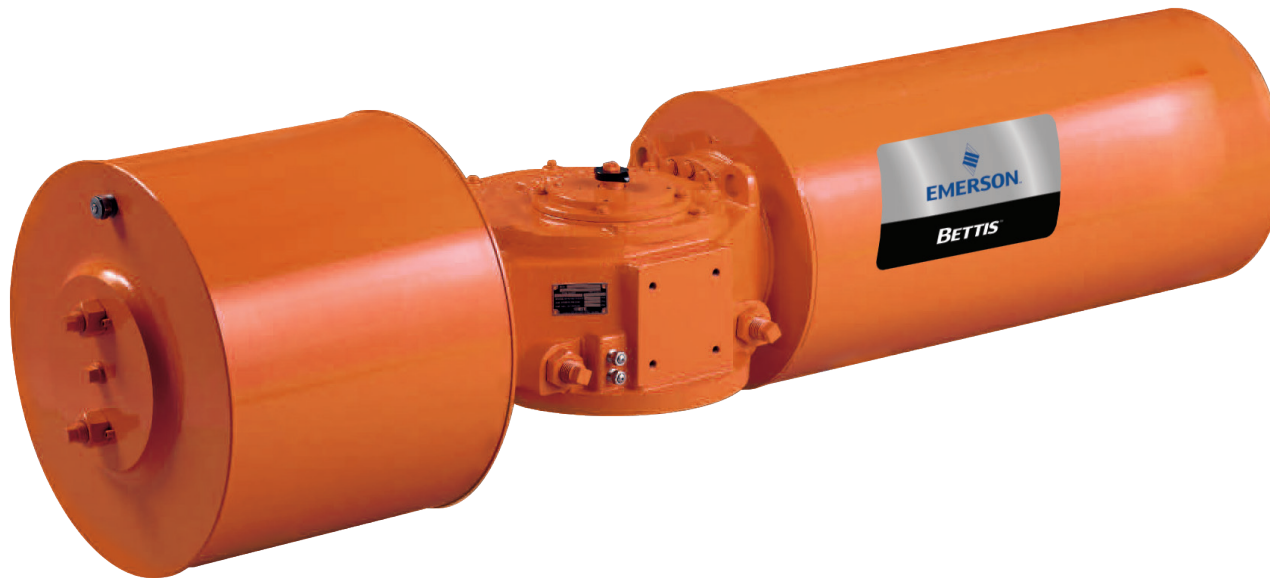


Bettis GC-Series

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



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Torque - Pneumatic

Double-Acting Actuator

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

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

Torque - Pneumatic Double-Acting Actuator

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

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

Torque - Pneumatic

Double-Acting Actuator

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

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

Torque - Pneumatic Double-Acting Actuator

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

Note:
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Torque - Pneumatic

Double-Acting Actuator

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

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Torque - Pneumatic Double-Acting Actuator

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

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Torque - Pneumatic Double-Acting Actuator

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

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Torque - Pneumatic

Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)			
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200		
Pressure Torque Output: Start/Min./End (lbf-in)																									
GC7x220	Start	Outboard	234,680	294,986	355,296	415,610	475,928	536,251	596,578	Exceeds MOP	-	-	-	-	-	-	-	-	-	40	234,680	100	596,578		
	Min.		144,793	181,487	218,183	254,881	291,579	328,279	364,980		-	-	-	-	-	-	-	-	-		-		144,793	364,980	
	End		338,475	425,453	512,438	599,428	686,424	773,426	860,435		-	-	-	-	-	-	-	-	-		-		338,475	860,435	
	Start	Inboard	338,146	425,039	511,939	598,845	685,756	772,674	859,598		-	-	-	-	-	-	-	-	-		-		338,146	859,598	
	Min.		145,022	181,775	218,530	255,285	292,042	328,800	365,560		-	-	-	-	-	-	-	-	-		-		145,022	365,560	
	End		234,401	294,635	354,873	415,116	475,363	535,613	595,869		-	-	-	-	-	-	-	-	-		-		-	234,401	595,869
GC7x224	Start	Outboard	344,824	432,885	520,952	609,023	697,099	Exceeds MOP	-	-	-	-	-	-	-	-	-	-	-	40	344,824	89	776,371		
	Min.		211,969	265,524	319,081	372,640	426,200		-	-	-	-	-	-	-	-	-	-	-		-		211,969	474,405	
	End		497,334	624,344	751,361	878,384	1,005,415		-	-	-	-	-	-	-	-	-	-	-		-		497,334	1,119,748	
	Start	Inboard	496,850	623,736	750,630	877,530	1,004,436		-	-	-	-	-	-	-	-	-	-	-		-		496,850	1,118,658	
	Min.		212,305	265,946	319,588	373,231	426,876		-	-	-	-	-	-	-	-	-	-	-		-		212,305	475,158	
	End		344,414	432,371	520,333	608,299	696,270		-	-	-	-	-	-	-	-	-	-	-		-		-	344,414	775,448
GC7x228	Start	Outboard	487,169	611,702	736,244	Exceeds MOP	-	-	-	-	-	-	-	-	-	-	-	-	-	40	487,169	63	773,607		
	Min.		299,737	375,503	451,271		-	-	-	-	-	-	-	-	-	-	-	-	-		-		299,737	474,002	
	End		702,637	882,249	1,061,872		-	-	-	-	-	-	-	-	-	-	-	-	-		-		-	702,637	1,115,762
	Start	Inboard	701,953	881,390	1,060,839		-	-	-	-	-	-	-	-	-	-	-	-	-		-		701,953	1,114,676	
	Min.		300,212	376,099	451,988		-	-	-	-	-	-	-	-	-	-	-	-	-		-		-	300,212	474,755
	End		486,590	610,975	735,368		-	-	-	-	-	-	-	-	-	-	-	-	-		-		-	486,590	772,688

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Torque - Pneumatic

Double-Acting Actuator

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

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Torque - Pneumatic

Double-Acting Actuator

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

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Torque - Pneumatic

Double-Acting Actuator

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

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Torque - Pneumatic Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)			
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200		
			Pressure Torque Output: Start/Min./End (lbf-in)																						
GC10x228	Start	Outboard	748,922	940,582	1,132,256	1,323,942	1,515,642	1,707,355	1,899,080	Exceeds MOP	-	-	-	-	-	-	-	-	-	-	40	748,922	100	1,899,080	
	Min.		461,165	577,801	694,442	811,086	927,734	1,044,386	1,161,043		-	-	-	-	-	-	-	-	-	-		-		461,165	1,161,043
	End		1,080,326	1,356,798	1,633,288	1,909,798	2,186,326	2,462,873	2,739,439		-	-	-	-	-	-	-	-	-	-		-		-	1,080,326
	Start	Inboard	1,079,329	1,355,546	1,631,782	1,908,037	2,184,310	2,460,602	2,736,913		-	-	-	-	-	-	-	-	-	-		-		1,079,329	2,736,913
	Min.		461,842	578,650	695,462	812,278	929,097	1,045,921	1,162,748		-	-	-	-	-	-	-	-	-	-		-		461,842	1,162,748
	End		748,105	939,556	1,131,021	1,322,499	1,513,989	1,705,493	1,897,009		-	-	-	-	-	-	-	-	-	-		-		-	748,105
GC10x232	Start	Outboard	986,641	1,238,295	1,489,963	1,741,645	1,993,343	2,245,055	2,496,782	Exceeds MOP	-	-	-	-	-	-	-	-	-	-	40	986,641	100	2,496,782	
	Min.		606,341	759,442	912,547	1,065,658	1,218,772	1,371,891	1,525,015		-	-	-	-	-	-	-	-	-	-		-		606,341	1,525,015
	End		1,423,238	1,786,250	2,149,283	2,512,338	2,875,414	3,238,511	3,601,629		-	-	-	-	-	-	-	-	-	-		-		1,423,238	3,601,629
	Start	Inboard	1,421,926	1,784,603	2,147,301	2,510,021	2,872,762	3,235,524	3,598,307		-	-	-	-	-	-	-	-	-	-		-		1,421,926	3,598,307
	Min.		607,231	760,558	913,888	1,067,223	1,220,563	1,373,907	1,527,255		-	-	-	-	-	-	-	-	-	-		-		607,231	1,527,255
	End		985,565	1,236,944	1,488,338	1,739,746	1,991,169	2,242,607	2,494,059		-	-	-	-	-	-	-	-	-	-		-		985,565	2,494,059
GC10x236	Start	Outboard	1,256,413	1,576,072	1,895,748	2,215,440	Exceeds MOP	-	-	-	-	-	-	-	-	-	-	-	-	-	40	1,256,413	79	2,503,177	
	Min.		770,981	965,413	1,159,850	1,354,292		-	-	-	-	-	-	-	-	-	-	-	-	-		-		770,981	1,529,295
	End		1,812,387	2,273,497	2,734,632	3,195,790		-	-	-	-	-	-	-	-	-	-	-	-	-		-		1,812,387	3,610,853
	Start	Inboard	1,810,715	2,271,401	2,732,110	3,192,843		-	-	-	-	-	-	-	-	-	-	-	-	-		-		1,810,715	3,607,523
	Min.		772,114	966,831	1,161,554	1,356,282		-	-	-	-	-	-	-	-	-	-	-	-	-		-		772,114	1,531,541
	End		1,255,043	1,574,354	1,893,680	2,213,024		-	-	-	-	-	-	-	-	-	-	-	-	-		-		1,255,043	2,500,447
GC10x240	Start	Outboard	1,558,239	1,953,917	2,349,613	Exceeds MOP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	1,558,239	64	2,507,897	
	Min.		955,087	1,195,716	1,436,351		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		955,087	1,532,607
	End		2,247,772	2,818,541	3,389,337		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		2,247,772	3,617,662
	Start	Inboard	2,245,699	2,815,942	3,386,211		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		2,245,699	3,614,326
	Min.		956,490	1,197,473	1,438,461		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		956,490	1,534,858
	End		1,556,539	1,951,786	2,347,051		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		1,556,539	2,505,162

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

Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)						
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200					
Pressure Torque Output: Start/Min./End (lbf-in)																												
GC01x08-SR0	Start	20,473	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	18,658	21,085	23,513	Exceeds MOP	169	18,415	192	23,998
	Min.	10,924	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		6,012	7,063	8,107			5,907		8,315
	End	21,272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	7,210	8,891			10,572		7,042
GC01x08-SR1	Start	15,419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	12,586	15,011	17,438	Exceeds MOP	128	12,101	192	27,632
	Min.	8,593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		4,373	5,412	6,447			4,164		10,780
	End	17,638	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	5,535	7,215			8,895		5,199
GC01x08-SR2	Start	12,894	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	9,877	12,302	14,727	Exceeds MOP	107	9,150	192	29,773
	Min.	7,358	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		3,599	4,634	5,666			3,288		12,048
	End	15,496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	4,697	6,376			8,056		4,194
GC01x08-SR3	Start	11,237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	9,422	11,847	14,272	Exceeds MOP	94	7,968	192	31,743
	Min.	6,434	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		3,508	4,541	5,572			2,886		12,980
	End	13,526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	4,673	6,351			8,030		3,665
GC01x08-SR4	Start	9,536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	6,340	8,764	11,188	Exceeds MOP	80	6,340	192	33,509
	Min.	5,536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		2,364	3,397	4,428			2,364		13,888
	End	11,760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	3,014	4,692			6,370		3,014
GC01x09-SR0	Start	20,423	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	20,675	23,771	26,867	Exceeds MOP	132	18,199	200	39,256
	Min.	10,909	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		6,894	8,225	9,550			5,821		14,825
	End	21,199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	8,607	10,751			12,894		6,892
GC01x09-SR1	Start	15,368	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	11,930	15,024	18,118	Exceeds MOP	100	11,930	200	42,889
	Min.	8,577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		4,099	5,426	6,746			4,099		17,254
	End	17,566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	5,081	7,223			9,366		5,081
GC01x09-SR2	Start	12,843	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	10,978	14,071	17,165	Exceeds MOP	84	9,122	200	45,031
	Min.	7,343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		4,079	5,396	6,710			3,286		18,516
	End	15,424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	5,459	7,601			9,744		4,174
GC01x09-SR3	Start	11,186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	9,854	12,947	16,041	Exceeds MOP	74	7,999	200	47,001
	Min.	6,419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		3,703	5,019	6,333			2,910		19,446
	End	13,454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	4,972	7,113			9,255		3,687
GC01x09-SR4	Start	9,485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	5,436	8,528	11,620	Exceeds MOP	60	5,436	200	48,767
	Min.	5,521	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		1,988	3,308	4,622			1,988		20,354
	End	11,687	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	2,387	4,528			6,670		2,387

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)			
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200		
			Pressure Torque Output: Start/Min./End (lbf-in)																						
GC01x10-SR0	Start	20,361	-	-	-	-	-	-	Please consult factory	18,339	22,446	26,554	30,662	34,771	38,881	42,990	Exceeds MOP	-	-	-	100	18,339	166	45,457	
	Min.	10,890	-	-	-	-	-	-	5,892	7,665	9,425	11,178	12,927	14,673	16,418	-		-	-	5,892		17,464			
	End	21,111	-	-	-	-	-	-	6,989	9,833	12,678	15,522	18,367	21,213	24,058	-		-	-	6,989		25,766			
GC01x10-SR1	Start	15,307	-	-	-	Please consult factory	13,759	17,865	21,972	26,079	30,187	34,296	38,405	42,514	46,624	Exceeds MOP	-	-	-	76	12,116	166	49,090		
	Min.	8,559	-	-	-		4,896	6,648	8,394	10,138	11,880	13,621	15,361	17,102	18,842		-	-	-		4,911		19,886		
	End	17,477	-	-	-		6,348	9,191	12,034	14,878	17,723	20,567	23,412	26,258	29,103		-	-	-		5,210		30,811		
GC01x10-SR2	Start	12,782	-	-	Please consult factory	11,795	15,900	20,007	24,114	28,221	32,329	36,437	40,546	44,656	48,765	Exceeds MOP	-	-	-	64	9,331	166	51,232		
	Min.	7,324	-	-		4,439	6,184	7,926	9,667	11,407	13,147	14,886	16,625	18,364	20,103		-	-	-		3,388		21,146		
	End	15,335	-	-		6,025	8,868	11,711	14,555	17,399	20,243	23,088	25,933	28,778	31,624		-	-	-		4,319		33,331		
GC01x10-SR3	Start	11,125	-	Please consult factory	9,659	13,764	17,870	21,977	26,084	30,191	34,299	38,407	42,516	46,625	50,735	Exceeds MOP	-	-	-	56	8,017	166	53,201		
	Min.	6,400	-		3,632	5,378	7,120	8,860	10,600	12,339	14,078	15,817	17,555	19,294	21,033		-	-	-		2,931		22,077		
	End	13,365	-		4,836	7,679	10,522	13,365	16,209	19,053	21,897	24,742	27,587	30,432	33,278		-	-	-		3,699		34,985		
GC01x10-SR4	Start	9,424	Please consult factory	7,320	11,425	15,530	19,636	23,743	27,850	31,957	36,065	40,173	44,282	48,392	52,501	Exceeds MOP	-	-	-	48	6,499	166	54,968		
	Min.	5,502		2,807	4,551	6,292	8,031	9,770	11,509	13,247	14,986	16,725	18,464	20,202	21,942		-	-	-		2,457		22,985		
	End	11,599		3,692	6,534	9,377	12,220	15,063	17,907	20,751	23,595	26,440	29,285	32,130	34,976		-	-	-		3,124		36,683		
GC01x12-SR0	Start	20,266	-	-	Please consult factory	18,387	24,279	30,172	36,066	41,960	Exceeds MOP	-	-	-	-	-	-	-	-	-	70	18,387	116	45,497	
	Min.	10,861	-	-		5,932	8,470	10,986	13,493	15,996		-	-	-	-	-	-	-	-	-		-		5,932	17,496
	End	20,974	-	-		7,023	11,103	15,183	19,264	23,345		-	-	-	-	-	-	-	-	-		-		7,023	25,794
GC01x12-SR1	Start	15,212	-	-	Please consult factory	16,128	22,020	27,912	33,806	39,699	45,594	Exceeds MOP	-	-	-	-	-	-	-	-	53	12,004	116	49,130	
	Min.	8,530	-	-		5,928	8,434	10,933	13,430	15,926	18,421		-	-	-	-	-	-	-	-		-		4,164	19,918
	End	17,340	-	-		7,988	12,068	16,148	20,228	24,309	28,390		-	-	-	-	-	-	-	-		-		5,132	30,839
GC01x12-SR2	Start	12,687	Please consult factory	12,378	18,270	24,162	30,054	35,947	41,841	47,735	Exceeds MOP	-	-	-	-	-	-	-	-	-	44	8,844	116	51,272	
	Min.	7,295		4,709	7,210	9,706	12,201	14,695	17,189	19,682		-	-	-	-	-	-	-	-	-		-		3,201	21,178
	End	15,198		6,429	10,508	14,588	18,668	22,748	26,829	30,910		-	-	-	-	-	-	-	-	-		-		3,982	33,359
GC01x12-SR3	Start	11,030	8,457	14,348	20,239	26,131	32,024	37,917	43,811	49,705	Exceeds MOP	-	-	-	-	-	-	-	-	-	39	7,868	116	53,242	
	Min.	6,371	3,142	5,647	8,144	10,639	13,133	15,626	18,119	20,613		-	-	-	-	-	-	-	-	-		2,891		22,109	
	End	13,228	4,004	8,083	12,162	16,242	20,322	24,402	28,483	32,564		-	-	-	-	-	-	-	-	-		3,596		35,013	
GC01x12-SR4	Start	9,329	10,223	16,114	22,006	27,897	33,790	39,683	45,577	51,471	Exceeds MOP	-	-	-	-	-	-	-	-	-	33	6,100	116	55,008	
	Min.	5,473	4,064	6,560	9,055	11,548	14,041	16,534	19,027	21,521		-	-	-	-	-	-	-	-	-		2,310		23,017	
	End	11,462	5,702	9,781	13,860	17,940	22,020	26,100	30,181	34,262		-	-	-	-	-	-	-	-	-		2,847		36,711	

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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

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

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

Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)	Operating Pressure (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)										
		40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200									
		Pressure Torque Output: Start/Min./End (lbf-in)																													
GC4x12-SR2	Start	83,248	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	78,847	89,253	99,659	110,067	120,476	159	77,806	200	120,476			
	Min.	43,717	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24,736		29,244	33,721	38,178	42,622	24,283					42,622		
	End	84,070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29,678		36,884	44,091	51,298	58,506	28,957					58,506		
GC4x12-SR3	Start	70,086	-	-	-	-	-	-	-	-	-	-	-	71,208	81,612	92,017	102,422	112,829	123,237	133,646	Please consult factory	134	200	133,646							
	Min.	36,888	-	-	-	-	-	-	-	-	-	-	-	23,018	27,501	31,960	36,403	40,836	45,264	49,684					20,306	49,684					
	End	70,895	-	-	-	-	-	-	-	-	-	-	-	28,410	35,614	42,819	50,025	57,232	64,439	71,648					24,087	71,648					
GC4x12-SR4	Start	57,845	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	111	200	145,028							
	Min.	30,719	-	-	-	-	-	-	-	-	-	-	-	61,786	72,187	82,590	92,993	103,398	113,804	124,211					134,619	145,028	16,590	56,049			
	End	59,508	-	-	-	-	-	-	-	-	-	-	-	20,639	25,101	29,543	33,972	38,396	42,813	47,230					51,639	56,049	19,743	83,870			
GC4x14-SR1	Start	95,144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	149	194	Exceeds MOP							
	Min.	50,679	-	-	-	-	-	-	-	-	-	-	-	86,842	99,531	112,222	124,914	137,607	27,789	33,264					38,706	44,128	49,538	85,573	51,697		
	End	99,538	-	-	-	-	-	-	-	-	-	-	-	34,045	42,832	51,620	60,409	69,199	34,045	42,832					51,620	60,409	69,199	33,166	72,715		
GC4x14-SR2	Start	83,113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	131	194	Exceeds MOP							
	Min.	43,676	-	-	-	-	-	-	-	-	-	-	-	89,810	102,498	115,188	127,878	140,570	153,263	29,518					34,971	40,398	45,812	51,211	56,607	78,392	58,762
	End	83,875	-	-	-	-	-	-	-	-	-	-	-	37,270	46,057	54,844	63,632	72,421	81,211	37,270					46,057	54,844	63,632	72,421	81,211	29,363	84,727
GC4x14-SR3	Start	69,951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	110	194	Exceeds MOP							
	Min.	36,846	-	-	-	-	-	-	-	-	-	-	-	64,923	77,608	90,293	102,980	115,668	128,358	141,048					153,740	166,433	20,321	65,774			
	End	70,699	-	-	-	-	-	-	-	-	-	-	-	20,321	25,813	31,255	36,673	42,076	47,472	52,858					58,245	63,623	24,057	97,868			
GC4x14-SR4	Start	57,709	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	91	194	Exceeds MOP							
	Min.	30,678	-	-	-	-	-	-	-	-	-	-	-	63,621	76,305	88,989	101,675	114,362	127,050	139,739					152,430	165,122	177,815	21,462	69,964		
	End	59,313	-	-	-	-	-	-	-	-	-	-	-	21,462	26,894	32,301	37,697	43,082	48,465	53,841					59,217	64,594	69,964	27,496	106,574		
GC4x16-SR1	Start	94,970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	113	147	Exceeds MOP							
	Min.	50,626	-	-	-	-	-	-	-	-	-	-	-	97,942	114,747	131,553	32,608	39,812	46,984	-					-	-	-	-	86,180	51,990	
	End	99,287	-	-	-	-	-	-	-	-	-	-	-	41,732	53,369	65,007	41,732	53,369	65,007	-					-	-	-	-	33,587	73,154	
GC4x16-SR2	Start	82,939	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	99	147	Exceeds MOP							
	Min.	43,622	-	-	-	-	-	-	-	-	-	-	-	79,994	96,796	113,599	130,404	147,209	25,299	32,551					39,747	46,911	54,059	78,314	59,054		
	End	83,624	-	-	-	-	-	-	-	-	-	-	-	30,473	42,108	53,744	65,381	77,018	30,473	42,108					53,744	65,381	77,018	29,309	85,166		
GC4x16-SR3	Start	69,777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	83	147	Exceeds MOP							
	Min.	36,793	-	-	-	-	-	-	-	-	-	-	-	76,364	93,164	109,966	126,769	143,573	160,379	25,309					32,513	39,677	46,824	53,955	61,082	64,604	66,065
	End	70,448	-	-	-	-	-	-	-	-	-	-	-	31,980	43,614	55,249	66,885	78,522	90,160	31,980					43,614	55,249	66,885	78,522	90,160	23,837	98,307
GC4x16-SR4	Start	57,535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	69	147	Exceeds MOP							
	Min.	30,624	-	-	-	-	-	-	-	-	-	-	-	54,149	70,946	87,745	104,546	121,347	138,150	154,955					171,761	17,409	67,426				
	End	59,062	-	-	-	-	-	-	-	-	-	-	-	17,409	24,636	31,803	38,944	46,075	53,194	60,312					67,426	20,937	110,529				

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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)				
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200			
			Pressure Torque Output: Start/Min./End (lbf-in)																							
GC5x16-SR2	Start	193,736	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	216,327	237,806	259,285	179	214,180	200	259,285
	Min.	94,801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		62,621	72,098	81,464		61,666		81,464
	End	164,776	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		70,543	85,429	100,316		69,054		100,316
GC5x16-SR3	Start	155,815	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	177,848	199,322	220,797	144	164,965	200	285,232
	Min.	77,741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		54,042	63,393	72,669		48,366		100,254
	End	138,808	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		63,765	78,649	93,533		54,836		138,192
GC5x16-SR4	Start	129,935	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	156,315	177,785	199,258	121	136,993	200	306,641
	Min.	65,283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		49,125	58,413	67,636		40,665		113,382
	End	117,381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		59,851	74,732	89,614		46,459		164,041
GC5x20-SR1	Start	215,685	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	244,871	279,183	313,497	Exceeds MOP	227,715	164	361,539
	Min.	108,045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		74,746	89,655	104,432		67,205		125,011
	End	194,481	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		88,975	112,756	136,539		77,085		169,837
GC5x20-SR2	Start	193,283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	240,894	275,205	309,517	Exceeds MOP	213,448	164	391,873
	Min.	94,660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		73,543	88,449	103,224		61,432		138,433
	End	164,122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		87,570	111,350	135,131		68,547		192,212
GC5x20-SR3	Start	155,362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	163,922	198,227	232,533	Exceeds MOP	163,922	164	417,820
	Min.	77,601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		48,002	63,013	77,803		48,002		156,687
	End	138,154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		54,114	77,890	101,667		54,114		230,087
GC5x20-SR4	Start	129,482	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	151,030	185,332	219,636	Exceeds MOP	137,309	164	439,229
	Min.	65,143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		46,923	61,754	76,448		40,909		169,656
	End	116,727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		56,188	79,962	103,738		46,678		255,936
GC5x24-SR1	Start	215,358	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	249,173	299,256	349,341	Exceeds MOP	229,140	112	359,359
	Min.	107,944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		76,655	98,340	119,811		67,868		124,097
	End	194,008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		91,956	126,669	161,382		78,072		168,325
GC5x24-SR2	Start	192,956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	229,425	279,506	329,590	Exceeds MOP	214,401	112	389,693
	Min.	94,559	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		68,549	90,336	111,857		61,898		137,522
	End	163,650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		79,621	114,331	149,044		69,208		190,700
GC5x24-SR3	Start	155,034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	155,216	205,293	255,372	Exceeds MOP	155,216	112	415,639
	Min.	77,501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		44,165	66,117	87,626		44,165		155,781
	End	137,682	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		48,079	82,787	117,496		48,079		228,576
GC5x24-SR4	Start	129,154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory	176,626	226,702	276,781	Exceeds MOP	136,566	112	437,048
	Min.	65,042	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		58,060	79,505	100,822		40,639		168,751
	End	116,255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		73,928	108,636	143,345		46,163		254,425

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

Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (lbf-in)		Operating Pressure (psig)														MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)																				
			40	50	60	70	80	90	100	110	120	130	140	150	160	170					180	190	200																	
Pressure Torque Output: Start/Min./End (lbf-in)																																								
GC7x24-SR1	Start	426,456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exceeds MOP	138	468,851	178	713,784																
	Min.	209,290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory						140,692	167,577	194,151	220,537	160,887	203,331	245,776	288,225	135,247	241,568						
	End	365,826	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							168,887	203,331	245,776	288,225	152,398	322,185										
GC7x24-SR2	Start	376,514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exceeds MOP	122	412,057	178	754,949																
	Min.	185,270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory						140,801	167,418	193,806	220,069	168,328	210,769	253,213	295,659	246,249	267,151						
	End	324,622	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							168,328	210,769	253,213	295,659	338,107	134,376	372,067									
GC7x24-SR3	Start	310,117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exceeds MOP	101	338,280	178	809,731																
	Min.	153,323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory						122,812	149,306	175,591	201,770	149,770	192,207	234,646	277,088	319,531	361,977	98,620	300,762				
	End	269,786	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							149,770	192,207	234,646	277,088	404,425	111,579	438,386									
GC7x24-SR4	Start	260,175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exceeds MOP	85	281,505	178	850,895																
	Min.	129,302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory						312,110	373,323	434,540	495,759	96,041	122,579	148,856	175,011	201,090	227,134	253,123	279,968	82,579	325,823		
	End	228,582	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							114,785	157,217	199,652	242,089	284,528	326,970	369,413	411,859	454,308	93,569	488,268					
GC7x28-SR1	Start	424,758	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exceeds MOP	97	462,398	126	713,820																
	Min.	208,767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory						488,405	575,099	661,798	757,744	144,636	182,545	219,979	265,953	316,148	376,148	436,148	496,148	133,076	242,321		
	End	363,378	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							165,953	226,049	286,148	346,249	406,349	466,449	526,549	586,649	646,749	147,925	322,210					
GC7x28-SR2	Start	374,817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exceeds MOP	86	408,208	126	754,984																
	Min.	184,746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory						442,881	529,569	616,263	702,962	133,528	171,270	208,594	245,695	282,919	320,243	357,567	394,891	432,215	118,180	267,901	
	End	322,173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							155,744	215,835	275,931	336,030	396,130	456,230	516,330	576,430	636,530	696,630	131,708	372,092				
GC7x28-SR3	Start	308,419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exceeds MOP	71	332,972	126	809,767																
	Min.	152,799	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory						410,982	497,664	584,352	671,045	131,120	168,493	205,577	242,533	279,418	316,303	353,187	390,071	426,955	463,839	96,923	301,508
	End	267,338	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							161,975	222,062	282,154	342,249	402,349	462,449	522,549	582,649	642,749	702,849	107,899	438,410				
GC7x28-SR4	Start	258,478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exceeds MOP	60	278,799	126	850,931																
	Min.	128,779	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Please consult factory						278,799	365,469	452,146	538,828	82,019	119,833	157,051	194,036	230,922	267,737	304,518	341,303	378,087	414,871	82,019	326,568
	End	226,133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							91,693	151,773	211,857	271,944	332,036	392,131	452,231	512,331	572,431	632,531	692,631	91,693	488,293			

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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

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

Note:
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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

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

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Torque - Pneumatic Spring-Return Actuator

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

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

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