

Bettis GH-Series

Pneumatic Spring-Return Actuator Torque Chart Metric

BETTIS™



Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure, (barg)																MinOP (barg)	Torque @ MinOP (Nm)	MOP (barg)	Torque @ MOP (Nm)			
		3	3.5	4	5	5.5	6	7	7.5	8.5	9	10	10.5	11	12	12.5	13					13.5		
GH2x12-SR0	Start	4,477						Please consult factory	3,191	3,665	4,614	5,089	6,038	6,512	6,987	Exceeds MOP					6.6	2,811	11.6	7,557
	Min.	2,027					1,358		1,610	2,112	2,363	2,862	3,112	3,362	1,154		3,661							
	End	3,232					1,946		2,420	3,368	3,843	4,791	5,265	5,739	1,567		6,309							
GH2x12-SR1	Start	3,504				Please consult factory	2,325	2,799	3,748	4,222	5,171	5,645	6,595	7,069	7,544	Exceeds MOP					5.2	2,040	11.2	7,734
	Min.	1,635					1,022	1,273	1,773	2,023	2,522	2,771	3,270	3,519	3,768		870	3,867						
	End	2,675					1,497	1,971	2,919	3,393	4,341	4,815	5,764	6,238	6,712		1,213	6,902						
GH2x12-SR2	Start	3,022			Please consult factory	2,160	2,634	3,108	4,057	4,531	5,480	5,955	6,904	7,378	Exceeds MOP					4.5	1,685	10.9	7,758	
	Min.	1,430				984	1,235	1,485	1,984	2,233	2,731	2,980	3,478	3,727		733	3,926							
	End	2,366				1,504	1,978	2,452	3,400	3,874	4,822	5,296	6,245	6,719		1,030	7,098							
GH2x12-SR3	Start	2,705		Please consult factory	1,468	2,416	2,890	3,365	4,313	4,788	5,737	6,211	7,160	7,635	Exceeds MOP					4.0	1,468	10.6	7,730	
	Min.	1,281			635	1,137	1,387	1,636	2,135	2,384	2,882	3,131	3,629	3,878		635	3,928							
	End	2,110			874	1,821	2,295	2,769	3,717	4,191	5,139	5,613	6,562	7,036		874	7,131							
GH2x12-SR4	Start	2,410		Please consult factory	1,751	2,699	3,173	3,648	4,596	5,071	6,020	6,494	7,443	Exceeds MOP					3.6	1,371	10.3	7,728		
	Min.	1,129			788	1,289	1,539	1,788	2,286	2,535	3,033	3,282	3,780		586	3,930								
	End	1,827			1,168	2,116	2,590	3,064	4,012	4,486	5,434	5,908	6,856		789	7,141								

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		3	3.5	4	5	5.5	6	7	7.5	8.5	9	10	10.5	11	12	12.5					13	13.5	
		Pressure Torque Output: Start/Min./End (Nm)																					
GH3x14-SR0	Start	7,515							Please consult factory	4,518	5,914	6,612	8,009	8,708	9,406	10,803	11,502	12,201	12,899	7.4	4,378	13.8	13,319
	Min.	3,460						1,892		2,634	3,004	3,741	4,108	4,476	5,210	5,577	5,944	6,311	1,817		6,531		
	End	5,654						2,659		4,054	4,752	6,149	6,847	7,545	8,941	9,640	10,338	11,037	2,519		11,456		
GH3x14-SR1	Start	6,162						Please consult factory	4,787	5,485	6,881	7,580	8,976	9,675	10,373	11,771	12,469	13,168	Exceeds MOP	3,530	13.4	13,727	
	Min.	2,858							2,149	2,518	3,254	3,622	4,356	4,723	5,090	5,823	6,189	6,556		1,481		6,849	
	End	4,688							3,313	4,011	5,407	6,105	7,501	8,199	8,897	10,294	10,992	11,691		2,057		12,249	
GH3x14-SR2	Start	5,366			Please consult factory	3,303	4,001	5,397	6,095	7,492	8,190	9,587	10,285	10,984	12,381	13,079	Exceeds MOP	3,163	12.9	13,638			
	Min.	2,493				1,416	1,787	2,524	2,892	3,626	3,993	4,727	5,093	5,460	6,193	6,559		1,341		6,852			
	End	4,078				2,016	2,713	4,109	4,807	6,203	6,901	8,297	8,995	9,693	11,090	11,788		1,876		12,347			
GH3x14-SR3	Start	4,681		Please consult factory	3,130	3,828	4,526	5,922	6,620	8,017	8,715	10,112	10,810	11,509	12,906	13,605	Exceeds MOP	2,711	12.5	13,605			
	Min.	2,178				1,371	1,741	2,110	2,845	3,212	3,946	4,312	5,045	5,412	5,778	6,511		6,877		1,148	6,877		
	End	3,553				2,003	2,700	3,398	4,793	5,491	6,887	7,585	8,981	9,679	10,378	11,774		12,472		1,584	12,472		
GH3x14-SR4	Start	4,092		Please consult factory	3,582	4,279	4,978	6,374	7,072	8,468	9,167	10,563	11,262	11,960	13,358	Exceeds MOP	2,325	12.1	13,497				
	Min.	1,908				1,650	2,019	2,386	3,120	3,487	4,220	4,586	5,319	5,685	6,051		6,784		983	6,857			
	End	3,101				2,591	3,289	3,987	5,382	6,080	7,476	8,174	9,570	10,268	10,966		12,363		1,336	12,502			
GH3x16-SR0	Start	7,496		Please consult factory	5,124	6,974	7,898	9,748	10,673	12,524	13,449	Exceeds MOP						4,569	10.6	13,634			
	Min.	3,455				2,218	3,197	3,685	4,658	5,144	6,116		6,601							1,922	6,699		
	End	5,635				3,265	5,113	6,038	7,887	8,812	10,661		11,586							2,710	11,771		
GH3x16-SR1	Start	6,143		Please consult factory	4,242	5,167	6,091	7,941	8,866	10,716	11,641	13,491	Exceeds MOP						3,502	10.1	13,676		
	Min.	2,853				1,864	2,353	2,841	3,814	4,300	5,272	5,757		6,727							1,470	6,825	
	End	4,669				2,769	3,693	4,617	6,466	7,390	9,239	10,164		12,013							2,029	12,198	
GH3x16-SR2	Start	5,347		Please consult factory	4,852	5,777	6,701	8,551	9,476	11,326	12,251	Exceeds MOP						3,188	9.7	13,546			
	Min.	2,488				2,240	2,728	3,214	4,186	4,671	5,642		6,127							1,358	6,806		
	End	4,059				3,564	4,489	5,413	7,262	8,186	10,035		10,960							1,901	12,254		
GH3x16-SR3	Start	4,662	Please consult factory	2,604	3,528	5,377	6,302	7,227	9,076	10,001	11,851	12,776	Exceeds MOP						2,604	9.4	13,516		
	Min.	2,173		1,094	1,586	2,562	3,048	3,534	4,505	4,990	5,960	6,445							1,094		6,833		
	End	3,534		1,477	2,401	4,249	5,173	6,097	7,946	8,871	10,720	11,644							1,477		12,384		
GH3x16-SR4	Start	4,073	Please consult factory	3,055	3,980	5,829	6,754	7,678	9,528	10,453	12,303	13,228	Exceeds MOP						2,316	9.2	13,598		
	Min.	1,903		1,376	1,864	2,837	3,322	3,808	4,778	5,263	6,233	6,718							982		6,912		
	End	3,082		2,065	2,989	4,838	5,762	6,686	8,535	9,459	11,308	12,233							1,326		12,603		

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		3	3.5	4	5	5.5	6	7	7.5	8.5	9	10	10.5	11	12	12.5	13					13.5		
		Pressure Torque Output: Start/Min./End (Nm)																						
GH4x20-SR0	Start	16,809						Please consult factory	13,355	15,132	18,685	20,462	24,015	25,792	27,569	Exceeds MOP					6.6	11,934	11.0	27,569
	Min.	7,241							5,425	6,375	8,260	9,199	11,072	12,008	12,942		4,660	12,942						
	End	11,022							7,570	9,345	12,896	14,671	18,222	19,998	21,774		6,150	21,774						
GH4x20-SR1	Start	12,621		Please consult factory	8,129	9,905	11,681	15,234	17,010	20,563	22,340	25,894	27,671	Exceeds MOP					4.9	7,774	10.5	27,671		
	Min.	5,708				3,345	4,292	5,232	7,106	8,040	9,906	10,838	12,703		13,635	3,155	13,635							
	End	9,144				4,656	6,431	8,206	11,756	13,531	17,082	18,857	22,408		24,184	4,301	24,184							
GH4x20-SR2	Start	11,019		Please consult factory	9,575	11,351	13,127	16,680	18,457	22,010	23,786	27,340	Exceeds MOP					4.1	6,378	10.0	27,340			
	Min.	4,908				4,162	5,102	6,039	7,908	8,842	10,707	11,639		13,503	2,449	13,503								
	End	7,699				6,257	8,032	9,806	13,357	15,132	18,682	20,458		24,009	3,062	24,009								
GH4x20-SR3	Start	9,264		Please consult factory	7,243	10,795	12,571	14,347	17,900	19,677	23,230	25,006	Exceeds MOP					3.7	6,177	9.7	27,494			
	Min.	4,139				3,083	4,962	5,898	6,831	8,697	9,629	11,492		12,423	2,512	13,727								
	End	6,480				4,461	8,010	9,785	11,560	15,110	16,885	20,436		22,211	3,396	24,697								
GH4x20-SR4	Start	7,632	4,747	6,522	8,298	11,850	13,627	15,403	18,955	20,732	24,285	26,062	Exceeds MOP					3.0	4,747	9.4	27,483			
	Min.	3,446	1,925	2,872	3,811	5,680	6,612	7,544	9,408	10,339	12,201	13,132		1,925	13,877									
	End	5,426	2,543	4,317	6,092	9,641	11,416	13,191	16,741	18,516	22,067	23,842		2,543	25,263									

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		3	3.5	4	5	5.5	6	7	7.5	8.5	9	10	10.5	11	12	12.5	13					13.5																
		Pressure Torque Output: Start/Min./End (Nm)																																				
GH5x24-SR0	Start	34,285																	Please consult factory	28,141	34,814	38,151	44,824	48,161	51,499	Exceeds MOP					7.1	25,472	11.6	55,503				
	Min.	14,329																11,083		14,659	16,433	19,966	21,729	23,488	9,634		25,597											
	End	21,108																		14,966	21,637	24,973	31,644	34,980	38,316		12,298	42,320										
GH5x24-SR1	Start	28,682																Please consult factory	21,296	27,968	31,304	37,977	41,314	47,987	51,324	54,661	Exceeds MOP					5.9	20,629	11.6	58,666			
	Min.	12,092															8,166		11,752	13,526	17,057	18,817	22,333	24,087	25,841	7,802		27,946										
	End	17,946																	10,562	17,232	20,567	27,238	30,573	37,245	40,581	43,917		9,895	47,920									
GH5x24-SR2	Start	25,701																Please consult factory	20,762	24,098	30,770	34,106	40,779	44,115	50,789	54,126	Exceeds MOP					5.3	19,427	11.6	61,468			
	Min.	10,558															7,932		9,735	13,294	15,062	18,585	20,343	23,854	25,608	27,362		7,202	29,465									
	End	15,145																	10,207	13,542	20,212	23,547	30,218	33,553	40,225	43,561		46,897	8,873	50,900								
GH5x24-SR3	Start	20,640																Please consult factory	19,844	23,180	26,515	33,188	36,524	43,197	46,533	53,207	56,544	59,881	Exceeds MOP					4.1	13,840	11.4	62,551	
	Min.	8,674															8,279		10,054	11,820	15,340	17,096	20,604	22,356	25,858	27,609	29,360	5,028		30,760								
	End	12,728																	11,933	15,267	18,602	25,272	28,607	35,278	38,613	45,285	48,621	51,957		5,931	54,626							
GH5x24-SR4	Start	17,187																Please consult factory	15,162	21,833	25,168	28,504	35,176	38,513	45,186	48,522	55,196	58,533	61,870	Exceeds MOP					3.6	12,493	11.1	62,537
	Min.	7,283															6,227		9,771	11,531	13,289	16,797	18,549	22,050	23,801	27,301	29,050	30,799	4,786		31,148							
	End	10,740																	8,715	15,384	18,718	22,053	28,723	32,058	38,729	42,064	48,736	52,072	55,408		6,047	56,075						

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			3	3.5	4	5	5.5	6	7	7.5	8.5	9	10	10.5	11	12					12.5	13	13.5
			Pressure Torque Output: Start/Min./End (Nm)																				
GH7x28-SR0	Start	69,922																	8.3	54,309	13.5	114,366	
	Min.	28,287																					51,995
	End	40,057																					84,490
GH7x28-SR1	Start	56,638																	6.8	43,356	13.5	120,732	
	Min.	23,338																					57,304
	End	33,693																					97,770
GH7x28-SR2	Start	49,977																	6.0	37,945	13.2	121,091	
	Min.	20,658																					58,280
	End	29,869																					100,965
GH7x28-SR3	Start	41,121																	4.9	30,338	12.8	121,560	
	Min.	17,094																					59,561
	End	24,781																					105,199
GH7x28-SR4	Start	34,460																	4.1	24,928	12.5	121,919	
	Min.	14,415																					60,519
	End	20,957																					108,395
GH7x32-SR0	Start	69,829																	6.3	53,513	10.8	121,469	
	Min.	28,262																					55,749
	End	39,964																					91,591
GH7x32-SR1	Start	56,546																	5.2	43,272	10.5	123,303	
	Min.	23,313																					58,666
	End	33,600																					100,341
GH7x32-SR2	Start	49,885																	4.6	38,038	10.1	121,086	
	Min.	20,634																					58,287
	End	29,777																					100,961
GH7x32-SR3	Start	41,028																	3.8	31,051	9.8	121,645	
	Min.	17,070																					59,615
	End	24,688																					105,285
GH7x32-SR4	Start	34,367																	3.2	25,819	9.5	120,939	
	Min.	14,390																					60,015
	End	20,865																					107,415

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		3	3.5	4	5	5.5	6	7	7.5	8.5	9	10	10.5	11	12	12.5					13	13.5																	
		Pressure Torque Output: Start/Min./End (Nm)																																					
GH8x32-SR0	Start	106,191																	8.2	79,230	13.8	179,060																	
	Min.	44,192																Please consult factory					84,577	93,489	111,313	120,226	129,139	146,967	155,881	164,796	173,711								
	End	64,908																					32,737	37,550	47,082	51,822	56,549	65,978	70,685	75,383	80,082								
GH8x32-SR1	Start	83,691																	6.5	57,527	13.8	187,653																	
	Min.	36,438																Please consult factory					43,298	52,208	70,030	78,942	87,853	105,678	114,591	123,505	132,419								
	End	56,316																					66,438	75,348	93,170	102,082	119,907	128,819	137,733	155,560	164,474	173,389	182,304						
GH8x32-SR2	Start	67,266																	5.2	43,006	13.8	196,297																	
	Min.	30,046																Please consult factory					27,389	32,143	41,591	46,300	55,696	60,385	65,073	74,447	79,127	83,807	88,487						
	End	47,674																					20,115	24,860	34,286	38,983	48,361	53,047	62,406	67,085	71,765	81,118	85,792	90,467	95,141				
GH8x32-SR3	Start	56,974																	4.4	36,016	13.4	196,428																	
	Min.	25,498																Please consult factory					20,155	24,876	29,581	38,965	43,652	53,011	57,691	67,045	71,719	76,394	85,742	90,416	95,091				
	End	40,411																					46,706	55,615	64,525	82,345	91,255	109,077	117,989	135,814	144,726	153,640	171,467	180,382	189,296				
GH8x36-SR0	Start	106,081																	6.4	78,016	11.7	198,138																	
	Min.	44,163																Please consult factory					36,556	42,631	54,687	60,689	72,657	78,630	84,603										
	End	64,799																					91,612	102,943	125,606	136,938	159,603	170,936	182,270	Exceeds MOP									
GH8x36-SR1	Start	83,581																	5.1	57,153	11.2	195,397																	
	Min.	36,409																Please consult factory					27,287	33,328	45,324	51,297	63,227	69,186	81,091	87,041	92,990								
	End	56,207																					38,844	50,172	72,829	84,158	106,817	118,147	140,809	152,141	163,473	Exceeds MOP							
GH8x36-SR2	Start	67,157																	4.1	43,140	10.8	194,973																	
	Min.	30,018																Please consult factory					28,201	34,186	40,157	52,075	58,025	69,922	75,871	87,755	93,697								
	End	47,564																					63,531	74,860	86,189	108,849	120,180	142,843	154,175	176,840	188,173	Exceeds MOP							
GH8x36-SR3	Start	56,864																	3.4	34,544	10.5	195,437																	
	Min.	25,469																Please consult factory					14,886	20,934	32,904	38,865	44,823	56,719	62,668	74,553	80,495	92,379	98,321						
	End	40,302																					20,251	31,577	54,230	65,557	76,885	99,542	110,871	133,530	144,861	167,523	178,854	Exceeds MOP					

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		3	3.5	4	5	5.5	6	7	7.5	8.5	9	10	10.5	11	12					12.5	13	13.5																
		Pressure Torque Output: Start/Min./End (Nm)																																				
GH10x40-SR1	Start	193,613																	Please consult factory	158,386	195,020	213,337	249,975	268,294	286,614	323,256	341,578	359,901	378,224	7.2	147,397	13.8	389,219					
	Min.	78,910																			60,132	79,897	89,679	109,141	118,838	128,520	147,849	157,505	167,158		176,793		54,104	182,573				
	End	113,068																				77,849	114,475	132,788	169,417	187,733	206,049	242,683	261,001		279,320		297,639	66,862	308,631			
GH10x40-SR2	Start	155,907																	Please consult factory	121,713	158,343	176,658	213,292	231,609	268,247	286,566	304,886	341,529	359,851	378,173	Exceeds MOP	118,050	13.4	392,832				
	Min.	64,786																			46,579	66,283	76,029	95,425	105,099	124,409	134,046	143,679	162,947	172,566		182,184		44,581	189,879			
	End	94,800																				60,613	97,235	115,546	152,172	170,486	207,115	225,430	243,746	280,381		298,699		317,017	56,951	331,673		
GH10x40-SR3	Start	142,129																	Please consult factory	118,812	137,126	173,756	192,072	228,705	247,023	283,660	301,980	320,300	356,942	375,264	393,587	Exceeds MOP	111,487	13.0	393,587			
	Min.	56,903																			44,436	54,386	73,982	83,706	103,084	112,744	132,048	141,681	151,315	170,579	180,197		189,814		40,398	189,814		
	End	79,389																				56,078	74,388	111,009	129,321	165,946	184,260	220,889	239,205	257,521	294,155		312,473		330,792	48,754	330,792	
GH10x40-SR4	Start	113,802																	Please consult factory	113,288	131,602	149,915	186,545	204,861	241,494	259,812	296,449	314,769	333,089	369,731	388,053	Exceeds MOP	80,326	12.5	388,053			
	Min.	46,602																			46,472	56,242	65,960	85,307	94,961	114,232	123,865	143,103	152,720	162,337	181,572		191,178		28,534	191,178		
	End	66,603																				66,090	84,399	102,709	139,331	157,643	194,268	212,582	249,211	267,527	285,843		322,477		340,795	33,135	340,795	
GH10x44-SR1	Start	193,460																	Please consult factory	150,418	194,904	217,147	261,637	283,883	328,377	350,625	372,873	Exceeds MOP		11.4	390,673							
	Min.	78,869																			55,794	79,858	91,730	115,341	127,097	150,566	162,290		173,997						55,794	183,355		
	End	112,915																				69,883	114,359	136,598	181,078	203,319	247,803		270,046		292,289					69,883	310,085	
GH10x44-SR2	Start	155,755																	Please consult factory	124,207	146,449	168,690	213,176	235,420	279,909	302,155	346,649	368,897	391,146	Exceeds MOP		11.0	391,146					
	Min.	64,745																			47,963	59,950	71,816	95,386	107,129	130,565	142,263	165,655	177,333		189,011						43,110	189,011
	End	94,647																				63,107	85,343	107,580	152,056	174,295	218,775	241,016	285,500		307,743		329,987					54,213
GH10x44-SR3	Start	141,977																	Please consult factory	139,621	161,862	184,104	228,589	250,833	295,323	317,569	362,062	384,310	Exceeds MOP		10.6	388,760						
	Min.	56,862																			55,758	67,675	79,504	103,045	114,774	138,201	149,898	173,285		184,963						41,229	187,299	
	End	79,237																				76,882	99,118	121,355	165,830	188,069	232,549	254,790		299,274		321,518					50,199	325,966
GH10x44-SR4	Start	113,649																	Please consult factory	85,691	107,930	152,410	174,651	196,893	241,378	263,622	308,112	330,358	374,852	Exceeds MOP		10.3	388,200					
	Min.	46,561																			31,547	43,626	67,308	79,063	90,785	114,193	125,890	149,245	160,923		184,275						31,547	191,273
	End	66,451																				38,499	60,733	105,203	127,440	149,676	194,152	216,391	260,871		283,112		327,596					38,499

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

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