

Torque - Pneumatic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																		MinOP barg	MOP barg					
			1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	11.5	12	12.5	13	13.5			14				
			Air Torque Output, Nm																								
GHC2x12-SR0	Start	3,814												3,953	5,125	6,297	7,469	8,641	9,227							6.6	10.5
	Min	2,028												1,312	1,809	2,304	2,798	3,291	3,537								
	End	3,956													1,660	2,465	3,270	4,076	4,881	5,284							
GHC2x12-SR1	Start	2,985							2,294	3,465	4,637	5,808	6,980	8,152												5.2	10.0
	Min	1,631							739	1,238	1,732	2,225	2,718	3,210													
	End	3,277							874	1,679	2,484	3,289	4,094	4,900													
GHC2x12-SR2	Start	2,575							2,674	3,845	5,017	6,188	7,360	8,532												4.5	9.7
	Min	1,425							957	1,451	1,944	2,436	2,928	3,420													
	End	2,899							1,281	2,086	2,891	3,697	4,502	5,307													
GHC2x12-SR3	Start	2,305							1,819	2,990	4,161	5,333	6,504	7,676	8,848											4.0	9.4
	Min	1,277							613	1,109	1,602	2,094	2,586	3,078	3,570												
	End	2,585							745	1,550	2,355	3,160	3,965	4,771	5,576												
GHC2x12-SR4	Start	2,054							1,582	2,168	3,339	4,510	5,682	6,854	8,026	9,198										3.6	9.0
	Min	1,127							515	765	1,259	1,752	2,244	2,736	3,228	3,719											
	End	2,238							593	995	1,800	2,605	3,410	4,216	5,021	5,826											

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			Air Torque Output, Nm																							
GHC3x14-SR0	Start	6,373										4,782	6,521	8,260	10,000	11,740	12,610	13,480	14,350	15,220	16,090			7.4	12.5	
	Min	3,457										1,456	2,196	2,927	3,656	4,382	4,745	5,108	5,471	5,833	6,196					
	End	6,978										1,671	2,852	4,033	5,213	6,394	6,985	7,575	8,166	8,757	9,347					
GHC3x16-SR0	Start	6,357								6,407	8,710	11,014	13,318	15,622											5.7	9.4
	Min	3,452								2,151	3,119	4,082	5,043	6,003												
	End	6,954								2,774	4,338	5,902	7,466	9,030												
GHC3x14-SR1	Start	5,226								4,243	5,981	7,720	9,460	11,199	12,939	13,809	14,679	15,549							6.1	11.9
	Min	2,854								1,357	2,092	2,820	3,547	4,272	4,998	5,360	5,723	6,085								
	End	5,786								1,632	2,813	3,993	5,174	6,354	7,535	8,126	8,717	9,307								
GHC3x16-SR1	Start	5,210							5,303	7,606	9,909	12,213	14,517												4.6	9.0
	Min	2,849							1,809	2,775	3,737	4,697	5,658													
	End	5,762							2,352	3,915	5,479	7,043	8,607													
GHC3x14-SR2	Start	4,551								5,000	6,739	8,478	10,217	11,956	13,696	14,566	15,436								5.4	11.4
	Min	2,489								1,737	2,466	3,193	3,918	4,643	5,368	5,730	6,092									
	End	5,033								2,304	3,484	4,665	5,845	7,026	8,207	8,798	9,388									
GHC3x16-SR2	Start	4,534						3,757	6,060	8,363	10,667	12,970	15,274												4.1	8.6
	Min	2,484						1,216	2,186	3,148	4,108	5,068	6,027													
	End	5,009						1,461	3,024	4,587	6,151	7,715	9,279													
GHC3x14-SR3	Start	3,970							3,913	5,652	7,391	9,130	10,869	12,609	14,348	15,218									4.7	11.0
	Min	2,175							1,330	2,060	2,787	3,512	4,237	4,961	5,686	6,048										
	End	4,385							1,702	2,882	4,062	5,243	6,423	7,604	8,785	9,376										
GHC3x16-SR3	Start	3,954					3,258	4,409	6,712	9,015	11,319	13,623	15,926												3.5	8.3
	Min	2,170					1,056	1,543	2,507	3,467	4,427	5,386	6,345													
	End	4,361					1,257	2,038	3,601	5,165	6,729	8,292	9,856													
GHC3x14-SR4	Start	3,470						2,736	4,474	6,212	7,951	9,690	11,429	13,169	14,909	15,779									4.1	10.7
	Min	1,905						876	1,609	2,336	3,061	3,786	4,511	5,235	5,959	6,321										
	End	3,828						1,019	2,199	3,379	4,559	5,739	6,920	8,101	9,282	9,872										
GHC3x16-SR4	Start	3,454				2,667	3,818	4,970	7,273	9,576	11,879	14,183	16,487												3.1	8.1
	Min	1,900				850	1,338	1,820	2,782	3,742	4,701	5,659	6,618													
	End	3,804				972	1,754	2,535	4,098	5,662	7,225	8,789	10,353													

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			1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	11.5	12	12.5	13			13.5	14		
			Air Torque Output, Nm																						
GHC4x20-SR0	Start	14,307										16,554	20,941	25,329	29,717									6.6	9.8
	Min	7,279										5,223	7,094	8,951	10,801										
	End	13,472										6,458	9,472	12,486	15,501										
GHC4x20-SR1	Start	10,747							10,075	14,462	18,849	23,237	27,624	32,013										4.9	9.2
	Min	5,710							3,223	5,087	6,937	8,781	10,623	12,464											
	End	11,192							3,972	6,985	9,999	13,013	16,027	19,042											
GHC4x20-SR2	Start	9,381						7,473	11,860	16,246	20,633	25,021	29,409											4.1	8.8
	Min	4,918						2,146	4,034	5,887	7,733	9,576	11,418												
	End	9,419						2,316	5,330	8,343	11,357	14,371	17,385												
GHC4x20-SR3	Start	7,887					6,781	8,974	13,360	17,747	22,134	26,522	30,909											3.7	8.5
	Min	4,147					2,036	2,980	4,836	6,682	8,524	10,365	12,204												
	End	7,928					2,295	3,802	6,815	9,829	12,842	15,856	18,870												
GHC4x20-SR4	Start	6,498				5,885	8,078	10,271	14,657	19,044	23,431	27,819	32,206											3.0	8.1
	Min	3,450				1,849	2,786	3,713	5,558	7,400	9,239	11,079	12,918												
	End	6,639				2,171	3,677	5,184	8,197	11,210	14,224	17,238	20,252												

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			1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	11.5	12	12.5	13			13.5	14	
			Air Torque Output, Nm																					
GHC5x24-SR0	Start	29,194										30,789	39,034	47,279	55,525	63,771	67,895	72,019					7.1	11.2
	Min	14,455										8,839	12,410	15,921	19,410	22,887	24,624	26,358						
	End	25,791										9,952	15,618	21,284	26,951	32,619	35,453	38,286						
GHC5x24-SR1	Start	24,425								26,427	34,671	42,916	51,161	59,407	67,654	71,777							5.9	10.8
	Min	12,188								7,811	11,356	14,853	18,332	21,802	25,268	27,000								
	End	21,933								9,030	14,696	20,362	26,028	31,695	37,363	40,196								
GHC5x24-SR2	Start	21,881							21,644	29,887	38,131	46,376	54,621	62,867	71,113								5.3	10.3
	Min	10,675							5,742	9,367	12,882	16,370	19,843	23,309	26,773									
	End	18,494							5,895	11,561	17,226	22,892	28,559	34,226	39,893									
GHC5x24-SR3	Start	17,575						16,360	24,603	32,846	41,090	49,335	57,580	65,826									4.1	9.9
	Min	8,748						4,396	7,992	11,489	14,964	18,430	21,890	25,350										
	End	15,552						4,514	10,179	15,844	21,510	27,176	32,842	38,509										
GHC5x24-SR4	Start	14,636					14,681	18,802	27,045	35,288	43,532	51,777	60,022	68,268									3.6	9.7
	Min	7,340					4,210	5,999	9,499	12,972	16,436	19,895	23,352	26,807										
	End	13,125					4,605	7,438	13,102	18,768	24,433	30,099	35,766	41,433										

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			1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	11.5	12	12.5	13			13.5	14				
			Air Torque Output, Nm																								
GHC7x28-SR0	Start	59,536																							8.3	12.5	
	Min	28,645										63,158	77,429	91,701	105,974	113,111	120,249	127,387	134,525								
	End	48,885										17,038	23,343	29,482	35,563	38,590	41,611	44,628	47,643								
GHC7x32-SR0	Start	59,457																								6.3	9.5
	Min	28,620										60,857	79,518	98,180	116,843	135,508											
	End	48,771										15,993	24,260	32,259	40,182	48,067											
GHC7x28-SR1	Start	48,233																								6.8	11.9
	Min	23,585										56,682	70,952	85,222	99,494	113,768	120,905	128,042	135,180								
	End	41,142										16,763	22,914	28,985	35,024	41,043	44,051	47,052	50,054								
GHC7x32-SR1	Start	48,154																								5.2	9.1
	Min	23,561										49,992	68,651	87,311	105,973	124,637	143,302										
	End	41,028										13,820	21,943	29,884	37,769	45,631	53,478										
GHC7x28-SR2	Start	42,561																								6.0	11.6
	Min	20,871										47,111	61,379	75,648	89,919	104,191	118,464	125,601	132,739	139,877							
	End	36,475										13,592	19,763	25,835	31,870	37,886	43,890	46,891	49,892	52,888							
GHC7x32-SR2	Start	42,482																								4.6	8.9
	Min	20,847										54,689	73,348	92,008	110,670	129,334											
	End	36,361										16,906	24,873	32,763	40,624	48,471											
GHC7x28-SR3	Start	35,020																								4.9	11.1
	Min	17,262										39,095	53,361	67,629	81,899	96,169	110,441	124,715	131,852	138,989							
	End	30,265										11,440	17,584	23,636	29,658	35,663	41,662	47,654	50,650	53,646							
GHC7x32-SR3	Start	34,941																								3.8	8.5
	Min	17,238										42,282	60,939	79,598	98,258	116,920	135,584										
	End	30,151										12,846	20,819	28,701	36,554	44,393	52,227										
GHC7x28-SR4	Start	29,348																								4.1	10.8
	Min	14,548										29,526	43,791	58,058	72,326	86,595	100,866	115,138	129,411	136,549							
	End	25,598										8,255	14,436	20,485	26,500	32,502	38,494	44,485	50,472	53,464							
GHC7x32-SR4	Start	29,269																								3.2	8.3
	Min	14,524										28,323	37,651	46,979	56,306	65,634	74,961	84,288	93,615	102,942	112,269	121,596	130,923				
	End	25,485										7,727	11,824	15,809	23,696	31,547	39,383	47,215	55,039								

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			1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	11.5	12	12.5	13			13.5	14
			Air Torque Output, Nm																				
GHC8x32-SR0	Start	90,431																				8.2	13.0
	Min	44,599																					
	End	79,307																					
GHC8x36-SR0	Start	90,337																				6.4	10.3
	Min	44,571																					
	End	79,172																					
GHC8x32-SR1	Start	71,299																				6.5	12.5
	Min	36,596																					
	End	68,898																					
GHC8x36-SR1	Start	71,205																				5.1	9.9
	Min	36,567																					
	End	68,763																					
GHC8x32-SR2	Start	57,319																				5.2	12.1
	Min	30,096																					
	End	58,363																					
GHC8x36-SR2	Start	57,226																				4.1	9.5
	Min	30,067																					
	End	58,228																					
GHC8x32-SR3	Start	48,549																				4.4	11.7
	Min	25,538																					
	End	49,473																					
GHC8x36-SR3	Start	48,456																				3.4	9.2
	Min	25,510																					
	End	49,338																					

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			1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	11.5	12	12.5	13	13.5			14	
			Air Torque Output, Nm																					
GHC10x40-SR1	Start	164,809												173,909	219,166	264,427	309,690	354,957	377,592	400,227	422,863	445,500	7.2	12.2
	Min	79,834												47,442	67,298	86,685	105,907	125,044	134,587	144,126	153,665	163,183		
	End	138,032												51,008	82,115	113,224	144,334	175,447	191,005	206,562	222,121	237,680		
GHC10x44-SR1	Start	164,679									186,693	241,653	296,616	351,583	406,553	461,526	6.0	10.1						
	Min	79,794									53,172	76,984	100,384	123,638	146,810	169,938								
	End	137,845									59,795	97,570	135,348	173,128	210,910	248,695								
GHC10x40-SR2	Start	132,734								151,022	196,276	241,534	286,794	332,058	377,324	399,959	422,594	445,230	5.9	11.7				
	Min	65,402								44,555	64,032	83,248	102,360	121,425	140,458	149,974	159,474	168,974						
	End	115,798								51,815	82,920	114,026	145,135	176,246	207,359	222,916	238,474	254,032						
GHC10x44-SR2	Start	132,603							154,104	209,060	264,020	318,983	373,950	428,920	4.8	9.7								
	Min	65,362							45,925	69,499	92,775	115,947	139,059	162,148										
	End	115,611							53,934	91,707	129,482	167,260	205,040	242,822										
GHC10x40-SR3	Start	120,965							124,831	170,082	215,336	260,594	305,854	351,118	396,385	419,019	441,654	5.3	11.2					
	Min	57,707							32,143	52,237	71,600	90,776	109,873	128,929	147,962	157,472	166,972							
	End	96,852							32,422	63,524	94,628	125,735	156,843	187,954	219,067	234,624	250,182							
GHC10x44-SR3	Start	120,835							173,164	228,120	283,080	338,044	393,010	447,980	4.4	9.2								
	Min	57,667							53,596	77,052	100,297	123,452	146,563	169,645										
	End	96,665							65,642	103,415	141,190	178,968	216,748	254,530										
GHC10x40-SR4	Start	96,872						95,217	140,465	185,717	230,971	276,228	321,489	366,753	412,019	434,654	4.1	10.9						
	Min	47,138						24,911	44,792	64,038	83,141	102,188	121,210	140,208	159,207	168,698								
	End	81,311						25,291	56,391	87,494	118,598	149,705	180,813	211,924	243,037	258,594								
GHC10x44-SR4	Start	96,742					106,370	133,846	188,799	243,755	298,715	353,678	408,645	3.5	9.0									
	Min	47,098					30,015	41,979	65,367	88,554	111,666	134,741	157,810											
	End	81,124					32,957	51,841	89,612	127,385	165,160	202,938	240,718											