

Data sheet

Sheet No.: GHM 1.01 RevA

Date: September 2009















G-Series



Torque Ratings – (Hydraulic)

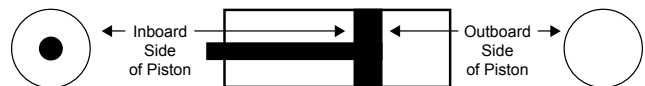
All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

G-Series

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)													
			35	50	65	80	100	140	175	200	250	275	300	340		
			Pressure Torque Output Start/Min./End (Nm)													
G01101.5	Start/End Minimum									2167	2476	3095	3405	3714	4209	
										1143	1307	1633	1797	1960	2222	
	Start/End Minimum									1429	1633	2042	2246	2450	2777	
										754	862	1078	1185	1293	1466	
G01101.7	Start/End Minimum							1685	2359	2949	3370	4213				
								889	1245	1556	1779	2223				
	Start/End Minimum							1135	1589	1986	2270	2837	3121	3405	3858	
								599	839	1048	1198	1497	1647	1797	2036	
G01102.0	Start/End Minimum					1761	2201	3081	3852	4402						
						929	1162	1626	2033	2323						
	Start/End Minimum					1321	1651	2311	2889	3301	4127					
						697	871	1220	1525	1742	2178					
G01102.2	Start/End Minimum			1393	1811	2228	2786	3900								
				735	956	1176	1470	2058								
	Start/End Minimum			1118	1453	788	2235	3129	3912	4471						
				590	767	944	1180	1652	2065	2359						
G01102.5	Start/End Minimum			1719	2235	2751	3439									
				907	1180	1452	1815									
	Start/End Minimum			1444	1878	2311	2889	4044								
				762	991	1220	1525	2134								
G01103.0	Start/End Minimum		1733	2476	3219	3962										
			915	1307	1699	2091										
	Start/End Minimum		1541	2201	2861	3521	4402									
			813	1162	1510	1859	2323									
G01103.5	Start/End Minimum		2359	3370	4381											
			1245	1779	2312											
	Start/End Minimum		2167	3095	4024											
			1143	1633	2124											
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)													
			35	50	65	80	100	140	175	200	250	275	300	340		
			Operating Pressure (Bar)													

- NOTE:
-  Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.
 -  Standard configuration produces counterclockwise rotation when the outboard side of piston is pressurized. Outboard side of piston equals > torque.



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Data sheet

Sheet No.: GHM 1.02 RevA

Date: September 2009

G-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

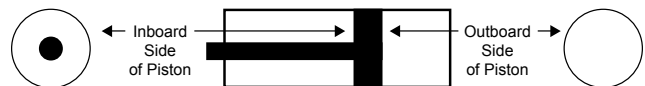
Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Pressure Torque Output Start/Min./End (Nm)											
G2101.7	Start/End Minimum						2040	2856	3570	4080	5100	5609	6119	
	Start/End Minimum						1077	1507	1884	2153	2691	2961	3230	
G2102.0	Start/End Minimum				1732	2131	2664	3730	4662	5328	6661			
	Start/End Minimum				914	1125	1406	1969	2461	2812	3515			
G2102.2	Start/End Minimum				1299	1599	1998	2797	3497	3996	4995	5495	5995	6794
	Start/End Minimum				685	844	1055	1476	1846	2109	2636	2900	3164	3586
G2102.5	Start/End Minimum			1686	2192	2698	3372	4721	5901	6744				
	Start/End Minimum			890	1157	1424	1780	2491	3114	3559				
G2103.0	Start/End Minimum			1353	1759	2165	2706	3788	4735	5412	6765			
	Start/End Minimum			714	928	1142	1428	1999	2499	2856	3570			
G2103.5	Start/End Minimum			2081	2706	3330	4163	5828						
	Start/End Minimum			1099	1428	1758	2197	3076						
G2104.0	Start/End Minimum			1748	2273	2797	3497	4896	6119					
	Start/End Minimum			923	1200	1476	1846	2584	3230					
G2103.0	Start/End Minimum		2098	2997	3896	4796	5995							
	Start/End Minimum		1107	1582	2056	2531	3164							
G2103.5	Start/End Minimum		1865	2664	3464	4263	5328							
	Start/End Minimum		984	1406	1828	2250	2812							
G2103.5	Start/End Minimum		2856	4080	5304	6527								
	Start/End Minimum		1507	2153	2799	3445								
G2104.0	Start/End Minimum		2623	3747	4871	5995								
	Start/End Minimum		1384	1977	2571	3164								
G2104.0	Start/End Minimum		3730	5328										
	Start/End Minimum		1969	2812										
G2104.0	Start/End Minimum		3497	4995	6494									
	Start/End Minimum		1846	2636	3427									
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Operating Pressure (Bar)											

NOTE:

- Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.
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Data sheet

Sheet No.: GHM 1.03 RevA

Date: September 2009

G-Series

Torque Ratings – (Hydraulic)

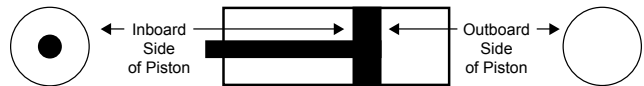
All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Pressure Torque Output Start/Min./End (Nm)											
G3102.0	Start/End Minimum					2595	3243	4541	5676	6487	8109	8919	9730	11028
	Minimum				1369	1712	2397	2996	3424	4280	4707	5135	5820	
G3102.0	Start/End Minimum					1581	1976	2767	3459	3953	4941	5435	5929	6720
	Minimum				835	1043	1460	1825	2086	2608	2869	3129	3547	
G3102.2	Start/End Minimum					3284	4105	5747	7184	8210	10262			
	Minimum				1733	2167	3033	3791	4333	5416				
G3102.2	Start/End Minimum					2270	2838	3973	4967	5676	7095	7805	8514	9649
	Minimum				1198	1498	2097	2621	2996	3745	4119	4494	5093	
G3102.5	Start/End Minimum				3294	4054	5068	7095	8869	10136				
	Minimum				1739	2140	2675	3745	4681	5349				
G3102.5	Start/End Minimum				2471	3041	3801	5321	6652	7602	9502	10452	11403	
	Minimum				1304	1605	2006	2808	3511	4012	5015	5517	6018	
G3103.0	Start/End Minimum			3649	4744	5838	7298	10217						
	Minimum			1926	2504	3081	3852	5392						
G3103.0	Start/End Minimum			3015	3920	4825	6031	8443	10554					
	Minimum			1591	2069	2546	3183	4456	5570					
G3103.5	Start/End Minimum		3477	4967	6456	7946	9933							
	Minimum		1835	2621	3408	4194	5242							
G3103.5	Start/End Minimum		3033	4333	5633	6933	8666							
	Minimum		1601	2287	2973	3659	4574							
G3104.0	Start/End Minimum		4541	6487	8433	10379								
	Minimum		2397	3424	4451	5478								
G3104.0	Start/End Minimum		4097	5853	7609	9365	11707							
	Minimum		2163	3089	4016	4943	6179							
G3104.5	Start/End Minimum		5747	8210	10673									
	Minimum		3033	4333	5633									
G3104.5	Start/End Minimum		5304	7576	9849									
	Minimum		2799	3999	5198									
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Operating Pressure (Bar)											

- NOTE:
- Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.
 - Standard configuration produces counterclockwise rotation when the outboard side of piston is pressurized. Outboard side of piston equals > torque.



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Sheet No.: GHM 1.04 RevA

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G-Series

Torque Ratings – (Hydraulic)

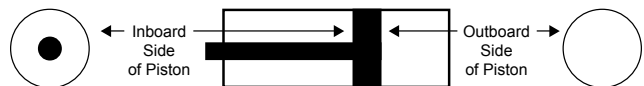
All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Pressure Torque Output Start/Min./End (Nm)											
G4102.5	Start/End Minimum					4923	6154	8615	10769	12308	15385	16923	18462	20923
						2598	3248	4547	5684	6496	8120	8932	9744	11043
	Start/End Minimum					3151	3938	5514	6892	7877	9846	10831	11815	13391
						1663	2079	2910	3638	4157	5197	5716	6236	7067
G4103.0	Start/End Minimum				5760	7089	8862	12406	15508	17723	22154			
					3040	3742	4677	6548	8185	9354	11692			
	Start/End Minimum				4320	5317	6646	9305	11631	13292	16615	18277	19938	22597
					2280	2806	3508	4911	6138	7015	8769	9646	10523	11926
G4103.5	Start/End Minimum			6031	7840	9649	12062	16886	21108					
				3183	4138	5093	6366	8912	11140					
	Start/End Minimum			4923	6400	7877	9846	13785	17231	19692				
				2598	3378	4157	5197	7275	9094	10393				
G4104.0	Start/End Minimum		5514	7877	10240	12603	15754	22055						
			2910	4157	5404	6652	8315	11640						
	Start/End Minimum		4738	6769	8800	10831	13538	18954	23692					
			2501	3573	4644	5716	7145	10003	12504					
G4104.5	Start/End Minimum		6978	9969	12960	15951	19938							
			3683	5262	6840	8418	10523							
	Start/End Minimum		6203	8862	11520	14178	17723							
			3274	4677	6080	7483	9354							
G4105.0	Start/End Minimum		8615	12308	16000	19692								
			4547	6496	8444	10393								
	Start/End Minimum		7840	11200	14560	17920	22400							
			4138	5911	7684	9458	11822							
G4106.0	Start/End Minimum		12406	17723	23040									
			6548	9354	12160									
	Start/End Minimum		11631	16615	21600									
			6138	8769	11400									
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Operating Pressure (Bar)											

- NOTE:
- Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.
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Sheet No.: GHM 1.05 RevA

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G-Series

Torque Ratings – (Hydraulic)

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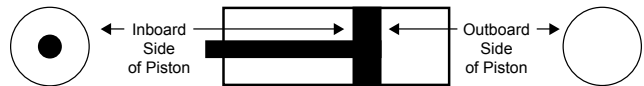
Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Pressure Torque Output Start/Min./End (Nm)											
G5103.5	Start/End Minimum					12487	15609	21853	27316	31218	39023	42925	46827	53071
						6590	8238	11533	14417	16476	20595	22655	24714	28010
	Start/End Minimum					8410	10512	14717	18396	21024	26280	28909	31537	35741
						4438	5548	7767	9709	11096	13870	15257	16644	18864
G5104.0	Start/End Minimum				13252	16310	20387	28542	35678	40775	50968			
					6994	8608	10760	15064	18830	21520	26900			
	Start/End Minimum				9939	12232	15290	21407	26758	30581	38226	42049	45871	51988
					5245	6456	8070	11298	14122	16140	20175	22192	24210	27438
G5104.5	Start/End Minimum			12901	16772	20642	25803	36124	45155	51605				
				6809	8852	10894	13618	19065	23832	27236				
	Start/End Minimum			10353	13459	16565	20706	28988	36235	41412	51765			
				5464	7103	8742	10928	15299	19124	21856	27320			
G5105.0	Start/End Minimum		11149	15928	20706	25484	31855	44597						
			5884	8406	10928	13450	16812	23537						
	Start/End Minimum		9365	13379	17393	21407	26758	37462	46827	53517				
			4943	7061	9180	11298	14122	19771	24714	28245				
G5106.0	Start/End Minimum		16055	22936	29816	36697	45871							
			8473	12105	15736	19368	24210							
	Start/End Minimum		14271	20387	26503	32620	40775							
			7532	10760	13988	17216	21520							
G5107.0	Start/End Minimum		21853	31218	40583	49949								
			11533	16476	21419	26362								
	Start/End Minimum		20069	28670	37271	45871								
			10592	15131	19671	24210								
G5108.0	Start/End Minimum		28542	40775	53007									
			15064	21520	27976									
	Start/End Minimum		26758	38226	49694									
			14122	20175	26227									
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Operating Pressure (Bar)											

NOTE:

- Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.
- Standard configuration produces counterclockwise rotation when the outboard side of piston is pressurized. Outboard side of piston equals > torque.



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Sheet No.: GHM 1.06 RevA

Date: September 2009

G-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

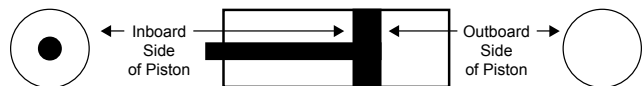
Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Pressure Torque Output Start/Min./End (Nm)											
G7104.0	Start/End Minimum						25021	35029	43786	50042	62552	68807	75062	85071
							13205	18488	23109	26411	33014	36315	39616	44898
	Start/End Minimum						17104	23946	29932	34208	42760	47036	51312	58154
							9027	12638	15797	18054	22568	24825	27081	30692
G7104.5	Start/End Minimum					25334	31667	44334	55417	63334	79167	87084	95001	
						13370	16713	23398	29248	33426	41783	45961	50139	
	Start/End Minimum					19000	23750	33250	41563	47500	59375	65313	71251	80751
						10028	12535	17549	21936	25070	31337	34471	37604	42618
G7105.0	Start/End Minimum					31276	39095	54733	68416	78190	97737			
						16507	20633	28887	36109	41267	51584			
	Start/End Minimum					24943	31178	43650	54562	62356	77946	85740	93535	
						13164	16455	23037	28797	32910	41138	45252	49366	
G7106.0	Start/End Minimum			28148	36593	45037	56297	78815	98519					
				14856	19313	23770	29712	41597	51996					
	Start/End Minimum			24190	31447	38704	48380	67732	84665	96760				
				12767	16597	20427	25534	35747	44684	51068				
G7107.0	Start/End Minimum		26819	38313	49807	61301	76626							
			14155	20221	26287	32353	40442							
	Start/End Minimum		24048	34355	44661	54968	68709	96193						
			12692	18132	23571	29011	36263	50769						
G7108.0	Start/End Minimum		35029	50042	65054	80066	100083							
			18488	26411	34334	42257	52822							
	Start/End Minimum		32258	46083	59908	73733	92166							
			17025	24322	31618	38915	48643							
G7109.0	Start/End Minimum		44334	63334	82334	101334								
			23398	33426	43454	53482								
	Start/End Minimum		41563	59375	77188	95001								
			21936	31337	40738	50139								
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Operating Pressure (Bar)											

NOTE: Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.

Standard configuration produces counterclockwise rotation when the outboard side of piston is pressurized. Outboard side of piston equals > torque.



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Sheet No.: GHM 1.07 RevA

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G-Series

Torque Ratings – (Hydraulic)

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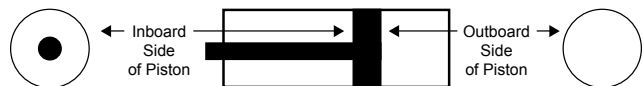
Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)												
			35	50	65	80	100	140	175	200	250	275	300	340	
			Pressure Torque Output Start/Min./End (Nm)												
G7110.0	Start/End Minimum		54733	78190	101647										
			28887	41267	53647										
	Start/End Minimum		51962	74232	96501										
			27424	39178	50931										
G8105.0	Start/End Minimum							64869	81086	92670	115837	127421	139004	157538	
								34236	42795	48909	61136	67250	73363	83145	
	Start/End Minimum							45246	56557	64637	80796	88876	96955	109883	
								23880	29850	34114	42642	46907	51171	57994	
G8106.0	Start/End Minimum					53378	66722	93411	116764	133444	166805				
						28172	35214	49300	61625	70429	88036				
	Start/End Minimum					42165	52706	73788	92235	105412	131764	144941	158117		
						22254	27817	38944	48680	55634	69542	76497	83451		
G8107.0	Start/End Minimum				59030	72653	90816	127143	158928						
					31155	38345	47931	67103	83879						
	Start/End Minimum				49920	61440	76800	107520	134400	153600					
					26347	32427	40533	56747	70933	81067					
G8108.0	Start/End Minimum			59308	77101	94894	118617	166064							
				31302	40692	50083	62603	87645							
	Start/End Minimum			52300	67990	83681	104601	146441							
				27603	35884	44165	55206	77288							
G8109.0	Start/End Minimum		52544	75062	97581	120100	150125								
			27731	39616	51501	63386	79232								
	Start/End Minimum		47638	68054	88470	108887	136108								
			25142	35917	46693	57468	71835								
G8110.0	Start/End Minimum		64869	92670	120470	148271									
			34236	48909	63582	78254									
	Start/End Minimum		59963	85661	111360	137058									
			31647	45210	58773	72336									
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)												
			35	50	65	80	100	140	175	200	250	275	300	340	
			Operating Pressure (Bar)												

NOTE: Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.

Standard configuration produces counterclockwise rotation when the outboard side of piston is pressurized. Outboard side of piston equals > torque.



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Sheet No.: GHM 1.08 RevA

Date: September 2009

G-Series

Torque Ratings – (Hydraulic)

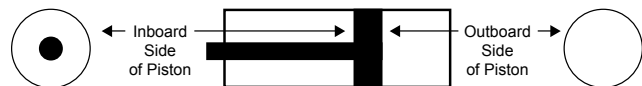
All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Pressure Torque Output Start/Min./End (Nm)											
G8112.0	Start/End Minimum		93411	133444										
			49300	70429										
	Start/End Minimum		88505	126436	164367									
			46711	66730	86749									
G10106.0	Start/End Minimum							122602	153252	175145	218932	240825	262718	297747
								64706	80883	92438	115547	127102	138657	157144
	Start/End Minimum							86630	108288	123757	154697	170166	185636	210387
								45721	57152	65316	81645	89810	97974	111038
G10107.0	Start/End Minimum					95357	119196	166875	208593	238392	297990	327789		
						50327	62909	88073	110091	125818	157273	173000		
	Start/End Minimum					74802	93502	130903	163629	187004	233755	257131	280506	317907
						39479	49348	69088	86360	98697	123371	135708	148045	167784
G10108.0	Start/End Minimum				101195	124548	155685	217959	272448	311370				
					53409	65734	82167	115034	143792	164334				
	Start/End Minimum				84494	103993	129991	181987	227484	259981	324977			
					44594	54885	68606	96049	120061	137212	171516			
G10109.0	Start/End Minimum			98519	128075	157631	197039	275854						
				51996	67595	83194	103993	145590						
	Start/End Minimum			85672	111374	137076	171345	239882	299853					
				45216	58781	72345	90432	126605	158256					
G10110.0	Start/End Minimum			121629	158117	194606	243258							
				64193	83451	102709	128386							
	Start/End Minimum			108782	141416	174051	217563	304589						
				57413	74636	91860	114825	160755						
G10112.0	Start/End Minimum		122602	175145	227689	280233								
			64706	92438	120169	147901								
	Start/End Minimum		113609	162298	210988	259677	324597							
			59960	85657	111355	137052	171315							
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Operating Pressure (Bar)											

- NOTE:
- Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.
 - Standard configuration produces counterclockwise rotation when the outboard side of piston is pressurized. Outboard side of piston equals > torque.



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G-Series

Torque Ratings – (Hydraulic)

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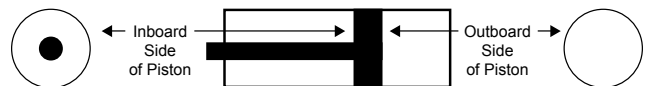
Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Pressure Torque Output Start/Min./End (Nm)											
G10114.0	Start/End Minimum		166875	238392	309910									
			88073	125818	163564									
	Start/End Minimum		157882	225545	293209									
			83326	119038	154749									
G13108.0	Start/End Minimum						200166	280233	350291	400332	500415	550457	600499	
							105643	147901	184876	211287	264108	290519	316930	
	Start/End Minimum						150125	210174	262718	300249	375312	412843	450374	510424
							79232	110925	138657	158465	198081	217889	237697	269390
G13109.0	Start/End Minimum					202668	253335	354669	443337	506671	633338			
						106964	133705	187187	233983	267410	334262			
	Start/End Minimum					162635	203294	284611	355764	406588	508234	559058	609881	
						85835	107294	150212	187764	214588	268235	295058	321882	
G13110.0	Start/End Minimum				203294	250208	312760	437864	547329	625519				
					107294	132054	165068	231095	288868	330135				
	Start/End Minimum				170767	210174	262718	367805	459757	525436	656795			
					90127	110925	138657	194119	242649	277314	346642			
G13111.0	Start/End Minimum				245985	302751	378439	529815	662269					
					129826	159785	199732	279625	349531					
	Start/End Minimum				213458	262718	328398	459757	574696	656795				
					112659	138657	173321	242649	303312	346642				
G13112.0	Start/End Minimum			225187	292743	360299	450374	630523						
				118849	154503	190158	237697	332776						
	Start/End Minimum				200166	260216	320266	400332	560465					
					105643	137336	169029	211287	295801					
G13114.0	Start/End Minimum			306504	398456	490407	613009							
				161766	210296	258826	323532							
	Start/End Minimum				281484	365929	450374	562967						
					148561	193129	237697	297122						
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)											
			35	50	65	80	100	140	175	200	250	275	300	340
			Operating Pressure (Bar)											

NOTE:

- Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.
- Standard configuration produces counterclockwise rotation when the outboard side of piston is pressurized. Outboard side of piston equals > torque.



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G-Series

Torque Ratings – (Hydraulic)

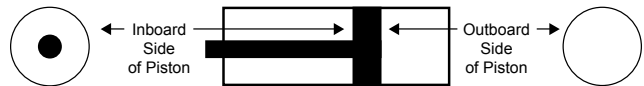
All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

G-Series (cont.)

Actuator Model	See Bettis' Definitions	Direction of Rotation	Operating Pressure (Bar)																
			35	50	65	80	100	140	175	200	250	275	300	340					
			Pressure Torque Output Start/Min./End (Nm)																
G13116.0	Start/End Minimum		280233	400332	520432	640532													
			147901	211287	274672	338058													
	Start/End Minimum		262718	375312	487905	600499													
			138657	198081	257505	316930													
G13108.0	Start/End Minimum		354669	506671	658672														
			187187	267410	347632														
	Start/End Minimum		337155	481650	626145														
			177943	254204	330465														
Actuator Model	See Bettis' Definitions	Direction of Rotation	Pressure Torque Output Start/Min./End (Nm)																
			35	50	65	80	100	140	175	200	250	275	300	340					
			Operating Pressure (Bar)																

- NOTE:
- Standard configuration produces clockwise rotation when the inboard side of piston is pressurized. Inboard side of piston equals < torque.
 - Standard configuration produces counterclockwise rotation when the outboard side of piston is pressurized. Outboard side of piston equals > torque.



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