

Bettis G01-Extension Series

Extension Pneumatic Double-Acting & Spring-Return Actuator Torque Chart Imperial

BETTIS™



Torque - Pneumatic Double-Acting Actuator

Actuator Model	Stroke Direction Start/Min./End		Operating Pressure, (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)	
			40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200
			Pressure Torque Output: Start/Min./End (lbf-in)																				
G01x05	Start	Outboard	2,884	3,689	4,495	5,301	6,107	6,914	7,720	8,527	9,334	10,141	10,949	11,756	12,564	13,372	14,180	14,989	15,797	40	2,884	200	15,797
	Min		1,610	2,034	2,459	2,884	3,308	3,733	4,158	4,583	5,008	5,433	5,858	6,283	6,708	7,133	7,559	7,984	8,409		1,610		8,409
	End		2,881	3,686	4,491	5,296	6,101	6,907	7,713	8,519	9,325	10,131	10,938	11,745	12,552	13,359	14,166	14,974	15,782		2,881		15,782
	Start	Inboard	2,751	3,523	4,295	5,068	5,841	6,614	7,388	8,161	8,935	9,709	10,483	11,257	12,032	12,807	13,581	14,357	15,132		2,751		15,132
	Min		1,540	1,947	2,355	2,762	3,169	3,577	3,984	4,391	4,799	5,207	5,614	6,022	6,430	6,838	7,245	7,653	8,061		1,540		8,061
	End		2,748	3,519	4,291	5,063	5,835	6,608	7,380	8,153	8,926	9,699	10,473	11,246	12,020	12,794	13,568	14,343	15,117		2,748		15,117
G01x07	Start	Outboard	5,951	7,552	9,154	10,756	12,358	13,961	15,564	17,167	18,770	20,374	21,978	23,582	25,186	26,791	28,396	Exceeds MOP	5,951	185	29,199		
	Min		3,249	4,091	4,933	5,775	6,617	7,459	8,302	9,144	9,987	10,829	11,672	12,515	13,357	14,200	15,043		3,249		15,465		
	End		5,945	7,545	9,145	10,745	12,346	13,947	15,548	17,150	18,752	20,354	21,956	23,559	25,161	26,765	28,368		5,945		29,170		
	Start	Inboard	5,818	7,386	8,954	10,523	12,092	13,661	15,231	16,801	18,371	19,941	21,512	23,083	24,654	26,226	27,797		5,818		28,583		
	Min		3,179	4,004	4,829	5,653	6,478	7,303	8,128	8,953	9,778	10,603	11,428	12,254	13,079	13,904	14,730		3,179		15,143		
	End		5,812	7,379	8,945	10,513	12,080	13,648	15,216	16,784	18,353	19,922	21,491	23,060	24,630	26,200	27,770		5,812		28,555		

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

Torque - Pneumatic Spring-Return Actuator

Actuator Model	Spring Torque Start/(Min./End (lbf-in)	Operating Pressure, (psig)																MinOP (psig)	Torque @ MinOP (lbf-in)	MOP (psig)	Torque @ MOP (lbf-in)						
		40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190					200					
		Pressure Torque Output: Start/(Min./End (lbf-in)																									
G01x07-SR1	Start	18,264																	Please consult factory	10,455	11,978	Exceeds MOP	166	9,845	185	12,739	
	Min.	8,650																4,607		5,416	4,282						5,820
	End	14,507																		6,706	8,228						6,097
G01x07-SR2	Start	15,282																	Please consult factory	7,647	9,169	Exceeds MOP	140	7,647	185	14,499	
	Min.	7,427																3,473		4,280	3,473						7,092
	End	12,749																		5,121	6,642						5,121
G01x07-SR3	Start	13,329																	Please consult factory	7,737	9,259	Exceeds MOP	122	6,519	185	16,111	
	Min.	6,498																3,617		4,421	2,971						8,031
	End	11,139																		5,552	7,072						4,335
G01x07-SR4	Start	11,322																	Please consult factory	6,141	7,662	Exceeds MOP	104	5,228	185	17,559	
	Min.	5,601																2,930		3,733	2,446						8,940
	End	9,693																		4,516	6,036						3,604
G01x07-SR5	Start	10,627																	Please consult factory	7,276	8,797	Exceeds MOP	98	6,972	185	20,215	
	Min.	4,676																2,932		3,752	2,767						9,794
	End	7,039																		3,691	5,210						3,387
G01x08-SR5	Start	10,544																	Please consult factory	7,821	9,801	Exceeds MOP	76	7,029	192	30,013	
	Min.	4,654																3,247		4,307	2,818						14,965
	End	6,956																		4,236	6,213						3,444
G01x09-SR5	Start	10,485																	Please consult factory	7,082	9,608	Exceeds MOP	59	2,721	200	42,476	
	Min.	4,638																2,858		4,215	2,245						21,518
	End	6,896																		3,497	6,020						3,245
G01x10-SR5	Start	10,413																	Please consult factory	8,622	11,974	Exceeds MOP	45	6,945	166	47,541	
	Min.	4,619																3,702		5,485	2,798						24,184
	End	6,824																		5,035	8,385						3,360
G01x12-SR5	Start	10,301	10,993	15,805	20,617	25,429	30,243	35,056	39,870	44,685									Exceeds MOP			Exceeds MOP	31	6,663	116	47,574	
	Min.	4,589	4,988	7,530	10,063	12,592	15,120	17,647	20,173	22,700								2,670			2,670						24,216
	End	6,712	7,404	12,211	17,018	21,826	26,635	31,443	36,253	41,063								3,078			3,078						43,949
G01x14-SR5	Start	10,211	15,069	20,923	26,777	32,631	38,486	44,342											Exceeds MOP			Exceeds MOP	26	6,875	91	44,927	
	Min.	4,566	7,164	10,245	13,321	16,394	19,467	22,540										2,809			2,809						22,847
	End	6,623	11,476	17,324	23,172	29,021	34,870	40,720										3,291			3,291						41,305
G01x05-SR6	Start	7,865																	Please consult factory	5,387	6,137	Exceeds MOP	147	5,161	200	9,141	
	Min.	3,456																2,180		2,586	2,057						4,189
	End	5,191																2,715		3,465	2,490						6,466
G01x07-SR6	Start	7,753																	Please consult factory	6,196	7,716	Exceeds MOP	73	5,131	185	22,177	
	Min.	3,426																2,634		3,446	2,058						11,073
	End	5,079																3,523		5,043	2,460						19,489
G01x08-SR6	Start	7,670																	Please consult factory	5,824	7,803	Exceeds MOP	56	5,033	192	31,975	
	Min.	3,404																2,454		3,512	2,024						16,239
	End	4,996																3,152		5,129	2,361						29,277

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

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