	Start	26,311										Please consult factory	25,815	32,947	40,080	Exceeds MOP											74	21,536	100	40,080
	Min.	14,439											8,991	12,037	15,071													7,151		15,071
	End	28,957											11,669	16,610	21,552													8,705		21,552
GC2x12-SR2	Start	22,700										Please consult factory	22,019	29,150	36,282	43,415	Exceeds MOP										65	18,453	100	43,415
	Min.	12,620											7,850	10,890	13,919	16,944												6,322		16,944
	End	25,621											10,334	15,274	20,215	25,156												7,864		25,156
GC2x12-SR3	Start	20,319										Please consult factory	17,660	24,791	31,923	39,055	46,188	Exceeds MOP									58	16,234	100	46,188
	Min.	11,304											6,153	9,198	12,229	15,253	18,276											5,540		18,276
	End	22,847											7,771	12,711	17,652	22,593	27,534											6,784		27,534
GC2x12-SR4	Start	18,104										Please consult factory	20,724	27,855	34,987	42,119	49,252	Exceeds MOP									52	15,020	100	49,252
	Min.	9,980											7,493	10,529	13,556	16,580	19,601											5,047		19,601
	End	19,783											9,983	14,922	19,863	24,804	29,745											6,031		29,745

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200					
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC2x14-SR1	Start	26,220		Please consult factory	20,681	29,356	38,031	Exceeds MOP												60	20,681	81	38,899	
	Min.	14,411			6,807	10,530	14,224														6,807		14,593	
	End	28,825			8,113	14,122	20,132																8,113	20,733
GC2x14-SR2	Start	22,609		Please consult factory	24,016	32,691	41,366	Exceeds MOP												53	17,945	81	42,234	
	Min.	12,592			8,728	12,418	16,099																6,128	16,466
	End	25,489			11,718	17,727	23,737																7,511	24,338
GC2x14-SR3	Start	20,227	Please consult factory	18,115	26,789	35,464	44,139	Exceeds MOP												48	16,381	81	45,007	
	Min.	11,276		6,373	10,073	13,755	17,433																5,629	17,800
	End	22,715		8,087	14,095	20,105	26,114																6,885	26,715
GC2x14-SR4	Start	18,012	Please consult factory	21,179	29,853	38,527	47,203	Exceeds MOP												43	15,108	81	48,070	
	Min.	9,953		7,713	11,402	15,082	18,757																5,111	19,124
	End	19,651		10,298	16,306	22,316	28,326																6,092	28,927
GC2x16-SR1	Start	26,101	Please consult factory	25,754	37,212	Exceeds MOP														46	21,171	61	38,358	
	Min.	14,374		9,017	13,902																		7,047	14,389
	End	28,654		11,627	19,564																		8,452	20,358
GC2x16-SR2	Start	22,490	17,632	29,089	40,547	Exceeds MOP														40	17,632	61	41,693	
	Min.	12,556	6,024	10,916	15,777																		6,024	16,263
	End	25,318	7,295	15,232	23,169																		7,295	23,963
GC2x16-SR3	Start	20,109	20,405	31,862	43,320	Exceeds MOP														36	15,823	61	44,465	
	Min.	11,240	7,382	12,255	17,111																		5,419	17,596
	End	22,544	9,673	17,609	25,547																		6,498	26,340
GC2x16-SR4	Start	17,894	23,469	34,925	46,383	Exceeds MOP														32	14,304	61	47,529	
	Min.	9,916	8,718	13,582	18,436																		4,794	18,921
	End	19,480	11,884	19,821	27,758																		5,535	28,552

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)		
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200						
			Pressure Torque Output: Start/Min./End (lbf-in)																						
GC3x10-SR1	Start	46,298												Please consult factory	42,730	48,773	54,817	60,862	66,907	155	39,709	200	66,907		
	Min.	25,346													14,317	16,890	19,454	22,012	24,565		13,024		24,565		
	End	51,474													18,211	22,346	26,483	30,620	34,757		16,143		34,757		
GC3x10-SR2	Start	40,350										Please consult factory	37,289	43,330	49,373	55,416	61,460	67,504	73,550	135	34,268	200	73,550		
	Min.	22,115											12,525	15,097	17,659	20,214	22,767	25,314	27,862		11,232		27,862		
	End	44,827											15,881	20,016	24,151	28,287	32,423	36,560	40,697		13,814		40,697		
GC3x10-SR3	Start	35,235								Please consult factory	30,927	36,967	43,008	49,050	55,092	61,135	67,179	73,224	79,269	118	29,719	200	79,269		
	Min.	19,336										10,262	12,838	15,400	17,955	20,506	23,053	25,601	28,144		30,687		9,744	30,687	
	End	39,104										12,722	16,856	20,990	25,125	29,260	33,396	37,532	41,669		45,806		11,895	45,806	
GC3x10-SR4	Start	30,835							Please consult factory	29,803	35,842	41,882	47,923	53,965	60,007	66,050	72,094	78,139	84,184	104	26,179	200	84,184		
	Min.	16,946									10,175	12,741	15,298	17,849	20,396	22,942	25,485	28,028	30,571		33,113		8,626	33,113	
	End	34,186									12,983	17,116	21,250	25,384	29,519	33,654	37,790	41,926	46,063		50,200		10,503	50,200	
GC3x12-SR1	Start	46,158							Please consult factory	41,485	50,177	58,869	67,562	Exceeds MOP							108	39,747	142	69,301	
	Min.	25,303									13,807	17,507	21,190		24,861									13,063	25,595
	End	51,270									17,359	23,307	29,256		35,205									16,169	36,395
GC3x12-SR2	Start	40,210						Please consult factory	39,437	48,128	56,819	65,512	74,205	Exceeds MOP							94	34,223	142	75,944	
	Min.	22,072									13,465	17,154	20,828		24,494	28,157								11,237	28,890
	End	44,623									17,352	23,299	29,247		35,196	41,146								13,783	42,336
GC3x12-SR3	Start	35,094					Please consult factory	36,467	45,156	53,847	62,539	71,231	79,924	Exceeds MOP							82	29,516	142	81,663	
	Min.	19,293									12,650	16,334	20,004		23,666	27,326	30,982							9,684	31,713
	End	38,900									16,513	22,460	28,408		34,356	40,305	46,254							11,756	47,444
GC3x12-SR4	Start	30,694				Please consult factory	32,693	41,382	50,071	58,762	67,453	76,146	84,839	Exceeds MOP							72	25,742	142	86,578	
	Min.	16,903									11,431	15,111	18,778		22,440	26,096	29,753	33,408						8,466	34,138
	End	33,981									14,961	20,907	26,854		32,802	38,750	44,699	50,649						10,204	51,839

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC3x14-SR1	Start	46,047					Please consult factory	40,979	51,562	62,146	Exceeds MOP									88	38,862	117	69,556
	Min.	25,269						13,619	18,124	22,602											12,713		25,730
	End	51,108						17,012	24,255	31,499											15,564		36,570
GC3x14-SR2	Start	40,099				Please consult factory	37,039	47,621	58,205	68,789	Exceeds MOP									77	33,865	117	76,198
	Min.	22,038						12,471	16,968	21,441		25,903									11,113		29,024
	End	44,461						15,710	22,953	30,196		37,439									13,538		42,510
GC3x14-SR3	Start	34,983			Please consult factory	32,177	42,759	53,341	63,924	74,508	Exceeds MOP									68	30,061	117	81,918
	Min.	19,259					10,852	15,347	19,818	24,277		28,732									9,947		31,848
	End	38,738					13,578	20,819	28,061	35,304		42,548									12,129		47,619
GC3x14-SR4	Start	30,583		Please consult factory	26,512	37,092	47,673	58,256	68,839	79,423	Exceeds MOP									59	25,454	117	86,833
	Min.	16,869					8,826	13,326	17,796	22,255		26,707	31,159								8,373		34,272
	End	33,819					10,731	17,972	25,213	32,455		39,698	46,942								10,007		52,013
GC3x16-SR1	Start	45,903		Please consult factory	43,553	57,556	71,560	Exceeds MOP												67	39,352	90	71,560
	Min.	25,225					14,748		20,690	26,601											12,953		26,601
	End	50,898					18,774		28,357	37,941											15,899		37,941
GC3x16-SR2	Start	39,955		Please consult factory	36,194	50,195	64,198	78,202	Exceeds MOP											58	33,394	90	78,202
	Min.	21,994					12,142	18,087		23,997	29,894										10,943		29,894
	End	44,251					15,132	24,714		34,297	43,881										13,215		43,881
GC3x16-SR3	Start	34,840		Please consult factory	41,913	55,915	69,918	83,921	Exceeds MOP											51	29,313	90	83,921
	Min.	19,215					15,020	20,932		26,829	32,717										9,660		32,717
	End	38,528					20,240	29,823		39,406	48,990										11,617		48,990
GC3x16-SR4	Start	30,440	Please consult factory	32,827	46,828	60,830	74,832	88,836	Exceeds MOP											45	25,828	90	88,836
	Min.	16,825		11,551	17,471	23,368	29,256	35,140											8,568		35,140		
	End	33,610		15,053	24,635	34,217	43,800	53,384											10,262		53,384		
GC3x20-SR1	Start	45,617	Please consult factory	56,272	Exceeds MOP															42	38,490	56	69,610
	Min.	25,137		20,211															12,653		25,842		
	End	50,480		27,479															15,309		36,606		
GC3x20-SR2	Start	39,669	40,687	62,915	Exceeds MOP															37	34,019	56	76,252
	Min.	21,907	14,126	23,521															11,282		29,136		
	End	43,833	18,207	33,419															13,643		42,547		
GC3x20-SR3	Start	34,554	46,406	68,634	Exceeds MOP															32	28,625	56	81,971
	Min.	19,127	16,989	26,353															9,438		31,959		
	End	38,110	23,316	38,528															11,147		47,656		
GC3x20-SR4	Start	30,154	51,321	73,549	Exceeds MOP															28	24,650	56	86,886
	Min.	16,737	19,433	28,780															8,137		34,383		
	End	33,192	27,710	42,922															9,456		52,050		

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200					
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC4x12-SR2	Start	83,248											Please consult factory	78,847	89,253	99,659	110,067	120,476	159	77,806	200	120,476		
	Min.	43,717												24,736	29,244	33,721	38,178	42,622		24,283		42,622		
	End	84,070												29,678	36,884	44,091	51,298	58,506		28,957		58,506		
GC4x12-SR3	Start	70,086									Please consult factory	71,208	81,612	92,017	102,422	112,829	123,237	133,646	134	64,967	200	133,646		
	Min.	36,888											23,018	27,501	31,960	36,403	40,836	45,264		49,684		20,306	49,684	
	End	70,895											28,410	35,614	42,819	50,025	57,232	64,439		71,648		24,087	71,648	
GC4x12-SR4	Start	57,845								Please consult factory	61,786	72,187	82,590	92,993	103,398	113,804	124,211	134,619	145,028	111	52,425	200	145,028	
	Min.	30,719										20,639	25,101	29,543	33,972	38,396	42,813	47,230	51,639		56,049		16,590	56,049
	End	59,508										26,225	33,428	40,632	47,836	55,041	62,247	69,454	76,661		83,870		19,743	83,870
GC4x14-SR1	Start	95,144																		Exceeds MOP	149	85,573	194	142,684
	Min.	50,679																	27,239			51,697		
	End	99,538																	33,166			72,715		
GC4x14-SR2	Start	83,113																		Exceeds MOP	131	78,392	194	158,341
	Min.	43,676																	24,572			58,762		
	End	83,875																	29,363			84,727		
GC4x14-SR3	Start	69,951																		Exceeds MOP	110	64,923	194	171,511
	Min.	36,846																	20,321			65,774		
	End	70,699																	24,057			97,868		
GC4x14-SR4	Start	57,709																		Exceeds MOP	91	52,207	194	182,892
	Min.	30,678																	16,530			72,112		
	End	59,313																	19,592			110,090		
GC4x16-SR1	Start	94,970																		113	86,180	147	143,318	
	Min.	50,626																	27,530		51,990			
	End	99,287																	33,587		73,154			
GC4x16-SR2	Start	82,939																		99	78,314	147	158,974	
	Min.	43,622																	24,568		59,054			
	End	83,624																	29,309		85,166			
GC4x16-SR3	Start	69,777																		83	64,604	147	172,144	
	Min.	36,793																	20,215		66,065			
	End	70,448																	23,837		98,307			
GC4x16-SR4	Start	57,535			Please consult factory	54,149	70,946	87,745	104,546	121,347	138,150	154,955	171,761	Exceeds MOP						69	52,469	147	183,526	
	Min.	30,624				17,409	24,636	31,803	38,944	46,075	53,194	60,312	67,426								16,680		72,403	
	End	59,062				20,937	32,569	44,202	55,836	67,471	79,107	90,744	102,382								19,773		110,529	

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC4x20-SR1	Start	94,619				Please consult factory	109,696	136,430	Exceeds MOP											71	85,638	92	141,777
	Min.	50,519					37,717	49,122													27,365		51,396
	End	98,781					49,871	68,384													33,211		72,087
GC4x20-SR2	Start	82,588	Please consult factory	71,891	98,621	125,353	152,086	Exceeds MOP												60	71,891	92	157,433
	Min.	43,515		21,835	33,406	44,826	56,193												21,835		58,461		
	End	83,118		24,861	43,372	61,883	80,396												24,861		84,098		
GC4x20-SR3	Start	69,426	Please consult factory	85,061	111,791	138,523	165,256	Exceeds MOP												52	63,678	92	170,603
	Min.	36,686		29,119	40,523	51,877	63,209												19,891		65,473		
	End	69,942		38,003	56,513	75,024	93,537												23,195		97,240		
GC4x20-SR4	Start	57,185	Please consult factory	69,714	96,443	123,173	149,904	176,638	Exceeds MOP											43	51,006	92	181,985
	Min.	30,517		24,187	35,576	46,918	58,238	69,551											16,126		71,812		
	End	58,556		31,716	50,225	68,735	87,246	105,759											18,760		109,462		
GC4x24-SR1	Start	94,366	Please consult factory	90,182	129,119	Exceeds MOP														49	86,289	63	140,800
	Min.	50,442		29,371	46,041														27,687		51,011		
	End	98,416		36,358	63,322														33,662		71,411		
GC4x24-SR2	Start	82,335	Please consult factory	105,839	144,776	Exceeds MOP														43	78,584	63	156,457
	Min.	43,438		36,535	53,119														24,805		58,077		
	End	82,753		48,370	75,333														29,496		83,422		
GC4x24-SR3	Start	69,173	80,074	119,009	157,945	Exceeds MOP														36	64,500	63	169,627
	Min.	36,608	27,025	43,631	60,146														20,299		65,090		
	End	69,577	34,549	61,511	88,475														23,765		96,564		
GC4x24-SR4	Start	56,932	91,455	130,390	169,327	Exceeds MOP														30	52,522	63	181,008
	Min.	30,440	33,501	50,013	66,491														16,841		71,429		
	End	58,191	46,771	73,733	100,697														19,810		108,786		
GC4x28-SR1	Start	93,283	113,824	Exceeds MOP																34	80,841	45	141,310
	Min.	50,111	39,897																25,702		51,611		
	End	96,854	52,730																29,890		71,764		
GC4x28-SR2	Start	81,252	129,480	Exceeds MOP																30	74,510	45	156,966
	Min.	43,106	46,996																23,405		58,676		
	End	81,191	64,741																26,675		83,775		
GC4x28-SR3	Start	68,090	142,650	Exceeds MOP																25	60,197	45	170,136
	Min.	36,277	54,039																18,789		65,688		
	End	68,016	77,883																20,784		96,917		

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC5x16-SR2	Start	193,736													Please consult factory	216,327	237,806	259,285	179	214,180	200	259,285	
	Min.	94,801														62,621	72,098	81,464		61,666		81,464	
	End	164,776														70,543	85,429	100,316		69,054		100,316	
GC5x16-SR3	Start	155,815									Please consult factory	177,848	199,322	220,797	242,274	263,752	285,232	144	164,965	200	285,232		
	Min.	77,741										54,042	63,393	72,669	81,894	91,087	100,254		48,366		100,254		
	End	138,808										63,765	78,649	93,533	108,418	123,305	138,192		54,836		138,192		
GC5x16-SR4	Start	129,935								Please consult factory	156,315	177,785	199,258	220,731	242,206	263,683	285,161	306,641	121	136,993	200	306,641	
	Min.	65,283									49,125	58,413	67,636	76,823	85,984	95,126	104,262	113,382		40,665		113,382	
	End	117,381									59,851	74,732	89,614	104,497	119,382	134,267	149,153	164,041		46,459		164,041	
GC5x20-SR1	Start	215,685								Please consult factory	244,871	279,183	313,497	347,813	Exceeds MOP				125	227,715	164	361,539	
	Min.	108,045									74,746	89,655	104,432	119,137						67,205		125,011	
	End	194,481									88,975	112,756	136,539	160,323						77,085		169,837	
GC5x20-SR2	Start	193,283								Please consult factory	240,894	275,205	309,517	343,831	378,146	Exceeds MOP				112	213,448	164	391,873
	Min.	94,660									73,543	88,449	103,224	117,926	132,579						61,432		138,433
	End	164,122									87,570	111,350	135,131	158,914	182,698						68,547		192,212
GC5x20-SR3	Start	155,362				Please consult factory	163,922	198,227	232,533	266,841	301,151	335,463	369,777	404,093	Exceeds MOP				90	163,922	164	417,820	
	Min.	77,601					48,002	63,013	77,803	92,498	107,131	121,726	136,305	150,863						48,002		156,687	
	End	138,154					54,114	77,890	101,667	125,445	149,225	173,007	196,789	220,573						54,114		230,087	
GC5x20-SR4	Start	129,482		Please consult factory	151,030	185,332	219,636	253,942	288,250	322,560	356,872	391,186	425,502	Exceeds MOP					76	137,309	164	439,229	
	Min.	65,143				46,923	61,754	76,448	91,072	105,663	120,223	134,780	149,312		163,843					40,909		169,656	
	End	116,727				56,188	79,962	103,738	127,515	151,294	175,074	198,855	222,638		246,422					46,678		255,936	
GC5x24-SR1	Start	215,358			Please consult factory	249,173	299,256	349,341	Exceeds MOP										86	229,140	112	359,359	
	Min.	107,944					76,655	98,340		119,811										67,868		124,097	
	End	194,008					91,956	126,669		161,382										78,072		168,325	
GC5x24-SR2	Start	192,956		Please consult factory	229,425	279,506	329,590	379,675	Exceeds MOP										77	214,401	112	389,693	
	Min.	94,559				68,549	90,336	111,857		133,251										61,898		137,522	
	End	163,650				79,621	114,331	149,044		183,757										69,208		190,700	
GC5x24-SR3	Start	155,034	Please consult factory	155,216	205,293	255,372	305,453	355,536	405,621	Exceeds MOP									60	155,216	112	415,639	
	Min.	77,501			44,165	66,117	87,626	108,994	130,287		151,532									44,165		155,781	
	End	137,682			48,079	82,787	117,496	152,207	186,919		221,633									48,079		228,576	
GC5x24-SR4	Start	129,154	Please consult factory	176,626	226,702	276,781	326,862	376,945	427,031	Exceeds MOP									52	136,566	112	437,048	
	Min.	65,042			58,060	79,505	100,822	122,078	143,307		164,510									40,639		168,751	
	End	116,255			73,928	108,636	143,345	178,056	212,768		247,482									46,163		254,425	

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)		
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200					
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC5x28-SR1	Start	213,958		Please consult factory	221,266	292,074	362,887	Exceeds MOP												60	221,266	80	362,887	
	Min.	107,513			64,928	95,793	126,166														64,928		126,166	
	End	191,989			72,614	121,691	170,771														72,614		170,771	
GC5x28-SR2	Start	191,556		Please consult factory	251,600	322,408	393,221	Exceeds MOP												54	209,117	80	393,221	
	Min.	94,125			78,786	109,330	139,586														60,071		139,586	
	End	161,631			94,990	144,066	193,146														65,545		193,146	
GC5x28-SR3	Start	153,634	Please consult factory	206,742	277,546	348,354	419,167	Exceeds MOP												44	164,261	80	419,167	
	Min.	77,069		67,259	97,625	127,776	157,834												48,724		157,834			
	End	135,663		83,791	132,865	181,942	231,021												54,349		231,021			
GC5x28-SR4	Start	127,754	157,351	228,151	298,955	369,764	440,577	Exceeds MOP												37	136,112	80	440,577	
	Min.	64,610	50,232	80,635	110,766	140,806	170,801												40,945		170,801			
	End	114,236	60,569	109,640	158,714	207,790	256,870												45,849		256,870			
GC5x32-SR1	Start	213,391	Please consult factory	259,209	351,927	Exceeds MOP														46	222,122	61	361,199	
	Min.	107,338		81,709	121,603														65,450		125,571			
	End	191,173		98,912	163,175														73,208		169,601			
GC5x32-SR2	Start	190,989	Please consult factory	289,542	382,261	Exceeds MOP														41	206,100	61	391,533	
	Min.	93,950		95,342	135,037														58,859		138,992			
	End	160,814		121,287	185,550														63,454		191,976			
GC5x32-SR3	Start	153,068	222,775	315,489	408,207	Exceeds MOP														33	157,878	61	417,480	
	Min.	76,894	74,312	113,928	153,309														46,030		157,243			
	End	134,846	94,904	159,163	223,425														49,924		229,852			
GC5x32-SR4	Start	127,188	244,184	336,898	429,617	Exceeds MOP														28	132,934	61	438,889	
	Min.	64,436	87,615	127,001	166,284														39,693		170,211			
	End	113,419	120,753	185,012	249,274														43,646		255,700			
GC5x36-SR1	Start	212,825	265,037	Exceeds MOP																36	218,016	48	359,080	
	Min.	107,163	84,380																63,774		124,800			
	End	190,356	102,952																70,362		168,132			
GC5x36-SR2	Start	190,423	295,371	Exceeds MOP																33	213,085	48	389,414	
	Min.	93,775	97,992																62,145		138,222			
	End	159,997	125,327																68,296		190,507			
GC5x36-SR3	Start	152,502	321,317	Exceeds MOP																26	156,749	48	415,360	
	Min.	76,720	116,547																45,682		156,478			
	End	134,030	163,202																49,142		228,383			
GC7x20-SR3	Start	310,541										Please consult factory	348,198	390,049	431,903	473,760	515,619	557,482	147	335,644	200	557,482		
	Min.	153,453											103,002	121,354	139,509	157,548	175,514	193,435		97,433		193,435		
	End	270,398											118,453	147,464	176,477	205,492	234,509	263,528		109,751		263,528		
GC7x20-SR4	Start	260,600										Please consult factory	305,670	347,515	389,363	431,213	473,067	514,924	556,784	598,646	124	280,564	200	598,646
	Min.	129,433											93,200	111,417	129,465	147,425	165,327	183,193	201,014	218,830		82,131		218,830
	End	229,194											110,320	139,327	168,336	197,346	226,359	255,374	284,391	313,410		92,917		313,410

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)	Operating Pressure, (psig)																		MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)		
		40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200							
		Pressure Torque Output: Start/Min./End (lbf-in)																							
GC7x24-SR1	Start	426,456									Please consult factory	481,096	542,326	603,558	664,794	Exceeds MOP			138	468,851	178	713,784			
	Min.	209,290										140,692	167,577	194,151	220,537					135,247		241,568			
	End	365,826											160,887	203,331	245,776		288,225					152,398	322,185		
GC7x24-SR2	Start	376,514									Please consult factory	461,035	522,261	583,490	644,722	705,958	Exceeds MOP			122	412,057	178	754,949		
	Min.	185,270										140,801	167,418	193,806	220,069	246,249					119,202		267,151		
	End	324,622										168,328	210,769	253,213	295,659	338,107					134,376		372,067		
GC7x24-SR3	Start	310,117								Please consult factory	393,375	454,595	515,817	577,043	638,272	699,505	760,740	Exceeds MOP			101	338,280	178	809,731	
	Min.	153,323										122,812	149,306	175,591	201,770	227,885	253,936		279,968					98,620	300,762
	End	269,786										149,770	192,207	234,646	277,088	319,531	361,977		404,425					111,579	438,386
GC7x24-SR4	Start	260,175						Please consult factory	312,110	373,323	434,540	495,759	556,982	618,207	679,437	740,669	801,905	Exceeds MOP			85	281,505	178	850,895	
	Min.	129,302							96,041	122,579	148,856	175,011	201,090	227,134	253,123	279,114	305,068					82,579		325,823	
	End	228,582							114,785	157,217	199,652	242,089	284,528	326,970	369,413	411,859	454,308					93,569		488,268	
GC7x28-SR1	Start	424,758						Please consult factory	488,405	575,099	661,798	Exceeds MOP							97	462,398	126	713,820			
	Min.	208,767							144,636	182,545	219,979											133,076	242,321		
	End	363,378							165,953	226,049	286,148											147,925	322,210		
GC7x28-SR2	Start	374,817						Please consult factory	442,881	529,569	616,263	702,962	Exceeds MOP							86	408,208	126	754,984		
	Min.	184,746							133,528	171,270	208,594	245,695											118,180	267,901	
	End	322,173							155,744	215,835	275,931	336,030											131,708	372,092	
GC7x28-SR3	Start	308,419						Please consult factory	410,982	497,664	584,352	671,045	757,744	Exceeds MOP						71	332,972	126	809,767		
	Min.	152,799							131,120	168,493	205,577	242,533	279,418										96,923	301,508	
	End	267,338							161,975	222,062	282,154	342,249	402,349										107,899	438,410	
GC7x28-SR4	Start	258,478		Please consult factory	278,799	365,469	452,146	538,828	625,516	712,210	798,909	Exceeds MOP								60	278,799	126	850,931		
	Min.	128,779				82,019	119,833	157,051	194,036	230,922	267,737		304,518										82,019	326,568	
	End	226,133				91,693	151,773	211,857	271,944	332,036	392,131		452,231										91,693	488,293	

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)	Operating Pressure, (psig)																		MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
		40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200						
		Pressure Torque Output: Start/Min./End (lbf-in)																						
GC7x32-SR1	Start	424,063				Please consult factory	529,368	642,970	Exceeds MOP											74	461,209	96	711,135	
	Min.	208,552					162,766	212,001													132,678		241,283	
	End	362,375					194,348	273,097													147,101		320,348	
GC7x32-SR2	Start	374,121			Please consult factory	456,936	570,532	684,135	Exceeds MOP											66	411,499	96	752,299	
	Min.	184,532					139,833	189,065		237,775													119,786	266,867
	End	321,170					165,486	244,230		322,979													133,990	370,230
GC7x32-SR3	Start	307,724		Please consult factory	398,129	511,718	625,314	738,917	Exceeds MOP											54	329,978	96	807,082	
	Min.	152,585					125,687	174,646		223,188	271,538												95,740	300,479
	End	266,335					153,065	231,805		310,549	389,298												105,823	436,549
GC7x32-SR4	Start	257,782	Please consult factory	325,710	439,293	552,883	666,479	780,081	Exceeds MOP											46	280,278	96	848,246	
	Min.	128,564		102,771	151,689	200,152	248,441	296,653													82,840		325,541	
	End	225,130		124,212	202,947	281,687	360,431	439,180													92,719		486,431	
GC7x36-SR1	Start	423,367		Please consult factory	484,250	628,354	Exceeds MOP													59	469,840	76	714,820	
	Min.	208,338				143,082		205,835															136,683	242,991
	End	361,371				163,073		262,965															153,084	322,903
GC7x36-SR2	Start	373,426		Please consult factory	525,414	669,518	Exceeds MOP													52	410,136	76	755,984	
	Min.	184,317				169,751		231,658															119,338	268,570
	End	320,167				212,955		312,847															133,045	372,785
GC7x36-SR3	Start	307,028	Please consult factory	436,100	580,197	724,301	Exceeds MOP													43	335,236	76	810,767	
	Min.	152,370		142,286	204,076	265,453															98,252		302,173	
	End	265,331		179,386	279,274	379,166															109,468		439,103	
GC7x36-SR4	Start	257,087	333,175	477,264	621,361	765,465	Exceeds MOP													36	275,541	76	851,931	
	Min.	128,350	106,178	168,073	229,428	290,593															80,909		327,231	
	End	224,127	129,386	229,269	329,156	429,048															89,435		488,986	
GC7xT28-SR1	Start	419,486	Please consult factory	480,666	653,996	Exceeds MOP														49	463,334	63	705,997	
	Min.	207,139		142,928	218,305																		135,214	240,648
	End	355,774		160,588	280,740																		148,574	316,787
GC7xT28-SR2	Start	369,545	Please consult factory	521,830	695,160	Exceeds MOP														43	400,506	63	747,162	
	Min.	183,120		169,602	244,033																		116,441	266,235
	End	314,569		210,471	330,622																		126,369	366,669
GC7xT28-SR3	Start	303,147	403,294	576,613	749,943	Exceeds MOP														36	333,969	63	801,944	
	Min.	151,173	129,455	203,928	277,764																99,068		299,850	
	End	259,734	156,645	276,789	396,941																108,590		432,988	
GC7xT28-SR4	Start	253,206	444,458	617,777	791,107	Exceeds MOP														30	271,151	63	843,108	
	Min.	127,153	155,408	229,281	302,867																		80,308	324,913
	End	218,529	206,528	326,671	446,823																		86,392	482,870

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200					
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC8x24-SR1	Start	630,825														Please consult factory	671,080	743,085	815,094	173	620,679	200	815,094	
	Min.	324,813															210,465	241,614	272,589		188,491		272,589	
	End	612,615															259,217	309,129	359,043		224,281		359,043	
GC8x24-SR2	Start	507,731									Please consult factory	476,010	547,999	619,993	691,990	763,991	835,995	908,004	140	476,010	200	908,004		
	Min.	267,290										149,236	180,361	211,254	242,026	272,725	303,350	333,953		149,236		333,953		
	End	519,608										182,562	232,463	282,367	332,273	382,182	432,093	482,008		182,562		482,008		
GC8x24-SR3	Start	430,507								Please consult factory	410,450	482,431	554,417	626,406	698,399	770,396	842,397	914,402	986,411	119	403,252	200	986,411	
	Min.	226,951									129,870	160,929	191,776	222,493	253,127	283,728	314,280	344,832	375,335		126,748		375,335	
	End	441,120									159,911	209,807	259,705	309,606	359,510	409,416	459,325	509,236	559,150		154,922		559,150	
GC8x28-SR1	Start	628,787								Please consult factory	700,377	802,552	904,735	1,006,924	1,109,120	Exceeds MOP				122	618,642	172	1,129,560	
	Min.	324,187									224,077	268,122	311,922	355,556	399,093						188,497		407,790	
	End	609,676									279,525	350,350	421,180	492,014	562,853						222,868		577,021	
GC8x28-SR2	Start	505,694						Please consult factory	486,802	588,957	691,119	793,287	895,463	997,645	1,099,834	1,202,030	Exceeds MOP				98	466,372	172	1,222,470
	Min.	266,667							154,759	198,816	242,526	286,076	329,542	372,919	416,289	459,588						145,882		468,248
	End	516,669							190,043	260,854	331,669	402,489	473,314	544,144	614,978	685,818						175,881		699,986
GC8x28-SR3	Start	428,470					Please consult factory	463,061	565,209	667,364	769,525	871,694	973,869	1,076,052	1,178,241	1,280,436	Exceeds MOP				84	401,775		1,300,876
	Min.	226,327						153,419	197,215	240,773	284,225	327,599	370,932	414,229	457,527	500,797						126,916	172	509,446
	End	438,181						196,380	267,186	337,997	408,812	479,632	550,457	621,287	692,121	762,960						153,898		777,129
GC8x32-SR1	Start	627,963					Please consult factory	711,603	845,653	979,710	1,113,775	Exceeds MOP								93	617,772	131	1,127,182	
	Min.	323,934						229,061	286,742	344,053	401,177										188,251		406,881	
	End	608,487						287,306	380,226	473,150	566,080										222,266		575,374	
GC8x32-SR2	Start	504,870				Please consult factory	536,436	670,471	804,513	938,563	1,072,620	1,206,686	Exceeds MOP							75	469,422	131	1,220,093	
	Min.	266,414					176,371	233,848	290,978	347,955	404,855	461,664									147,365		467,343	
	End	515,481					224,448	317,357	410,271	503,190	596,115	689,045									177,996		698,338	
GC8x32-SR3	Start	427,646			Please consult factory	480,816	614,843	748,877	882,920	1,016,969	1,151,027	1,285,092	Exceeds MOP							64	400,404	131	1,298,499	
	Min.	226,075				161,209	218,543	275,592	332,489	389,311	446,105	502,870									126,486		508,542	
	End	436,993				208,688	301,591	394,500	487,414	580,333	673,258	766,188									152,948		775,481	

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic
Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC8x36-SR1	Start	627,140				Please consult factory	731,527	901,714	1,071,909	Exceeds MOP									73	612,401	103	1,122,970	
	Min.	323,681					237,811	310,881	383,495											186,054		405,215	
	End	607,299					301,117	419,085	537,060											218,542		572,454	
GC8x36-SR2	Start	504,046		Please consult factory	484,089	654,259	824,437	994,624	1,164,820	Exceeds MOP									59	467,072	103	1,215,880	
	Min.	266,162			153,905	227,081	299,602	371,887	444,056											146,514		465,684	
	End	514,292			188,162	306,119	424,081	542,050	660,025											176,367		695,418	
GC8x36-SR3	Start	426,822	Please consult factory	392,334	562,496	732,665	902,844	1,073,031	1,243,226	Exceeds MOP									50	392,334	103	1,294,287	
	Min.	225,822		123,158	196,375	268,856	341,093	413,199	485,286											123,158		506,885	
	End	435,804		147,355	265,305	383,262	501,224	619,193	737,167											147,355		772,561	
GC8x40-SR1	Start	626,316		Please consult factory	632,434	843,014	1,053,604	Exceeds MOP											59	611,377	84	1,137,842	
	Min.	323,428			194,997	285,915	375,858													185,781		411,687	
	End	606,110			232,429	378,397	524,371													217,832		582,763	
GC8x40-SR2	Start	503,222	Please consult factory	514,774	725,344	935,924	1,146,514	Exceeds MOP											48	472,661	84	1,230,752	
	Min.	265,910		167,374	257,587	347,135	436,451													149,136		472,130	
	End	513,103		209,432	355,393	501,361	647,336													180,241		705,727	
GC8x40-SR3	Start	425,998	Please consult factory	593,180	803,751	1,014,331	1,224,921	Exceeds MOP											41	403,675	84	1,309,159	
	Min.	225,570		209,649	299,208	388,493	477,689													128,286		513,322	
	End	434,616		286,575	432,536	578,504	724,478													155,216		782,870	

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic

Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)	Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
		40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200					
		Pressure Torque Output: Start/Min./End (lbf-in)																					
GC8xT32-SR1	Start	620,812	Please consult factory	701,103	969,125	Exceeds MOP													47	620,699	65	1,103,142	
	Min.	321,737		226,798	341,799															191,835		398,919	
	End	598,170		280,028	465,813															224,294		558,710	
GC8xT32-SR2	Start	497,718	526,006	794,013	1,062,035	Exceeds MOP													38	472,406	65	1,196,052	
	Min.	264,225	174,124	288,748	402,612															150,928		459,415	
	End	505,163	217,218	402,992	588,778															180,064		681,674	
GC8xT32-SR3	Start	420,494	604,413	872,420	1,140,442	Exceeds MOP													32	390,018	65	1,274,459	
	Min.	223,885	216,321	330,264	443,867															124,231		500,624	
	End	426,675	294,361	480,135	665,920															145,749		758,817	
GC8xT36-SR1	Start	619,164	719,894	1,060,199	Exceeds MOP														37	617,806	52	1,128,262	
	Min.	321,231	235,305	381,008																190,976		409,964	
	End	595,793	293,054	528,943																222,289		576,122	
GC8xT36-SR2	Start	496,070	812,804	1,153,109	Exceeds MOP														30	472,517	52	1,221,172	
	Min.	263,720	297,131	441,579																151,399		470,414	
	End	502,786	416,018	651,907																180,141		699,087	
GC8xT36-SR3	Start	418,846	891,211	1,231,516	Exceeds MOP														25	380,786	52	1,299,579	
	Min.	223,381	338,628	482,812																120,643		511,608	
	End	424,298	493,161	729,050																139,350		776,229	
GC10x28-SR4	Start	856,662									Please consult factory	981,233	1,114,228	1,247,232	1,380,246	1,513,269	1,646,300	1,779,341	1,912,391	128	954,635	200	1,912,391
	Min.	418,262										286,352	344,807	402,527	459,836	516,892	573,786	630,562	687,222		274,510		687,222
	End	722,980										325,034	417,216	509,404	601,598	693,799	786,006	878,219	970,439		306,598		970,439

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)		
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200	
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC10x32-SR2	Start	1,171,423										Please consult factory	1,394,975	1,569,885	1,744,805	1,919,735	2,094,675	2,269,626	2,444,587	133	1,272,545	200	2,444,587	
	Min.	579,571											424,961	501,056	576,508	651,593	726,449	801,093	875,628		371,026		875,628	
	End	1,025,937											507,182	628,415	749,655	870,903	992,158	1,113,420	1,234,689		422,323		1,234,689	
GC10x32-SR3	Start	1,067,775									Please consult factory	1,387,213	1,562,113	1,737,022	1,911,942	2,086,872	2,261,813	2,436,764	2,611,725	121	1,229,813	200	2,611,725	
	Min.	511,464										416,325	492,649	568,284	643,486	718,377	793,074	867,693	942,126		346,410		942,126	
	End	858,646										489,491	610,717	731,951	853,191	974,439	1,095,693	1,216,955	1,338,224		380,393		1,338,224	
GC10x32-SR4	Start	855,580					Please consult factory	999,678	1,174,546	1,349,425	1,524,314	1,699,213	1,874,123	2,049,042	2,223,973	2,398,913	2,573,864	2,748,825	97	947,219	200	2,748,825		
	Min.	417,927						294,694	371,195	446,722	521,749	596,485	671,050	745,473	819,809	894,061	968,315	1,042,481		271,353		1,042,481		
	End	721,419						337,819	459,023	580,235	701,454	822,681	943,914	1,065,155	1,186,402	1,307,657	1,428,919	1,550,188		301,459		1,550,188		
GC10x36-SR2	Start	1,170,341					Please consult factory		1,391,136	1,613,512	1,835,899	2,058,298	2,280,708	Exceeds MOP						104	1,257,716	158	2,458,645	
	Min.	579,237							423,433	520,054	615,794	711,039	805,940								364,597		881,722	
	End	1,024,376							504,521	658,654	812,795	966,944	1,121,101								412,045		1,244,432	
GC10x36-SR3	Start	1,066,692					Please consult factory	1,335,909	1,558,274	1,780,649	2,003,037	2,225,435	2,447,846	Exceeds MOP						95	1,224,732	158	2,625,782	
	Min.	511,128						393,879	491,138	587,201	682,620	777,678	872,527								344,291		948,220	
	End	857,084						453,931	608,056	762,189	916,330	1,070,480	1,224,637								376,872		1,347,968	
GC10x36-SR4	Start	854,498				Please consult factory	1,028,316	1,250,657	1,473,010	1,695,374	1,917,750	2,140,137	2,362,536	2,584,946	Exceeds MOP						77	961,616	158	2,762,882
	Min.	417,591					307,536	404,325	499,945	594,999	689,754	784,357	878,746	973,137								277,992		1,048,549
	End	719,858					357,668	511,778	665,895	820,020	974,153	1,128,294	1,282,443	1,436,600								311,437		1,559,931
GC10x40-SR1	Start	1,451,758					Please consult factory		1,777,379	2,052,848	Exceeds MOP									105	1,639,650	128	2,273,232	
	Min.	706,621						532,377	652,445														471,446	747,574
	End	1,219,134						625,989	816,922														530,526	969,675
GC10x40-SR2	Start	1,169,259				Please consult factory	1,422,619	1,698,062	1,973,518	2,248,986	Exceeds MOP									84	1,257,359	128	2,469,370	
	Min.	578,904					437,371	556,719	674,904	792,554													364,632	886,424
	End	1,022,815					526,342	717,257	908,181	1,099,114													411,797	1,251,866
GC10x40-SR3	Start	1,065,610				Please consult factory	1,314,326	1,589,756	1,865,199	2,140,655	2,416,124	Exceeds MOP								77	1,231,699	128	2,636,508	
	Min.	510,793					384,534	504,977	623,706	741,665	859,178												347,642	952,922
	End	855,523					438,971	629,877	820,793	1,011,717	1,202,649												381,701	1,355,402
GC10x40-SR4	Start	853,415	Please consult factory	900,603	1,176,008	1,451,426	1,726,856	2,002,300	2,277,755	2,553,224	Exceeds MOP									60	900,603	128	2,773,608	
	Min.	417,256			250,773	372,222	490,898	608,611	725,891	842,921		959,821											250,773	1,053,232
	End	718,296			269,148	460,037	650,935	841,841	1,032,756	1,223,680		1,414,613											269,148	1,567,365

Note: All Published Torques are Guaranteed Minimum Values. Units are Imperial

Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure, (psig)																	MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200				
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC10xT32-SR1	Start	1,444,317					Please consult factory	1,883,860	2,233,576	Exceeds MOP										82	1,604,102	100	2,233,576
	Min.	704,315						581,912	733,464												458,453		733,464
	End	1,208,401						699,793	942,189												505,887		942,189
GC10xT32-SR2	Start	1,161,818			Please consult factory	1,380,627	1,730,302	2,079,998	2,429,714	Exceeds MOP										66	1,240,763	100	2,429,714
	Min.	576,608				421,819	573,397	723,323	872,469										360,063		872,469		
	End	1,012,081				497,237	739,604	981,985	1,224,380										400,294		1,224,380		
GC10xT32-SR3	Start	1,058,169		Please consult factory	1,198,110	1,547,765	1,897,440	2,247,135	2,596,852	Exceeds MOP										60	1,198,110	100	2,596,852
	Min.	508,487			335,222	489,541	640,375	789,947	938,966										335,222		938,966		
	End	844,790			358,420	600,772	843,139	1,085,520	1,327,916										358,420		1,327,916		
GC10xT32-SR4	Start	845,974	Please consult factory	985,577	1,335,211	1,684,865	2,034,540	2,384,236	2,733,952	Exceeds MOP										49	950,615	100	2,733,952
	Min.	414,950		291,575	443,672	593,429	742,392	890,951	1,039,335										276,005		1,039,335		
	End	707,563		328,045	570,383	812,736	1,055,103	1,297,484	1,539,879										303,812		1,539,879		
GC10xT36-SR1	Start	1,442,153		Please consult factory	1,846,193	2,290,852	Exceeds MOP													65	1,623,872	80	2,290,852
	Min.	703,644			565,895	758,477													467,748		758,477		
	End	1,205,278			673,686	981,888													519,590		981,888		
GC10xT36-SR2	Start	1,159,653		Please consult factory	1,597,695	2,042,331	2,486,991	Exceeds MOP												52	1,242,002	80	2,486,991
	Min.	575,941			516,645	707,626	897,217												361,093		897,217		
	End	1,008,959			647,691	955,877	1,264,079												401,153		1,264,079		
GC10xT36-SR3	Start	1,056,005	Please consult factory	1,320,219	1,764,832	2,209,469	2,654,128	Exceeds MOP												48	1,231,299	80	2,654,128
	Min.	507,816		390,417	583,807	774,277	963,715											350,736	963,715				
	End	841,667		443,056	751,226	1,059,413	1,367,615											381,423	1,367,615				
GC10xT36-SR4	Start	843,810	1,012,729	1,457,319	1,901,933	2,346,569	2,791,228	Exceeds MOP												38	923,813	80	2,791,228
	Min.	414,279	304,096	496,592	686,394	875,362	1,063,979											264,504	1,063,979				
	End	704,440	346,865	655,019	963,190	1,271,376	1,579,578											285,236	1,579,578				
GC10xT40-SR1	Start	1,439,988		Please consult factory	2,035,427	Exceeds MOP														52	1,594,798	64	2,255,748
	Min.	702,973			648,672													455,210	743,823				
	End	1,202,156			804,848													499,438	957,557				
GC10xT40-SR2	Start	1,157,489	Please consult factory	1,680,781	2,231,566	Exceeds MOP														42	1,240,172	64	2,451,887
	Min.	575,273		552,995	788,843												360,800	882,711					
	End	1,005,836		705,279	1,087,039												399,884	1,239,748					
GC10xT40-SR3	Start	1,053,840	1,297,159	1,847,919	2,398,703	Exceeds MOP														38	1,187,011	64	2,619,024
	Min.	507,146	380,706	619,998	855,467												331,199	949,209					
	End	838,545	427,073	808,815	1,190,575											350,726	1,343,284						
GC10xT40-SR4	Start	841,645	1,434,260	1,985,019	2,535,803	Exceeds MOP														31	938,598	64	2,756,124
	Min.	413,609	487,229	722,220	956,129											271,714	1,049,534						
	End	701,318	639,036	1,020,778	1,402,538											295,483	1,555,247						

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