

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																				MinOP psig	MOP psig
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000		
			Air Torque Output, lbf-in																					
G01x01.5	Start	Outboard	2,075	2,817	4,657	6,476	8,277	10,061	11,831	13,587	15,332	17,067	18,795	20,516	22,233	23,948	25,662	27,377	29,095	30,817	32,546	34,283	400	5,000
	Min		1,245	1,634	2,601	3,561	4,515	5,463	6,406	7,344	8,278	9,209	10,137	11,063	11,987	12,911	13,834	14,758	15,683	16,609	17,538	18,469		
	End		2,070	2,811	4,646	6,461	8,257	10,037	11,803	13,555	15,296	17,027	18,750	20,468	22,181	23,891	25,601	27,312	29,026	30,744	32,469	34,202		
G01x01.5	Start	Inboard	1,054	1,541	2,742	3,923	5,086	6,232	7,363	8,482	9,588	10,685	11,775	12,858	13,937	15,014	16,090	17,166	18,246	19,330	20,421	21,520	400	5,000
	Min		712	967	1,601	2,228	2,848	3,462	4,072	4,676	5,277	5,875	6,469	7,062	7,653	8,243	8,833	9,424	10,015	10,608	11,203	11,801		
	End		1,051	1,536	2,734	3,912	5,072	6,215	7,343	8,458	9,561	10,655	11,742	12,822	13,898	14,972	16,044	17,118	18,195	19,276	20,363	21,459		
G01x01.7	Start	Outboard	3,021	4,035	6,555	9,057	11,541	14,010	16,465	18,907	21,340	23,763	26,179	28,589	30,996	33,400	35,804	38,208					400	3,939
	Min		1,763	2,294	3,616	4,932	6,241	7,545	8,844	10,140	11,431	12,719	14,005	15,289	16,571	17,853	19,134	20,416						
	End		3,014	4,026	6,540	9,035	11,514	13,976	16,426	18,863	21,289	23,707	26,117	28,522	30,923	33,321	35,719	38,118						
G01x01.7	Start	Inboard	1,688	2,368	4,055	5,722	7,373	9,009	10,630	12,239	13,838	15,428	17,011	18,588	20,161	21,731	23,301	24,873					400	3,939
	Min		1,067	1,423	2,310	3,190	4,064	4,932	5,796	6,656	7,512	8,364	9,215	10,063	10,910	11,756	12,602	13,448						
	End		1,683	2,361	4,043	5,706	7,353	8,983	10,600	12,205	13,799	15,385	16,963	18,535	20,104	21,670	23,236	24,803						
G01x02.0	Start	Outboard	4,162	5,486	8,775	12,038	15,276	18,494	21,691	24,872	28,038	31,192	34,335	37,471									400	3,015
	Min		2,378	3,072	4,798	6,514	8,223	9,924	11,618	13,306	14,989	16,668	18,343	20,016										
	End		4,152	5,473	8,754	12,009	15,240	18,450	21,640	24,813	27,972	31,118	34,254	37,382										
G01x02.0	Start	Inboard	2,827	3,817	6,272	8,700	11,105	13,488	15,851	18,198	20,529	22,849	25,158	27,459									400	3,015
	Min		1,681	2,200	3,489	4,770	6,043	7,308	8,566	9,818	11,065	12,308	13,547	14,783										
	End		2,819	3,806	6,254	8,676	11,074	13,450	15,807	18,147	20,472	22,784	25,087	27,382										
G01x02.2	Start	Outboard	5,486	7,163	11,334	15,475	19,591	23,683	27,754	31,806	35,842	39,865											400	2,383
	Min		3,086	3,964	6,151	8,328	10,496	12,656	14,808	16,954	19,094	21,229												
	End		5,473	7,146	11,307	15,439	19,545	23,627	27,688	31,731	35,757	39,770												
G01x02.2	Start	Inboard	4,153	5,497	8,835	12,144	15,426	18,685	21,923	25,142	28,346	31,535											400	2,383
	Min		2,389	3,093	4,845	6,586	8,319	10,043	11,760	13,470	15,175	16,875												
	End		4,142	5,481	8,810	12,109	15,383	18,633	21,862	25,072	28,266	31,446												
G01x02.5	Start	Outboard	6,974	9,046	14,203	19,329	24,426	29,497	34,546	39,574													400	1,930
	Min		3,880	4,964	7,667	10,359	13,042	15,715	18,380	21,038														
	End		6,957	9,024	14,169	19,283	24,368	29,428	34,464	39,480														
G01x02.5	Start	Inboard	5,639	7,378	11,702	15,994	20,257	24,495	28,710	32,904													400	1,930
	Min		3,182	4,092	6,359	8,615	10,861	13,099	15,328	17,550														
	End		5,624	7,357	11,669	15,949	20,200	24,426	28,629	32,812														
G01x03.0	Start	Outboard	10,448	13,436	20,879	28,284	35,657																400	1,340
	Min		5,729	7,292	11,189	15,075	18,948																	
	End		10,424	13,404	20,829	28,218	35,573																	
G01x03.0	Start	Inboard	9,115	11,770	18,379	24,953	31,492																400	1,340
	Min		5,031	6,420	9,881	13,331	16,768																	
	End		9,090	11,737	18,328	24,882	31,404																	
G01x03.5	Start	Outboard	14,589	18,659	28,804	38,906																	400	985
	Min		7,925	10,054	15,364	20,660																		
	End		14,555	18,615	28,735	38,814																		
G01x03.5	Start	Inboard	13,259	16,997	26,310	35,582																	400	985
	Min		7,228	9,183	14,057	18,918																		
	End		13,222	16,949	26,236	35,482																		

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig		
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000
			Air Torque Output, lbf-in																					
G2x01.7	Start	Outboard	3,657	4,884	7,935	10,963	13,970	16,958	19,930	22,886	25,830	28,764	31,688	34,606	37,519	40,429	43,339	46,249	49,163	52,082	55,008	57,943	400	4,820
			2,134	2,777	4,377	5,969	7,554	9,133	10,705	12,273	13,836	15,395	16,951	18,505	20,058	21,609	23,160	24,711	26,264	27,818	29,375	30,935		
			3,650	4,874	7,918	10,939	13,940	16,922	19,887	22,838	25,776	28,703	31,621	34,533	37,439	40,343	43,246	46,151	49,058	51,971	54,891	57,819		
G2x01.7	Start	Inboard	2,043	2,866	4,908	6,927	8,925	10,904	12,867	14,815	16,750	18,674	20,590	22,499	24,403	26,304	28,204	30,106	32,011	33,920	35,837	37,764	400	4,820
			1,291	1,723	2,796	3,861	4,919	5,970	7,016	8,056	9,092	10,124	11,153	12,180	13,205	14,230	15,253	16,278	17,303	18,330	19,360	20,393		
			2,038	2,859	4,895	6,909	8,902	10,877	12,834	14,777	16,708	18,627	20,538	22,442	24,341	26,238	28,133	30,030	31,930	33,835	35,747	37,669		
G2x02.0	Start	Outboard	5,038	6,640	10,621	14,571	18,491	22,386	26,256	30,107	33,939	37,756	41,561	45,356	49,145	52,930	56,713						400	3,691
			2,879	3,718	5,807	7,885	9,953	12,012	14,062	16,106	18,143	20,175	22,202	24,227	26,249	28,269	30,290							
			5,027	6,626	10,599	14,540	18,452	22,338	26,201	30,042	33,867	37,676	41,473	45,260	49,041	52,817	56,593							
G2x02.0	Start	Inboard	3,422	4,620	7,591	10,531	13,441	16,326	19,186	22,027	24,849	27,656	30,451	33,237	36,015	38,790	41,564						400	3,691
			2,034	2,662	4,224	5,774	7,314	8,845	10,368	11,883	13,393	14,897	16,397	17,894	19,388	20,881	22,373							
			3,413	4,608	7,572	10,504	13,408	16,285	19,138	21,971	24,787	27,587	30,375	33,153	35,925	38,693	41,459							
G2x02.2	Start	Outboard	6,641	8,671	13,719	18,732	23,714	28,667	33,595	38,500	43,385	48,254	53,110	57,955									400	2,916
			3,735	4,798	7,445	10,080	12,704	15,318	17,923	20,520	23,111	25,696	28,276	30,852										
			6,627	8,652	13,690	18,692	23,664	28,606	33,523	38,418	43,293	48,151	52,997	57,831										
G2x02.2	Start	Inboard	5,027	6,653	10,693	14,699	18,672	22,617	26,536	30,433	34,310	38,170	42,017	45,854									400	2,916
			2,892	3,744	5,864	7,972	10,069	12,156	14,234	16,304	18,367	20,425	22,478	24,527										
			5,014	6,637	10,667	14,662	18,625	22,560	26,469	30,356	34,223	38,074	41,912	45,739										
G2x02.5	Start	Outboard	8,441	10,950	17,192	23,396	29,566	35,705	41,816	47,902	53,967												400	2,362
			4,696	6,009	9,280	12,539	15,785	19,021	22,247	25,464	28,674													
			8,423	10,926	17,155	23,347	29,503	35,629	41,727	47,800	53,853													
G2x02.5	Start	Inboard	6,826	8,931	14,164	19,359	24,520	29,649	34,751	39,828	44,883												400	2,362
			3,852	4,953	7,697	10,428	13,146	15,854	18,552	21,242	23,924													
			6,809	8,908	14,128	19,310	24,458	29,575	34,663	39,728	44,771													
G2x03.0	Start	Outboard	12,647	16,264	25,272	34,237	43,161	52,050															400	1,640
			6,934	8,826	13,544	18,246	22,935	27,611																
			12,620	16,229	25,219	34,164	43,070	51,939																
G2x03.0	Start	Inboard	11,033	14,246	22,247	30,203	38,119	45,998															400	1,640
			6,089	7,770	11,960	16,135	20,296	24,444																
			11,006	14,211	22,191	30,127	38,023	45,883																
G2x03.5	Start	Outboard	17,660	22,586	34,865	47,094	59,277																400	1,205
			9,592	12,169	18,596	25,006	31,400																	
			17,622	22,538	34,791	46,994	59,151																	
G2x03.5	Start	Inboard	16,049	20,573	31,846	43,069	54,245																400	1,205
			8,749	11,115	17,015	22,898	28,765																	
			16,009	20,522	31,766	42,961	54,109																	
G2x04.0	Start	Outboard	23,481	29,920	45,974																		400	923
			12,673	16,040	24,441																			
			23,431	29,856	45,877																			
G2x04.0	Start	Inboard	21,872	27,909	42,959																		400	923
			11,830	14,985	22,859																			
			21,817	27,839	42,851																			

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig		
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000
			Air Torque Output, lbf-in																					
G3x02.0	Start	Outboard	5,985	7,932	12,769	17,565	22,324	27,048	31,743	36,410	41,055	45,679	50,288	54,885	59,473	64,056	68,637	73,220	77,810	82,408	87,020	91,648	400	5,000
			3,451	4,471	7,010	9,535	12,046	14,546	17,035	19,515	21,987	24,452	26,911	29,366	31,818	34,269	36,719	39,169	41,622	44,078	46,538	49,004		
			5,974	7,918	12,747	17,534	22,285	27,001	31,687	36,346	40,982	45,599	50,200	54,788	59,368	63,943	68,516	73,092	77,673	82,263	86,867	91,487		
G3x02.0	Start	Inboard	2,912	4,092	7,009	9,886	12,725	15,529	18,304	21,052	23,776	26,481	29,170	31,847	34,515	37,178	39,840	42,504	45,173	47,852	50,543	53,252	400	5,000
			1,847	2,466	4,002	5,524	7,032	8,529	10,016	11,493	12,962	14,424	15,881	17,333	18,783	20,230	21,677	23,125	24,575	26,028	27,485	28,949		
			2,906	4,083	6,994	9,864	12,697	15,496	18,264	21,006	23,725	26,424	29,107	31,778	34,441	37,098	39,754	42,411	45,075	47,748	50,434	53,136		
G3x02.2	Start	Outboard	7,934	10,401	16,536	22,626	28,676	34,688	40,668	46,618	52,543	58,447	64,334	70,207	76,071	81,929	87,786	93,645	99,510				400	4,192
			4,493	5,785	9,002	12,204	15,392	18,567	21,731	24,884	28,029	31,166	34,297	37,423	40,547	43,668	46,789	49,910	53,034					
			7,920	10,383	16,507	22,587	28,625	34,627	40,596	46,536	52,451	58,344	64,221	70,084	75,937	81,785	87,631	93,480	99,335					
G3x02.2	Start	Inboard	4,865	6,565	10,782	14,955	19,086	23,181	27,243	31,275	35,283	39,269	43,237	47,193	51,139	55,079	59,018	62,959	66,906				400	4,192
			2,890	3,781	5,997	8,197	10,382	12,556	14,717	16,868	19,011	21,146	23,276	25,400	27,521	29,641	31,760	33,879	36,001					
			4,854	6,551	10,759	14,922	19,045	23,131	27,184	31,207	35,206	39,184	43,144	47,091	51,028	54,960	58,890	62,823	66,762					
G3x02.5	Start	Outboard	10,123	13,173	20,760	28,299	35,793	43,248	50,666	58,053	65,413	72,750	80,068	87,372	94,665	101,952							400	3,395
			5,662	7,257	11,234	15,195	19,139	23,070	26,989	30,896	34,794	38,684	42,567	46,445	50,320	54,193								
			10,106	13,150	20,724	28,249	35,730	43,172	50,577	57,951	65,298	72,622	79,927	87,218	94,499	101,773								
G3x02.5	Start	Inboard	7,055	9,338	15,008	20,629	26,206	31,743	37,244	42,714	48,157	53,576	58,977	64,363	69,739	75,109							400	3,395
			4,058	5,254	8,229	11,187	14,130	17,058	19,975	22,880	25,776	28,664	31,546	34,422	37,295	40,165								
			7,040	9,317	14,975	20,584	26,149	31,674	37,164	42,622	48,052	53,460	58,849	64,223	69,588	74,946								
G3x03.0	Start	Outboard	15,239	19,636	30,588	41,483	52,327	63,126	73,882	84,603	95,292												400	2,358
			8,383	10,683	16,419	22,135	27,834	33,517	39,185	44,840	50,485													
			15,212	19,602	30,534	41,410	52,236	63,015	73,753	84,454	95,124													
G3x03.0	Start	Inboard	12,170	15,800	24,834	33,811	42,738	51,618	60,457	69,259	78,030												400	2,358
			6,778	8,677	13,411	18,124	22,820	27,500	32,165	36,818	41,460													
			12,143	15,766	24,780	33,738	42,645	51,506	60,326	69,109	77,862													
G3x03.5	Start	Outboard	21,335	27,326	42,254	57,120	71,927	86,682	101,390														400	1,732
			11,616	14,749	22,564	30,356	38,129	45,884	53,622															
			21,297	27,278	42,180	57,019	71,801	86,530	101,212															
G3x03.5	Start	Inboard	18,270	23,495	36,509	49,459	62,351	75,191	87,984														400	1,732
			10,013	12,745	19,558	26,349	33,119	39,872	46,608															
			18,231	23,444	36,430	49,352	62,216	75,028	87,794															
G3x04.0	Start	Outboard	28,415	36,244	55,765	75,215	94,600																400	1,326
			15,363	19,456	29,671	39,861	50,029																	
			28,365	36,181	55,667	75,083	94,434																	
G3x04.0	Start	Inboard	25,352	32,416	50,024	67,560	85,032																400	1,326
			13,760	17,452	26,665	35,854	45,019																	
			25,297	32,346	49,915	67,414	84,847																	
G3x04.5	Start	Outboard	36,478	46,392	71,120	95,769																	400	1,048
			19,623	24,805	37,741	50,650																		
			36,414	46,311	70,995	95,601																		
G3x04.5	Start	Inboard	33,418	42,568	65,383	88,121																	400	1,048
			18,020	22,802	34,735	46,642																		
			33,345	42,475	65,242	87,930																		

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig		
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000
			Air Torque Output, lbf-in																					
G4x02.5	Start	Outboard	12,116	15,817	25,016	34,142	43,201	52,200	61,146	70,043	78,900	87,722	96,516	105,288	114,044	122,792	131,537	140,285	149,044	157,820	166,618	175,446	400	5,000
			6,816	8,754	13,580	18,381	23,158	27,915	32,653	37,374	42,081	46,776	51,461	56,139	60,811	65,480	70,148	74,818	79,490	84,169	88,856	93,553		
			12,090	15,783	24,962	34,068	43,108	52,087	61,013	69,892	78,729	87,532	96,307	105,060	113,798	122,526	131,252	139,982	148,722	157,478	166,257	175,066		
G4x02.5	Start	Inboard	6,741	9,099	14,939	20,706	26,407	32,047	37,633	43,172	48,670	54,133	59,568	64,982	70,379	75,768	81,154	86,544	91,944	97,360	102,800	108,268	400	5,000
			4,009	5,246	8,317	11,364	14,387	17,389	20,373	23,340	26,293	29,233	32,164	35,088	38,006	40,920	43,834	46,749	49,668	52,592	55,525	58,467		
			6,724	9,076	14,902	20,655	26,341	31,967	37,540	43,065	48,549	53,999	59,420	64,820	70,204	75,580	80,952	86,329	91,715	97,118	102,544	107,999		
G4x03.0	Start	Outboard	18,335	23,676	36,965	50,173	63,305	76,370	89,374	102,324	115,229	128,094	140,928	153,737	166,529	179,311	192,090	204,872					400	3,884
			10,124	12,919	19,883	26,819	33,729	40,616	47,481	54,328	61,158	67,975	74,781	81,579	88,370	95,158	101,945	108,733						
			18,296	23,624	36,885	50,064	63,168	76,204	89,180	102,103	114,980	127,817	140,623	153,405	166,169	178,923	191,674	204,429						
G4x03.0	Start	Inboard	12,959	16,956	26,886	36,734	46,506	56,211	65,856	75,447	84,992	94,497	103,971	113,421	122,853	132,275	141,694	151,117					400	3,884
			7,316	9,408	14,618	19,798	24,953	30,084	35,194	40,286	45,361	50,423	55,474	60,516	65,552	70,585	75,616	80,649						
			12,927	16,914	26,819	36,642	46,391	56,072	65,692	75,259	84,780	94,262	103,713	113,139	122,548	131,946	141,342	150,741						
G4x03.5	Start	Outboard	25,748	33,025	51,151	69,185	87,136	105,012	122,820	140,569	158,267	175,921	193,541										400	2,853
			14,055	17,862	27,354	36,815	46,246	55,652	65,033	74,395	83,738	93,066	102,383											
			25,692	32,954	51,040	69,035	86,947	104,784	122,554	140,265	157,924	175,541	193,122											
G4x03.5	Start	Inboard	20,376	26,311	41,081	55,758	70,353	84,872	99,324	113,717	128,058	142,356	156,618										400	2,853
			11,249	14,353	22,091	29,798	37,475	45,126	52,754	60,361	67,950	75,524	83,086											
			20,326	26,246	40,979	55,620	70,178	84,661	99,077	113,434	127,740	142,002	156,229											
G4x04.0	Start	Outboard	34,356	43,869	67,578	91,187	114,704	138,138	161,498	184,793	208,031												400	2,184
			18,611	23,585	35,995	48,371	60,714	73,028	85,317	97,583	109,829													
			34,281	43,774	67,432	90,990	114,456	137,839	161,149	184,393	207,581													
G4x04.0	Start	Inboard	28,987	37,158	57,513	77,766	97,928	118,007	138,012	157,952	177,835												400	2,184
			15,804	20,077	30,733	41,353	51,943	62,503	73,037	83,549	94,041													
			28,915	37,066	57,370	77,573	97,685	117,714	137,669	157,559	177,393													
G4x04.5	Start	Outboard	44,115	56,153	86,146	116,005	145,742	175,368	204,894														400	1,726
			23,775	30,070	45,772	61,427	77,040	92,614	108,153															
			44,020	56,031	85,960	115,754	145,427	174,988	204,451															
G4x04.5	Start	Inboard	38,749	49,445	76,085	102,591	128,974	155,247	181,420														400	1,726
			20,968	26,561	40,509	54,410	68,268	82,088	95,873															
			38,653	49,322	75,896	102,336	128,654	154,861	180,969															
G4x05.0	Start	Outboard	55,109	69,980	107,045	143,965	180,751																400	1,398
			29,577	37,351	56,750	76,097	95,398																	
			54,990	69,828	106,814	143,653	180,360																	
G4x05.0	Start	Inboard	49,746	63,276	96,990	130,558	163,992																400	1,398
			26,770	33,843	51,487	69,080	86,626																	
			49,622	63,118	96,749	130,233	163,585																	
G4x06.0	Start	Outboard	80,679	102,110	155,559	208,837																	400	971
			43,050	54,252	82,211	110,111																		
			80,504	101,889	155,222	208,385																		
G4x06.0	Start	Inboard	75,322	95,414	145,516	195,447																	400	971
			40,243	50,743	76,948	103,093																		
			75,135	95,177	145,154	194,961																		

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig		
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000
			Air Torque Output, lbf-in																					
G4x202.5	Start	Outboard	18,855	24,914	39,951	54,843	69,601	84,239	98,769	113,204	127,557	141,841	156,069	170,252	184,405	198,540								
	Min		10,825	14,000	21,898	29,745	37,546	45,304	53,026	60,714	68,374	76,010	83,626	91,226	98,817	106,400								
	End		18,814	24,860	39,865	54,724	69,451	84,057	98,555	112,959	127,282	141,535	155,731	169,884	184,006	198,110								
G4x202.5	Start	Inboard	18,860	24,920	39,962	54,857	69,620	84,261	98,795	113,234	127,591	141,879	156,110	170,297	184,454	198,592								
	Min		10,825	14,000	21,898	29,745	37,546	45,304	53,026	60,714	68,374	76,010	83,626	91,226	98,817	106,400								
	End		18,813	24,858	39,863	54,721	69,446	84,052	98,549	112,953	127,274	141,526	155,722	169,874	183,995	198,098								
G4x203.0	Start	Outboard	31,291	40,627	63,844	86,896	109,799	132,566	155,212	177,751	200,198													
	Min		17,440	22,327	34,501	46,618	58,683	70,700	82,675	94,613	106,519													
	End		31,223	40,539	63,706	86,708	109,562	132,279	154,876	177,367	199,765													
G4x203.0	Start	Inboard	31,299	40,638	63,861	86,919	109,828	132,601	155,253	177,798	200,251													
	Min		17,440	22,327	34,501	46,618	58,683	70,700	82,675	94,613	106,519													
	End		31,221	40,537	63,702	86,703	109,555	132,271	154,867	177,356	199,753													
G4x203.5	Start	Outboard	46,119	59,330	92,221	124,929	157,471	189,862																
	Min		25,304	32,215	49,445	66,612	83,721	100,777																
	End		46,019	59,201	92,021	124,659	157,130	189,451																
G4x203.5	Start	Inboard	46,131	59,345	92,245	124,962	157,512	189,911																
	Min		25,304	32,215	49,445	66,612	83,721	100,777																
	End		46,016	59,198	92,015	124,651	157,120	189,439																
G4x204.0	Start	Outboard	63,335	81,018	125,076	168,933																		
	Min		34,415	43,662	66,728	89,724																		
	End		63,198	80,843	124,805	168,567																		
G4x204.0	Start	Inboard	63,351	81,039	125,109	168,977																		
	Min		34,415	43,662	66,728	89,724																		
	End		63,194	80,838	124,798	168,557																		
G4x204.5	Start	Outboard	82,854	105,585	162,212																			
	Min		44,743	56,631	86,281																			
	End		82,675	105,357	161,861																			
G4x204.5	Start	Inboard	82,876	105,613	162,254																			
	Min		44,743	56,631	86,281																			
	End		82,670	105,350	161,851																			
G4x205.0	Start	Outboard	104,842	133,239	204,010																			
	Min		56,347	71,194	108,236																			
	End		104,615	132,950	203,569																			
G4x205.0	Start	Inboard	104,870	133,273	204,064																			
	Min		56,347	71,194	108,236																			
	End		104,609	132,942	203,556																			
G4x206.0	Start	Outboard	155,981	197,499																				
	Min		83,294	104,995																				
	End		155,644	197,072																				
G4x206.0	Start	Inboard	156,022	197,551																				
	Min		83,294	104,995																				
	End		155,634	197,060																				

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig		
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000
			Air Torque Output, lbf-in																					
G5x03.5	Start	Outboard	32,748	42,130	65,456	88,609	111,604	134,456	157,180	179,792	202,307	224,739	247,104	269,418	291,695	313,950	336,199	358,458	380,740	403,061	425,437	447,883	400	5,000
			17,989	22,903	35,142	47,320	59,444	71,517	83,547	95,537	107,493	119,420	131,325	143,211	155,084	166,950	178,814	190,681	202,556	214,445	226,353	238,285		
			32,696	42,063	65,352	88,468	111,427	134,242	156,930	179,506	201,985	224,381	246,711	268,989	291,231	313,451	335,665	357,887	380,134	402,420	424,761	447,170		
G5x03.5	Start	Inboard	20,401	26,697	42,308	57,745	73,024	88,160	103,169	118,065	132,863	147,580	162,229	176,827	191,388	205,927	220,461	235,003	249,569	264,175	278,835	293,564	400	5,000
			11,538	14,838	23,045	31,191	39,282	47,323	55,320	63,277	71,201	79,096	86,968	94,822	102,663	110,497	118,328	126,163	134,005	141,862	149,738	157,637		
			20,360	26,643	42,222	57,627	72,875	87,981	102,959	117,824	132,593	147,279	161,899	176,467	190,998	205,508	220,011	234,524	249,060	263,636	278,266	292,966		
G5x04.0	Start	Outboard	43,868	56,139	86,674	117,021	147,196	177,214	207,094	236,850	266,501	296,062	325,549	354,981	384,372	413,740	443,101	472,472					400	3,858
			23,878	30,301	46,310	62,254	78,137	93,966	109,747	125,485	141,186	156,856	172,500	188,125	203,736	219,338	234,939	250,542						
			43,798	56,049	86,537	116,835	146,962	176,933	206,764	236,474	266,077	295,591	325,032	354,416	383,761	413,082	442,396	471,720						
G5x04.0	Start	Inboard	31,525	40,711	63,533	86,167	108,628	130,934	153,100	175,143	197,080	218,927	240,701	262,419	284,097	305,751	327,399	349,056					400	3,858
			17,426	22,236	34,213	46,124	57,975	69,772	81,520	93,226	104,895	116,532	128,144	139,736	151,315	162,885	174,453	186,024						
			31,461	40,628	63,404	85,991	108,407	130,667	152,788	174,786	196,678	218,481	240,211	261,884	283,518	305,128	326,732	348,345						
G5x04.5	Start	Outboard	56,533	72,079	110,791	149,298	187,618	225,769	263,770	301,637	339,390	377,045	414,621	452,136									400	3,049
			30,573	38,708	58,992	79,205	99,353	119,443	139,479	159,470	179,420	199,337	219,226	239,094										
			56,443	71,964	110,614	149,060	187,319	225,410	263,350	301,157	338,850	376,445	413,962	451,417										
G5x04.5	Start	Inboard	44,195	56,657	87,658	118,454	149,064	179,505	209,795	239,952	269,994	299,938	329,804	359,608									400	3,049
			24,121	30,643	46,895	63,076	79,191	95,248	111,253	127,211	143,129	159,013	174,869	190,705										
			44,105	56,541	87,479	118,213	148,761	179,139	209,367	239,463	269,443	299,327	329,132	358,875										
G5x05.0	Start	Outboard	70,744	89,952	137,805	185,438	232,870	280,120	327,208	374,152	420,973	467,689											400	2,469
			38,075	48,124	73,188	98,175	123,092	147,946	172,744	197,491	222,195	246,863												
			70,632	89,808	137,586	185,143	232,500	279,675	326,687	373,557	420,303	466,945												
G5x05.0	Start	Inboard	58,407	74,530	114,674	154,598	194,320	233,860	273,238	312,472	351,583	390,589											400	2,469
			31,622	40,057	61,087	82,040	102,924	123,744	144,508	165,221	185,892	206,526												
			58,288	74,378	114,441	154,283	193,924	233,383	272,681	311,835	350,866	389,793												
G5x06.0	Start	Outboard	103,795	131,483	200,514	269,292	337,841	406,181	474,337														400	1,715
			55,498	69,978	106,112	142,159	178,125	214,019	249,849															
			103,630	131,274	200,195	268,864	337,303	405,535	473,582															
G5x06.0	Start	Inboard	91,473	116,081	177,412	238,490	299,339	359,979	420,434														400	1,715
			49,046	61,913	94,015	126,029	157,963	189,825	221,622															
			91,287	115,845	177,050	238,004	298,729	359,246	419,578															
G5x07.0	Start	Outboard	143,029	180,743	274,815	368,603	462,132																400	1,260
			76,150	95,869	145,091	194,215	243,249																	
			142,802	180,455	274,377	368,016	461,397																	
G5x07.0	Start	Inboard	130,717	165,353	251,731	337,825	423,661																400	1,260
			69,696	87,801	132,990	178,080	223,080																	
			130,451	165,016	251,218	337,137	422,797																	
G5x08.0	Start	Outboard	188,228	237,459	360,212	482,536																	400	965
			99,953	125,698	189,948	254,048																		
			187,929	237,081	359,639	481,768																		
G5x08.0	Start	Inboard	175,935	222,093	337,165	451,807																	400	965
			93,501	117,633	177,851	237,919																		
			175,576	221,640	336,478	450,887																		

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig		
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000
			Air Torque Output, lbf-in																					
G7x04.0	Start	Outboard	53,609	68,680	106,176	143,430	180,464	217,299	253,955	290,454	326,817	363,066	399,221	435,303	471,335	507,337	543,329	579,335	615,374	651,468	687,637	723,905	400	5,000
	Min		29,247	37,141	56,810	76,396	95,905	115,344	134,721	154,043	173,319	192,554	211,756	230,934	250,093	269,242	288,389	307,539	326,701	345,883	365,090	384,332		
	End		53,521	68,567	106,003	143,196	180,170	216,944	253,540	289,980	326,284	362,473	398,569	434,593	470,566	506,508	542,443	578,389	614,369	650,404	686,515	722,723		
G7x04.0	Start	Inboard	34,409	44,681	70,180	95,436	120,472	145,308	169,966	194,467	218,831	243,081	267,238	291,322	315,355	339,358	363,353	387,360	411,400	435,496	459,667	483,936	400	5,000
	Min		19,210	24,594	37,990	51,302	64,537	77,703	90,807	103,856	116,857	129,819	142,748	155,652	168,538	181,414	194,286	207,163	220,052	232,960	245,894	258,862		
	End		34,338	44,588	70,033	95,237	120,220	145,005	169,611	194,061	218,375	242,574	266,681	290,715	314,698	338,651	362,595	386,552	410,542	434,587	458,708	482,926		
G7x04.5	Start	Outboard	69,168	88,263	135,804	183,083	230,124	276,950	323,583	370,047	416,363	462,556	508,648	554,662	600,621	646,547	692,464	738,394	784,361	830,387	876,495	922,708	400	4,813
	Min		37,476	47,473	72,397	97,230	121,980	146,655	171,263	195,812	220,310	244,765	269,184	293,576	317,949	342,311	366,669	391,033	415,408	439,805	464,230	488,691		
	End		69,056	88,119	135,582	182,784	229,749	276,498	323,055	369,443	415,684	461,801	507,818	553,757	599,641	645,492	691,334	737,189	783,081	829,032	875,064	921,202		
G7x04.5	Start	Inboard	49,975	64,272	99,818	135,103	170,149	204,981	239,619	274,088	308,410	342,608	376,705	410,724	444,688	478,619	512,541	546,476	580,448	614,479	648,592	682,810	400	4,813
	Min		27,439	34,926	53,577	72,136	90,613	109,014	127,349	145,624	163,848	182,030	200,176	218,294	236,394	254,482	272,567	290,657	308,759	326,882	345,034	363,222		
	End		49,871	64,138	99,610	134,821	169,795	204,553	239,119	273,516	307,767	341,893	375,919	409,867	443,760	477,621	511,472	545,336	579,237	613,197	647,239	681,386		
G7x05.0	Start	Outboard	86,627	110,220	168,992	227,483	285,718	343,722	401,519	459,134	516,591	573,915	631,131	688,263	745,335	802,373	859,401	916,443					400	3,898
	Min		46,697	59,046	89,844	120,545	151,156	181,687	212,146	242,542	272,882	303,176	333,433	363,660	393,866	424,061	454,252	484,448						
	End		86,486	110,040	168,716	227,112	285,252	343,161	400,864	458,385	515,748	572,979	630,101	687,140	744,119	801,064	857,998	914,947						
G7x05.0	Start	Inboard	67,440	86,237	133,018	179,519	225,763	271,777	317,583	363,207	408,673	454,007	499,232	544,372	589,454	634,501	679,538	724,589					400	3,898
	Min		36,660	46,499	71,024	95,451	119,789	144,046	168,232	192,354	216,421	240,441	264,424	288,378	312,311	336,232	360,149	384,072						
	End		67,299	86,057	132,741	179,144	225,292	271,210	316,921	362,449	407,821	453,060	498,190	543,237	588,225	633,177	678,120	723,077						
G7x06.0	Start	Outboard	127,232	161,243	246,031	330,500	414,678	498,593	582,272	665,744	749,036	832,177	915,195										400	2,707
	Min		68,111	85,905	130,310	174,603	218,794	262,894	306,912	350,857	394,740	438,571	482,358											
	End		127,024	160,980	245,630	329,961	414,001	497,779	581,322	664,657	747,814	830,819	913,701											
G7x06.0	Start	Inboard	108,059	137,278	210,085	282,573	354,770	426,703	498,401	569,891	641,202	712,361	783,397										400	2,707
	Min		58,073	73,359	111,489	149,509	187,427	225,253	262,997	300,669	338,279	375,836	413,350											
	End		107,834	136,992	209,647	281,984	354,030	425,813	497,361	568,702	639,864	710,875	781,763											

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig		
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000
			Air Torque Output, lbf-in																					
G8x05.0	Start	Outboard	101,936	129,872	199,444	268,661	337,554	406,154	474,492	542,600	610,508	678,247	745,850	813,345	880,766	948,143	1,015,507	1,082,890	1,150,321	1,217,834	1,285,458	1,353,224	400	4,765
	Min		55,075	69,698	106,162	142,502	178,729	214,855	250,889	286,842	322,726	358,552	394,330	430,070	465,785	501,484	537,179	572,880	608,598	644,344	680,130	715,965		
	End		101,790	129,685	199,157	268,274	337,068	405,570	473,809	541,819	609,629	677,271	744,776	812,175	879,499	946,778	1,014,045	1,081,331	1,148,666	1,216,081	1,283,607	1,351,276		
G8x05.0	Start	Inboard	67,964	87,408	135,750	183,736	231,399	278,768	325,875	372,752	419,429	465,938	512,309	558,573	604,763	650,909	697,042	743,193	789,394	835,675	882,068	928,603	400	4,765
	Min		37,314	47,496	72,859	98,098	123,224	148,249	173,182	198,034	222,817	247,542	272,219	296,858	321,472	346,070	370,664	395,264	419,881	444,527	469,211	493,945		
	End		67,835	87,241	135,491	183,386	230,958	278,237	325,255	372,042	418,630	465,050	511,333	557,509	603,611	649,669	695,714	741,777	787,890	834,083	880,387	926,834		
G8x06.0	Start	Outboard	150,033	190,308	290,697	390,685	490,307	589,599	688,594	787,330	885,839	984,159	1,082,324	1,180,368	1,278,328	1,376,238	1,474,134	400	3,684					
	Min		80,438	101,512	154,091	206,530	258,842	311,039	363,133	415,136	467,060	518,919	570,723	622,485	674,218	725,934	777,645							
	End		149,817	190,034	290,279	390,123	489,602	588,750	687,603	786,196	884,564	982,742	1,080,766	1,178,669	1,276,488	1,374,257	1,472,012							
G8x06.0	Start	Inboard	116,084	147,873	227,047	305,819	384,225	462,300	540,080	617,599	694,892	771,995	848,943	925,772	1,002,515	1,079,209	1,155,888	400	3,684					
	Min		62,679	79,313	120,793	162,134	203,346	244,444	285,439	326,343	367,168	407,927	448,632	489,296	529,930	570,546	611,158							
	End		115,863	147,592	226,614	305,236	383,493	461,419	539,051	616,422	693,568	770,525	847,326	924,008	1,000,605	1,077,153	1,153,686							
G8x07.0	Start	Outboard	207,126	261,991	398,820	535,202	671,176	806,782	942,058	1,077,044	1,211,779	1,346,302	1,480,652	400	2,707									
	Min		110,501	139,201	210,833	282,310	353,644	424,850	495,941	566,932	637,835	708,664	779,432											
	End		206,828	261,614	398,246	534,432	670,210	805,621	940,702	1,075,494	1,210,035	1,344,364	1,478,521											
G8x07.0	Start	Inboard	173,192	219,575	335,198	450,374	565,141	679,541	793,610	907,389	1,020,917	1,134,233	1,247,377	400	2,707									
	Min		92,740	116,999	177,530	237,906	298,139	358,244	418,234	478,124	537,926	597,654	657,321											
	End		172,862	219,157	334,559	449,515	564,065	678,246	792,098	905,661	1,018,972	1,132,072	1,245,000											
G8x08.0	Start	Outboard	272,899	344,524	523,091	700,998	878,302	1,055,061	1,231,333	1,407,176	400	2,072												
	Min		145,152	182,624	276,132	369,410	462,478	555,357	648,065	740,624														
	End		272,506	344,028	522,338	699,989	877,038	1,053,542	1,229,561	1,405,150														
G8x08.0	Start	Inboard	238,995	302,145	459,524	616,244	772,360	927,931	1,083,014	1,237,669	400	2,072												
	Min		127,393	160,426	242,835	325,014	406,983	488,762	570,371	651,831														
	End		238,539	301,569	458,649	615,069	770,888	926,163	1,080,951	1,235,311														
G8x09.0	Start	Outboard	347,929	438,627	664,828	890,298	1,115,104	1,339,308	400	1,637														
	Min		184,593	232,036	350,452	468,615	586,545	704,266																
	End		347,428	437,996	663,871	889,017	1,113,499	1,337,380																
G8x09.0	Start	Inboard	314,051	396,282	601,312	805,612	1,009,247	1,212,280	400	1,637														
	Min		166,834	209,837	317,155	424,218	531,050	637,672																
	End		313,453	395,527	600,166	804,077	1,007,324	1,209,970																
G8x10.0	Start	Outboard	431,949	543,970	823,422	1,102,077	1,380,004	400	1,326															
	Min		228,732	287,319	433,580	579,563	725,292																	
	End		431,328	543,187	822,237	1,100,491	1,378,018																	
G8x10.0	Start	Inboard	398,097	501,655	759,953	1,017,453	1,274,225	400	1,326															
	Min		210,970	265,117	400,277	535,159	669,787																	
	End		397,338	500,699	758,505	1,015,515	1,271,797																	
G8x12.0	Start	Outboard	626,501	787,791	1,190,127	400	921																	
	Min		330,938	415,298	625,886																			
	End		625,599	786,657	1,188,414																			
G8x12.0	Start	Inboard	592,724	745,572	1,126,801	400	921																	
	Min		313,180	393,099	592,589																			
	End		591,595	744,151	1,124,654																			

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig		
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000
			Air Torque Output, lbf-in																					
G10x06.0	Start	Outboard	196,205	249,100	380,919	512,182	642,936	773,231	903,116	1,032,639	1,161,848	1,290,794	1,419,525	1,548,088	1,676,535	1,804,912	1,933,269	2,061,655	2,190,118	2,318,707	2,447,472	2,576,460	400	5,000
			105,377	133,060	202,122	270,990	339,682	408,213	476,601	544,863	613,017	681,078	749,064	816,992	884,880	952,743	1,020,599	1,088,465	1,156,358	1,224,295	1,292,293	1,360,369		
			195,908	248,723	380,343	511,407	641,964	772,062	901,751	1,031,078	1,160,092	1,288,843	1,417,379	1,545,748	1,674,000	1,802,183	1,930,347	2,058,538	2,186,807	2,315,202	2,443,772	2,572,566		
G10x06.0	Start	Inboard	133,883	171,199	264,071	356,385	448,191	539,538	630,474	721,048	811,309	901,306	991,087	1,080,702	1,170,199	1,259,627	1,349,035	1,438,472	1,527,986	1,617,627	1,707,442	1,797,482	400	5,000
			72,788	92,324	141,019	189,519	237,843	286,006	334,027	381,921	429,707	477,400	525,019	572,579	620,099	667,594	715,082	762,581	810,106	857,676	905,306	953,014		
			133,625	170,868	263,561	355,697	447,326	538,496	629,256	719,655	809,742	899,565	989,173	1,078,615	1,167,939	1,257,195	1,346,430	1,435,694	1,525,036	1,614,503	1,704,145	1,794,011		
G10x07.0	Start	Outboard	271,206	343,266	522,954	702,026	880,534	1,058,534	1,236,078	1,413,222	1,590,018	1,766,523	1,942,788	2,118,869	2,294,819	2,470,694	2,646,545	2,822,429	2,998,398				400	4,125
			144,876	182,578	276,674	370,554	464,239	557,746	651,094	744,303	837,391	930,378	1,023,281	1,116,119	1,208,913	1,301,679	1,394,438	1,487,208	1,580,008					
			270,796	342,747	522,164	700,965	879,203	1,056,934	1,234,210	1,411,085	1,587,615	1,763,852	1,939,851	2,115,666	2,291,351	2,466,959	2,642,545	2,818,163	2,993,866					
G10x07.0	Start	Inboard	208,901	265,387	406,138	546,272	685,843	824,905	963,512	1,101,718	1,239,577	1,377,143	1,514,470	1,651,613	1,788,625	1,925,561	2,062,475	2,199,420	2,336,451				400	4,125
			112,283	141,838	215,563	289,074	362,388	435,525	508,503	581,342	654,060	726,675	799,208	871,677	944,100	1,016,496	1,088,885	1,161,285	1,233,715					
			208,498	264,874	405,354	545,218	684,519	823,312	961,651	1,099,590	1,237,183	1,374,483	1,511,545	1,648,423	1,785,171	1,921,843	2,058,492	2,195,173	2,331,939					
G10x08.0	Start	Outboard	357,608	451,684	686,203	919,823	1,152,624	1,384,684	1,616,083	1,846,898	2,077,209	2,307,093	2,536,631	2,765,900	2,994,979								400	3,158
			190,402	239,631	362,468	484,993	607,232	729,214	850,965	972,512	1,093,884	1,215,108	1,336,210	1,457,219	1,578,162									
			357,068	451,002	685,166	918,433	1,150,882	1,382,591	1,613,640	1,844,106	2,074,069	2,303,606	2,532,797	2,761,719	2,990,452									
G10x08.0	Start	Inboard	295,339	373,850	569,454	764,160	958,046	1,151,191	1,343,674	1,535,574	1,726,968	1,917,937	2,108,559	2,298,912	2,489,075								400	3,158
			157,813	198,895	301,365	403,522	505,394	607,007	708,390	809,570	910,574	1,011,430	1,112,165	1,212,806	1,313,381									
			294,769	373,128	568,354	762,684	956,196	1,148,968	1,341,079	1,532,608	1,723,633	1,914,233	2,104,487	2,294,472	2,484,268									
G10x09.0	Start	Outboard	456,170	575,303	872,394	1,168,497	1,463,698	1,758,085	2,051,743	2,344,759	2,637,220	2,929,212											400	2,495
			242,222	304,551	460,115	615,334	770,240	924,862	1,079,230	1,233,374	1,387,325	1,541,113												
			455,481	574,433	871,075	1,166,731	1,461,486	1,755,427	2,048,641	2,341,215	2,633,234	2,924,785												
G10x09.0	Start	Inboard	393,926	497,500	755,692	1,012,896	1,269,198	1,524,685	1,779,443	2,033,560	2,287,120	2,540,212											400	2,495
			209,630	263,811	399,004	533,854	668,389	802,640	936,638	1,070,412	1,203,993	1,337,410												
			393,166	496,539	754,233	1,010,940	1,266,747	1,521,741	1,776,007	2,029,633	2,282,704	2,535,307												
G10x10.0	Start	Outboard	566,544	713,686	1,080,732	1,446,699	1,811,683	2,175,778	2,539,078	2,901,677													400	2,021
			300,215	377,186	569,334	761,106	952,535	1,143,654	1,334,497	1,525,095														
			565,688	712,607	1,079,098	1,444,513	1,808,945	2,172,489	2,535,240	2,897,291														
G10x10.0	Start	Inboard	504,336	635,928	964,098	1,291,189	1,617,297	1,942,515	2,266,937	2,590,660													400	2,021
			267,622	336,446	508,223	679,625	850,684	1,021,433	1,191,905	1,362,134														
			503,362	634,699	962,236	1,288,696	1,614,174	1,938,764	2,262,560	2,585,657														
G10x12.0	Start	Outboard	822,116	1,033,981	1,562,453	2,089,332	2,614,760																400	1,403
			434,500	545,333	821,999	1,098,110	1,373,716																	
			820,873	1,032,418	1,560,091	2,086,174	2,610,808																	
G10x12.0	Start	Inboard	759,999	956,337	1,445,990	1,934,051	2,420,659																400	1,403
			401,912	504,597	760,895	1,016,639	1,271,877																	
			758,532	954,490	1,443,198	1,930,316	2,415,985																	
G10x14.0	Start	Outboard	1,125,422	1,413,944	2,133,879	2,851,982																	400	1,031
			593,644	744,552	1,121,343	1,497,497																		
			1,123,721	1,411,807	2,130,654	2,847,671																		
G10x14.0	Start	Inboard	1,063,396	1,336,415	2,017,589	2,696,931																	400	1,031
			561,052	703,811	1,060,233	1,416,016																		
			1,061,343	1,333,834	2,013,693	2,691,723																		

Torque - Hydraulic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																		MinOP psig	MOP psig			
			400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500			4750	5000	
			Air Torque Output, lbf-in																						
G13x08.0	Start	Outboard	458,130	579,079	880,406	1,180,342	1,479,006	1,776,522	2,073,012	2,368,597	2,663,400	2,957,542	3,251,146	3,544,334	3,837,227	4,129,947	4,422,618	4,715,360	5,008,296	5,301,547	5,595,237	5,889,486	400	4,912	
			Min	244,230	307,522	465,389	622,770	779,709	936,248	1,092,430	1,248,296	1,403,890	1,559,254	1,714,431	1,869,462	2,024,391	2,179,260	2,334,112	2,488,988	2,643,932	2,798,986	2,954,192			3,109,594
			End	457,246	577,961	878,706	1,178,063	1,476,150	1,773,092	2,069,009	2,364,024	2,658,257	2,951,832	3,244,868	3,537,490	3,829,817	4,121,973	4,414,078	4,706,255	4,998,625	5,291,311	5,584,433			5,878,114
G13x08.0	Start	Inboard	336,647	427,226	652,630	876,642	1,099,383	1,320,974	1,541,540	1,761,200	1,980,078	2,198,295	2,415,973	2,633,235	2,850,203	3,066,998	3,283,743	3,500,560	3,717,570	3,934,896	4,152,660	4,370,984	400	4,912	
			Min	180,722	228,137	346,312	464,001	581,248	698,094	814,584	930,758	1,046,660	1,162,331	1,277,816	1,393,155	1,508,392	1,623,568	1,738,727	1,853,911	1,969,163	2,084,525	2,200,039			2,315,748
			End	335,885	426,259	651,153	874,658	1,096,894	1,317,984	1,538,050	1,757,213	1,975,596	2,193,319	2,410,505	2,627,275	2,843,751	3,060,056	3,276,310	3,492,636	3,709,155	3,925,989	4,143,261			4,361,090
G13x09.0	Start	Outboard	584,957	738,147	1,119,991	1,500,327	1,879,287	2,257,002	2,633,605	3,009,228	3,384,004	3,758,065	4,131,542	4,504,568	4,877,275	5,249,795	5,622,261	5,994,805					400	3,881	
			Min	310,893	391,037	591,003	790,444	989,405	1,187,933	1,386,074	1,583,873	1,781,378	1,978,633	2,175,685	2,372,580	2,569,364	2,766,083	2,962,783	3,159,510						
			End	583,828	736,722	1,117,829	1,497,430	1,875,658	2,252,644	2,628,520	3,003,418	3,377,470	3,750,808	4,123,564	4,495,870	4,867,857	5,239,658	5,611,405	5,983,229						
G13x09.0	Start	Inboard	463,506	586,335	892,276	1,196,709	1,499,765	1,801,576	2,102,275	2,401,994	2,700,865	2,999,021	3,296,593	3,593,714	3,890,516	4,187,131	4,483,692	4,780,330					400	3,881	
			Min	247,385	311,652	471,926	631,674	790,944	949,779	1,108,228	1,266,335	1,424,147	1,581,710	1,739,070	1,896,272	2,053,364	2,210,391	2,367,398	2,524,433						
			End	462,457	585,008	890,257	1,194,000	1,496,370	1,797,498	2,097,517	2,396,557	2,694,752	2,992,232	3,289,131	3,585,579	3,881,710	4,177,653	4,473,543	4,769,510						
G13x10.0	Start	Outboard	726,983	916,213	1,388,073	1,858,309	2,327,062	2,794,476	3,260,692	3,725,852	4,190,100	4,653,578	5,116,427	5,578,791	6,040,811								400	3,144	
			Min	385,496	484,476	731,504	977,967	1,223,913	1,469,392	1,714,454	1,959,149	2,203,526	2,447,635	2,691,525	2,935,246	3,178,847									
			End	725,579	914,444	1,385,393	1,854,721	2,322,569	2,789,080	3,254,396	3,718,658	4,182,010	4,644,592	5,106,548	5,568,019	6,029,147									
G13x10.0	Start	Inboard	605,558	764,434	1,160,409	1,554,758	1,947,624	2,339,151	2,729,479	3,118,752	3,507,112	3,894,702	4,281,663	4,668,138	5,054,270								400	3,144	
			Min	321,983	405,085	612,418	819,185	1,025,435	1,231,219	1,436,586	1,641,586	1,846,267	2,050,680	2,254,875	2,458,900	2,662,806									
			End	604,187	762,704	1,157,782	1,551,238	1,943,216	2,333,856	2,723,301	3,111,693	3,499,174	3,885,886	4,271,971	4,657,572	5,042,829									
G13x12.0	Start	Outboard	1,055,844	1,328,359	2,007,936	2,685,228	3,360,435	4,033,757	4,705,396	5,375,550	6,044,421												400	2,183	
			Min	558,243	700,783	1,056,537	1,411,495	1,765,728	2,119,303	2,472,293	2,824,765	3,176,790													
			End	1,053,805	1,325,794	2,004,059	2,680,043	3,353,946	4,025,969	4,696,310	5,365,171	6,032,750													
G13x12.0	Start	Inboard	934,513	1,176,697	1,780,447	2,381,911	2,981,290	3,578,784	4,174,593	4,768,918	5,361,959												400	2,183	
			Min	494,736	621,399	937,460	1,252,726	1,567,266	1,881,150	2,194,447	2,507,227	2,819,560													
			End	932,397	1,174,034	1,776,417	2,376,520	2,974,542	3,570,683	4,165,144	4,758,124	5,349,822													
G13x14.0	Start	Outboard	1,446,128	1,817,283	2,743,229	3,666,581	4,587,566	5,506,412															400	1,604	
			Min	762,969	957,062	1,441,620	1,925,274	2,408,104	2,890,189																
			End	1,443,335	1,813,774	2,737,932	3,659,501	4,578,708	5,495,780																
G13x14.0	Start	Inboard	1,324,896	1,665,746	2,515,927	3,363,514	4,208,734	5,051,814															400	1,604	
			Min	699,461	877,678	1,322,543	1,766,505	2,209,643	2,652,035																
			End	1,321,897	1,661,975	2,510,232	3,355,901	4,199,207	5,040,379																
G13x16.0	Start	Outboard	1,897,196	2,382,188	3,592,493	4,799,895	6,004,649																400	1,228	
			Min	999,448	1,253,034	1,886,241	2,518,438	3,149,712																	
			End	1,893,533	2,377,588	3,585,556	4,790,627	5,993,055																	
G13x16.0	Start	Inboard	1,776,079	2,230,794	3,365,407	4,497,117	5,626,177																400	1,228	
			Min	935,940	1,173,649	1,767,164	2,359,668	2,951,250																	
			End	1,772,059	2,225,745	3,357,790	4,486,938	5,613,442																	
G13x18.0	Start	Outboard	2,409,049	3,023,073	4,555,728	6,085,171																	400	970	
			Min	1,267,681	1,588,697	2,390,401	3,190,986																		
			End	2,404,397	3,017,236	4,546,931	6,073,421																		
G13x18.0	Start	Inboard	2,288,062	2,871,842	4,328,888	5,782,720																	400	970	
			Min	1,204,173	1,509,313	2,271,324	3,032,216																		
			End	2,282,883	2,865,342	4,319,089	5,769,631																		