

## Torque - Pneumatic Spring Return Actuator

Actuator Model	Imperial Unit	Spring Torque lbf-in	Operating Pressure, psig																	MinOP psig	MOP psig					
			25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180			190	200			
			Air Torque Output, lbf-in																							
GHC2x12-SR0	Start	33,754									26,750	33,899	41,049	48,200	55,351	62,503	69,656	76,809							95	153
	Min	17,952									8,061	11,144	14,188	17,216	20,234	23,246	26,257	29,265								
	End	35,015									9,027	13,940	18,854	23,768	28,683	33,598	38,514	43,430								
GHC2x12-SR1	Start	26,421								25,648	32,796	39,946	47,095	54,246	61,397	68,549	75,702								75	145
	Min	14,434								8,828	11,856	14,871	17,882	20,887	23,892	26,896	29,897									
	End	29,006								11,407	16,320	21,233	26,146	31,061	35,975	40,890	45,806									
GHC2x12-SR2	Start	22,794							21,865	29,013	36,161	43,310	50,460	57,611	64,762	71,914	79,067								65	140
	Min	12,616							7,708	10,729	13,740	16,745	19,750	22,752	25,754	28,755	31,757									
	End	25,662							10,103	15,015	19,927	24,841	29,754	34,668	39,583	44,498	49,414									
GHC2x12-SR3	Start	20,401						17,515	24,662	31,810	38,958	46,108	53,257	60,408	67,559	74,712									58	136
	Min	11,299						6,030	9,056	12,069	15,075	18,080	21,081	24,082	27,084	30,085										
	End	22,882						7,571	12,482	17,394	22,307	27,220	32,134	37,048	41,963	46,878										
GHC2x12-SR4	Start	18,176				13,460	20,606	27,753	34,901	42,049	49,198	56,348	63,499	70,650	77,802										52	131
	Min	9,976				4,323	7,371	10,388	13,397	16,402	19,404	22,406	25,407	28,408	31,409											
	End	19,810				4,872	9,784	14,695	19,608	24,520	29,433	34,347	39,261	44,176	49,091											

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			25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200				
			Air Torque Output, lbf-in																								
GHC3x14-SR0	Start	56,406																			108	182					
	Min	30,595																									
	End	61,761																									
GHC3x16-SR0	Start	56,262								46,833	60,889	74,945	89,003	103,061	117,121	131,182						82	137				
	Min	30,551								14,849	20,800	26,703	32,585	38,454	44,322	50,180											
	End	61,552									17,854	27,395	36,937	46,479	56,023	65,567	75,112										
GHC3x14-SR1	Start	46,253									40,709	51,320	61,931	72,544	83,158	93,773	104,389	115,005	125,623	136,242	89	172					
	Min	25,263									13,352	17,831	22,283	26,723	31,155	35,585	40,010	44,435	48,860	53,282							
	End	51,209										16,591	23,794	30,997	38,201	45,406	52,612	59,818	67,025	74,232			81,441				
GHC3x16-SR1	Start	46,110									43,394	57,448	71,503	85,560	99,617	113,676	127,736	141,797						67	130		
	Min	25,220									14,519	20,431	26,314	32,182	38,044	43,902	49,760	55,613									
	End	51,001										18,414	27,954	37,495	47,037	56,579	66,122	75,667	85,211								
GHC3x14-SR2	Start	40,276										36,802	47,412	58,023	68,634	79,247	89,861	100,476	111,092	121,709	132,326	78	165				
	Min	22,033										12,235	16,704	21,151	25,586	30,018	34,442	38,867	43,291	47,712	52,132						
	End	44,546											15,335	22,537	29,740	36,943	44,147	51,352	58,558	65,764	72,971			80,178			
GHC3x16-SR2	Start	40,133										36,044	50,097	64,151	78,207	92,263	106,320	120,379	134,439						59	125	
	Min	21,989										11,944	17,860	23,741	29,608	35,467	41,325	47,180	53,032								
	End	44,338											14,820	24,360	33,900	43,441	52,983	62,525	72,068	81,612							
GHC3x14-SR3	Start	35,136										31,965	42,574	53,183	63,794	74,406	85,019	95,632	106,247	116,863	127,480	68	159				
	Min	19,253										10,644	15,113	19,557	23,989	28,417	32,841	37,265	41,686	46,106	50,525						
	End	38,809											13,247	20,448	27,650	34,853	42,056	49,261	56,465	63,671	70,877			78,084			
GHC3x16-SR3	Start	34,993										27,764	41,816	55,869	69,923	83,978	98,034	112,092	126,151	140,210						51	120
	Min	19,210										8,891	14,825	20,708	26,575	32,433	38,290	44,142	49,993	55,845							
	End	38,601											10,395	19,934	29,473	39,013	48,554	58,096	67,638	77,182	86,726						
GHC3x14-SR4	Start	30,715										26,317	36,925	47,533	58,143	68,754	79,365	89,978	100,592	111,207	121,823	132,440	60	155			
	Min	16,864										8,646	13,120	17,564	21,995	26,421	30,845	35,267	39,686	44,105	48,525	52,945					
	End	33,879											10,444	17,645	24,846	32,048	39,251	46,455	53,659	60,864	68,069	75,275			82,482		
GHC3x16-SR4	Start	30,572										32,724	46,775	60,828	74,882	88,938	102,994	117,052	131,110						45	117	
	Min	16,820										11,387	17,277	23,145	29,003	34,859	40,710	46,561	52,413								
	End	33,670											14,793	24,332	33,871	43,411	52,952	62,494	72,037	81,580							

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			25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200			
			Air Torque Output, lbf-in																							
GHC4x20-SR0	Start	126,627									115,657	142,429	169,202	195,977	222,753	249,531	276,311							95	142	
	Min	64,424									32,805	44,474	55,927	67,296	78,617	89,909	101,188									
	End	119,239									35,961	54,352	72,744	91,137	109,531	127,927	146,323									
GHC4x20-SR1	Start	95,115						82,432	109,201	135,971	162,743	189,516	216,291	243,067	269,845										71	134
	Min	50,534						25,625	37,064	48,394	59,676	70,935	82,182	93,422	104,661											
	End	99,055						30,521	48,909	67,299	85,690	104,082	122,475	140,869	159,264											
GHC4x20-SR2	Start	83,030					71,456	98,223	124,992	151,762	178,534	205,307	232,082	258,858											60	128
	Min	43,532					21,334	32,835	44,177	55,467	66,727	77,976	89,215	100,454												
	End	83,364					24,151	42,539	60,927	79,317	97,708	116,100	134,493	152,887												
GHC4x20-SR3	Start	69,808				57,974	84,739	111,507	138,275	165,045	191,817	218,590	245,365	272,141											53	123
	Min	36,703				17,129	28,635	39,962	51,236	62,491	73,729	84,967	96,193	107,418												
	End	70,165				18,913	37,299	55,687	74,076	92,466	110,857	129,249	147,642	166,036												
GHC4x20-SR4	Start	57,511				69,453	96,219	122,986	149,755	176,525	203,297	230,070	256,845												44	118
	Min	30,535				23,788	35,098	46,361	57,602	68,838	80,062	91,286	102,511													
	End	58,758				31,141	49,528	67,916	86,304	104,694	123,085	141,477	159,870													

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			25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200	
			Air Torque Output, lbf-in																					
GHC5x24-SR0	Start	258,384																						
	Min	127,933																					103	163
	End	228,270																						
GHC5x24-SR1	Start	216,177																						
	Min	107,870																					86	156
	End	194,120																						
GHC5x24-SR2	Start	193,662																						
	Min	94,486																					77	149
	End	163,684																						
GHC5x24-SR3	Start	155,550																						
	Min	77,425																					60	144
	End	137,651																						
GHC5x24-SR4	Start	129,540																						
	Min	64,965																					52	140
	End	116,170																						

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			25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180			190	200	
Air Torque Output, lbf-in																								
GHC7x28-SR0	Start	526,942																			121	181		
	Min	253,525										593,565	680,651	767,743	854,840	941,944	1,029,053	1,116,168	1,203,289				121	181
	End	432,668										182,946	242,777	302,613	362,453	422,297	482,145	541,996	601,852					
GHC7x32-SR0	Start	526,243								572,537	686,410	800,290	914,176	1,028,069	1,141,969						92	138		
	Min	253,310								157,055	207,195	256,199	304,759	353,069	401,207								92	138
	End	431,663								168,498	246,734	324,974	403,219	481,469	559,723									
GHC7x28-SR1	Start	426,897																			98	173		
	Min	208,749																					98	173
	End	364,133																						
GHC7x32-SR1	Start	426,198																			75	132		
	Min	208,534																					75	132
	End	363,127																						
GHC7x28-SR2	Start	376,696																			87	168		
	Min	184,728																					87	168
	End	322,831																						
GHC7x32-SR2	Start	375,996																			66	129		
	Min	184,514																					66	129
	End	321,826																						
GHC7x28-SR3	Start	309,953																			71	161		
	Min	152,780																					71	161
	End	267,867																						
GHC7x32-SR3	Start	309,254																			55	123		
	Min	152,566																					55	123
	End	266,861																						
GHC7x28-SR4	Start	259,752																			60	156		
	Min	128,759																					60	156
	End	226,565																						
GHC7x32-SR4	Start	259,052																			46	120		
	Min	128,545																					46	120
	End	225,559																						

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			25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190			200
			Air Torque Output, lbf-in																				
GHC8x32-SR0	Start	800,382												884,978	1,019,405	1,153,840	1,288,283	1,422,733	1,557,192	1,691,658	1,826,133	119	189
	Min	394,738												258,295	316,583	374,173	431,388	488,384	545,195	601,924	658,577		
	End	701,922													297,192	389,563	481,939	574,320	666,707	759,100	851,498		
GHC8x36-SR0	Start	799,553							809,061	979,971	1,150,889	1,321,816	1,492,752	1,663,697	1,834,651							93	149
	Min	394,484							224,873	299,700	373,029	445,713	518,070	590,239	662,256								
	End	700,730							245,026	362,466	479,911	597,363	714,821	832,284	949,754								
GHC8x32-SR1	Start	631,049							574,436	708,839	843,250	977,669	1,112,096	1,246,530	1,380,973	1,515,424	1,649,882	1,784,349	1,918,823			94	182
	Min	323,898							166,768	224,963	282,296	339,235	395,993	452,638	509,175	565,692	622,158	678,576	734,997				
	End	609,799							188,563	280,917	373,277	465,642	558,013	650,389	742,770	835,157	927,550	1,019,948	1,112,351				
GHC8x36-SR1	Start	630,221						559,959	730,851	901,752	1,072,661	1,243,580	1,414,507	1,585,443	1,756,388	1,927,341						74	143
	Min	323,645						160,553	234,528	307,235	379,500	451,510	523,379	595,221	666,940	738,660							
	End	608,607						178,615	296,043	413,476	530,916	648,361	765,813	883,270	1,000,734	1,118,204							
GHC8x32-SR2	Start	507,319							533,857	668,252	802,656	937,067	1,071,486	1,205,913	1,340,347	1,474,790	1,609,241	1,743,699	1,878,166			76	175
	Min	266,371							173,090	230,218	286,977	343,587	400,097	456,551	512,963	569,377	625,752	682,097	738,443				
	End	516,556							219,299	311,648	404,002	496,362	588,727	681,098	773,474	865,855	958,242	1,050,635	1,143,033				
GHC8x36-SR2	Start	506,490					482,893	653,776	824,668	995,569	1,166,478	1,337,397	1,508,324	1,679,260	1,850,205							59	138
	Min	266,119					151,416	224,234	296,396	368,314	440,126	511,840	583,555	655,194	726,821								
	End	515,365					184,279	301,700	419,128	536,561	654,001	771,446	888,898	1,006,355	1,123,819								
GHC8x32-SR3	Start	429,695						478,642	613,029	747,424	881,827	1,016,238	1,150,657	1,285,084	1,419,519	1,553,962	1,688,412	1,822,871				64	169
	Min	226,031						158,347	215,314	271,991	328,516	384,977	441,386	497,796	554,142	610,483	666,826	723,171					
	End	437,869						204,174	296,517	388,866	481,220	573,580	665,945	758,316	850,692	943,074	1,035,461	1,127,853					
GHC8x36-SR3	Start	428,867				391,191	562,065	732,948	903,840	1,074,741	1,245,650	1,416,568	1,587,495	1,758,431	1,929,376							50	133
	Min	225,778				121,064	193,936	266,044	337,913	409,660	481,371	553,020	624,643	696,268	767,895								
	End	436,678				144,083	261,498	378,919	496,346	613,780	731,219	848,665	966,116	1,083,574	1,201,038								

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			25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180			190	200
			Air Torque Output, lbf-in																				
GHC10x40-SR1	Start	1,458,682									1,497,069	1,773,241	2,049,427	2,325,626	2,601,838	2,878,063	3,154,300	3,430,551	3,706,815			105	177
	Min	706,589								400,772	523,431	642,825	760,948	878,351	995,341	1,112,089	1,228,526	1,344,950					
	End	1,221,685								422,487	612,308	802,137	991,976	1,181,823	1,371,679	1,561,544	1,751,419	1,941,302					
GHC10x44-SR1	Start	1,457,531								1,752,226	2,087,612	2,423,013	2,758,429	3,093,859	3,429,303	3,764,761						87	146
	Min	706,234								514,456	659,434	802,598	944,936	1,086,716	1,228,165	1,369,507							
	End	1,220,029								597,863	828,383	1,058,913	1,289,452	1,520,001	1,750,560	1,981,129							
GHC10x40-SR2	Start	1,174,791							1,142,730	1,418,876	1,695,036	1,971,209	2,247,395	2,523,593	2,799,805	3,076,030	3,352,268	3,628,519	3,904,782			85	170
	Min	578,854							308,232	430,098	548,735	666,227	783,150	899,743	1,016,156	1,132,338	1,248,487	1,364,564	1,480,509				
	End	1,024,901							325,315	515,118	704,929	894,750	1,084,579	1,274,418	1,464,265	1,654,121	1,843,986	2,033,860	2,223,743				
GHC10x44-SR2	Start	1,173,640							1,279,463	1,614,821	1,950,193	2,285,580	2,620,981	2,956,396	3,291,826	3,627,270	3,962,728					70	140
	Min	578,501							369,525	514,658	657,524	799,488	940,977	1,082,215	1,223,245	1,364,205	1,504,987						
	End	1,023,245							419,295	649,795	880,305	1,110,825	1,341,354	1,571,894	1,802,443	2,033,002	2,263,571						
GHC10x40-SR3	Start	1,070,631							1,311,426	1,587,572	1,863,732	2,139,905	2,416,091	2,692,290	2,968,501	3,244,726	3,520,964	3,797,215				77	163
	Min	510,751							377,935	497,742	615,765	733,011	849,776	966,246	1,082,604	1,198,751	1,314,899	1,430,921					
	End	857,214							428,943	618,745	808,557	998,377	1,188,207	1,378,045	1,567,892	1,757,748	1,947,614	2,137,488					
GHC10x44-SR3	Start	1,069,480							1,448,159	1,783,517	2,118,889	2,454,276	2,789,677	3,125,092	3,460,522	3,795,966						64	134
	Min	510,396							437,862	581,837	724,309	866,115	1,007,479	1,148,627	1,289,657	1,430,561							
	End	855,558							522,923	753,423	983,932	1,214,452	1,444,982	1,675,521	1,906,070	2,136,630							
GHC10x40-SR4	Start	857,391						897,550	1,173,671	1,449,805	1,725,951	2,002,111	2,278,284	2,554,470	2,830,668	3,106,880	3,383,105	3,659,343				60	158
	Min	417,208						245,691	366,580	484,559	601,540	718,093	834,411	950,549	1,066,609	1,182,543	1,298,480	1,414,420					
	End	719,663						261,516	451,300	641,094	830,897	1,020,708	1,210,529	1,400,358	1,590,196	1,780,044	1,969,900	2,159,765					
GHC10x44-SR4	Start	856,240				915,865	1,251,194	1,586,538	1,921,896	2,257,268	2,592,655	2,928,056	3,263,471	3,598,901	3,934,345							51	130
	Min	416,854				254,221	400,102	542,794	684,503	825,782	966,803	1,107,673	1,248,447	1,389,224	1,529,878								
	End	718,007				274,104	504,584	735,074	965,574	1,196,084	1,426,604	1,657,133	1,887,673	2,118,222	2,348,781								