

Bettis GC-Series

Hydraulic Double-Acting & Spring-Return Actuator Torque Chart Imperial

BETTIS™



Torque - Hydraulic 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)		
			400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000	
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC01x01.5	Start	Outboard	1,760	3,949	5,492	8,532	10,032	11,521	13,001	14,472	15,937	17,397	18,853	20,307	21,761	23,215	26,132	27,598	29,071	400	1,760	5,000	29,071	
	Min		1,227	2,563	3,509	5,382	6,311	7,235	8,156	9,073	9,987	10,899	11,810	12,720	13,630	14,540	16,364	17,279	18,196		1,227		18,196	
	End		2,537	5,693	7,917	12,301	14,464	16,611	18,744	20,866	22,978	25,082	27,182	29,278	31,374	33,470	37,676	39,790	41,913		2,537		41,913	
	Start	Inboard	1,288	3,351	4,794	7,616	8,998	10,365	11,717	13,058	14,389	15,713	17,032	18,347	19,662	20,978	23,622	24,955	26,298		1,288		26,298	
	Min		703	1,582	2,202	3,422	4,024	4,622	5,215	5,806	6,393	6,979	7,563	8,146	8,730	9,313	10,483	11,071	11,662		703		11,662	
	End		892	2,320	3,320	5,273	6,230	7,177	8,113	9,041	9,963	10,880	11,793	12,704	13,614	14,525	16,356	17,279	18,208		892		18,208	
GC01x01.7	Start	Outboard	2,562	5,559	7,680	11,880	13,961	16,033	18,095	20,150	22,199	24,243	26,284	28,322	30,361	Exceeds MOP					400	2,562	3,939	31,902
	Min		1,737	3,563	4,859	7,434	8,714	9,990	11,262	12,531	13,798	15,063	16,327	17,589	18,852							1,737		19,806
	End		3,694	8,014	11,072	17,128	20,129	23,116	26,089	29,052	32,006	34,953	37,895	40,834	43,773							3,694		45,995
	Start	Inboard	2,062	4,955	6,993	11,009	12,990	14,957	16,911	18,854	20,788	22,715	24,637	26,557	28,475							2,062		29,926
	Min		1,054	2,283	3,152	4,874	5,728	6,578	7,423	8,266	9,107	9,945	10,782	11,618	12,454							1,054		13,086
	End		1,428	3,431	4,842	7,622	8,994	10,356	11,709	13,054	14,393	15,728	17,059	18,388	19,716							1,428		20,721
GC01x02.0	Start	Outboard	3,529	7,441	10,208	15,682	18,394	21,091	23,776	26,450	29,115	31,774	Exceeds MOP								400	3,529	3,015	31,933
	Min		2,343	4,727	6,418	9,777	11,446	13,110	14,768	16,422	18,072	19,720								2,343		19,819		
	End		5,089	10,728	14,717	22,610	26,519	30,408	34,279	38,134	41,977	45,811								5,089		46,040		
	Start	Inboard	3,455	7,664	10,632	16,482	19,371	22,238	25,088	27,922	30,744	33,556										3,455		33,724
	Min		1,661	3,449	4,714	7,222	8,465	9,703	10,935	12,163	13,388	14,610										1,661		14,683
	End		2,392	5,307	7,362	11,412	13,412	15,398	17,371	19,333	21,287	23,234										2,392		23,351
GC01x02.2	Start	Outboard	4,652	9,611	13,123	20,083	23,535	26,971	30,393	Exceeds MOP											400	4,652	2,383	32,209
	Min		3,041	6,060	8,205	12,469	14,589	16,703	18,812											3,041		19,932		
	End		6,707	13,856	18,920	28,954	33,931	38,885	43,820											6,707		46,438		
	Start	Inboard	5,075	10,796	14,840	22,834	26,791	30,725	34,639													5,075		36,715
	Min		2,361	4,788	6,509	9,925	11,622	13,312	14,996													2,361		15,891
	End		3,514	7,475	10,275	15,810	18,550	21,274	23,984													3,514		25,421
GC01x02.5	Start	Outboard	5,914	12,044	16,390	25,013	29,294	Exceeds MOP												400	5,914	1,930	32,365	
	Min		3,823	7,554	10,206	15,483	18,108												3,823		19,995			
	End		8,526	17,364	23,631	36,063	42,235												8,526		46,663			
	Start	Inboard	6,892	14,300	19,545	29,934	35,084														6,892		38,777	
	Min		3,145	6,285	8,514	12,945	15,148														3,145		16,729	
	End		4,772	9,901	13,533	20,726	24,292														4,772		26,849	
GC01x03.0	Start	Outboard	8,860	17,704	23,984	Exceeds MOP													400	8,860	1,340	32,481		
	Min		5,644	11,024	14,852															5,644		20,040		
	End		12,774	25,526	34,580															12,774		46,829		
	Start	Inboard	11,139	22,460	30,493																	11,139	41,353	
	Min		4,972	9,765	13,174																	4,972	17,792	
	End		7,713	15,551	21,113																	7,713	28,633	
GC01x03.5	Start	Outboard	12,371	24,425	Exceeds MOP														400	12,371	985	32,478		
	Min		7,808	15,137																7,808		20,042		
	End		17,837	35,214																17,837		46,826		
	Start	Inboard	16,203	32,152																		16,203	42,804	
	Min		7,144	13,892																		7,144	18,408	
	End		11,219	22,262																		11,219	29,637	

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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)	
			400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC2x01.7	Outboard	Start	3,102	6,730	9,297	14,382	16,903	19,410	21,907	24,395	26,875	29,350	31,821	34,289	36,756	39,225	44,171	46,653	Exceeds MOP	400	4,820	3,102	47,349
		Min	2,103	4,312	5,881	8,998	10,548	12,092	13,632	15,169	16,702	18,233	19,763	21,291	22,819	24,348	27,409	28,943				2,103	29,373
		End	4,472	9,701	13,403	20,733	24,366	27,981	31,581	35,167	38,743	42,310	45,872	49,430	52,987	56,545	63,676	67,253				4,472	68,257
	Inboard	Start	2,496	5,997	8,464	13,324	15,722	18,102	20,467	22,818	25,159	27,491	29,818	32,141	34,463	36,787	41,448	43,790				2,496	44,448
		Min	1,276	2,762	3,815	5,899	6,932	7,961	8,984	10,004	11,021	12,036	13,049	14,061	15,073	16,085	18,113	19,131				1,276	19,416
		End	1,729	4,154	5,863	9,230	10,891	12,540	14,178	15,807	17,429	19,044	20,656	22,266	23,874	25,484	28,713	30,335				1,729	30,791
GC2x02.0	Outboard	Start	4,273	9,008	12,358	18,986	22,268	25,534	28,784	32,021	35,248	38,467	41,681	44,891	Exceeds MOP	400	3,691	4,273	47,342				
		Min	2,837	5,722	7,769	11,835	13,855	15,869	17,876	19,878	21,876	23,871	25,863	27,854				2,837	29,375				
		End	6,160	12,986	17,815	27,369	32,102	36,809	41,494	46,161	50,813	55,454	60,086	64,713				6,160	68,247				
	Inboard	Start	4,181	9,276	12,868	19,948	23,444	26,915	30,363	33,793	37,209	40,612	44,007	47,398				4,181	49,987				
		Min	2,010	4,174	5,705	8,740	10,245	11,743	13,234	14,721	16,203	17,682	19,158	20,633				2,010	21,760				
		End	2,896	6,426	8,914	13,819	16,241	18,645	21,034	23,410	25,776	28,134	30,486	32,835				2,896	34,628				
GC2x02.2	Outboard	Start	5,632	11,635	15,887	24,313	28,492	32,652	36,796	40,925	45,043	Exceeds MOP	400	2,916	5,632	47,772							
		Min	3,681	7,336	9,932	15,093	17,660	20,219	22,771	25,318	27,860				3,681	29,546							
		End	8,119	16,773	22,902	35,049	41,074	47,071	53,044	58,996	64,933				8,119	68,867							
	Inboard	Start	6,143	13,066	17,960	27,636	32,425	37,186	41,923	46,641	51,341				6,143	54,456							
		Min	2,858	5,794	7,877	12,012	14,065	16,111	18,150	20,183	22,211				2,858	23,556							
		End	4,255	9,052	12,442	19,145	22,462	25,760	29,042	32,310	35,567				4,255	37,724							
GC2x02.5	Outboard	Start	7,159	14,581	19,843	30,282	35,465	40,627	45,770	Exceeds MOP	400	2,362	7,159	48,070									
		Min	4,627	9,144	12,355	18,741	21,920	25,090	28,252				4,627	29,667									
		End	10,321	21,019	28,605	43,654	51,125	58,566	65,982				10,321	69,296									
	Inboard	Start	8,341	17,307	23,655	36,229	42,462	48,666	54,843				8,341	57,604									
		Min	3,806	7,606	10,304	15,666	18,333	20,990	23,641				3,806	24,826									
		End	5,778	11,989	16,387	25,097	29,415	33,713	37,993				5,778	39,905									
GC2x03.0	Outboard	Start	10,726	21,434	29,037	44,144	Exceeds MOP	400	1,640	10,726	48,353												
		Min	6,832	13,344	17,978	27,205				6,832	29,780												
		End	15,463	30,899	41,859	63,637				15,463	69,705												
	Inboard	Start	13,482	27,183	36,905	56,206				13,482	61,580												
		Min	6,017	11,819	15,944	24,155				6,017	26,445												
		End	9,339	18,831	25,566	38,936				9,339	42,659												
GC2x03.5	Outboard	Start	14,977	29,570	39,941	Exceeds MOP	400	1,205	14,977	48,416													
		Min	9,451	18,323	24,639				9,451	29,806													
		End	21,591	42,627	57,578				21,591	69,796													
	Inboard	Start	19,611	38,913	52,626				19,611	63,829													
		Min	8,646	16,813	22,627				8,646	27,382													
		End	13,585	26,957	36,456				13,585	44,217													
GC2x04.0	Outboard	Start	19,914	38,992	Exceeds MOP	400	923	19,914	48,386														
		Min	12,487	24,081				12,487	29,798														
		End	28,708	56,209				28,708	69,752														
	Inboard	Start	26,726	52,491				26,726	65,176														
		Min	11,690	22,589				11,690	27,961														
		End	18,514	36,363				18,514	45,150														

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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)									
			400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000								
			Pressure Torque Output: Start/Min./End (lbf-in)																												
GC3x02.0	Start	Outboard	5,054	10,784	14,835	22,844	26,808	30,750	34,672	38,578	42,471	46,353	50,228	54,098	57,967	61,838	69,597	73,492	77,401	400	5,054	5,000	77,401								
	Min		3,404	6,915	9,405	14,348	16,803	19,249	21,688	24,119	26,545	28,967	31,385	33,802	36,219	38,636	43,478	45,905	48,337					3,404	48,337						
	End		7,380	15,747	21,662	33,357	39,146	44,902	50,630	56,334	62,017	67,686	73,344	78,996	84,646	90,298	101,629	107,316	113,023							7,380	113,023				
	Start	Inboard	3,588	8,636	12,179	19,133	22,551	25,936	29,293	32,625	35,939	39,236	42,524	45,805	49,084	52,365	58,954	62,270	65,607									3,588	65,607		
	Min		1,827	3,958	5,463	8,436	9,906	11,367	12,819	14,266	15,706	17,143	18,576	20,008	21,439	22,871	25,742	27,183	28,631											1,827	28,631
	End		2,456	5,910	8,335	13,094	15,433	17,750	20,047	22,328	24,596	26,853	29,102	31,348	33,592	35,838	40,347	42,616	44,900												
GC3x02.2	Start	Outboard	6,700	13,966	19,109	29,296	34,346	39,371	44,375	49,361	54,333	59,293	64,245	69,193	74,139	79,087	Exceeds MOP	400	6,700	4,192	82,891										
	Min		4,432	8,880	12,038	18,315	21,435	24,545	27,647	30,742	33,830	36,914	39,995	43,074	46,152	49,231						4,432	51,597								
	End		9,784	20,393	27,904	42,779	50,153	57,491	64,798	72,079	79,339	86,582	93,813	101,038	108,261	115,486								9,784	121,040						
	Start	Inboard	5,993	13,284	18,425	28,559	33,563	38,532	43,469	48,380	53,269	58,143	63,004	67,859	72,711	77,567										5,993	81,301				
	Min		2,858	5,931	8,107	12,418	14,555	16,683	18,802	20,914	23,020	25,121	27,219	29,315	31,411	33,507												2,858	35,118		
	End		4,102	9,091	12,609	19,545	22,970	26,370	29,749	33,110	36,456	39,791	43,119	46,441	49,762	53,085														4,102	55,641
GC3x02.5	Start	Outboard	8,550	17,533	23,900	36,525	42,790	49,029	55,244	61,441	67,621	73,789	79,949	Exceeds MOP	400	8,550	3,395	83,519													
	Min		5,585	11,082	14,988	22,756	26,621	30,476	34,320	38,157	41,988	45,813	49,635						5,585	51,851											
	End		12,485	25,602	34,899	53,335	62,484	71,594	80,670	89,718	98,743	107,750	116,744								12,485	121,957									
	Start	Inboard	8,692	18,490	25,415	39,108	45,886	52,625	59,330	66,007	72,661	79,296	85,920										8,692	89,757							
	Min		4,014	8,138	11,064	16,871	19,755	22,629	25,493	28,349	31,199	34,044	36,885												4,014	38,532					
	End		5,949	12,654	17,394	26,765	31,403	36,015	40,604	45,174	49,727	54,269	58,801														5,949	61,428			
GC3x03.0	Start	Outboard	12,870	25,833	35,034	53,312	62,397	71,451	80,478	Exceeds MOP	400	12,870	2,358	84,371																	
	Min		8,269	16,195	21,834	33,061	38,652	44,230	49,798						8,269	52,200															
	End		18,793	37,722	51,159	77,849	91,115	104,335	117,517								18,793	123,202													
	Start	Inboard	14,993	30,595	41,656	63,594	74,484	85,329	96,135										14,993	100,793											
	Min		6,704	13,263	17,925	27,198	31,812	36,414	41,004												6,704	42,985									
	End		10,261	20,939	28,508	43,523	50,975	58,397	65,793														10,261	68,980							
GC3x03.5	Start	Outboard	18,018	35,686	48,240	73,207	Exceeds MOP	400	18,018	1,732	84,736																				
	Min		11,458	22,257	29,943	45,259						11,458	52,343																		
	End		26,311	52,110	70,442	106,900								26,311	123,734																
	Start	Inboard	22,509	44,979	60,935	92,637										22,509	107,266														
	Min		9,903	19,343	26,059	39,434												9,903	45,617												
	End		15,405	30,783	41,702	63,399														15,405	73,410										
GC3x04.0	Start	Outboard	23,997	47,096	63,523	Exceeds MOP	400	23,997	1,326	84,861																					
	Min		15,154	29,267	39,319						15,154	52,393																			
	End		35,042	68,772	92,758								35,042	123,917																	
	Start	Inboard	31,234	61,630	83,235										31,234	111,290															
	Min		13,608	26,372	35,460												13,608	47,276													
	End		21,376	42,178	56,964														21,376	76,164											
GC3x04.5	Start	Outboard	30,807	60,064	80,882	Exceeds MOP	400	30,807	1,048	84,871																					
	Min		19,356	37,228	49,961						19,356	52,402																			
	End		44,986	87,708	118,106								44,986	123,932																	
	Start	Inboard	41,171	80,554	108,566										41,171	113,934															
	Min		17,822	34,354	46,129												17,822	48,387													
	End		28,177	55,129	74,300														28,177	77,974											

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			400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC4x02.5	Outboard	Start	10,273	21,212	28,949	44,261	51,846	59,391	66,900	74,381	81,837	89,275	96,700	104,117	111,532	118,950	133,817	141,277	148,763	400	5,000	10,273	148,763
		Min	6,716	13,380	18,110	27,504	32,172	36,824	41,462	46,088	50,704	55,312	59,916	64,516	69,115	73,716	82,930	87,548	92,176			6,716	92,176
		End	14,818	30,595	41,756	63,841	74,781	85,663	96,495	107,284	118,039	128,767	139,476	150,175	160,870	171,569	193,013	203,774	214,570			14,818	214,570
	Inboard	Start	8,239	18,258	25,307	39,167	45,995	52,764	59,484	66,161	72,803	79,419	86,016	92,602	99,184	105,771	118,991	125,639	132,323			8,239	132,323
		Min	3,962	8,219	11,230	17,184	20,133	23,065	25,983	28,889	31,785	34,674	37,557	40,437	43,317	46,198	51,972	54,870	57,778			3,962	57,778
		End	5,705	12,644	17,525	27,123	31,851	36,539	41,192	45,816	50,415	54,997	59,565	64,126	68,684	73,246	82,400	87,004	91,632			5,705	91,632
GC4x03.0	Outboard	Start	15,547	31,343	42,542	64,755	75,781	86,762	97,704	108,613	119,495	130,356	141,202	152,040	162,875	Exceeds MOP	400	3,884	15,547	168,684			
		Min	9,975	19,591	26,425	40,018	46,782	53,528	60,258	66,975	73,681	80,378	87,069	93,757	100,444				9,975	104,029			
		End	22,424	45,208	61,361	93,400	109,304	125,143	140,925	156,659	172,355	188,021	203,665	219,297	234,926				22,424	243,304			
	Inboard	Start	15,838	32,859	44,895	68,700	80,487	92,209	103,874	115,492	127,071	138,620	150,148	161,663	173,175				15,838	179,346			
		Min	7,230	14,445	19,565	29,729	34,779	39,810	44,826	49,828	54,819	59,802	64,779	69,752	74,724				7,230	77,390			
		End	10,968	22,755	31,089	47,574	55,737	63,854	71,932	79,977	87,996	95,993	103,976	111,950	119,922				10,968	124,196			
GC4x03.5	Outboard	Start	21,832	43,371	58,663	89,041	104,141	119,190	134,196	149,166	164,105	Exceeds MOP	400	2,853	21,832	170,253							
		Min	13,848	26,951	36,273	54,832	64,076	73,300	82,505	91,696	100,875				13,848	104,654							
		End	31,489	62,557	84,613	128,429	150,209	171,916	193,560	215,152	236,700				31,489	245,568							
	Inboard	Start	24,904	50,208	68,147	103,729	121,391	138,982	156,509	173,984	191,415				24,904	198,587							
		Min	11,116	21,831	29,446	44,594	52,131	59,648	67,148	74,633	82,105				11,116	85,181							
		End	17,245	34,768	47,191	71,831	84,062	96,244	108,381	120,482	132,553				17,245	137,519							
GC4x04.0	Outboard	Start	29,131	57,300	77,318	117,129	136,936	156,688	Exceeds MOP	400	2,184	29,131	171,195										
		Min	18,337	35,465	47,658	71,953	84,061	96,147				18,337	105,029										
		End	42,017	82,648	111,522	168,943	197,512	226,002				42,017	246,925										
	Inboard	Start	35,427	70,290	95,044	144,225	168,675	193,045				35,427	210,936										
		Min	15,617	30,370	40,866	61,765	72,175	82,563				15,617	90,196										
		End	24,533	48,675	65,817	99,875	116,806	133,682				24,533	146,072										
GC4x04.5	Outboard	Start	37,406	73,045	98,362	148,696	Exceeds MOP	400	1,726	37,406	171,332												
		Min	23,425	45,098	60,523	91,250				23,425	105,093												
		End	53,953	105,357	141,875	214,475				53,953	247,124												
	Inboard	Start	47,358	92,990	125,384	189,739				47,358	218,661												
		Min	20,721	40,031	53,768	81,120				20,721	93,436												
		End	32,795	64,394	86,828	131,392				32,795	151,421												
GC4x05.0	Outboard	Start	46,728	90,765	122,070	Exceeds MOP	400	1,398	46,728	171,677													
		Min	29,141	55,914	74,977				29,141	105,231													
		End	67,399	130,917	176,069				67,399	247,621													
	Inboard	Start	60,798	118,539	159,565				60,798	224,547													
		Min	26,454	50,879	68,265				26,454	95,849													
		End	42,102	82,087	110,497				42,102	155,497													
GC4x06.0	Outboard	Start	68,409	131,900	Exceeds MOP	400	971	68,409	171,842														
		Min	42,416	81,001				42,416	105,304														
		End	98,670	190,248				98,670	247,859														
	Inboard	Start	92,057	177,846				92,057	231,802														
		Min	39,769	76,040				39,769	98,883														
		End	63,749	123,157				63,749	160,521														

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Torque - Hydraulic 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)	
			400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC5x03.5	Start	Outboard	27,776	55,519	75,156	114,042	133,317	152,496	171,592	190,618	209,588	228,514	247,409	266,285	285,157	304,035	341,867	360,846	379,884	400	5,000	27,776	379,884
	Min		17,728	34,630	46,631	70,476	82,331	94,146	105,928	117,682	129,413	141,126	152,827	164,520	176,211	187,906	211,324	223,059	234,817			17,728	234,817
	End		40,060	80,072	108,394	164,478	192,277	219,937	247,479	274,920	302,279	329,575	356,826	384,051	411,268	438,496	493,060	520,432	547,889			40,060	547,889
	Start	Inboard	24,928	51,695	70,557	107,720	126,059	144,260	162,341	180,323	198,222	216,059	233,850	251,616	269,373	287,142	322,786	340,699	358,696			24,928	358,696
	Min		11,400	22,769	30,817	46,756	54,658	62,520	70,349	78,149	85,927	93,687	101,434	109,174	116,912	124,652	140,164	147,945	155,750			11,400	155,750
	End		17,277	35,829	48,902	74,660	87,370	99,985	112,517	124,980	137,386	149,748	162,079	174,392	186,700	199,015	223,720	236,135	248,609			17,277	248,609
GC5x04.0	Start	Outboard	37,207	73,515	99,255	150,309	175,652	200,891	226,040	251,113	276,124	301,086	326,015	350,925	375,828	Exceeds MOP	400	3,858	37,207	386,588			
	Min		23,530	45,636	61,348	92,599	108,150	123,659	139,131	154,573	169,990	185,387	200,770	216,146	231,519				23,530	238,161			
	End		53,663	106,028	143,151	216,784	253,335	289,736	326,007	362,168	398,240	434,243	470,197	506,123	542,040				53,663	557,558			
	Start	Inboard	38,519	77,629	105,285	159,983	187,067	214,001	240,805	267,500	294,105	320,641	347,129	373,587	400,038				38,519	411,467			
	Min		17,217	33,803	45,572	68,937	80,544	92,110	103,639	115,137	126,610	138,063	149,503	160,935	172,364				17,217	177,302			
	End		26,697	53,804	72,972	110,883	129,655	148,322	166,900	185,402	203,841	222,233	240,591	258,930	277,262				26,697	285,184			
GC5x04.5	Start	Outboard	47,950	93,970	126,631	191,492	223,723	255,842	287,862	319,801	351,672	383,491	Exceeds MOP	400	3,049	47,950	389,723						
	Min		30,128	58,134	78,053	117,704	137,449	157,149	176,809	196,435	216,035	235,613				30,128	239,449						
	End		69,156	135,529	182,634	276,181	322,666	368,989	415,171	461,234	507,201	553,092				69,156	562,080						
	Start	Inboard	54,000	107,106	144,736	219,331	256,341	293,189	329,896	366,485	402,976	439,393				54,000	446,524						
	Min		23,832	46,334	62,321	94,108	109,921	125,688	141,415	157,109	172,776	188,422				23,832	191,486						
	End		37,427	74,234	100,315	152,016	177,668	203,207	228,648	254,007	279,299	304,539				37,427	309,481						
GC5x05.0	Start	Outboard	60,004	116,883	157,284	237,591	277,530	317,347	357,059	Exceeds MOP	400	2,469	60,004	391,774									
	Min		37,521	72,123	96,746	145,793	170,229	194,616	218,961				37,521	240,257									
	End		86,540	168,575	226,844	342,667	400,269	457,695	514,970				86,540	565,037									
	Start	Inboard	71,365	140,117	188,898	285,746	333,860	381,799	429,587				71,365	471,343									
	Min		31,243	60,356	81,058	122,263	142,778	163,244	183,667				31,243	201,528									
	End		49,463	97,113	130,923	198,048	231,395	264,621	297,743				49,463	326,684									
GC5x06.0	Start	Outboard	88,037	170,071	228,407	344,514	Exceeds MOP	400	1,715	88,037	394,237												
	Min		54,690	104,568	140,090	210,904				54,690	241,273												
	End		126,972	245,286	329,421	496,876				126,972	568,590												
	Start	Inboard	111,768	216,773	291,403	439,847				111,768	503,386												
	Min		48,459	92,890	124,521	187,553				48,459	214,574												
	End		77,465	150,244	201,969	304,854				77,465	348,892												
GC5x07.0	Start	Outboard	121,314	233,091	312,640	Exceeds MOP	400	1,260	121,314	395,139													
	Min		75,042	142,979	191,388				75,042	241,639													
	End		174,966	336,177	450,907				174,966	569,891													
	Start	Inboard	159,719	307,581	412,777				159,719	521,846													
	Min		68,862	131,398	175,948				68,862	222,187													
	End		110,699	213,182	286,092				110,699	361,686													
GC5x08.0	Start	Outboard	159,651	305,524	Exceeds MOP	400	965	159,651	394,771														
	Min		98,498	187,183				98,498	241,515														
	End		230,257	440,643				230,257	569,361														
	Start	Inboard	214,969	411,971				214,969	532,467														
	Min		92,382	175,722				92,382	226,770														
	End		148,993	285,533				148,993	369,048														

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Torque - Hydraulic 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)	
			400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC7x04.0	Outboard	Start	45,468	90,053	121,650	184,301	215,390	246,347	277,188	307,932	338,597	369,200	399,760	430,295	460,822	491,360	552,539	583,216	613,976	400	5,000	45,468	613,976
		Min	28,820	55,980	75,279	113,658	132,752	151,792	170,785	189,739	208,661	227,558	246,438	265,307	284,174	303,044	340,827	359,754	378,715			28,820	378,715
		End	65,577	129,881	175,453	265,814	310,654	355,302	399,784	444,126	488,353	532,492	576,568	620,608	664,636	708,681	796,918	841,164	885,528			65,577	885,528
	Inboard	Start	42,036	85,734	116,588	177,514	207,637	237,568	267,333	296,958	326,468	355,890	385,250	414,573	443,886	473,213	532,018	561,547	591,194			42,036	591,194
		Min	18,981	37,538	50,691	76,778	89,726	102,619	115,466	128,274	141,049	153,799	166,532	179,254	191,974	204,697	230,187	242,967	255,781			18,981	255,781
		End	29,139	59,430	80,818	123,052	143,933	164,681	185,314	205,849	226,306	246,701	267,053	287,380	307,699	328,029	368,792	389,261	409,813			29,139	409,813
GC7x04.5	Outboard	Start	58,665	115,181	155,281	234,894	274,445	313,853	353,136	392,315	431,407	470,434	509,414	548,366	587,310	626,265	704,288	743,395	Exceeds MOP	400	4,813	58,665	753,263
		Min	36,929	71,339	95,809	144,512	168,760	192,950	217,090	241,187	265,250	289,285	313,302	337,308	361,310	385,317	433,377	457,445				36,929	463,515
		End	84,611	166,124	223,959	338,783	395,828	452,665	509,323	565,829	622,212	678,499	734,719	790,899	847,068	903,253	1,015,784	1,072,186				84,611	1,086,419
	Inboard	Start	61,051	121,941	165,047	250,412	292,728	334,836	376,765	418,543	460,197	501,756	543,247	584,699	626,140	667,596	750,671	792,345				61,051	802,866
		Min	27,112	52,939	71,278	107,717	125,833	143,891	161,898	179,863	197,793	215,696	233,580	251,453	269,323	287,197	322,991	340,926				27,112	345,451
		End	42,320	84,529	114,410	173,584	202,917	232,107	261,172	290,132	319,006	347,815	376,576	405,310	434,037	462,774	520,361	549,249				42,320	556,542
GC7x05.0	Outboard	Start	73,472	143,329	192,938	291,526	340,546	389,412	438,144	486,763	535,291	583,747	632,152	680,529	728,897	Exceeds MOP	400	3,898	73,472	757,535			
		Min	46,015	88,531	118,783	179,032	209,045	238,997	268,894	298,745	328,559	358,345	388,110	417,863	447,612				46,015	465,226			
		End	105,968	206,722	278,272	420,463	491,165	561,643	631,928	702,051	772,041	841,929	911,744	981,516	1,051,276				105,968	1,092,580			
	Inboard	Start	82,387	162,500	219,307	332,013	387,971	443,708	499,251	554,632	609,880	665,026	720,100	775,131	830,149				82,387	862,726			
		Min	36,223	70,178	94,315	142,332	166,229	190,064	213,844	237,579	261,277	284,945	308,593	332,229	355,862				36,223	369,855			
		End	57,110	112,644	152,022	230,149	268,940	307,576	346,078	384,468	422,766	460,993	499,169	537,316	575,455				57,110	598,037			
GC7x06.0	Outboard	Start	107,911	208,670	280,312	422,879	493,851	564,647	635,291	705,807	Exceeds MOP	400	2,707	107,911	764,114								
		Min	67,115	128,405	172,051	259,051	302,426	345,729	388,971	432,161				67,115	467,889								
		End	155,639	300,962	404,290	609,911	712,273	814,382	916,271	1,017,974				155,639	1,102,069								
	Inboard	Start	132,009	256,648	345,202	521,276	608,865	696,201	783,317	870,248				132,009	942,111								
		Min	57,382	110,162	147,729	222,572	259,867	297,090	334,252	371,362				57,382	402,056								
		End	91,508	177,907	239,292	361,346	422,062	482,603	542,991	603,251				91,508	653,067								

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Torque - Hydraulic 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)		
		400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000	
Pressure Torque Output: Start/Min./End (lbf-in)																							
GC7x07.0	Start	Outboard	148,792	286,090	383,791	578,390	675,340	Exceeds MOP											400	148,792	1,989	767,840	
	Min		92,126	175,611	235,095	353,736	412,915															92,126	469,416
	End		214,600	412,623	553,536	834,203	974,033															214,600	1,107,444
	Start	Inboard	190,908	368,190	494,289	745,327	870,344															190,908	989,593
	Min		82,459	157,494	210,940	317,507	370,649															82,459	421,378
	End		132,336	255,227	342,638	516,657	603,318															132,336	685,981
GC7x08.0	Start	Outboard	195,888	375,073	502,507	756,167	Exceeds MOP												400	195,888	1,532	772,352	
	Min		120,953	229,936	307,557	462,310																120,953	472,194
	End		282,526	540,961	724,758	1,090,607																282,526	1,113,950
	Start	Inboard	258,773	496,414	665,359	1,001,504																258,773	1,022,947
	Min		111,368	211,973	283,609	426,389																111,368	435,507
	End		179,380	344,112	461,223	694,238																179,380	709,101
GC7x09.0	Start	Outboard	249,612	476,561	638,053	Exceeds MOP													400	249,612	1,203	768,843	
	Min		153,766	291,766	390,090																	153,766	469,790
	End		360,011	687,336	920,254																	360,011	1,108,891
	Start	Inboard	336,183	642,646	860,664																	336,183	1,037,202
	Min		144,271	273,973	366,368																	144,271	441,254
	End		233,040	445,479	596,608																	233,040	718,983
GC7x10.0	Start	Outboard	309,774	590,120	Exceeds MOP														400	309,774	975	769,760	
	Min		190,487	360,924																		190,487	470,255
	End		446,782	851,121																		446,782	1,110,213
	Start	Inboard	422,869	806,272																		422,869	1,051,906
	Min		181,093	343,321																		181,093	447,374
	End		293,131	558,904																		293,131	729,176

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Torque - Hydraulic 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)	
			400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000
			Pressure Torque Output: Start/Min./End (lbf-in)																				
GC8x05.0	Start	Outboard	86,458	169,159	227,866	344,481	402,442	460,207	517,804	575,257	632,594	689,841	747,024	804,170	861,305	918,455	1,032,908	1,090,264	Exceeds MOP	400	86,458	4,765	1,093,709
	Min		54,276	104,622	140,434	211,737	247,248	282,680	318,044	353,350	388,608	423,830	459,027	494,208	529,385	564,568	634,996	670,262			54,276		672,379
	End		124,726	244,033	328,725	496,957	580,573	663,907	746,997	829,881	912,597	995,182	1,077,676	1,160,116	1,242,541	1,324,987	1,490,100	1,572,843			124,726		1,577,813
	Start	Inboard	83,043	165,867	224,500	340,615	398,174	455,450	512,483	569,310	625,969	682,498	738,935	795,319	851,686	908,077	1,021,076	1,077,762			83,043		1,081,168
	Min		36,867	71,986	96,923	146,473	171,107	195,662	220,148	244,576	268,957	293,302	317,621	341,924	366,223	390,529	439,201	463,590			36,867		465,054
	End		57,563	114,974	155,616	236,104	276,002	315,705	355,238	394,629	433,903	473,087	512,208	551,291	590,364	629,452	707,780	747,072			57,563		749,434
GC8x06.0	Start	Outboard	127,251	246,556	331,361	500,070	584,033	667,775	751,327	834,717	917,975	1,001,132	1,084,217	1,167,260	Exceeds MOP	400	127,251	3,684	1,228,370				
	Min		79,271	151,855	203,534	306,526	357,864	409,112	460,284	511,390	562,442	613,454	664,436	715,402			79,271		752,908				
	End		183,575	355,688	478,030	721,413	842,541	963,350	1,083,883	1,204,184	1,324,295	1,444,259	1,564,120	1,683,919			183,575		1,772,078				
	Start	Inboard	141,838	277,419	373,667	564,865	659,901	754,618	849,060	943,269	1,037,289	1,131,162	1,224,931	1,318,640			141,838		1,387,596				
	Min		61,929	119,346	160,191	241,516	282,019	322,433	362,769	403,040	443,258	483,434	523,581	563,711			61,929		593,243				
	End		98,318	192,299	259,015	391,548	457,424	523,079	588,543	653,846	719,018	784,088	849,086	914,042			98,318		961,841				
GC8x07.0	Start	Outboard	175,674	338,260	453,933	684,274	799,009	913,498	1,027,773	1,141,869	Exceeds MOP	400	175,674	2,707	1,236,228								
	Min		108,898	207,774	278,214	418,686	488,746	558,706	628,580	698,382			108,898		756,132								
	End		253,432	487,983	654,856	987,152	1,152,671	1,317,835	1,482,693	1,647,290			253,432		1,783,415								
	Start	Inboard	211,616	409,564	550,293	830,302	969,679	1,108,701	1,247,417	1,385,873			211,616		1,500,353								
	Min		91,629	175,403	235,055	353,952	413,224	472,396	531,481	590,494			91,629		639,310								
	End		146,686	283,898	381,447	575,541	672,153	768,519	864,672	960,646			146,686		1,040,000								
GC8x08.0	Start	Outboard	231,460	443,661	594,553	894,852	1,044,358	1,193,500	Exceeds MOP	400	231,460	2,072	1,236,392										
	Min		143,046	272,126	364,050	547,299	638,663	729,879			143,046		756,125										
	End		333,910	640,037	857,718	1,290,937	1,506,618	1,721,773			333,910		1,783,651										
	Start	Inboard	292,017	561,474	752,962	1,133,800	1,323,290	1,512,256			292,017		1,566,591										
	Min		125,867	239,926	321,120	482,906	563,538	644,023			125,867		667,177										
	End		202,418	389,197	521,931	785,916	917,265	1,048,251			202,418		1,085,914										
GC8x09.0	Start	Outboard	295,096	563,875	755,109	1,135,937	Exceeds MOP	400	295,096	1,637	1,239,948												
	Min		181,915	345,367	461,815	694,048			181,915		757,544												
	End		425,714	813,461	1,089,339	1,638,733			425,714		1,788,781												
	Start	Inboard	383,726	734,718	984,344	1,481,235			383,726		1,616,898												
	Min		164,836	313,355	419,136	630,032			164,836		687,681												
	End		265,988	509,285	682,318	1,026,748			265,988		1,120,785												
GC8x10.0	Start	Outboard	366,359	698,388	934,729	Exceeds MOP	400	366,359	1,326	1,242,000													
	Min		225,413	427,289	571,154			225,413		758,382													
	End		528,519	1,007,512	1,348,465			528,519		1,791,742													
	Start	Inboard	486,418	928,555	1,243,184			486,418		1,652,135													
	Min		208,443	395,482	528,748			208,443		702,154													
	End		337,170	643,647	861,738			337,170		1,145,211													
GC8x12.0	Start	Outboard	531,368	1,009,409	Exceeds MOP	400	531,368	921	1,242,233														
	Min		326,137	616,805			326,137		758,521														
	End		766,565	1,456,200			766,565		1,792,077														
	Start	Inboard	724,225	1,376,791			724,225		1,694,560														
	Min		309,428	585,490			309,428		720,068														
	End		502,011	954,351			502,011		1,174,618														

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

Torque - Hydraulic 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)					
			400	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000					4500	4750	5000		
			Pressure Torque Output: Start/Min./End (lbf-in)																						
GC10x06.0	Start	Outboard	166,412	323,078	434,409	655,820	765,982	875,837	985,427	1,094,793	1,203,976	1,313,018	1,421,961	1,530,844	1,639,711	1,748,602	1,966,622	2,075,835	2,185,237	400	5,000	166,412	2,185,237		
	Min		103,851	199,195	267,066	402,302	469,699	536,973	604,139	671,215	738,217	805,161	872,065	938,946	1,005,819	1,072,703	1,206,566	1,273,579	1,340,670			103,851	1,340,670		
	End		240,051	466,043	626,639	946,025	1,104,935	1,263,402	1,421,487	1,579,248	1,736,746	1,894,040	2,051,190	2,208,256	2,365,297	2,522,373	2,836,869	2,994,409	3,152,222			240,051	3,152,222		
	Start	Inboard	163,598	322,679	435,482	659,284	770,403	881,079	991,373	1,101,344	1,211,052	1,320,556	1,429,916	1,539,192	1,648,444	1,757,730	1,976,647	2,086,396	2,196,420			400	5,000	163,598	2,196,420
	Min		71,917	139,331	187,250	282,582	330,028	377,349	424,563	471,685	518,733	565,724	612,675	659,602	706,522	753,451	847,408	894,468	941,605					71,917	941,605
	End		113,393	223,655	301,841	456,963	533,982	610,694	687,140	763,364	839,404	915,304	991,104	1,066,845	1,142,569	1,218,318	1,370,054	1,446,123	1,522,383					113,393	1,522,383
Start	Outboard	230,024	443,546	595,427	897,800	1,048,385	1,198,630	1,348,582	1,498,284	1,647,785	1,797,129	1,946,362	2,095,530	2,244,680	2,393,856	Exceeds MOP	400	4,125	230,024	2,468,469					
Min		142,778	272,667	365,188	549,669	641,666	733,525	825,265	916,905	1,008,462	1,099,957	1,191,406	1,282,829	1,374,245	1,465,672				142,778	1,511,395					
End		331,812	639,819	858,908	1,295,084	1,512,305	1,729,034	1,945,340	2,161,288	2,376,943	2,592,373	2,807,643	3,022,820	3,237,969	3,453,158				331,812	3,560,787					
Start	Inboard	255,265	496,278	667,513	1,007,987	1,177,356	1,346,236	1,514,691	1,682,789	1,850,595	2,018,176	2,185,597	2,352,925	2,520,225	2,687,565				Exceeds MOP	400	4,125	255,265	2,771,270		
Min		110,939	212,983	285,613	430,311	502,415	574,382	646,229	717,976	789,640	861,241	932,797	1,004,327	1,075,849	1,147,382							110,939	1,183,159		
End		176,929	343,980	462,667	698,656	816,049	933,103	1,049,863	1,166,375	1,282,685	1,398,838	1,514,881	1,630,860	1,746,819	1,862,805							176,929	1,920,823		
Start	Outboard	303,307	582,006	780,152	1,174,427	1,370,688	1,566,455	1,761,794	1,956,772	2,151,455	2,345,911	Exceeds MOP	400	3,158	303,307	2,468,720									
Min		187,644	357,219	477,970	718,654	838,642	958,429	1,078,043	1,197,512	1,316,860	1,436,117				187,644	1,511,452									
End		437,523	839,549	1,125,376	1,694,120	1,977,229	2,259,625	2,541,403	2,822,660	3,103,492	3,383,996				437,523	3,561,148									
Start	Inboard	360,888	695,840	933,759	1,406,689	1,641,892	1,876,382	2,110,256	2,343,609	2,576,537	2,809,138				Exceeds MOP	400	3,158	360,888	2,956,015						
Min		155,924	297,757	398,691	599,740	699,910	799,878	899,673	999,322	1,098,850	1,198,287							155,924	1,261,095						
End		250,138	482,301	647,207	975,004	1,138,029	1,300,558	1,462,661	1,624,402	1,785,850	1,947,070							250,138	2,048,874						
Start	Outboard	386,903	739,925	991,066	1,491,128	1,740,195	1,988,718	2,236,770	Exceeds MOP	400	2,495	386,903	2,479,475												
Min		238,715	453,452	606,424	911,469	1,063,601	1,215,513	1,367,235				238,715	1,515,766												
End		558,111	1,067,348	1,429,621	2,150,964	2,510,246	2,868,743	3,226,560				558,111	3,576,664												
Start	Inboard	481,355	923,412	1,237,701	1,863,077	2,174,377	2,484,893	2,794,730				Exceeds MOP	400	2,495	481,355	3,097,813									
Min		207,120	394,227	527,462	793,031	925,425	1,057,598	1,189,579							207,120	1,318,764									
End		333,637	640,036	857,875	1,291,336	1,507,105	1,722,329	1,937,083							333,637	2,147,157									
Start	Outboard	480,517	916,628	1,227,025	1,845,396	2,153,531	2,461,071	Exceeds MOP	400	2,021	480,517				2,486,880										
Min		295,867	561,089	750,084	1,127,093	1,315,172	1,503,010				295,867				1,518,779										
End		693,150	1,322,243	1,769,994	2,661,999	3,106,486	3,550,115				693,150				3,587,345										
Start	Inboard	616,270	1,178,072	1,577,759	2,373,641	2,770,067	3,165,637				Exceeds MOP	400	2,021	616,270	3,198,830										
Min		264,419	502,139	671,489	1,009,205	1,177,636	1,345,827							264,419	1,359,945										
End		427,149	816,545	1,093,577	1,645,219	1,919,989	2,194,167							427,149	2,217,173										
Start	Outboard	697,282	1,325,201	1,772,077	Exceeds MOP	400	1,403	697,282	2,489,898																
Min		428,208	810,095	1,082,208				428,208	1,519,825																
End		1,005,835	1,911,614	2,556,236				1,005,835	3,591,699																
Start	Inboard	928,675	1,766,917	2,363,299				Exceeds MOP	400	1,403	928,675	3,321,004													
Min		397,100	751,786	1,004,468							397,100	1,410,760													
End		643,683	1,224,686	1,638,050							643,683	2,301,855													
Start	Outboard	954,532	1,809,860	2,418,922	Exceeds MOP	400	1,031				954,532	2,494,344													
Min		585,047	1,105,105	1,475,811							585,047	1,521,738													
End		1,376,920	2,610,737	3,489,315							1,376,920	3,598,112													
Start	Inboard	1,299,409	2,465,378	3,295,495				Exceeds MOP	400	1,031	1,299,409	3,398,283													
Min		554,335	1,047,540	1,399,064							554,335	1,442,612													
End		900,647	1,708,803	2,284,174							900,647	2,355,419													

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

Torque - Hydraulic 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)																
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000															
		Pressure Torque Output: Start/Min./End (lbf-in)																																			
GC01x01.5-SR4	Start	9,215																	3,348	4,608	5,000	13,087															
	Min	5,360																Please consult factory					5,382	6,656	7,932	10,494	11,786	13,087									
	End	11,297																					2,171	2,741	3,310	4,448	5,019	5,593									
GC01x01.5-SR5	Start	8,614																	3,150	6,870	5,000	16,360															
	Min	4,498																Please consult factory					2,350	3,233	4,115	5,890	6,784	7,685									
	End	8,024																					2,068	2,924	3,504	4,080	5,228	5,803	6,380								
GC01x01.5-SR6	Start	6,178																	2,332	5,049	5,000	18,752															
	Min	3,243																Please consult factory					2,068	2,950	3,832	4,715	6,490	7,384	8,285								
	End	5,632																					5,921	7,212	8,494	9,772	11,047	12,321	13,596	16,159	17,450	18,752					
GC01x01.5-SR7	Start	4,445																	1,750	838	5,000	12,445															
	Min	2,337																Please consult factory					1,833	2,529	3,108	3,681	4,251	4,820	5,389	6,527	7,099	7,673					
	End	3,866																					1,833	2,726	3,614	4,499	5,382	6,264	7,147	8,921	9,815	10,716					
GC01x01.5-SR8	Start	3,139																	1,311	2,688	5,000	21,816															
	Min	1,661																Please consult factory					3,753	5,077	6,388	7,687	8,977	10,260	11,538	12,813	14,087	15,362	17,925	19,216	20,517		
	End	2,567																					838	1,736	2,324	2,904	3,478	4,049	4,618	5,185	5,752	6,318	7,455	8,025	8,598		
GC01x01.5-SR9	Start	2,145																	978	228	5,000	14,741															
	Min	1,151																Please consult factory					838	1,755	2,662	3,562	4,455	5,343	6,228	7,111	7,993	8,876	10,650	11,545	12,445		
	End	1,605																					1,215	1,865	2,451	3,030	3,604	4,176	4,745	5,312	5,878	6,444	7,010	8,145	8,715	9,289	
GC01x01.5-SR9	Start	2,145																	978	228	5,000	14,741															
	Min	1,151																Please consult factory					1,941	4,675	6,014	7,339	8,649	9,949	11,239	12,521	13,799	15,074	16,348	17,623	20,186	21,477	22,779
	End	1,605																					313	1,809	2,396	2,978	3,554	4,128	4,698	5,266	5,833	6,399	6,964	7,530	8,664	9,235	9,807
GC01x01.5-SR9	Start	2,145																	978	228	5,000	14,741															
	Min	1,151																Please consult factory					313	2,206	3,134	4,051	4,958	5,858	6,751	7,639	8,524	9,407	10,289	11,172	12,946	13,840	14,741
	End	1,605																					1,215	2,143	3,059	3,967	4,866	5,760	6,648	7,533	8,415	9,298	10,181	11,955	12,849	13,750	

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

Torque - Hydraulic 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)							
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500					4750	5000					
Pressure Torque Output: Start/Min./End (lbf-in)																												
GC01x01.7-SR1	Start	14,984																	Exceeds MOP	3,832	9,929	4,820	17,314					
	Min	8,369																Please consult factory						11,180	14,912	16,788	3,462	6,714
	End	17,012																						4,562	7,146	8,445	3,696	8,809
GC01x01.7-SR2	Start	12,459																	Exceeds MOP	3,221	7,526	4,820	19,456					
	Min	7,135																Please consult factory						7,742	9,602	11,461	2,773	7,995
	End	14,870																						2,869	3,689	4,505	3,069	11,330
GC01x01.7-SR3	Start	10,802																	Exceeds MOP	2,821	6,512	4,820	21,426					
	Min	6,211																Please consult factory						7,849	9,712	11,572	2,411	8,930
	End	12,900																						3,000	3,818	4,633	2,657	12,984
GC01x01.7-SR4	Start	9,101																	Exceeds MOP	2,410	5,196	4,820	23,192					
	Min	5,314																Please consult factory						5,873	7,747	9,615	1,991	9,842
	End	11,134																						2,289	3,109	3,925	2,222	14,682
GC01x01.7-SR5	Start	8,500																	Exceeds MOP	2,267	7,392	4,820	26,465					
	Min	4,451																Please consult factory						9,146	11,020	12,888	2,075	10,640
	End	7,860																						3,043	3,877	4,701	2,075	15,282
GC01x01.7-SR6	Start	6,064																	Exceeds MOP	1,678	5,304	4,820	28,857					
	Min	3,197																Please consult factory						5,856	7,762	9,655	1,406	11,925
	End	5,468																						1,787	2,712	3,544	1,406	17,713
GC01x01.7-SR7	Start	4,332																	Exceeds MOP	1,260	3,843	4,820	30,622					
	Min	2,291																Please consult factory						5,701	7,622	9,527	900	12,847
	End	3,702																						1,987	2,828	3,658	900	19,442
GC01x01.7-SR8	Start	3,025																	Exceeds MOP	944	2,668	4,820	31,921					
	Min	1,614																Please consult factory						3,109	7,000	8,920	492	13,535
	End	2,403																						797	2,698	3,529	492	20,747
GC01x01.7-SR9	Start	2,032																	Exceeds MOP	704	1,730	4,820	32,884					
	Min	1,105																Please consult factory						2,096	4,071	7,963	167	14,053
	End	1,441																						421	1,545	3,223	167	21,738

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

Torque - Hydraulic 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)													
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000												
		Pressure Torque Output: Start/Min./End (lbf-in)																																
GC01x02.0-SR0	Start	19,946																	Please consult factory	16,043	18,757	Exceeds MOP	3,476	15,783	3,961	21,048								
	Min	10,661																5,163		6,379	5,045			7,397										
	End	20,512																		5,400	7,279			5,220		8,866								
GC01x02.0-SR1	Start	14,892																	Please consult factory	11,518	14,243	Exceeds MOP	2,635	10,261	3,961	24,682								
	Min	8,331																4,115		5,315	6,507			7,695		8,880	3,558	9,880						
	End	16,878																		4,796	6,683			8,565		10,445	12,324	3,926	13,911					
GC01x02.0-SR2	Start	12,367																	Please consult factory	8,178	10,925	Exceeds MOP	2,215	7,793	3,961	26,823								
	Min	7,097																3,019		4,222	5,415			6,603		7,788	8,972	10,154	2,850	11,152				
	End	14,737																		3,521	5,423			7,316		9,203	11,086	12,965	14,844	3,254	16,431			
GC01x02.0-SR3	Start	10,710																	Please consult factory	7,387	10,148	Exceeds MOP	1,940	6,722	3,961	28,793								
	Min	6,174																2,763		3,967	5,163			6,353		7,540	8,724	9,906	11,088	2,471	12,086			
	End	12,767																		3,263	5,175			7,077		8,970	10,857	12,740	14,619	16,498	2,803	18,085		
GC01x02.0-SR4	Start	9,009																	Please consult factory	6,374	9,153	Exceeds MOP	1,657	5,336	3,961	30,559								
	Min	5,276																2,483		3,689	4,887			6,079		7,267	8,452	9,635	10,817	11,999	2,031	12,996		
	End	11,000																		3,037	4,961			6,873		8,775	10,668	12,555	14,438	16,317	18,196	2,318	19,783	
GC01x02.0-SR5	Start	8,408																	Please consult factory	9,647	12,426	Exceeds MOP	1,559	7,511	3,691	30,900								
	Min	4,413																3,242		4,464	5,670			6,868		8,060	9,249	10,433	11,617	2,158	12,521			
	End	7,727																		3,637	5,561			7,473		9,375	11,268	13,155	15,037	16,917	2,158	18,353		
GC01x02.0-SR6	Start	5,972																	Please consult factory	9,240	12,039	Exceeds MOP	1,154	5,328	3,691	33,292								
	Min	3,159																3,346		4,563	5,768			6,967		8,160	9,349	10,535	11,718	12,900	1,422	13,803		
	End	5,335																		4,130	6,069			7,993		9,904	11,806	13,700	15,587	17,469	19,349	1,422	20,784	
GC01x02.0-SR7	Start	4,239																	Please consult factory	5,336	11,006	Exceeds MOP	866	3,798	3,691	35,058								
	Min	2,253																1,828		4,286	5,495			6,697		7,893	9,084	10,272	11,457	12,641	13,823	869	14,725	
	End	3,569																		1,934	5,860			7,798		9,722	11,634	13,535	15,429	17,316	19,198	21,078	869	22,513
GC01x02.0-SR8	Start	2,932																	Please consult factory	3,759	6,635	Exceeds MOP	649	2,588	3,691	36,356								
	Min	1,576																1,247		2,541	4,981			6,188		7,388	8,583	9,775	10,962	12,146	13,329	14,510	437	15,413
	End	2,270																		1,247	3,239			7,164		9,102	11,026	12,938	14,840	16,733	18,620	20,503	22,382	437
GC01x02.0-SR9	Start	1,939	1,814	4,721	7,597	13,267	16,066	18,845	21,606	24,353	27,087	29,812	32,531	35,246					Exceeds MOP			Exceeds MOP	484	1,627	3,691	37,319								
	Min	1,066	226	1,835	3,068	5,502	6,708	7,908	9,102	10,293	11,480	12,664	13,847	15,028						96				96									15,931	
	End	1,307	226	2,239	4,230	8,156	10,094	12,018	13,929	15,831	17,725	19,612	21,494	23,374																				

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Torque - Hydraulic 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)																	
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750	5000																					
Pressure Torque Output: Start/Min./End (lbf-in)																																							
GC01x02.2-SR0	Start	19,869																			Please consult factory	19,201	Exceeds MOP													2,567	16,447	2,916	21,694
	Min	10,630																				6,464		5,240	7,562														
	End	20,401																						7,586	5,679	9,313													
GC01x02.2-SR1	Start	14,815																			Please consult factory	11,500	Exceeds MOP													1,945	10,663	2,916	25,327
	Min	8,300																				4,040		5,693	7,332	8,963	3,673	10,043											
	End	16,767																						4,783	7,410	10,025	12,631	4,204	14,358										
GC01x02.2-SR2	Start	12,290																			Please consult factory	9,829	Exceeds MOP													1,635	8,068	2,916	27,469
	Min	7,066																				3,692		5,341	6,979	8,610	10,237	2,928	11,315										
	End	14,625																						4,664	7,304	9,930	12,545	15,152	3,445	16,878									
GC01x02.2-SR3	Start	10,633																			Please consult factory	7,964	Exceeds MOP													1,432	6,917	2,916	29,439
	Min	6,142																				2,981		4,636	6,279	7,915	9,545	11,170	2,526	12,248									
	End	12,655																						3,663	6,318	8,958	11,584	14,199	16,805	2,938	18,532								
GC01x02.2-SR4	Start	8,932																			Please consult factory	9,730	Exceeds MOP													1,223	5,453	2,916	31,205
	Min	5,245																				3,905		5,553	7,193	8,827	10,457	12,081	2,063	13,158									
	End	10,889																						5,361	8,016	10,656	13,282	15,897	18,503	2,399	20,230								
GC01x02.2-SR5	Start	8,331																			Please consult factory	13,003	Exceeds MOP													1,151	7,608	2,916	34,478
	Min	4,382																				4,681		6,340	7,986	9,624	11,255	12,883	2,225	13,962									
	End	7,616																						5,961	8,616	11,255	13,882	16,497	19,103	2,225	20,830								
GC01x02.2-SR6	Start	5,895																			Please consult factory	7,648	Exceeds MOP													852	5,332	2,916	36,870
	Min	3,128																				2,644		5,984	7,633	9,275	10,910	12,539	14,165	1,425	15,243								
	End	5,224																						3,028	8,392	11,047	13,687	16,313	18,929	21,535	1,425	23,261							
GC01x02.2-SR7	Start	4,162																			Please consult factory	5,495	Exceeds MOP													640	3,760	2,916	38,635
	Min	2,221																				1,901		3,591	6,912	8,559	10,198	11,832	13,462	15,086	843	16,163							
	End	3,458																						2,044	4,757	10,122	12,776	15,416	18,043	20,658	23,264	843	24,990						
GC01x02.2-SR8	Start	2,855	2,841																			6,794	Exceeds MOP													479	2,508	2,916	39,934
	Min	1,544	612																			2,613		4,288	7,603	9,249	10,888	12,521	14,149	15,774	381	16,851							
	End	2,159	612																					3,349	6,062	11,426	14,081	16,721	19,347	21,962	24,569	381	26,295						
GC01x02.2-SR9	Start	1,862	3,804																			7,757	Exceeds MOP													357	1,527	2,916	40,897
	Min	1,034	1,451																			4,810		8,123	9,768	11,406	13,039	14,667	16,292	27	17,369								
	End	1,196	1,603																					7,053	12,417	15,072	17,712	20,338	22,954	25,560	27	27,286							

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Torque - Hydraulic 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)	
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000
Pressure Torque Output: Start/Min./End (lbf-in)																						
GC01x02.5-SR0	Start	19,788																	1,986	16,781		24,215
	Min	10,597																		5,336	2,362	8,593
	End	20,284																		5,911		11,058
GC01x02.5-SR1	Start	14,734																	1,506	10,853		27,848
	Min	8,267																		3,730	2,362	11,062
	End	16,650																		4,336		16,103
GC01x02.5-SR2	Start	12,208																	1,266	8,178		29,990
	Min	7,033																		2,961	2,362	12,332
	End	14,509																		3,521		18,623
GC01x02.5-SR3	Start	10,552																	1,108	6,962		31,960
	Min	6,110																		2,538	2,362	13,266
	End	12,538																		2,969		20,277
GC01x02.5-SR4	Start	8,850																	947	5,468		33,726
	Min	5,212																		2,069	2,362	14,175
	End	10,772																		2,410		21,975
GC01x03.0-SR0	Start	19,626																	1,304	17,054		27,399
	Min	10,531																		5,419	1,640	9,904
	End	20,050																		6,100		13,263
GC01x03.0-SR1	Start	14,571																	988	10,902		31,032
	Min	8,201																		3,742	1,640	12,361
	End	16,417																		4,370		18,307
GC01x03.0-SR2	Start	12,046																	831	8,159		33,174
	Min	6,968																		2,956	1,640	13,630
	End	14,275																		3,508		20,828
GC01x03.0-SR3	Start	10,389																	727	6,884		35,143
	Min	6,044																		2,515	1,640	14,563
	End	12,305																		2,915		22,482
GC01x03.0-SR4	Start	8,688																	621	5,335		36,909
	Min	5,146																		2,029	1,640	15,472
	End	10,538																		2,318		24,180

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Torque - Hydraulic 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)				
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000			
Pressure Torque Output: Start/Min./End (lbf-in)																										
GC01x03.5-SR0	Start	19,463			20,229	Exceeds MOP													927	17,028	1,205	29,199				
	Min	10,464	Please consult factory	6,803																		5,410	10,660			
	End	19,817		8,298																			6,082	14,509		
GC01x03.5-SR1	Start	14,409		Please consult factory	12,883	23,863	Exceeds MOP													703	10,813	1,205	32,832			
	Min	8,136	4,612		9,297																		3,720	13,113		
	End	16,183	5,741		13,343																			4,308	19,554	
GC01x03.5-SR2	Start	11,884	Please consult factory	15,024	26,004	Exceeds MOP													591	8,016	1,205	34,974				
	Min	6,902		5,906	10,570																			2,916	14,380	
	End	14,041		8,261	15,864																				3,409	22,075
GC01x03.5-SR3	Start	10,227	Please consult factory	16,994	27,974	Exceeds MOP													517	6,717	1,205	36,944				
	Min	5,978		6,843	11,503																				2,468	15,313
	End	12,071		9,915	17,518																					2,799
GC01x03.5-SR4	Start	8,526	7,731	18,760	29,740	Exceeds MOP													442	5,165	1,205	38,710				
	Min	5,081	3,078	7,756	12,414																				1,983	16,222
	End	10,304	3,977	11,613	19,216																					2,200

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Torque - Hydraulic 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)					
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750	5000									
		Pressure Torque Output: Start/Min./End (lbf-in)																									
GC2x01.7-SR2	Start	22,425																	Please consult factory	15,688	17,969	4,687	15,115	5,000	17,969		
	Min	12,425																5,460		6,469	5,206		6,469				
	End	25,224																5,948		7,528	5,551		7,528				
GC2x01.7-SR3	Start	20,044																Please consult factory	16,191	18,461	20,741	4,212	13,586	5,000	20,741		
	Min	11,109															5,828		6,829	7,828	4,671		7,828				
	End	22,451															6,753		8,326	9,906	4,949		9,906				
GC2x01.7-SR4	Start	17,829															Please consult factory	14,737	19,254	21,524	23,805	3,771	12,675	5,000	23,805		
	Min	9,786														5,178		7,173	8,168	9,163	4,256		9,163				
	End	19,386														5,835		8,964	10,537	12,117	4,406		12,117				
GC2x02.0-SR1	Start	25,924													Please consult factory	19,133	22,420	29,011	32,323	Exceeds MOP	3,719	4,921	18,726	34,597			
	Min	14,198												6,457		7,919	10,820	12,269	6,274		13,260						
	End	28,399												7,041		9,317	13,883	16,178	6,758		17,753						
GC2x02.0-SR2	Start	22,313												Please consult factory	15,898	19,184	22,468	25,755	32,346	35,658	Exceeds MOP	3,223	4,921	15,543	37,932		
	Min	12,380											5,488		6,944	8,390	9,831	12,711	14,153	5,330		15,142					
	End	25,063											6,094		8,370	10,645	12,922	17,488	19,782	5,848		21,358					
GC2x02.0-SR3	Start	19,932												Please consult factory	15,381	18,671	21,957	25,241	28,527	35,119	38,431	Exceeds MOP	2,896	4,921	14,010	40,705	
	Min	11,064											5,402		6,856	8,299	9,738	11,175	14,050	15,490	4,793		16,477				
	End	22,289											6,192		8,472	10,748	13,023	15,299	19,866	22,160	5,243		23,735				
GC2x02.0-SR4	Start	17,717												Please consult factory	15,146	18,444	21,735	25,020	28,305	31,591	38,183	41,494	Exceeds MOP	2,593	4,921	13,069	43,768
	Min	9,741											5,294		6,750	8,195	9,633	11,070	12,505	15,377	16,817	4,371		17,804			
	End	19,225											6,119		8,403	10,683	12,959	15,234	17,511	22,077	24,371	4,680		25,946			
GC2x02.2-SR1	Start	25,831												Please consult factory	19,670	24,214	28,748	33,277	Exceeds MOP	2,746	3,634	19,598	35,704				
	Min	14,160											6,560		8,561	10,545	12,520	Exceeds MOP		6,527		13,575					
	End	28,264											7,413		10,560	13,701	16,839			7,362		18,520					
GC2x02.2-SR2	Start	22,220											Please consult factory	18,450	23,005	27,549	32,083		36,612	Exceeds MOP	2,380	3,634	16,258	39,039			
	Min	12,342										6,500		8,491	10,468	12,438	14,404	5,537	15,456								
	End	24,928										7,862		11,017	14,165	17,306	20,444	6,343	22,125								
GC2x02.2-SR3	Start	19,838											Please consult factory	16,651	21,223	25,778	30,321	34,856	39,385	Exceeds MOP	2,138	3,634	14,597	41,812			
	Min	11,026										5,864		7,859	9,838	11,810	13,777	15,739	4,962		16,791						
	End	22,155										7,072		10,239	13,395	16,542	19,683	22,821	5,650		24,502						
GC2x02.2-SR4	Start	17,624											Please consult factory	15,124	19,715	24,286	28,842	33,385	37,919	42,449	Exceeds MOP	1,914	3,634	13,540	44,876		
	Min	9,703										5,203		7,209	9,194	11,170	13,140	15,104	17,067	4,506		18,119					
	End	19,090										6,103		9,284	12,450	15,606	18,753	21,895	25,032	5,006		26,714					

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Torque - Hydraulic 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)	
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750	5000					
		Pressure Torque Output: Start/Min./End (lbf-in)																					
GC2x02.5-SR1	Start	25,732						Please consult factory	23,064	29,030	34,977	Exceeds MOP								2,125	20,074	2,812	36,450
	Min	14,120							7,975	10,571	13,147										6,664		13,785
	End	28,123							9,764	13,896	18,017										7,692		19,037
GC2x02.5-SR2	Start	22,122					Please consult factory	20,413	26,399	32,365	38,313	Exceeds MOP								1,842	16,616	2,812	39,785
	Min	12,302						7,295	9,887	12,463	15,030										5,640		15,665
	End	24,787						9,221	13,368	17,501	21,621										6,591		22,642
GC2x02.5-SR3	Start	19,740				Please consult factory	17,174	23,185	29,172	35,137	41,085	Exceeds MOP								1,655	14,882	2,812	42,558
	Min	10,986					6,044	8,648	11,230	13,802	16,365										5,045		17,000
	End	22,013					7,434	11,599	15,746	19,878	23,999										5,847		25,019
GC2x02.5-SR4	Start	17,525			Please consult factory	14,196	20,237	26,249	32,236	38,201	44,149	Exceeds MOP								1,482	13,760	2,812	45,622
	Min	9,663				4,763	7,388	9,981	12,560	15,129	17,692										4,572		18,327
	End	18,949				5,461	9,645	13,810	17,957	22,090	26,210										5,158		27,230
GC2x03.0-SR1	Start	25,536			Please consult factory	24,384	33,676	Exceeds MOP											1,395	20,470	1,845	37,198	
	Min	14,040				8,481	12,483													6,781		13,995	
	End	27,840				10,678	17,115													7,967		19,555	
GC2x03.0-SR2	Start	21,925			Please consult factory	27,719	37,011	Exceeds MOP											1,209	16,855	1,845	40,533	
	Min	12,222				10,388	14,367													5,710		15,874	
	End	24,504				14,283	20,720													6,757		23,160	
GC2x03.0-SR3	Start	19,544			Please consult factory	30,492	39,784	Exceeds MOP											1,086	15,018	1,845	43,306	
	Min	10,907				11,730	15,703													5,084		17,209	
	End	21,730				16,661	23,098													5,941		25,537	
GC2x03.0-SR4	Start	17,329			Please consult factory	14,852	33,556	Exceeds MOP											972	13,799	1,845	46,370	
	Min	9,583				5,039	13,060		17,031											4,581		18,536	
	End	18,666				5,915	18,872		25,309											5,185		27,748	

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Torque - Hydraulic 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)	
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000
Pressure Torque Output: Start/Min./End (lbf-in)																							
GC2x03.5-SR1	Start	25,340	Please consult factory	20,915	Exceeds MOP															992	20,491	1,312	37,424
	Min	13,960		6,972		6,787	14,060																
	End	27,557		8,275		7,981	19,712																
GC2x03.5-SR2	Start	21,729	Please consult factory	24,250	Exceeds MOP															859	16,763	1,312	40,759
	Min	12,143		8,897		5,678	15,939																
	End	24,221		11,880		6,693	23,316																
GC2x03.5-SR3	Start	19,348	Please consult factory	27,023	Exceeds MOP															772	14,906	1,312	43,532
	Min	10,827		10,243		5,050	17,273																
	End	21,447		14,257		5,863	25,694																
GC2x03.5-SR4	Start	17,133	Please consult factory	16,798	Exceeds MOP															691	13,653	1,312	46,596
	Min	9,503		5,897		4,537	18,601																
	End	18,383		7,263		5,084	27,905																
GC2x04.0-SR1	Start	25,143	Please consult factory	20,785	Exceeds MOP															744	20,358	984	37,404
	Min	13,880		6,934		6,749	14,054																
	End	27,274		8,185		7,889	19,698																
GC2x04.0-SR2	Start	21,533	Please consult factory	24,120	Exceeds MOP															645	16,644	984	40,739
	Min	12,063		8,859		5,652	15,933																
	End	23,938		11,789		6,610	23,302																
GC2x04.0-SR3	Start	19,151	Please consult factory	26,893	Exceeds MOP															579	14,711	984	43,512
	Min	10,747		10,206		4,994	17,268																
	End	21,164		14,167		5,728	25,680																
GC2x04.0-SR4	Start	16,936	Please consult factory	29,956	Exceeds MOP															518	13,421	984	46,576
	Min	9,423		11,537		4,467	18,595																
	End	18,099		16,378		4,924	27,891																

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Torque - Hydraulic 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)				
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750	5000								
		Pressure Torque Output: Start/Min./End (lbf-in)																								
GC3x02.0-SR4	Start	30,124																	Please consult factory	21,758	24,972	28,205	4,419	20,721	5,000	28,205
	Min.	16,567																7,393		8,826	10,253	6,767		10,253		
	End	33,149																		7,478	9,677	11,890		6,767		11,890
GC3x02.2-SR1	Start	45,475																	Please consult factory	36,698	41,461		4,579	33,453	5,000	41,461
	Min.	24,919																12,496		14,585		11,062		14,585		
	End	50,272																14,083		17,342		11,861		17,342		
GC3x02.2-SR2	Start	39,526																	Please consult factory	38,599	43,341	48,104	4,001	29,180	5,000	48,104
	Min.	21,690																13,799		15,866	17,932	9,652		17,932		
	End	43,625																16,778		20,023	23,283	10,332		23,283		
GC3x02.2-SR3	Start	34,411																	Please consult factory	30,175	34,881	44,318	3,504	25,548	5,000	53,823
	Min.	18,911																10,497		12,561	16,671	8,450		20,783		
	End	37,902																12,207		15,428	21,887	9,041		28,392		
GC3x02.2-SR4	Start	30,011																	Please consult factory	25,683	30,388	35,090	3,077	22,424	5,000	58,738
	Min.	16,521																8,861		10,926	12,980	7,419		23,222		
	End	32,984																10,164		13,383	16,602	7,933		32,786		
GC3x02.5-SR1	Start	45,356																	Please consult factory	37,024	43,433	49,846	3,419	34,948	4,527	63,395
	Min.	24,871																12,407		15,211	17,998	11,493		23,853		
	End	50,098																14,306		18,692	23,080	12,884		32,353		
GC3x02.5-SR2	Start	39,407																	Please consult factory	30,837	37,256	43,667	2,987	30,503	4,527	70,037
	Min.	21,641																10,179		12,990	15,778	10,031		27,157		
	End	43,451																11,466		15,859	20,246	11,237		38,294		
GC3x02.5-SR3	Start	34,292																	Please consult factory	30,126	36,557	42,975	2,616	26,672	4,527	75,757
	Min.	18,862																10,288		13,088	15,867	8,773		29,988		
	End	37,728																12,174		16,575	20,967	9,810		43,402		
GC3x02.5-SR4	Start	29,892																	Please consult factory	28,593	35,041	41,471	2,297	23,341	4,527	80,671
	Min.	16,472																9,977		12,773	15,551	7,681		32,417		
	End	32,810																12,155		16,568	20,969	8,561		47,796		
GC3x03.0-SR1	Start	45,118																	Please consult factory	40,513	50,953	61,367	2,155	36,538	2,853	65,652
	Min.	24,774																13,675		18,179	22,649	11,948		24,483		
	End	49,751																16,693		23,838	30,965	13,973		33,898		
GC3x03.0-SR2	Start	39,170																	Please consult factory	36,683	47,155	57,596	1,883	31,770	2,853	72,294
	Min.	21,544																12,526		17,031	21,501	10,396		27,785		
	End	43,104																15,467		22,634	29,779	12,104		39,838		
GC3x03.0-SR3	Start	34,054																	Please consult factory	31,893	42,403	52,875	1,649	27,635	2,853	78,014
	Min.	18,765																10,893		15,407	19,884	9,049		30,616		
	End	37,381																13,383		20,576	27,742	10,469		44,947		
GC3x03.0-SR4	Start	29,654																	Please consult factory	26,255	36,808	47,318	1,448	24,054	2,853	82,928
	Min.	16,375																8,840		13,372	17,860	7,886		33,044		
	End	32,463																10,555		17,777	24,970	9,049		49,341		

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Torque - Hydraulic 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)			
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750	5000							
		Pressure Torque Output: Start/Min./End (lbf-in)																							
GC3x03.5-SR1	Start	44,880			Please consult factory	37,123	52,397	Exceeds MOP												1,500	37,123	1,986	66,770		
	Min	24,677				12,119	18,678																12,119	24,803	
	End	49,404				14,373	24,826																	14,373	34,663
GC3x03.5-SR2	Start	38,932			Please consult factory	43,766	59,039	Exceeds MOP												1,310	32,120	1,986	73,413		
	Min	21,447				15,493	21,998																10,493	28,105	
	End	42,757				20,314	30,767																	12,344	40,604
GC3x03.5-SR3	Start	33,816			Please consult factory	49,485	64,759	Exceeds MOP												1,148	27,883	1,986	79,132		
	Min	18,668				18,354	24,838																9,125	30,935	
	End	37,034				25,422	35,875																	10,639	45,712
GC3x03.5-SR4	Start	29,417			Please consult factory	54,400	69,674	Exceeds MOP												1,008	24,171	1,986	84,047		
	Min	16,278				20,798	27,271																7,924	33,363	
	End	32,115				29,817	40,270																	9,129	50,106
GC3x04.0-SR1	Start	44,642			Please consult factory	Exceeds MOP														1,110	37,199	1,470	67,170		
	Min	24,580																					12,136	24,913	
	End	49,057																					14,425	34,937	
GC3x04.0-SR2	Start	38,694		Please consult factory	34,655	Exceeds MOP														970	32,146	1,470	73,812		
	Min	21,350					11,584																	10,504	28,214
	End	42,410					14,078																	12,362	40,877
GC3x04.0-SR3	Start	33,579		Please consult factory	40,374	Exceeds MOP														850	27,821	1,470	79,532		
	Min	18,570					14,475																	9,110	31,044
	End	36,686					19,187																	10,596	45,986
GC3x04.0-SR4	Start	29,179	Please consult factory	24,352	45,289	Exceeds MOP														746	24,016	1,470	84,446		
	Min	16,181		8,022	16,930																			7,877	33,473
	End	31,768		9,252	23,581																			9,023	50,380
GC3x04.5-SR1	Start	44,405		Please consult factory	52,560	Exceeds MOP														858	37,151	1,136	67,291		
	Min	24,482					18,711																	12,130	24,952
	End	48,709					24,938																	14,393	35,019
GC3x04.5-SR2	Start	38,456	Please consult factory	32,056	59,202	Exceeds MOP														749	31,947	1,136	73,933		
	Min	21,252		10,487	22,031																			10,441	28,253
	End	42,062		12,300	30,878																			12,225	40,960
GC3x04.5-SR3	Start	33,341	Please consult factory	37,775	64,921	Exceeds MOP														656	27,544	1,136	79,652		
	Min	18,473		13,392	24,870																			9,019	31,083
	End	36,339		17,408	35,987																			10,407	46,068
GC3x04.5-SR4	Start	28,941	Please consult factory	42,690	69,836	Exceeds MOP														576	23,741	1,136	84,567		
	Min	16,083		15,853	27,303																			7,792	33,512
	End	31,421		21,803	40,381																			8,835	50,463

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Torque - Hydraulic 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)									
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000								
		Pressure Torque Output: Start/Min./End (lbf-in)																												
GC4x02.5-SR4	Start	56,725																	Please consult factory	54,094	60,537	67,014	4,112	44,147	5,000	67,014				
	Min	30,130																18,514		21,381	24,242	14,010		24,242						
	End	57,893																		20,899	25,360	29,846		14,010		29,846				
GC4x03.0-SR1	Start	93,869																	Please consult factory	77,555	99,925	111,152	122,418	3,982	76,751	5,000	122,418			
	Min	50,007																24,834		34,713	39,621	44,523	24,474		44,523					
	End	97,699																		27,614	43,105	50,880	58,681		27,057		58,681			
GC4x03.0-SR2	Start	81,838																	Please consult factory	70,895	82,051	93,212	115,582	3,486	70,271	5,000	138,075			
	Min	43,005																22,179		27,147	32,070	41,851	46,732		51,614					
	End	82,036																		24,172	31,897	39,625	55,117		62,891		70,693			
GC4x03.0-SR3	Start	68,676																	Please consult factory	61,735	72,906	84,065	95,221	2,942	59,141	5,000	151,245			
	Min	36,178																19,618		24,572	29,476	34,355	39,217		48,932		53,790	58,658		
	End	68,861																		21,850	29,586	37,313	45,038		52,767		68,258	76,033	83,834	
GC4x03.0-SR4	Start	56,435																	Please consult factory	50,704	61,925	73,117	84,288	2,437	47,871	5,000	162,626			
	Min	30,012																16,381		21,331	26,227	31,095	35,946		40,790		45,628	55,310	60,158	65,018
	End	57,474																		18,551	26,321	34,072	41,808		49,535		57,260	64,989	80,480	88,255
GC4x03.5-SR1	Start	93,579																	Please consult factory	84,071	100,931	117,768		2,687	79,817	3,495	134,255			
	Min	49,889																27,238		34,624	41,948	Exceeds MOP	25,360		49,090					
	End	97,280																		32,126	43,801	55,461	Exceeds MOP		29,180		66,878			
GC4x03.5-SR2	Start	81,548																	Please consult factory	82,835	99,727	116,587	133,424	2,353	72,883	3,495	149,912			
	Min	42,887																27,056		34,440	41,762	49,049	22,663		56,169					
	End	81,617																		32,440	44,138	55,813	67,472		25,548		78,890			
GC4x03.5-SR3	Start	68,386																	Please consult factory	62,085	79,071	96,005	112,897	1,986	61,132	3,495	163,081			
	Min	36,060																19,464		26,914	34,266	41,568	48,843		56,098		Exceeds MOP	19,042	63,202	
	End	68,442																		22,092	33,854	45,581	57,279		68,954		80,614	Exceeds MOP	21,432	92,031
GC4x03.5-SR4	Start	56,144																	Please consult factory	56,421	73,467	90,452	107,386	1,645	49,241	3,495	174,463			
	Min	29,893																18,673		26,077	33,408	40,701	47,970		55,222		62,462	Exceeds MOP	15,520	69,555
	End	57,056																		22,510	34,314	46,076	57,803		69,501		81,176	92,836	Exceeds MOP	17,538
GC4x04.0-SR1	Start	93,288																	Please consult factory	85,650	109,199	132,692		1,955	81,404	2,542	136,634			
	Min	49,771																27,693		37,933	48,068	Exceeds MOP	25,831		49,767					
	End	96,861																		33,220	49,527	65,796	Exceeds MOP		30,280		68,526			
GC4x04.0-SR2	Start	81,258																	Please consult factory	77,690	101,307	124,856	148,349	1,711	74,000	2,542	152,291			
	Min	42,769																24,609		34,890	45,050	55,150	22,984		56,844					
	End	81,198																		28,877	45,231	61,539	77,808		26,321		80,537			
GC4x04.0-SR3	Start	68,095																	Please consult factory	67,167	90,860	114,476	138,026	1,444	61,848	2,542	165,461			
	Min	35,942																21,580		31,857	42,014	52,116	62,186		Exceeds MOP		19,245	63,876		
	End	68,023																		25,611	42,019	58,373	74,680		90,949		Exceeds MOP	21,928	93,679	
GC4x04.0-SR4	Start	55,854																	Please consult factory	78,548	102,242	125,858	149,407	1,196	49,618	2,542	176,842			
	Min	29,775																28,150		38,309	48,415	58,487	68,540		Exceeds MOP		15,624	70,227		
	End	56,637																		37,833	54,241	70,595	86,902		103,171		Exceeds MOP	17,799	105,901	

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Torque - Hydraulic 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)					
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000					4500	4750	5000		
Pressure Torque Output: Start/Min./End (lbf-in)																									
GC4x04.5-SR1	Start	92,960			Please consult factory	82,446	113,445	Exceeds MOP											1,493	81,576	1,942	137,181			
	Min	49,638				26,254	39,710															25,873	49,926		
	End	96,388				31,001	52,467																30,399	68,905	
GC4x04.5-SR2	Start	80,930			Please consult factory	98,103	129,102	Exceeds MOP											1,307	74,092	1,942	152,838			
	Min	42,635				33,469	46,820															23,011	57,003		
	End	80,725				43,012	64,479																26,385	80,916	
GC4x04.5-SR3	Start	67,767			Please consult factory	111,272	142,271	Exceeds MOP											1,103	61,799	1,942	166,008			
	Min	35,808				40,607	53,877															19,230	64,034		
	End	67,550				56,154	77,620																21,894	94,058	
GC4x04.5-SR4	Start	55,526		Please consult factory	60,290	122,654	Exceeds MOP												914	49,508	1,942	177,389			
	Min	29,641				20,292		47,011	60,246														15,600	70,385	
	End	56,164				25,189		68,376	89,842															17,723	106,280
GC4x05.0-SR1	Start	92,665		Please consult factory	132,259		Exceeds MOP												1,181	81,890	1,536	137,930			
	Min	49,518				47,696																		25,958	50,127
	End	95,963				65,496																		30,616	69,423
GC4x05.0-SR2	Start	80,635		Please consult factory	147,916		Exceeds MOP												1,034	74,256	1,536	153,587			
	Min	42,515				54,778																		23,057	57,203
	End	80,300				77,508																		26,499	81,435
GC4x05.0-SR3	Start	67,473		Please consult factory	82,032	161,086	Exceeds MOP												873	61,856	1,536	166,756			
	Min	35,688				28,013		61,815																19,254	64,234
	End	67,125				35,905		90,649																21,933	94,576
GC4x05.0-SR4	Start	55,231	Please consult factory	53,656	93,413	Exceeds MOP													723	49,352	1,536	178,138			
	Min	29,521		17,430	34,496		68,169																15,551	70,585	
	End	55,739		20,596	48,127		102,871																	17,615	106,798
GC4x06.0-SR1	Start	92,076		Please consult factory	130,058		Exceeds MOP												796	81,817	1,036	138,558			
	Min	49,277				46,694																		25,934	50,326
	End	95,112				63,972																		30,565	69,858
GC4x06.0-SR2	Start	80,045	Please consult factory	86,578	145,715	Exceeds MOP													697	74,015	1,036	154,215			
	Min	42,274		28,454	53,779																			22,986	57,402
	End	79,449		35,032	75,984																			26,332	81,870
GC4x06.0-SR3	Start	66,883	Please consult factory	99,748	158,885	Exceeds MOP													588	61,320	1,036	167,385			
	Min	35,447		35,642	60,818																			19,081	64,431
	End	66,274		48,173	89,125																			21,562	95,011
GC4x06.0-SR4	Start	54,641	51,790	111,129	170,266	Exceeds MOP													487	48,698	1,036	178,766			
	Min	29,280	16,697	42,070	67,174																		15,348	70,783	
	End	54,888	19,303	60,395	101,347																		17,162	107,233	

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Torque - Hydraulic 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)															
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750	5000																			
Pressure Torque Output: Start/Min./End (lbf-in)																																						
GC5x03.5-SR3	Start	153,487																		Please consult factory	171,419	188,777	206,219	4,120	145,151	5,000	206,219											
	Min	76,593																	54,199		61,983	69,727	41,104		69,727													
	End	135,451																			59,309	71,341	83,429		41,104		83,429											
GC5x03.5-SR4	Start	127,607																		Please consult factory	123,859	141,068	158,287	192,828	210,187	227,628	3,443	119,935	5,000	227,628								
	Min	64,134																	36,951		44,786	52,512	67,835	75,475	83,117	34,637		83,117										
	End	114,024																			37,356	49,283	61,218	85,158	97,189	109,277		34,637		109,277								
GC5x04.0-SR1	Start	213,429																		Please consult factory	215,645	267,046	292,842	318,728	318,728	3,916	207,026	5,000	318,728									
	Min	106,879																	64,515		87,491	98,859	110,201	110,201	60,590		110,201											
	End	191,227																			68,719	104,344	122,223	140,165	140,165		62,745		140,165									
GC5x04.0-SR2	Start	191,027																		Please consult factory	220,335	245,979	297,380	323,176	349,062	3,514	196,138	5,000	349,062									
	Min	93,496																	66,904		78,391	101,107	112,406	123,697	55,871		123,697											
	End	160,869																			73,320	91,094	126,719	144,598	162,540		56,550		162,540									
GC5x04.0-SR3	Start	153,106																		Please consult factory	169,340	195,009	220,649	246,281	271,925	2,833	152,169	5,000	375,008									
	Min	76,436																	52,086		63,530	74,852	86,107	97,319	119,690		130,880		142,089	44,308	142,089							
	End	134,901																			57,869	75,659	93,430	111,196	128,969		164,595		182,474	200,415	45,967	200,415						
GC5x04.0-SR4	Start	127,226																		Please consult factory	139,252	165,034	190,750	216,418	242,058	2,367	125,502	5,000	396,418									
	Min	63,977																	43,004		54,457	65,768	77,004	88,186	99,342		110,489		132,772	143,937	155,111	36,797	155,111					
	End	113,474																			48,025	65,894	83,718	101,508	119,279		137,045		154,818	190,443	208,323	226,264	38,495	226,264				
GC5x04.5-SR1	Start	213,048																		Please consult factory	228,139	263,379	298,588	333,788	333,788	Exceeds MOP	212,901	3,799	340,688									
	Min	106,722																	69,205		84,866	100,345	115,732	115,732	62,342		118,738											
	End	190,677																			77,378	101,802	126,206	150,603	150,603		66,817		155,385									
GC5x04.5-SR2	Start	190,646																		Please consult factory	223,183	258,473	293,712	328,922	364,122	Exceeds MOP	201,267	3,799	371,022									
	Min	93,339																	67,320		83,007	98,495	113,886	129,208	57,411		132,201											
	End	160,319																			75,294	99,753	124,177	148,581	172,978		60,105		177,760									
GC5x04.5-SR3	Start	152,725																		Please consult factory	178,309	213,766	249,129	284,419	319,659	Exceeds MOP	155,842	3,799	396,969									
	Min	76,279																	55,455		71,071	86,511	101,841	117,114	132,345		147,555		45,400	150,534								
	End	134,351																			64,085	88,660	113,170	137,629	162,053		186,456		210,853	48,514	215,636							
GC5x04.5-SR4	Start	126,845																		Please consult factory	128,439	164,147	199,719	235,175	270,538	Exceeds MOP	128,152	3,799	418,378									
	Min	63,820																	37,717		53,541	69,067	84,446	99,744	114,995		130,201		145,398	160,568	37,587	163,542						
	End	112,924																			40,530	65,279	89,934	114,508	139,018		163,478		187,902	212,305	236,702	40,332	241,484					
GC5x05.0-SR1	Start	212,667																		Please consult factory	218,637	264,823	310,908	310,908	310,908	Exceeds MOP	216,417	2,920	342,199									
	Min	106,566																	64,383		84,868	105,019	105,019	105,019	63,387		118,626											
	End	190,127																			70,792	102,803	134,744	134,744	134,744		69,254		156,432									
GC5x05.0-SR2	Start	190,265																		Please consult factory	248,970	295,156	341,242	341,242	341,242	Exceeds MOP	204,145	2,920	372,533									
	Min	93,181																	78,261		98,496	118,535	118,535	118,535	58,270		132,090											
	End	159,769																			93,167	125,178	157,119	157,119	157,119		62,099		178,808									
GC5x05.0-SR3	Start	152,343																		Please consult factory	182,150	228,607	274,917	321,103	367,188	Exceeds MOP	157,741	2,920	398,480									
	Min	76,122																	56,824		77,130	97,192	117,115	136,964	45,969		150,423											
	End	133,801																			66,747	98,946	131,043	163,054	194,995		49,829		216,683									
GC5x05.0-SR4	Start	126,463																		Please consult factory	156,934	203,560	250,016	296,326	342,512	Exceeds MOP	129,429	2,920	419,889									
	Min	63,664																	50,137		70,407	90,443	110,362	130,202	150,000		37,975		163,431									
	End	112,374																			60,280	92,596	124,795	156,892	188,903		220,844		41,217	242,532								

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

Torque - Hydraulic 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)				
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000			
			Pressure Torque Output: Start/Min./End (lbf-in)																							
GC5x06.0-SR1	Start	211,904			Please consult factory	228,579	300,162	Exceeds MOP												1,469	219,688	1,929	351,295			
	Min.	106,252				68,326	99,647																	64,369	121,751	
	End	189,027				77,683	127,297																		71,521	162,737
GC5x06.0-SR2	Start	189,502			Please consult factory	258,913	330,496	Exceeds MOP												1,318	206,663	1,929	381,629			
	Min.	92,866				82,141	113,191																	59,035	135,205	
	End	158,669				100,058	149,672																		63,845	185,112
GC5x06.0-SR3	Start	151,581			Please consult factory	284,859	356,442	Exceeds MOP												1,062	158,899	1,929	407,575			
	Min.	75,809				100,991	131,657																	46,294	153,522	
	End	132,701				137,934	187,547																		50,632	222,987
GC5x06.0-SR4	Start	125,701		Please consult factory	162,416	306,269	Exceeds MOP													888	130,051	1,929	428,985			
	Min.	63,350				52,382		114,149	144,712																38,164	166,525
	End	111,274				64,080		163,783	213,396																41,648	248,836
GC5x07.0-SR1	Start	211,141		Please consult factory	Exceeds MOP			Exceeds MOP												1,044	220,256	1,372	353,478			
	Min.	105,939																							64,498	122,388
	End	187,928																							71,914	164,250
GC5x07.0-SR2	Start	188,739		Please consult factory	232,681		Exceeds MOP													937	207,021	1,372	383,812			
	Min.	92,551				70,525																			59,126	135,840
	End	157,569				81,877																			64,093	186,625
GC5x07.0-SR3	Start	150,818		Please consult factory	258,627		Exceeds MOP													755	158,727	1,372	409,759			
	Min.	75,495				89,623																			46,230	154,154
	End	131,601				119,752																			50,513	224,500
GC5x07.0-SR4	Start	124,938	Please consult factory	178,094	280,036	Exceeds MOP														631	129,453	1,372	431,168			
	Min.	63,037					59,195	102,837																	37,959	167,156
	End	110,174					74,946	145,601																	41,234	250,349
GC5x08.0-SR1	Start	210,203		Please consult factory	337,310		Exceeds MOP													783	219,512	1,029	353,026			
	Min.	105,553				115,512																			64,278	122,259
	End	186,574				153,044																			71,399	163,936
GC5x08.0-SR2	Start	187,801	Please consult factory	231,899	367,644	Exceeds MOP														703	206,324	1,029	383,360			
	Min.	92,164					70,296	128,989																	58,939	135,711
	End	156,216					81,335	175,419																	63,609	186,311
GC5x08.0-SR3	Start	149,880	Please consult factory	257,846	393,591	Exceeds MOP														567	158,160	1,029	409,306			
	Min.	75,110					89,400	147,337																	46,123	154,026
	End	130,248					119,211	213,295																	50,120	224,187
GC5x08.0-SR4	Start	124,000	143,000	279,255	415,000	Exceeds MOP														474	128,799	1,029	430,716			
	Min.	62,651	44,096	102,616	160,351																			37,826	167,028	
	End	108,821	50,623	145,060	239,143																			40,780	250,035	

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Torque - Hydraulic 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)				
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750	5000								
		Pressure Torque Output: Start/Min./End (lbf-in)																								
GC7x04.0-SR4	Start	257,895																	Please consult factory	282,054	310,669	339,400	4,232	251,478	5,000	339,400
	Min	127,984																86,708		99,550	112,309	72,752		112,309		
	End	225,293																		93,950	113,786	133,702		72,754		133,702
GC7x04.5-SR1	Start	423,707																	Please consult factory				4,969	437,728	5,000	437,728
	Min	207,771																				126,088		126,088		
	End	361,862																				130,824		130,824		
GC7x04.5-SR2	Start	373,766																	Please consult factory	397,998	438,383	478,892	4,392	380,583	5,000	478,892
	Min	183,753																117,105		135,286	153,282	109,156		153,282		
	End	320,657																124,631		152,625	180,706	112,559		180,706		
GC7x04.5-SR3	Start	307,368																	Please consult factory	332,100	372,275	452,780	3,625	312,021	5,000	533,674
	Min	151,809																99,058		117,087	152,644	89,918		187,975		
	End	265,822																107,294		135,143	190,949	93,375		247,025		
GC7x04.5-SR4	Start	257,427																	Please consult factory	292,936	333,106	373,265	3,048	260,452	5,000	574,839
	Min	127,791																90,136		108,011	125,715	75,450		213,461		
	End	224,617																101,493		129,339	157,177	78,976		296,907		
GC7x05.0-SR1	Start	423,239																	Please consult factory	487,188	594,023	647,584	Exceeds MOP	441,319	4,888	677,204
	Min	207,579																147,093		194,406	217,854	126,370		230,764		
	End	361,186																165,109		239,167	276,295	133,313		296,828		
GC7x05.0-SR2	Start	373,297																	Please consult factory	421,701	475,018	528,352	Exceeds MOP	388,854	4,888	718,368
	Min	183,561																126,504		150,252	173,765	111,653		256,495		
	End	319,982																141,061		178,020	214,991	118,292		346,710		
GC7x05.0-SR3	Start	306,900																	Please consult factory	369,784	423,154	476,483	Exceeds MOP	318,697	4,888	773,151
	Min	151,617																114,827		138,399	161,759	91,904		290,250		
	End	265,146																133,417		170,413	207,380	98,003		413,028		
GC7x05.0-SR4	Start	256,958																	Please consult factory	303,969	357,508	410,949	Exceeds MOP	265,557	4,888	814,315
	Min	127,599																94,152		117,762	141,111	76,945		315,384		
	End	223,942																109,141		146,254	183,299	82,514		462,910		

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Torque - Hydraulic 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)						
		500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750	5000										
		Pressure Torque Output: Start/Min./End (lbf-in)																										
GC7x06.0-SR1	Start	422,302																		Please consult factory	472,712	556,809	640,792	Exceeds MOP	2,440	452,509	3,150	691,141
	Min.	207,194																	138,841		176,117	212,849	129,749			234,746		
	End	359,835																			155,075	213,370	271,587			141,070		306,489
GC7x06.0-SR2	Start	372,360																		Please consult factory	429,634	513,876	597,973	Exceeds MOP	2,156	397,914	3,150	732,306
	Min.	183,176																	128,548		165,684	202,327	114,334			260,449		
	End	318,630																			146,560	204,957	263,252			124,572		356,371
GC7x06.0-SR3	Start	305,963																		Please consult factory	399,994	484,416	568,659	Exceeds MOP	1,779	325,190	3,150	787,088
	Min.	151,232																	126,968		163,750	200,199	93,819			294,185		
	End	263,795																			154,358	212,879	271,276			102,504		422,690
GC7x06.0-SR4	Start	256,021		Please consult factory	271,645	356,524	441,159	525,581	609,823	693,920	777,903									Exceeds MOP	1,496	270,284	3,150	828,252				
	Min.	127,214	78,975		116,366	153,046	189,417	225,613	261,701	297,728												78,363		319,313				
	End	222,590	86,734		145,572	204,240	262,761	321,158	379,453	437,670												85,791		472,572				
GC7x07.0-SR1	Start	421,365		Please consult factory	472,805	593,680														Exceeds MOP	1,718	457,314	2,218	698,887				
	Min.	206,808			138,115	191,315																131,175		236,961				
	End	358,484			155,139	238,929																		144,401	311,858			
GC7x07.0-SR2	Start	371,423		Please consult factory	513,969	634,844														Exceeds MOP	1,518	401,552	2,218	740,051				
	Min.	182,790			164,976	217,368																115,410		262,650				
	End	317,279			205,021	288,811																		127,094	361,740			
GC7x07.0-SR3	Start	305,026		Please consult factory	447,602	568,752	689,627													Exceeds MOP	1,253	327,599	2,218	794,834				
	Min.	150,846			147,224	199,500	251,336															94,563		296,375				
	End	262,443			187,359	271,340	355,130																	104,174	428,059			
GC7x07.0-SR4	Start	255,084		Please consult factory	488,766	609,916	730,791													Exceeds MOP	1,053	271,347	2,218	835,998				
	Min.	126,828			173,047	224,918	276,567															78,652		321,499				
	End	221,239			237,242	321,222	405,012																	86,528	477,941			

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Torque - Hydraulic 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)			
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000		
Pressure Torque Output: Start/Min./End (lbf-in)																									
GC7x08.0-SR1	Start	420,212			Please consult factory	599,909	Exceeds MOP												1,281	457,489	1,654	699,840			
	Min.	206,334				193,974																	131,251	237,282	
	End	356,821				243,247																		144,522	312,519
GC7x08.0-SR2	Start	370,271			Please consult factory	641,073	Exceeds MOP												1,132	401,530	1,654	741,005			
	Min.	182,317				220,004																	115,437	262,968	
	End	315,617				293,129																		127,079	362,401
GC7x08.0-SR3	Start	303,873			Please consult factory	370,106	Exceeds MOP												934	326,943	1,654	795,787			
	Min.	150,373				113,485		253,948															94,358	296,692	
	End	260,781				133,640		359,448																103,720	428,720
GC7x08.0-SR4	Start	253,932			Please consult factory	411,271	Exceeds MOP	737,020											785	270,509	1,654	836,951			
	Min.	126,355				139,796		279,172															78,403	321,815	
	End	219,577				183,522		409,330																85,947	478,602
GC7x09.0-SR1	Start	419,246			Please consult factory	463,425	Exceeds MOP												994	458,362	1,283	701,813			
	Min.	205,937				133,753																		131,483	237,759
	End	355,428				148,637																		145,127	313,887
GC7x09.0-SR2	Start	369,305			Please consult factory	504,589	Exceeds MOP												878	401,571	1,283	742,978			
	Min.	181,919				160,725																		115,377	263,442
	End	314,223				198,519																		127,108	363,769
GC7x09.0-SR3	Start	302,907			Please consult factory	348,097	Exceeds MOP	559,371											725	326,931	1,283	797,760			
	Min.	149,975				103,777		195,301																94,367	297,164
	End	259,388				118,383		264,838																103,711	430,087
GC7x09.0-SR4	Start	252,966			Please consult factory	389,261	Exceeds MOP	600,536											610	270,642	1,283	838,924			
	Min.	125,957				130,311		220,744																78,536	322,286
	End	218,183				168,265		314,720																86,039	479,970
GC7x10.0-SR1	Start	418,280			Please consult factory	675,164	Exceeds MOP												795	458,371	1,027	703,681			
	Min.	205,540				226,134																		131,476	238,411
	End	354,034				295,413																		145,134	315,181
GC7x10.0-SR2	Start	368,339			Please consult factory	451,879	Exceeds MOP	716,328											703	402,079	1,027	744,845			
	Min.	181,522				137,690		251,897																115,642	264,090
	End	312,830				161,981		345,295																127,459	365,063
GC7x10.0-SR3	Start	301,941			Please consult factory	506,662	Exceeds MOP	771,110											580	326,398	1,027	799,627			
	Min.	149,578				172,676		285,668																94,224	297,808
	End	257,994				228,300		411,614																103,342	431,382
GC7x10.0-SR4	Start	251,999	282,603			547,826	Exceeds MOP	812,275											488	269,851	1,027	840,792			
	Min.	125,560	83,983			198,274		310,817																78,314	322,930
	End	216,790	94,330			278,182		461,496																85,491	481,264

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Torque - Hydraulic 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)					
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000				
			Pressure Torque Output: Start/Min./End (lbf-in)																								
GC8x05.0-SR2	Start	503,422																	Please consult factory	464,243	519,175	Exceeds MOP	4,348	430,911	4,765	522,476	
	Min.	265,065																149,926		174,143	135,107			175,591			
	End	513,392																		174,406	212,483			151,301		214,771	
GC8x05.0-SR3	Start	426,198																	Please consult factory	378,499	433,145	542,650	597,582	Exceeds MOP	3,692	365,825	600,883
	Min.	224,729																120,464		144,644	192,572	216,449	114,810			217,881	
	End	434,904																		137,764	175,643	251,549	289,626			128,979	291,914
GC8x06.0-SR1	Start	625,406																	Please consult factory	659,694	750,487	841,305	1,023,181	Exceeds MOP	3,307	589,592	1,082,950
	Min.	322,133																209,959		249,769	289,331	368,049	178,902			393,842	
	End	604,797																		251,325	314,260	377,212	503,283			202,732	544,713
GC8x06.0-SR2	Start	502,312																	Please consult factory	479,954	570,924	661,793	752,604	Exceeds MOP	2,666	449,358	1,175,860
	Min.	264,612																153,974		193,737	233,185	272,439	140,487			454,502	
	End	511,791																		185,296	248,354	311,342	374,289			164,088	667,678
GC8x06.0-SR3	Start	425,088																	Please consult factory	467,249	558,361	649,331	740,200	Exceeds MOP	2,264	381,071	1,254,267
	Min.	224,276																157,012		196,551	235,850	275,001	119,269			495,763	
	End	433,303																		199,283	262,439	325,497	388,485			139,547	744,821
GC8x07.0-SR1	Start	624,296																	Please consult factory	724,847	858,816	992,627		Exceeds MOP	2,270	601,416	1,100,128
	Min.	321,679																236,580		294,724	352,456		182,411			398,724	
	End	603,196																		296,487	389,350	482,104				210,928	556,621
GC8x07.0-SR2	Start	501,202																	Please consult factory	549,158	683,583	817,757	951,727	Exceeds MOP	1,829	457,043	1,193,038
	Min.	264,159																182,848		240,929	298,579	356,033	142,670			459,364	
	End	510,190																		233,266	326,446	419,451	512,315			169,415	679,585
GC8x07.0-SR3	Start	423,978																	Please consult factory	492,842	627,565	761,990	896,164	Exceeds MOP	1,554	386,982	1,271,445
	Min.	223,823																167,046		225,058	282,704	340,132	121,004			500,625	
	End	431,702																		217,024	310,409	403,589	496,594			143,644	756,728
GC8x08.0-SR1	Start	622,931																	Please consult factory	664,200	847,322	1,030,003		Exceeds MOP	1,667	603,295	1,102,968
	Min.	321,120																209,786		289,384	368,123		182,997			399,504	
	End	601,227																		254,448	381,382	508,012				212,230	558,589
GC8x08.0-SR2	Start	499,837																	Please consult factory	573,480	757,110	940,232	1,122,914	Exceeds MOP	1,343	457,870	1,195,879
	Min.	263,602																193,217		272,270	350,756	428,930	142,922			460,140	
	End	508,220																		250,126	377,412	504,347	630,977			169,988	681,554
GC8x08.0-SR3	Start	422,613																	Please consult factory	651,887	835,517	1,018,638	1,201,320	Exceeds MOP	1,141	387,168	1,274,285
	Min.	223,266																235,334		313,909	392,177	470,216	121,061			501,401	
	End	429,732																		327,269	454,555	581,490	708,119			143,773	758,697

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Torque - Hydraulic 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)		
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000	
			Pressure Torque Output: Start/Min./End (lbf-in)																					
GC8x09.0-SR1	Start	621,786			Please consult factory	817,260	1,057,028	Exceeds MOP												1,281	606,702	1,806	1,110,657	
	Min.	320,651				275,612	378,695																183,976	401,683
	End	599,576				360,544	526,745																	214,592
GC8x09.0-SR2	Start	498,693			Please consult factory	910,170	1,149,938	Exceeds MOP												1,032	459,552	1,806	1,203,567	
	Min.	263,134				337,129	439,449																143,395	462,310
	End	506,569				483,509	649,709																	171,154
GC8x09.0-SR3	Start	421,469			Please consult factory	507,054	988,576	Exceeds MOP												877	388,139	1,806	1,281,973	
	Min.	222,799				172,865	378,590		480,717														121,361	503,571
	End	428,081				226,874	560,652		726,852															144,446
GC8x10.0-SR1	Start	620,642			Please consult factory	Exceeds MOP		Exceeds MOP												1,018	608,489	1,435	1,115,086	
	Min.	320,183																					184,550	402,972
	End	597,925																						215,831
GC8x10.0-SR2	Start	497,548			Please consult factory	679,481	Exceeds MOP	Exceeds MOP												820	460,046	1,435	1,207,996	
	Min.	262,667				238,252																	143,558	463,595
	End	504,918				323,602																		171,497
GC8x10.0-SR3	Start	420,324			Please consult factory	452,990	757,888	Exceeds MOP												696	387,011	1,435	1,286,403	
	Min.	222,332				149,540	280,038																120,901	504,856
	End	426,430				189,399	400,745																	143,664
GC8x12.0-SR1	Start	617,968			Please consult factory	716,047	Exceeds MOP	Exceeds MOP												689	606,039	972	1,115,707	
	Min.	319,087				231,612																	183,650	403,092
	End	594,067				290,387																		214,133
GC8x12.0-SR2	Start	494,874			Please consult factory	808,957	Exceeds MOP	Exceeds MOP												556	458,798	972	1,208,617	
	Min.	261,576				293,700																	143,314	463,714
	End	501,061				413,351																		170,631
GC8x12.0-SR3	Start	417,650	435,962	887,363	Exceeds MOP			Exceeds MOP												472	385,312	972	1,287,024	
	Min.	221,241	142,528	335,264																			120,529	504,975
	End	422,573	177,596	490,494																				142,487

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

Torque - Hydraulic 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)											
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500	4750					5000										
Pressure Torque Output: Start/Min./End (lbf-in)																																	
GC10x06.0-SR4	Start	851,701																	Please consult factory	968,771	1,180,917	1,287,272	1,393,892	3,836	899,289	5,000	1,393,892						
	Min.	415,353																287,393		381,657	428,296	474,804	255,870					474,804					
	End	715,824																		316,396	463,439	537,156	611,057					268,237	611,057				
GC10x07.0-SR2	Start	1,166,087																	Please consult factory	1,241,320	1,403,446	1,565,610	1,890,307	2,052,968	2,215,923	3,465	1,218,621	5,000	788,053				
	Min.	576,377																362,519		434,745	506,052	647,430	717,796	788,053	352,285					788,053			
	End	1,018,240																		400,680	513,053	625,452	850,506	963,249	1,076,197					384,947	1,076,197		
GC10x07.0-SR3	Start	1,062,438																	Please consult factory	1,246,304	1,408,457	1,570,583	1,732,747	2,057,444	2,220,105	2,383,060	3,162	1,189,208	5,000	854,687			
	Min.	508,293																358,470		430,964	502,436	573,329	714,279	784,528	854,687	332,537					854,687		
	End	850,948																		391,824	504,215	616,588	728,987	954,041	1,066,785	1,179,732					352,250	1,179,732	
GC10x07.0-SR4	Start	850,244																	Please consult factory	1,058,764	1,221,161	1,383,405	1,545,557	1,707,684	1,869,847	2,194,544	2,357,206	2,520,161	2,539	921,533	5,000	2,520,161	
	Min.	414,751																323,953		395,396	466,134	536,465	606,522	676,457	816,062	885,824	955,638	262,577					955,638
	End	713,721																		378,772	491,333	603,787	716,179	828,552	940,951	1,166,005	1,278,749	1,391,696					283,655
GC10x08.0-SR1	Start	1,446,793																	Please consult factory	1,712,466	1,937,516	2,162,528					Exceeds MOP	3,089	1,567,470	3,782	2,191,331		
	Min.	703,389																510,732		610,468	709,155					445,477						721,722	
	End	1,211,972																		580,997	736,983	892,943										480,497	912,908
GC10x08.0-SR2	Start	1,164,294																	Please consult factory	1,232,292	1,458,016	1,683,423	1,908,604	2,133,654	2,358,666		Exceeds MOP	2,493	1,225,966	3,782	861,407		
	Min.	575,639																357,417		457,740	556,471	654,421	751,875	848,977		354,559						861,407	
	End	1,015,653																		394,422	550,877	707,110	863,188	1,019,175	1,175,135							390,038	1,195,099
GC10x08.0-SR3	Start	1,060,645																	Please consult factory	1,399,429	1,625,154	1,850,560	2,075,742	2,300,792	2,525,803		Exceeds MOP	2,275	1,195,928	3,782	2,554,607		
	Min.	507,552																425,939		525,279	623,564	721,245	818,509	915,582		334,635						927,978	
	End	848,361																		497,958	654,412	810,646	966,724	1,122,710	1,278,670							356,907	1,298,635
GC10x08.0-SR4	Start	848,450																	Please consult factory	1,083,753	1,310,394	1,536,529	1,762,254	1,987,660	2,212,842	2,437,892	2,662,903	Exceeds MOP	1,826	925,665	3,782	2,691,707	
	Min.	414,010																334,232		433,442	531,555	629,009	726,100	822,987	919,638	1,016,261	1,028,629						
	End	711,134																		396,093	553,182	709,921	866,376	1,022,609	1,178,687	1,334,674	1,490,634						286,519
GC10x09.0-SR1	Start	1,445,290																	Please consult factory	1,773,021	2,072,268						Exceeds MOP	2,344	1,586,068	2,840	2,179,905		
	Min.	702,768																534,719		666,292						451,120						713,264	
	End	1,209,803																		622,969	830,382											493,388	904,988
GC10x09.0-SR2	Start	1,162,790																	Please consult factory	1,369,206	1,669,460	1,969,159	2,268,406				Exceeds MOP	1,891	1,238,095	2,840	2,376,043		
	Min.	575,021																416,419		547,863	677,746	806,719				358,107						853,041	
	End	1,013,484																		489,320	697,433	905,160	1,112,574									398,445	1,187,180
GC10x09.0-SR3	Start	1,059,142																	Please consult factory	1,235,432	1,536,343	1,836,598	2,136,297	2,435,543			Exceeds MOP	1,726	1,206,506	2,840	2,543,181		
	Min.	506,930																350,915		484,267	614,992	744,531	873,353			337,817						919,635	
	End	846,192																		384,288	592,856	800,968	1,008,696	1,216,109								364,239	1,290,715
GC10x09.0-SR4	Start	846,947																	Please consult factory	1,070,860	1,372,532	1,673,444	1,973,698	2,273,397	2,572,643		Exceeds MOP	1,385	931,807	2,840	2,680,281		
	Min.	413,389																327,357		458,877	588,678	717,610	846,100	974,211		265,536						1,020,305	
	End	708,966																		387,156	596,251	804,819	1,012,932	1,220,659	1,428,073							290,776	1,502,679

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

Torque - Hydraulic 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)			
			500	750	1000	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4500					4750	5000	
Pressure Torque Output: Start/Min./End (lbf-in)																								
GC10x10.0-SR1	Start	1,443,787					Please consult factory	1,832,758	2,215,376	Exceeds MOP									1,846	1,596,715	2,260	2,230,668		
	Min.	702,147						559,267	726,450													454,283		733,088
	End	1,207,635							664,374		929,574												500,768	
GC10x10.0-SR2	Start	1,161,287					Please consult factory	1,261,395	1,645,561	Exceeds MOP									1,489	1,244,471	2,260	2,426,806		
	Min.	574,403						367,480	536,058													359,935		872,648
	End	1,011,316							414,595		680,867												402,864	
GC10x10.0-SR3	Start	1,057,638					Please consult factory	1,428,533	1,812,698	Exceeds MOP									1,359	1,211,455	2,260	2,593,943		
	Min.	506,309						435,862	603,235													339,227		939,188
	End	844,024							518,130		784,403												367,669	
GC10x10.0-SR4	Start	845,443					Please consult factory	1,565,633	1,949,798	Exceeds MOP									1,091	935,057	2,260	2,731,043		
	Min.	412,767						541,249	705,966													266,558		1,039,815
	End	706,797							730,094		996,366												293,029	
GC10x12.0-SR1	Start	1,440,274					Please consult factory	2,206,115		Exceeds MOP									1,237	1,601,529	1,515	2,240,549		
	Min.	700,695						721,084														455,616		736,001
	End	1,202,568							923,155														504,104	
GC10x12.0-SR2	Start	1,157,774					Please consult factory	1,251,373	2,402,253	Exceeds MOP									998	1,246,756	1,515	2,436,687		
	Min.	572,958						362,662	860,776													360,608		875,529
	End	1,006,248							407,648		1,205,346												404,448	
GC10x12.0-SR3	Start	1,054,126					Please consult factory	1,418,510	2,569,391	Exceeds MOP									911	1,212,970	1,515	2,603,825		
	Min.	504,858						431,106	927,349													339,726		942,062
	End	838,957							511,183		1,308,882												368,720	
GC10x12.0-SR4	Start	841,931					Please consult factory	977,673	1,555,611	Exceeds MOP									731	933,675	1,515	2,740,925		
	Min.	411,316						285,699	536,603													266,061		1,042,682
	End	701,730							322,567		723,147												292,071	
GC10x14.0-SR2	Start	1,154,676					Please consult factory	1,350,295	2,154,738	Exceeds MOP									718	1,247,173	1,090	2,443,843		
	Min.	571,684						406,308	753,902													360,660		877,482
	End	1,001,780							476,213		1,033,789												404,737	
GC10x14.0-SR3	Start	1,051,028					Please consult factory	1,517,432	2,321,876	Exceeds MOP									655	1,211,185	1,090	2,610,981		
	Min.	503,578						474,227	820,536													338,926		944,010
	End	834,488							579,748		1,137,324												367,482	
GC10x14.0-SR4	Start	838,833					Please consult factory	1,654,533	2,458,976	Exceeds MOP									526	931,914	1,090	2,748,081		
	Min.	410,036						578,845	921,655													265,528		1,044,625
	End	697,261							791,712		1,349,288												290,850	

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