

Torque - Pneumatic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																MinOP psig	MOP psig	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200
			Air Torque Output, lbf-in																		
G01x08	Start	Outboard	7,799	9,884	11,970	14,057	16,144	18,231	20,318	22,406	24,494	26,582	28,671	30,760	32,849	34,939	37,029	39,120	41,210	40	192
	Min		4,220	5,311	6,401	7,492	8,582	9,673	10,764	11,855	12,946	14,037	15,128	16,220	17,311	18,402	19,494	20,586	21,677		
	End		7,765	9,841	11,918	13,995	16,073	18,151	20,229	22,308	24,387	26,466	28,546	30,625	32,706	34,786	36,867	38,948	41,030		
G01x08	Start	Inboard	7,676	9,731	11,787	13,843	15,899	17,956	20,012	22,070	24,127	26,185	28,243	30,302	32,361	34,420	36,480	38,540	40,600	40	192
	Min		4,150	5,223	6,297	7,370	8,443	9,516	10,590	11,663	12,737	13,811	14,884	15,958	17,032	18,106	19,180	20,255	21,329		
	End		7,646	9,693	11,740	13,788	15,837	17,885	19,934	21,983	24,033	26,082	28,133	30,183	32,234	34,285	36,336	38,388	40,440		
G01x09	Start	Outboard	10,004	12,657	15,310	17,964	20,618	23,272	25,926	28,581	31,237	33,892	36,548	39,205						40	151
	Min		5,387	6,773	8,159	9,545	10,931	12,318	13,704	15,091	16,478	17,865	19,251	20,638							
	End		9,961	12,602	15,243	17,885	20,527	23,170	25,813	28,456	31,100	33,744	36,388	39,033							
G01x09	Start	Inboard	9,885	12,508	15,131	17,755	20,379	23,004	25,628	28,254	30,879	33,505	36,132	38,758						40	151
	Min		5,317	6,685	8,054	9,423	10,792	12,161	13,530	14,899	16,268	17,638	19,007	20,377							
	End		9,846	12,459	15,072	17,685	20,299	22,913	25,528	28,143	30,758	33,374	35,990	38,606							
G01x10	Start	Outboard	13,362	16,873	20,385	23,896	27,409	30,921	34,434	37,948										40	114
	Min		7,156	8,989	10,823	12,656	14,490	16,324	18,158	19,992											
	End		13,304	16,799	20,295	23,792	27,289	30,786	34,284	37,782											
G01x10	Start	Inboard	13,248	16,730	20,213	23,697	27,180	30,665	34,149	37,634										40	114
	Min		7,086	8,902	10,718	12,534	14,351	16,167	17,983	19,800											
	End		13,196	16,665	20,134	23,604	27,074	30,544	34,015	37,487											
G01x12	Start	Outboard	19,300	24,324	29,349	34,375	39,401													40	80
	Min		10,280	12,902	15,524	18,146	20,769														
	End		19,215	24,218	29,221	34,224	39,228														
G01x12	Start	Inboard	19,194	24,192	29,191	34,190	39,190													40	80
	Min		10,210	12,815	15,420	18,024	20,629														
	End		19,118	24,097	29,076	34,056	39,036														
G01x14	Start	Outboard	23,528	29,633	35,739															40	66
	Min		12,509	15,694	18,880																
	End		23,425	29,503	35,582																
G01x14	Start	Inboard	23,428	29,508	35,589															40	66
	Min		12,439	15,607	18,775																
	End		23,336	29,393	35,450																

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			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200
			Air Torque Output, lbf-in																		
G2x09	Start	Outboard	12,106	15,316	18,527	21,737	24,949	28,161	31,373	34,586	37,799	41,012	44,226	47,441	50,656	53,871	57,087	60,303		40	187
	Min		6,520	8,197	9,875	11,553	13,231	14,909	16,587	18,266	19,944	21,623	23,302	24,980	26,659	28,338	30,018	31,697			
	End		12,056	15,253	18,450	21,648	24,846	28,045	31,244	34,443	37,643	40,844	44,044	47,246	50,447	53,650	56,852	60,055			
G2x09	Start	Inboard	11,962	15,136	18,311	21,486	24,662	27,838	31,014	34,191	37,369	40,547	43,725	46,904	50,083	53,262	56,443	59,623		40	187
	Min		6,435	8,092	9,748	11,405	13,062	14,719	16,376	18,034	19,691	21,348	23,006	24,664	26,322	27,980	29,638	31,296			
	End		11,918	15,080	18,243	21,406	24,570	27,734	30,899	34,064	37,229	40,395	43,562	46,729	49,896	53,064	56,232	59,401			
G2x10	Start	Outboard	16,169	20,418	24,667	28,917	33,167	37,417	41,668	45,920	50,172	54,425	58,678							40	141
	Min		8,661	10,881	13,100	15,319	17,538	19,758	21,978	24,197	26,417	28,637	30,858								
	End		16,103	20,334	24,566	28,798	33,030	37,263	41,497	45,731	49,966	54,201	58,436								
G2x10	Start	Inboard	16,032	20,246	24,461	28,677	32,893	37,109	41,326	45,544	49,762	53,980	58,199							40	141
	Min		8,577	10,775	12,973	15,171	17,370	19,568	21,767	23,966	26,164	28,363	30,563								
	End		15,972	20,171	24,370	28,570	32,770	36,971	41,172	45,374	49,576	53,779	57,982								
G2x12	Start	Outboard	23,353	29,433	35,514	41,595	47,677	53,759	59,842											40	100
	Min		12,443	15,616	18,790	21,964	25,138	28,312	31,486												
	End		23,257	29,312	35,367	41,424	47,480	53,538	59,596												
G2x12	Start	Inboard	23,226	29,275	35,324	41,374	47,424	53,475	59,527											40	100
	Min		12,358	15,511	18,663	21,816	24,969	28,122	31,275												
	End		23,139	29,165	35,192	41,219	47,247	53,276	59,305												
G2x14	Start	Outboard	28,471	35,858	43,246	50,635	58,025													40	81
	Min		15,141	18,996	22,851	26,707	30,563														
	End		28,354	35,711	43,069	50,427	57,786														
G2x14	Start	Inboard	28,351	35,710	43,069	50,428	57,789													40	81
	Min		15,056	18,890	22,725	26,559	30,394														
	End		28,246	35,577	42,908	50,240	57,573														
G2x16	Start	Outboard	37,757	47,503	57,249															40	61
	Min		20,017	25,101	30,185																
	End		37,602	47,308	57,014																
G2x16	Start	Inboard	37,652	47,372	57,093															40	61
	Min		19,933	24,996	30,059																
	End		37,512	47,196	56,880																

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			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200	
			Air Torque Output, lbf-in																			
G3x10		Outboard	Start	19,567	24,714	29,862	35,011	40,160	45,310	50,461	55,612	60,763	65,916	71,069	76,222	81,377	86,531	91,687	96,843	102,000	40	200
			Min	10,486	13,174	15,863	18,551	21,240	23,928	26,617	29,306	31,996	34,685	37,374	40,064	42,754	45,444	48,134	50,825	53,515		
			End	19,492	24,620	29,748	34,877	40,007	45,137	50,268	55,399	60,531	65,664	70,797	75,931	81,066	86,201	91,337	96,473	101,610		
G3x10		Inboard	Start	19,289	24,367	29,446	34,526	39,606	44,687	49,768	54,850	59,933	65,016	70,100	75,185	80,270	85,356	90,442	95,529	100,617	40	200
			Min	10,326	12,974	15,622	18,271	20,919	23,568	26,217	28,865	31,515	34,164	36,813	39,463	42,113	44,763	47,413	50,063	52,714		
			End	19,223	24,284	29,346	34,408	39,471	44,534	49,598	54,663	59,729	64,794	69,861	74,928	79,996	85,065	90,134	95,203	100,274		
G3x12		Outboard	Start	28,305	35,680	43,056	50,432	57,810	65,188	72,567	79,946	87,326	94,707	102,089							40	142
			Min	15,085	18,934	22,783	26,632	30,481	34,331	38,181	42,031	45,881	49,732	53,582								
			End	28,197	35,544	42,891	50,240	57,589	64,939	72,289	79,641	86,993	94,346	101,699								
G3x12		Inboard	Start	28,040	35,350	42,660	49,971	57,283	64,595	71,908	79,222	86,537	93,852	101,168							40	142
			Min	14,924	18,733	22,542	26,351	30,161	33,970	37,780	41,590	45,400	49,210	53,021								
			End	27,945	35,229	42,515	49,801	57,087	64,375	71,663	78,952	86,242	93,532	100,823								
G3x14		Outboard	Start	34,530	43,495	52,462	61,429	70,397	79,366	88,336	97,306	106,278									40	117
			Min	18,366	23,044	27,722	32,400	37,079	41,758	46,437	51,116	55,796										
			End	34,398	43,329	52,261	61,194	70,128	79,063	87,998	96,935	105,872										
G3x14		Inboard	Start	34,275	43,178	52,081	60,985	69,890	78,796	87,703	96,610	105,518									40	117
			Min	18,205	22,843	27,481	32,120	36,758	41,397	46,036	50,676	55,315										
			End	34,158	43,030	51,903	60,777	69,652	78,527	87,404	96,281	105,159										
G3x16		Outboard	Start	45,826	57,660	69,495	81,331	93,167	105,005												40	90
			Min	24,296	30,469	36,641	42,814	48,987	55,160													
			End	45,651	57,440	69,229	81,020	92,812	104,604													
G3x16		Inboard	Start	45,589	57,364	69,141	80,918	92,696	104,476												40	90
			Min	24,136	30,268	36,401	42,533	48,666	54,800													
			End	45,434	57,169	68,905	80,642	92,380	104,119													
G3x20		Outboard	Start	73,154	91,908																40	56
			Min	38,621	48,398																	
			End	72,875	91,557																	
G3x20		Inboard	Start	72,960	91,667																40	56
			Min	38,461	48,197																	
			End	72,711	91,354																	

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Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																MinOP psig	MOP psig	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200
			Air Torque Output, lbf-in																		
G4x12		Start	34,260	43,193	52,128	61,064	70,001	78,938	87,876	96,816	105,756	114,697	123,639	132,582	141,526	150,471	159,416	168,363	177,310	40	200
		Min	18,275	22,939	27,604	32,269	36,935	41,600	46,266	50,932	55,599	60,265	64,932	69,599	74,266	78,934	83,602	88,270	92,938		
		End	34,117	43,014	51,912	60,811	69,710	78,611	87,512	96,414	105,317	114,221	123,126	132,032	140,939	149,846	158,755	167,664	176,575		
G4x12		Start	33,775	42,588	51,402	60,217	69,033	77,850	86,668	95,487	104,306	113,127	121,948	130,771	139,594	148,418	157,243	166,069	174,896	40	200
		Min	17,994	22,588	27,183	31,778	36,373	40,969	45,565	50,161	54,757	59,353	63,950	68,547	73,144	77,741	82,339	86,937	91,535		
		End	33,646	42,425	51,206	59,987	68,769	77,552	86,336	95,121	103,907	112,694	121,482	130,270	139,060	147,850	156,641	165,434	174,227		
G4x14		Start	41,825	52,692	63,560	74,428	85,298	96,169	107,041	117,914	128,788	139,663	150,540	161,417	172,295	183,174	194,054	204,936	215,818	40	194
		Min	22,264	27,937	33,610	39,283	44,957	50,631	56,305	61,979	67,654	73,329	79,004	84,680	90,356	96,032	101,708	107,385	113,061		
		End	41,651	52,473	63,296	74,120	84,944	95,770	106,597	117,425	128,254	139,084	149,915	160,747	171,580	182,414	193,249	204,085	214,923		
G4x14		Start	41,352	52,101	62,851	73,603	84,355	95,109	105,863	116,618	127,375	138,132	148,891	159,651	170,411	181,173	191,936	202,699	213,464	40	194
		Min	21,983	27,586	33,189	38,792	44,395	49,999	55,603	61,207	66,812	72,416	78,021	83,627	89,232	94,838	100,444	106,051	111,657		
		End	41,194	51,902	62,611	73,321	84,032	94,745	105,458	116,172	126,888	137,604	148,321	159,040	169,759	180,480	191,201	201,924	212,647		
G4x16		Start	55,555	69,907	84,261	98,616	112,973	127,330	141,689	156,048	170,409	184,771	199,135	213,499						40	147
		Min	29,475	36,964	44,454	51,944	59,435	66,926	74,417	81,908	89,400	96,892	104,384	111,876							
		End	55,324	69,617	83,912	98,207	112,504	126,802	141,101	155,401	169,702	184,005	198,308	212,613							
G4x16		Start	55,104	69,345	83,587	97,830	112,075	126,320	140,567	154,815	169,064	183,314	197,566	211,818						40	147
		Min	29,194	36,614	44,033	51,453	58,873	66,294	73,715	81,136	88,558	95,979	103,401	110,824							
		End	54,893	69,080	83,267	97,456	111,646	125,837	140,029	154,222	168,417	182,613	196,810	211,008							
G4x20		Start	88,763	111,525	134,289	157,054	179,821	202,590												40	92
		Min	46,890	58,762	70,633	82,506	94,378	106,251													
		End	88,394	111,062	133,732	156,403	179,075	201,749													
G4x20		Start	88,366	111,030	133,696	156,363	179,031	201,701												40	92
		Min	46,610	58,411	70,212	82,014	93,817	105,619													
		End	88,028	110,605	133,184	155,764	178,346	200,930													
G4x24		Start	129,797	162,896	195,996															40	63
		Min	68,339	85,592	102,846																
		End	129,259	162,220	195,183																
G4x24		Start	129,466	162,483	195,502															40	63
		Min	68,058	85,241	102,425																
		End	128,971	161,862	194,754																
G4x28		Start	182,776																	40	45
		Min	96,348																		
		End	182,018																		
G4x28		Start	182,531																	40	45
		Min	96,067																		
		End	181,833																		

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			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200	
			Air Torque Output, lbf-in																			
G5x16		Outboard	Start	71,679	90,171	108,665	127,160	145,657	164,155	182,654	201,154	219,656	238,159	256,663	275,169	293,676	312,184	330,693	349,204	367,716	40	200
			Min	37,976	47,619	57,262	66,906	76,550	86,194	95,839	105,484	115,130	124,775	134,421	144,068	153,715	163,362	173,009	182,657	192,305		
			End	71,407	89,829	108,253	126,678	145,105	163,532	181,961	200,391	218,823	237,256	255,690	274,125	292,562	311,000	329,439	347,880	366,321		
G5x16		Inboard	Start	70,555	88,768	106,982	125,198	143,414	161,632	179,852	198,072	216,294	234,517	252,742	270,967	289,194	307,423	325,652	343,883	362,115	40	200
			Min	37,331	46,812	56,294	65,777	75,259	84,742	94,226	103,709	113,193	122,678	132,163	141,648	151,133	160,619	170,105	179,591	189,078		
			End	70,320	88,471	106,625	124,779	142,935	161,092	179,250	197,410	215,571	233,733	251,896	270,061	288,227	306,395	324,563	342,733	360,904		
G5x20		Outboard	Start	114,635	144,006	173,379	202,754	232,130	261,507	290,887	320,268	349,651	379,035	408,421	437,809	467,198	496,590				40	164
			Min	60,496	75,805	91,115	106,425	121,736	137,047	152,359	167,671	182,983	198,296	213,609	228,923	244,237	259,551					
			End	114,200	143,460	172,722	201,985	231,249	260,516	289,784	319,053	348,325	377,598	406,872	436,149	465,427	494,706					
G5x20		Inboard	Start	113,583	142,693	171,804	200,917	230,031	259,147	288,265	317,384	346,505	375,628	404,752	433,878	463,006	492,135				40	164
			Min	59,851	74,999	90,147	105,296	120,445	135,595	150,745	165,896	181,047	196,198	211,350	226,503	241,655	256,808					
			End	113,204	142,216	171,229	200,245	229,262	258,280	287,301	316,323	345,346	374,371	403,398	432,427	461,457	490,489					
G5x24		Outboard	Start	167,715	210,456	253,199	295,945	338,691	381,440	424,191	466,943										40	112
			Min	88,231	110,500	132,770	155,040	177,311	199,582	221,854	244,126											
			End	167,079	209,658	252,239	294,822	337,407	379,994	422,582	465,173											
G5x24		Inboard	Start	166,751	209,253	251,757	294,262	336,770	379,279	421,790	464,303										40	112
			Min	87,586	109,694	131,802	153,911	176,020	198,130	220,240	242,351											
			End	166,194	208,553	250,915	293,278	335,644	378,011	420,380	462,751											
G5x28		Outboard	Start	236,246	296,552	356,862	417,175	477,492													40	80
			Min	124,450	155,887	187,324	218,762	250,201														
			End	235,350	295,428	355,509	415,593	475,681														
G5x28		Inboard	Start	235,397	295,492	355,592	415,695	475,801													40	80
			Min	123,805	155,080	186,356	217,633	248,911														
			End	234,610	294,504	354,403	414,304	474,210														
G5x32		Outboard	Start	309,829	388,704	467,584															40	61
			Min	162,953	204,060	245,168																
			End	308,654	387,230	465,811																
G5x32		Inboard	Start	309,101	387,798	466,498															40	61
			Min	162,307	203,253	244,200																
			End	308,068	386,501	464,938																
G5x36		Outboard	Start	393,333	493,259																40	48
			Min	206,618	258,687																	
			End	391,841	491,389																	
G5x36		Inboard	Start	392,745	492,526																40	48
			Min	205,973	257,880																	
			End	391,431	490,879																	

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			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200
			Air Torque Output, lbf-in																		
G7x20	Start	Outboard	139,828	175,753	211,681	247,611	283,543	319,478	355,416	391,355	427,298	463,243	499,190	535,140	571,092	607,047	643,004	678,964	714,926	40	200
			73,955	92,695	111,436	130,178	148,921	167,664	186,408	205,152	223,897	242,643	261,389	280,137	298,884	317,633	336,381	355,131	373,881		
			139,275	175,058	210,843	246,631	282,421	318,214	354,009	389,807	425,607	461,410	497,215	533,022	568,832	604,645	640,460	676,277	712,097		
G7x20	Min	Inboard	138,147	173,653	209,162	244,673	280,187	315,703	351,222	386,743	422,267	457,793	493,321	528,853	564,386	599,922	635,461	671,002	706,546	40	200
			72,951	91,440	109,931	128,422	146,913	165,405	183,898	202,392	220,886	239,381	257,876	276,372	294,869	313,367	331,865	350,363	368,863		
			137,663	173,045	208,429	243,816	279,205	314,597	349,992	385,388	420,788	456,189	491,594	527,000	562,410	597,821	633,236	668,652	704,071		
G7x24	Start	Outboard	205,002	257,351	309,702	362,056	414,413	466,773	519,136	571,501	623,869	676,239	728,613	780,989	833,368	885,749	938,134			40	178
			108,033	135,327	162,622	189,917	217,213	244,510	271,808	299,106	326,405	353,705	381,005	408,306	435,608	462,911	490,214				
			204,191	256,332	308,477	360,624	412,774	464,926	517,081	569,239	621,400	673,563	725,730	777,898	830,070	882,244	934,422				
G7x24	Min	Inboard	203,437	255,396	307,358	359,323	411,291	463,261	515,234	567,210	619,189	671,170	723,154	775,141	827,131	879,123	931,118			40	178
			107,029	134,072	161,116	188,160	215,206	242,252	269,298	296,346	323,394	350,442	377,492	404,542	431,593	458,645	485,697				
			202,724	254,502	306,282	358,065	409,850	461,639	513,430	565,224	617,020	668,820	720,622	772,427	824,234	876,044	927,857				
G7x28	Start	Outboard	289,230	363,160	437,094	511,033	584,977	658,925	732,879	806,837	880,800	954,768								40	126
			152,557	191,118	229,681	268,245	306,810	345,376	383,944	422,513	461,083	499,654									
			288,086	361,723	435,364	509,011	582,662	656,318	729,979	803,644	877,315	950,990									
G7x28	Min	Inboard	287,816	361,394	434,978	508,566	582,159	655,757	729,360	802,967	876,580	950,197								40	126
			151,553	189,864	228,175	266,488	304,802	343,118	381,434	419,752	458,072	496,392									
			286,808	360,129	433,454	506,785	580,120	653,460	726,805	800,155	873,510	946,869									
G7x32	Start	Outboard	379,628	476,371	573,119	669,873	766,632	863,397	960,167											40	96
			199,878	250,325	300,774	351,224	401,676	452,129	502,583												
			378,126	474,486	570,851	667,222	763,599	859,980	956,368												
G7x32	Min	Inboard	378,375	474,808	571,246	667,690	764,139	860,594	957,054											40	96
			198,874	249,071	299,269	349,468	399,668	449,871	500,074												
			377,050	473,145	569,246	665,352	761,463	857,580	953,703												
G7x36	Start	Outboard	482,216	604,819	727,429	850,045														40	76
			253,544	317,464	381,385	445,308															
			480,307	602,426	724,550	846,681															
G7x36	Min	Inboard	481,146	603,486	725,832	848,184														40	76
			252,541	316,209	379,880	443,552															
			479,461	601,372	723,290	845,213															
G7x228	Start	Outboard	576,533	723,909	871,295															40	63
			304,110	380,982	457,856																
			574,251	721,045	867,848																
G7x228	Min	Inboard	577,563	725,203	872,853															40	63
			304,110	380,982	457,856																
			575,541	722,664	869,796																

Torque - Pneumatic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																MinOP psig	MOP psig	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200
			Air Torque Output, lbf-in																		
G8x24	Start	Outboard	242,042	303,871	365,703	427,538	489,377	551,218	613,064	674,912	736,763	798,618	860,476	922,338	984,202	1,046,070	1,107,941	1,169,816	1,231,693	40	200
	Min		127,558	159,790	192,024	224,258	256,493	288,729	320,966	353,203	385,442	417,681	449,921	482,162	514,404	546,647	578,890	611,135	643,380		
	End		241,140	302,738	364,340	425,945	487,553	549,164	610,779	672,396	734,017	795,642	857,269	918,900	980,534	1,042,171	1,103,812	1,165,456	1,227,103		
G8x24	Start	Inboard	239,042	300,123	361,207	422,295	483,386	544,480	605,577	666,678	727,781	788,889	849,999	911,113	972,230	1,033,350	1,094,473	1,155,600	1,216,730	40	200
	Min		125,782	157,570	189,360	221,150	252,941	284,733	316,525	348,319	380,113	411,909	443,705	475,502	507,300	539,098	570,898	602,698	634,499		
	End		238,263	299,145	360,030	420,918	481,810	542,705	603,603	664,504	725,409	786,317	847,228	908,142	969,060	1,029,981	1,090,905	1,151,833	1,212,763		
G8x28	Start	Outboard	341,778	429,168	516,565	603,968	691,376	778,790	866,209	953,635	1,041,066	1,128,503	1,215,946	1,303,395	1,390,849	1,478,309	1,565,775			40	172
	Min		180,283	225,860	271,439	317,020	362,602	408,185	453,770	499,356	544,944	590,533	636,124	681,716	727,310	772,906	818,503				
	End		340,504	427,569	514,640	601,716	688,799	775,887	862,981	950,081	1,037,186	1,124,297	1,211,414	1,298,537	1,385,665	1,472,799	1,559,939				
G8x28	Start	Inboard	338,950	425,637	512,330	599,029	685,734	772,444	859,160	945,883	1,032,610	1,119,344	1,206,083	1,292,828	1,379,579	1,466,336	1,553,099			40	172
	Min		178,507	223,640	268,775	313,911	359,049	404,188	449,329	494,472	539,615	584,761	629,908	675,056	720,206	765,357	810,510				
	End		337,845	424,250	510,660	597,076	683,498	769,926	856,360	942,799	1,029,244	1,115,695	1,202,151	1,288,614	1,375,082	1,461,556	1,548,035				
G8x32	Start	Outboard	448,864	563,279	677,702	792,131	906,566	1,021,009	1,135,457	1,249,912	1,364,374	1,478,842								40	131
	Min		236,332	295,988	355,645	415,304	474,965	534,627	594,291	653,957	713,624	773,294									
	End		447,191	561,180	675,176	789,178	903,187	1,017,203	1,131,225	1,245,254	1,359,289	1,473,330									
G8x32	Start	Inboard	446,221	559,980	673,746	787,518	901,296	1,015,082	1,128,874	1,242,672	1,356,477	1,470,289								40	131
	Min		234,556	293,768	352,981	412,196	471,412	530,631	589,851	649,072	708,296	767,521									
	End		444,766	558,154	671,549	784,950	898,358	1,011,773	1,125,193	1,238,621	1,352,055	1,465,495									
G8x36	Start	Outboard	570,389	715,440	860,498	1,005,563	1,150,636	1,295,716	1,440,803											40	103
	Min		299,896	375,509	451,123	526,740	602,358	677,978	753,601												
	End		568,263	712,773	857,290	1,001,815	1,146,347	1,290,886	1,435,433												
G8x36	Start	Inboard	567,956	712,403	856,857	1,001,319	1,145,788	1,290,264	1,434,747											40	103
	Min		298,120	373,289	448,459	523,632	598,806	673,982	749,160												
	End		566,105	710,081	854,064	998,054	1,142,052	1,286,057	1,430,070												
G8x40	Start	Outboard	706,353	885,649	1,064,952	1,244,264	1,423,583													40	84
	Min		370,976	464,424	557,875	651,327	744,782														
	End		703,721	882,348	1,060,983	1,239,626	1,418,277														
G8x40	Start	Inboard	704,156	882,906	1,061,665	1,240,432	1,419,207													40	84
	Min		369,200	462,204	555,210	648,219	741,230														
	End		701,860	880,028	1,058,204	1,236,388	1,414,580														
G8x232	Start	Outboard	894,314	1,122,293	1,350,285															40	65
	Min		470,888	589,755	708,626																
	End		890,981	1,118,110	1,345,252																
G8x232	Start	Inboard	895,860	1,124,233	1,352,619															40	65
	Min		470,888	589,755	708,626																
	End		892,940	1,120,568	1,348,209																
G8x236	Start	Outboard	1,137,365	1,426,613																40	52
	Min		598,017	748,798																	
	End		1,133,126	1,421,296																	
G8x236	Start	Inboard	1,139,331	1,429,079																40	52
	Min		598,017	748,798																	
	End		1,135,617	1,424,420																	

Torque - Pneumatic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																MinOP psig	MOP psig	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200
			Air Torque Output, lbf-in																		
G10x28	Start	Outboard	446,212	560,386	674,568	788,758	902,955	1,017,160	1,131,372	1,245,593	1,359,820	1,474,056	1,588,300	1,702,551	1,816,809	1,931,076	2,045,350	2,159,632	2,273,922	40	200
	Min		235,559	295,131	354,705	414,281	473,859	533,439	593,021	652,605	712,191	771,779	831,369	890,961	950,555	1,010,151	1,069,749	1,129,349	1,188,951		
	End		444,571	558,325	672,087	785,856	899,633	1,013,418	1,127,211	1,241,011	1,354,819	1,468,634	1,582,457	1,696,288	1,810,127	1,923,973	2,037,827	2,151,688	2,265,558		
G10x28	Start	Inboard	440,685	553,482	666,286	779,098	891,918	1,004,746	1,117,581	1,230,424	1,343,275	1,456,133	1,568,999	1,681,873	1,794,755	1,907,644	2,020,541	2,133,446	2,246,358	40	200
	Min		232,299	291,057	349,816	408,577	467,340	526,105	584,873	643,642	702,413	761,186	819,962	878,739	937,518	996,299	1,055,083	1,113,868	1,172,655		
	End		439,250	551,679	664,116	776,560	889,013	1,001,473	1,113,940	1,226,416	1,338,899	1,451,390	1,563,888	1,676,394	1,788,908	1,901,429	2,013,959	2,126,496	2,239,040		
G10x32	Start	Outboard	586,854	736,521	886,197	1,035,882	1,185,576	1,335,278	1,484,989	1,634,709	1,784,437	1,934,174	2,083,920	2,233,675	2,383,438	2,533,210	2,682,991	2,832,780	2,982,579	40	200
	Min		309,200	387,269	465,340	543,414	621,490	699,568	777,648	855,731	933,816	1,011,903	1,089,992	1,168,084	1,246,178	1,324,274	1,402,373	1,480,474	1,558,577		
	End		584,695	733,812	882,938	1,032,072	1,181,215	1,330,366	1,479,527	1,628,696	1,777,873	1,927,060	2,076,255	2,225,459	2,374,671	2,523,892	2,673,122	2,822,361	2,971,608		
G10x32	Start	Inboard	581,561	729,910	878,268	1,026,634	1,175,010	1,323,394	1,471,787	1,620,188	1,768,598	1,917,017	2,065,445	2,213,882	2,362,327	2,510,781	2,659,243	2,807,715	2,956,195	40	200
	Min		305,941	383,195	460,451	537,710	614,971	692,234	769,500	846,768	924,038	1,001,310	1,078,585	1,155,862	1,233,141	1,310,423	1,387,706	1,464,992	1,542,281		
	End		579,666	727,532	875,407	1,023,290	1,171,182	1,319,083	1,466,992	1,614,910	1,762,837	1,910,772	2,058,717	2,206,670	2,354,631	2,502,602	2,650,581	2,798,568	2,946,565		
G10x36	Start	Outboard	746,458	936,360	1,126,271	1,316,192	1,506,122	1,696,063	1,886,013	2,075,973	2,265,942	2,455,922	2,645,911	2,835,910	3,025,919					40	158
	Min		392,715	491,749	590,786	689,826	788,868	887,912	986,959	1,086,009	1,185,061	1,284,116	1,383,173	1,482,233	1,581,295						
	End		743,713	932,915	1,122,128	1,311,350	1,500,582	1,689,824	1,879,076	2,068,337	2,257,608	2,446,888	2,636,179	2,825,479	3,014,788						
G10x36	Start	Inboard	741,431	930,081	1,118,741	1,307,411	1,496,090	1,684,779	1,873,478	2,062,187	2,250,906	2,439,634	2,628,372	2,817,120	3,005,877					40	158
	Min		389,456	487,675	585,897	684,122	782,349	880,579	978,811	1,077,046	1,175,284	1,273,523	1,371,766	1,470,011	1,568,258						
	End		739,016	927,051	1,115,097	1,303,152	1,491,217	1,679,291	1,867,375	2,055,469	2,243,573	2,431,686	2,619,810	2,807,942	2,996,085						
G10x40	Start	Outboard	925,026	1,159,903	1,394,790	1,629,688	1,864,597	2,099,516	2,334,446	2,569,387	2,804,339	3,039,302								40	128
	Min		486,104	608,572	731,043	853,517	975,994	1,098,473	1,220,956	1,343,441	1,465,929	1,588,419									
	End		921,624	1,155,636	1,389,659	1,623,693	1,857,738	2,091,793	2,325,860	2,559,936	2,794,024	3,028,122									
G10x40	Start	Inboard	920,297	1,153,997	1,387,707	1,621,429	1,855,161	2,088,905	2,322,659	2,556,423	2,790,199	3,023,985								40	128
	Min		482,845	604,498	726,154	847,813	969,475	1,091,140	1,212,808	1,334,478	1,456,151	1,577,827									
	End		917,299	1,150,237	1,383,187	1,616,147	1,849,118	2,082,100	2,315,092	2,548,095	2,781,109	3,014,134									
G10x232	Start	Outboard	1,167,448	1,465,218	1,763,005	2,060,810	2,358,632	2,656,472	2,954,329											40	100
	Min		615,141	770,464	925,792	1,081,124	1,236,461	1,391,802	1,547,148												
	End		1,163,154	1,459,828	1,756,520	2,053,230	2,349,956	2,646,700	2,943,462												
G10x232	Start	Inboard	1,169,392	1,467,658	1,765,941	2,064,241	2,362,560	2,660,895	2,959,248											40	100
	Min		615,141	770,464	925,792	1,081,124	1,236,461	1,391,802	1,547,148												
	End		1,165,582	1,462,877	1,760,188	2,057,517	2,354,863	2,652,227	2,949,608												
G10x236	Start	Outboard	1,486,657	1,864,895	2,243,152	2,621,429	2,999,725													40	80
	Min		782,171	979,425	1,176,684	1,373,948	1,571,217														
	End		1,481,188	1,858,035	2,234,901	2,611,787	2,988,692														
G10x236	Start	Inboard	1,489,132	1,868,000	2,246,887	2,625,794	3,004,721													40	80
	Min		782,171	979,425	1,176,684	1,373,948	1,571,217														
	End		1,484,281	1,861,915	2,239,568	2,617,240	2,994,932														
G10x240	Start	Outboard	1,843,793	2,311,981	2,780,190															40	64
	Min		968,948	1,213,070	1,457,197																
	End		1,837,011	2,303,477	2,769,964																
G10x240	Start	Inboard	1,846,863	2,315,831	2,784,820															40	64
	Min		968,948	1,213,070	1,457,197																
	End		1,840,847	2,308,287	2,775,748																

Torque - Pneumatic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																	MinOP psig	MOP psig
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
			Air Torque Output, lbf-in																		
G13x40	Start	Outboard	1,185,520	1,486,646	1,787,787	2,088,941	2,390,109	2,691,291	2,992,487	3,293,698	3,594,922	3,896,161	4,197,413	4,498,679	4,799,960	5,101,255	5,402,563	5,703,886	6,005,223	40	200
	Min		623,242	780,288	937,338	1,094,392	1,251,449	1,408,510	1,565,575	1,722,643	1,879,715	2,036,790	2,193,870	2,350,952	2,508,039	2,665,129	2,822,223	2,979,320	3,136,422		
	End		1,181,106	1,481,111	1,781,129	2,081,162	2,381,209	2,681,270	2,981,344	3,281,433	3,581,536	3,881,653	4,181,783	4,481,928	4,782,087	5,082,259	5,382,446	5,682,647	5,982,861		
G13x40	Start	Inboard	1,174,957	1,473,449	1,771,955	2,070,475	2,369,009	2,667,557	2,966,119	3,264,695	3,563,285	3,861,890	4,160,508	4,459,141	4,757,787	5,056,448	5,355,122	5,653,811	5,952,514	40	200
	Min		616,891	772,350	927,812	1,083,278	1,238,748	1,394,221	1,549,698	1,705,178	1,860,662	2,016,150	2,171,642	2,327,137	2,482,636	2,638,138	2,793,644	2,949,154	3,104,668		
	End		1,170,974	1,468,454	1,765,947	2,063,455	2,360,977	2,658,513	2,956,063	3,253,627	3,551,205	3,848,797	4,146,403	4,444,023	4,741,657	5,039,305	5,336,967	5,634,643	5,932,334		
G13x44	Start	Outboard	1,439,450	1,804,512	2,169,589	2,534,682	2,899,790	3,264,914	3,630,053	3,995,207	4,360,377	4,725,563	5,090,764	5,455,980	5,821,212	6,186,460				40	165
	Min		756,047	946,413	1,136,783	1,327,157	1,517,534	1,707,916	1,898,302	2,088,692	2,279,086	2,469,484	2,659,886	2,850,292	3,040,702	3,231,116					
	End		1,434,090	1,797,792	2,161,510	2,525,243	2,888,992	3,252,756	3,616,536	3,980,331	4,344,141	4,707,967	5,071,808	5,435,664	5,799,536	6,163,424					
G13x44	Start	Inboard	1,429,239	1,791,755	2,154,287	2,516,834	2,879,396	3,241,975	3,604,568	3,967,177	4,329,802	4,692,442	5,055,098	5,417,769	5,780,456	6,143,158				40	165
	Min		749,696	938,474	1,127,256	1,316,042	1,504,832	1,693,626	1,882,424	2,071,226	2,260,032	2,448,842	2,637,656	2,826,474	3,015,297	3,204,123					
	End		1,424,393	1,785,681	2,146,983	2,508,301	2,869,635	3,230,984	3,592,348	3,953,728	4,315,123	4,676,534	5,037,960	5,399,402	5,760,859	6,122,331					
G13x48	Start	Outboard	1,717,887	2,152,988	2,588,107	3,023,242	3,458,394	3,893,562	4,328,748	4,763,950	5,199,169	5,634,405	6,069,658							40	140
	Min		901,585	1,128,447	1,355,314	1,582,185	1,809,060	2,035,940	2,262,824	2,489,712	2,716,605	2,943,503	3,170,404								
	End		1,711,490	2,144,971	2,578,470	3,011,984	3,445,516	3,879,064	4,312,629	4,746,211	5,179,810	5,613,425	6,047,057								
G13x48	Start	Inboard	1,708,064	2,140,717	2,573,388	3,006,075	3,438,779	3,871,500	4,304,237	4,736,992	5,169,763	5,602,551	6,035,356							40	140
	Min		895,234	1,120,509	1,345,788	1,571,071	1,796,359	2,021,651	2,246,947	2,472,248	2,697,553	2,922,863	3,148,176								
	End		1,702,273	2,133,460	2,564,663	2,995,884	3,427,121	3,858,375	4,289,645	4,720,933	5,152,237	5,583,558	6,014,895								
G13x52	Start	Outboard	2,020,714	2,531,953	3,043,210	3,554,485	4,065,779	4,577,090	5,088,420	5,599,767	6,111,133									40	120
	Min		1,059,825	1,326,359	1,592,898	1,859,442	2,125,990	2,392,543	2,659,101	2,925,664	3,192,231										
	End		2,013,190	2,522,525	3,031,878	3,541,250	4,050,639	4,560,047	5,069,472	5,578,916	6,088,377										
G13x52	Start	Inboard	2,011,312	2,520,209	3,029,124	3,538,057	4,047,008	4,555,978	5,064,965	5,573,971	6,082,995									40	120
	Min		1,053,474	1,318,421	1,583,372	1,848,328	2,113,289	2,378,254	2,643,224	2,908,199	3,173,179										
	End		2,004,494	2,511,665	3,018,855	3,526,062	4,033,288	4,540,532	5,047,794	5,555,074	6,062,372										

Torque - Pneumatic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																MinOP psig	MOP psig		
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200	
			Air Torque Output, lbf-in																			
G13x240	Start	Outboard	2,358,846	2,958,049	3,557,281	4,156,541	4,755,828	5,355,144	5,954,488												40	100
	Min		1,240,133	1,552,638	1,865,150	2,177,670	2,490,197	2,802,731	3,115,272													
	End		2,350,062	2,947,035	3,544,035	4,141,063	4,738,119	5,335,203	5,932,316													
G13x240	Start	Inboard	2,362,126	2,962,162	3,562,227	4,162,320	4,762,441	5,362,590	5,962,767												40	100
	Min		1,240,133	1,552,638	1,865,150	2,177,670	2,490,197	2,802,731	3,115,272													
	End		2,354,118	2,952,120	3,550,150	4,148,209	4,746,295	5,344,410	5,942,552													
G13x244	Start	Outboard	2,866,704	3,593,779	4,320,884	5,048,021	5,775,188														40	83
	Min		1,505,744	1,884,887	2,264,039	2,643,199	3,022,366															
	End		2,856,030	3,580,397	4,304,795	5,029,224	5,753,683															
G13x244	Start	Inboard	2,870,690	3,598,776	4,326,892	5,055,040	5,783,218														40	83
	Min		1,505,744	1,884,887	2,264,039	2,643,199	3,022,366															
	End		2,860,958	3,586,575	4,312,223	5,037,902	5,763,612															
G13x248	Start	Outboard	3,423,579	4,290,733	5,157,921	6,025,143															40	70
	Min		1,796,820	2,248,956	2,701,102	3,153,256																
	End		3,410,831	4,274,756	5,138,715	6,002,707																
G13x248	Start	Inboard	3,428,339	4,296,699	5,165,093	6,033,520															40	70
	Min		1,796,820	2,248,956	2,701,102	3,153,256																
	End		3,416,717	4,282,133	5,147,582	6,013,065																
G13x252	Start	Outboard	4,029,234	5,048,663	6,068,128																40	60
	Min		2,113,299	2,644,780	3,176,270																	
	End		4,014,230	5,029,864	6,045,533																	
G13x252	Start	Inboard	4,034,836	5,055,683	6,076,566																40	60
	Min		2,113,299	2,644,780	3,176,270																	
	End		4,021,157	5,038,543	6,055,965																	