

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																					
G01x08-SR0	Start	2,748													1,491	1,654	1,818	1,981	2,145	2,309	2,472	11.7	13.2	
	Min	1,233													579	667	754	841	928	1,014	1,100			
	End	1,971													723	885	1,048	1,210	1,373	1,536	1,698			
G01x09-SR0	Start	2,741												1,642	2,059	2,476	2,685	2,893	3,102	3,311	3,519	3,728	9.1	13.8
	Min	1,232												661	883	1,103	1,213	1,323	1,432	1,541	1,651	1,760		
	End	1,964												873	1,287	1,702	1,910	2,117	2,325	2,532	2,740	2,947		
G01x10-SR0	Start	2,733									1,755	2,309	2,862	3,416	3,970	4,247	4,524						6.9	11.4
	Min	1,230									723	1,016	1,307	1,597	1,887	2,032	2,176							
	End	1,956									985	1,536	2,086	2,637	3,187	3,463	3,738							
G01x12-SR0	Start	2,720							1,839	2,633	3,428	4,222											4.8	8.0
	Min	1,226							770	1,189	1,605	2,020												
	End	1,944							1,069	1,859	2,648	3,438												
G01x14-SR0	Start	2,710							1,723	2,688	3,654	4,620											3.9	6.3
	Min	1,224							710	1,220	1,726	2,231												
	End	1,933							953	1,913	2,873	3,834												
G01x08-SR1	Start	2,068												1,178	1,504	1,831	1,995	2,158	2,322	2,486	2,649	2,813	8.8	13.2
	Min	975												516	689	860	946	1,032	1,117	1,203	1,288	1,374		
	End	1,633												748	1,073	1,398	1,560	1,723	1,886	2,048	2,211	2,373		
G01x09-SR1	Start	2,062									1,148	1,565	1,982	2,399	2,817	3,025	3,234	3,443	3,651	3,860	4,069		6.9	13.8
	Min	973									502	722	940	1,159	1,377	1,485	1,594	1,703	1,812	1,921	2,030			
	End	1,626									719	1,133	1,548	1,963	2,377	2,585	2,792	3,000	3,207	3,415	3,622			
G01x10-SR1	Start	2,053							989	1,542	2,096	2,649	3,203	3,756	4,310	4,587	4,864						5.2	11.4
	Min	971							419	711	1,001	1,290	1,579	1,868	2,157	2,301	2,446							
	End	1,618							560	1,110	1,661	2,211	2,761	3,312	3,862	4,138	4,413							
G01x12-SR1	Start	2,041						989	1,386	2,180	2,974	3,768	4,562										3.7	8.0
	Min	968						421	631	1,047	1,462	1,876	2,290											
	End	1,605						560	955	1,744	2,534	3,323	4,113											
G01x14-SR1	Start	2,031				1,097	1,580	2,063	3,029	3,995	4,961												3.0	6.3
	Min	965				481	735	988	1,493	1,996	2,500													
	End	1,595				668	1,148	1,628	2,588	3,549	4,509													

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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																							
G01x08-SR2	Start	1,729												724	1,051	1,378	1,705	2,032	2,195	2,359	2,522	2,686	2,849	3,013	7.4	13.2
	Min	837												318	490	661	832	1,003	1,089	1,174	1,259	1,345	1,430	1,515		
	End	1,434													435	760	1,085	1,410	1,735	1,897	2,060	2,223	2,385	2,548		
G01x09-SR2	Start	1,723								932	1,349	1,766	2,183	2,600	3,017	3,225	3,434	3,643	3,851	4,060	4,269	5.8	13.8			
	Min	835								428	647	865	1,083	1,301	1,518	1,627	1,736	1,845	1,954	2,063	2,171					
	End	1,427									641	1,056	1,470	1,885	2,300	2,715	2,922	3,129	3,337	3,544	3,752			3,959		
G01x10-SR2	Start	1,714							1,189	1,743	2,296	2,849	3,403	3,957	4,510	4,787	5,064	4.4	11.4							
	Min	833							565	854	1,143	1,432	1,721	2,009	2,298	2,442	2,587									
	End	1,419								897	1,448	1,998	2,548	3,098	3,649	4,200	4,475			4,750						
G01x12-SR2	Start	1,702				792	1,189	1,586	2,380	3,174	3,968	4,762	3.0	8.0												
	Min	829				359	567	775	1,189	1,603	2,017	2,431														
	End	1,406				503	897	1,292	2,081	2,871	3,660	4,450														
G01x14-SR2	Start	1,691			815	1,298	1,780	2,263	3,229	4,195	5,161	2.5	6.3													
	Min	827			373	626	879	1,131	1,634	2,138	2,641															
	End	1,396			525	1,005	1,485	1,965	2,925	3,886	4,846															
G01x08-SR3	Start	1,507												908	1,234	1,561	1,888	2,215	2,378	2,542	2,705	2,869	3,033	3,196	6.5	13.2
	Min	732												425	596	767	938	1,109	1,194	1,280	1,365	1,450	1,536	1,621		
	End	1,251													656	981	1,306	1,631	1,956	2,118	2,281	2,444	2,606	2,769		
G01x09-SR3	Start	1,500							698	1,115	1,532	1,949	2,366	2,783	3,200	3,409	3,617	3,826	4,035	4,243	4,452	5.1	13.8			
	Min	730							316	535	753	971	1,189	1,406	1,624	1,733	1,842	1,950	2,059	2,168	2,277					
	End	1,245								448	862	1,277	1,691	2,106	2,521	2,935	3,143	3,350	3,558	3,765	3,973			4,180		
G01x10-SR3	Start	1,492						819	1,373	1,926	2,479	3,033	3,586	4,140	4,694	4,971	5,248	3.9	11.4							
	Min	728						382	671	960	1,249	1,538	1,826	2,115	2,404	2,548	2,692									
	End	1,236							568	1,118	1,668	2,219	2,769	3,319	3,870	4,420	4,696			4,971						
G01x12-SR3	Start	1,479				976	1,373	1,769	2,563	3,357	4,152	4,946	2.7	8.0												
	Min	724				466	674	881	1,295	1,709	2,123	2,537														
	End	1,224				724	1,118	1,513	2,302	3,092	3,881	4,671														
G01x14-SR3	Start	1,469			998	1,481	1,964	2,447	3,412	4,378	5,344	2.2	6.3													
	Min	722			480	733	985	1,236	1,740	2,243	2,746															
	End	1,214			746	1,226	1,706	2,186	3,146	4,107	5,067															

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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																				
G01x08-SR4	Start	1,279								746	1,072	1,399	1,726	2,053	2,380	2,543	2,707	2,870	3,034	3,197	3,361	5.5	13.2
	Min	630								358	529	700	870	1,041	1,212	1,297	1,382	1,468	1,553	1,638	1,724		
	End	1,088									558	883	1,208	1,533	1,858	2,183	2,345	2,508	2,670	2,833	2,996		
G01x09-SR4	Start	1,272					446	863	1,280	1,697	2,114	2,531	2,948	3,365	3,573	3,782	3,991	4,199	4,408	4,617	4.1	13.8	
	Min	629					201	421	639	856	1,074	1,291	1,509	1,726	1,835	1,944	2,053	2,162	2,270	2,379			
	End	1,081					261	675	1,089	1,504	1,918	2,333	2,748	3,162	3,370	3,577	3,785	3,992	4,200	4,407			
G01x10-SR4	Start	1,264				708	984	1,537	2,091	2,644	3,197	3,751	4,305	4,858	5,135	5,412	3.3	11.4					
	Min	626				341	485	774	1,063	1,352	1,640	1,929	2,217	2,506	2,650	2,794							
	End	1,073				520	795	1,345	1,895	2,446	2,996	3,546	4,097	4,647	4,923	5,198							
G01x12-SR4	Start	1,251		743	1,140	1,537	1,934	2,728	3,522	4,316	5,110	2.3	8.0										
	Min	623		362	570	777	984	1,398	1,811	2,225	2,639												
	End	1,060		556	951	1,345	1,740	2,529	3,319	4,108	4,898												
G01x14-SR4	Start	1,241	680	1,163	1,646	2,128	2,611	3,577	4,543	5,509	1.9	6.3											
	Min	620	331	584	836	1,087	1,339	1,842	2,345	2,849													
	End	1,050	493	973	1,453	1,933	2,413	3,373	4,334	5,294													

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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																						
G2x09-SR1	Start	3,554													2,161	2,666	2,918	3,171	3,423	3,676	3,929		9.7	12.9	
	Min	1,642													923	1,189	1,322	1,455	1,587	1,720	1,852				
	End	2,706													1,322	1,824	2,075	2,327	2,578	2,829	3,080				
G2x10-SR1	Start	3,544										1,794	2,463	3,133	3,803									7.4	9.7
	Min	1,639										728	1,084	1,436	1,787										
	End	2,696										957	1,623	2,289	2,955										
G2x12-SR1	Start	3,529							1,895	2,856	3,817													5.1	6.9
	Min	1,635							785	1,293	1,797														
	End	2,681							1,058	2,013	2,969														
G2x14-SR1	Start	3,516						1,754	2,923	4,092														4.1	5.6
	Min	1,632						713	1,331	1,943															
	End	2,669						918	2,080	3,242															
G2x16-SR1	Start	3,501				1,695	2,466	3,238	4,782															3.2	4.2
	Min	1,628				684	1,094	1,499	2,307																
	End	2,653				858	1,626	2,393	3,929																
G2x09-SR2	Start	3,070										1,463	1,968	2,472	2,977	3,230	3,482	3,735	3,987	4,240			8.5	12.9	
	Min	1,437										604	871	1,137	1,402	1,534	1,666	1,798	1,930	2,062					
	End	2,397										800	1,302	1,804	2,306	2,557	2,808	3,059	3,311	3,562					
G2x10-SR2	Start	3,060								1,435	2,105	2,775	3,445	4,115										6.3	9.7
	Min	1,435								590	945	1,297	1,647	1,998											
	End	2,387								773	1,439	2,105	2,771	3,437											
G2x12-SR2	Start	3,044							2,207	3,167	4,128													4.5	6.9
	Min	1,431							1,001	1,505	2,007														
	End	2,372							1,540	2,495	3,451														
G2x14-SR2	Start	3,032					1,481	2,065	3,234	4,403														3.7	5.6
	Min	1,428					621	930	1,542	2,153															
	End	2,359					818	1,399	2,562	3,724															
G2x16-SR2	Start	3,016				2,006	2,778	3,550	5,093															2.8	4.2
	Min	1,423				902	1,307	1,710	2,516																
	End	2,344				1,340	2,108	2,875	4,411																

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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																					
G2x09-SR3	Start	2,750												1,721	2,226	2,731	3,235	3,488	3,740	3,993	4,245	4,498	7.6	12.9
	Min	1,288												759	1,025	1,289	1,553	1,685	1,817	1,949	2,081	2,213		
	End	2,140												1,118	1,620	2,122	2,624	2,875	3,126	3,377	3,628	3,879		
G2x10-SR3	Start	2,740								1,693	2,363	3,033	3,703	4,373	5.7	9.7								
	Min	1,285							746	1,098	1,449	1,799	2,149											
	End	2,130							1,090	1,756	2,422	3,088	3,755											
G2x12-SR3	Start	2,725					1,504	2,465	3,426	4,387	4.0	6.9												
	Min	1,281					648	1,154	1,656	2,158														
	End	2,115					902	1,857	2,813	3,768														
G2x14-SR3	Start	2,713				1,739	2,323	3,492	4,661	3.3	5.6													
	Min	1,278				776	1,083	1,694	2,304															
	End	2,103				1,136	1,717	2,879	4,041															
G2x16-SR3	Start	2,697		1,492	2,264	3,036	3,808	5,351	2.5	4.2														
	Min	1,274		648	1,055	1,459	1,862	2,667																
	End	2,087		890	1,658	2,425	3,193	4,728																
G2x09-SR4	Start	2,454								1,501	2,006	2,510	3,015	3,520	3,773	4,025	4,278	4,530	4,783	6.8	12.9			
	Min	1,136								645	912	1,177	1,441	1,705	1,837	1,969	2,101	2,233	2,364					
	End	1,857								911	1,413	1,915	2,417	2,919	3,170	3,421	3,672	3,923	4,174					
G2x10-SR4	Start	2,444					1,309	1,978	2,648	3,318	3,987	4,657	5.1	9.7										
	Min	1,134					544	899	1,250	1,600	1,950	2,300												
	End	1,847					719	1,385	2,051	2,717	3,383	4,050												
G2x12-SR4	Start	2,428				1,308	1,789	2,749	3,710	4,671	3.6	6.9												
	Min	1,130				547	802	1,306	1,808	2,310														
	End	1,832				719	1,197	2,152	3,108	4,063														
G2x14-SR4	Start	2,416			1,440	2,024	2,608	3,777	4,946	3.0	5.6													
	Min	1,127			620	928	1,235	1,845	2,455															
	End	1,820			850	1,431	2,012	3,174	4,336															
G2x16-SR4	Start	2,400		1,777	2,549	3,320	4,092	5,636	2.2	4.2														
	Min	1,122		802	1,207	1,610	2,013	2,818																
	End	1,804		1,185	1,953	2,720	3,488	5,023																

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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																						
G3x10-SR1	Start	6,240														3,896	4,299	4,703	5,107	5,511	5,915	6,319	10.7	13.8	
	Min	2,867														1,656	1,870	2,083	2,295	2,507	2,719	2,930			
	End	4,731														2,401	2,803	3,205	3,606	4,008	4,410	4,812			
G3x12-SR1	Start	6,221										3,128	4,289	5,451	6,613									7.4	9.8
	Min	2,863										1,250	1,867	2,478	3,087										
	End	4,712										1,638	2,793	3,949	5,104										
G3x14-SR1	Start	6,206								3,470	4,884	6,298	7,713											6.1	8.1
	Min	2,859								1,436	2,183	2,925	3,665												
	End	4,697								1,977	3,384	4,791	6,199												
G3x16-SR1	Start	6,187							4,317	6,188	8,058													4.6	6.2
	Min	2,854							1,888	2,870	3,848														
	End	4,678							2,820	4,681	6,542														
G3x20-SR1	Start	6,148			3,840	5,325	6,811																	2.9	3.9
	Min	2,844			1,644	2,426	3,203																		
	End	4,639			2,346	3,823	5,301																		
G3x10-SR2	Start	5,438											2,895	3,702	4,510	4,914	5,317	5,721	6,125	6,529	6,933	9.3	13.8		
	Min	2,502											1,181	1,609	2,034	2,246	2,458	2,669	2,881	3,092	3,303				
	End	4,120											1,592	2,395	3,198	3,600	4,002	4,404	4,805	5,207	5,609				
G3x12-SR2	Start	5,419									3,742	4,904	6,065	7,227									6.5	9.8	
	Min	2,497									1,633	2,243	2,852	3,459											
	End	4,101									2,435	3,590	4,746	5,901											
G3x14-SR2	Start	5,404						2,669	4,084	5,498	6,913	8,327											5.3	8.1	
	Min	2,493						1,066	1,816	2,558	3,298	4,036													
	End	4,086						1,368	2,775	4,181	5,589	6,996													
G3x16-SR2	Start	5,385					3,061	4,931	6,802	8,672													4.0	6.2	
	Min	2,488					1,279	2,264	3,243	4,219															
	End	4,067					1,757	3,618	5,478	7,339															
G3x20-SR2	Start	5,346		2,969	4,454	5,940	7,425																2.6	3.9	
	Min	2,478		1,238	2,022	2,800	3,575																		
	End	4,029		1,666	3,143	4,621	6,098																		

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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																								
G3x10-SR3	Start	4,749													2,616	3,424	4,231	5,039	5,442	5,846	6,250	6,654	7,058	7,462	8.1	13.8	
	Min	2,187													1,081	1,509	1,933	2,356	2,568	2,779	2,990	3,201	3,412	3,623			
	End	3,594													1,475	2,278	3,081	3,884	4,286	4,687	5,089	5,491	5,893	6,295			
G3x12-SR3	Start	4,730								3,109	4,271	5,432	6,594	7,756											5.7	9.8	
	Min	2,182								1,346	1,957	2,565	3,172	3,778													
	End	3,575								1,965	3,120	4,276	5,431	6,587													
G3x14-SR3	Start	4,715								3,198	4,612	6,027	7,441	8,856											4.7	8.1	
	Min	2,179								1,396	2,139	2,879	3,617	4,355													
	End	3,560								2,053	3,460	4,867	6,274	7,681													
G3x16-SR3	Start	4,696						2,655	3,590	5,460	7,330	9,201													3.5	6.2	
	Min	2,174						1,112	1,606	2,586	3,562	4,538															
	End	3,541						1,513	2,443	4,303	6,164	8,025															
G3x20-SR3	Start	4,657			3,498	4,983	6,468	7,954																	2.2	3.9	
	Min	2,163			1,565	2,344	3,120	3,894																			
	End	3,503			2,351	3,829	5,306	6,784																			
G3x10-SR4	Start	4,156													2,264	3,071	3,878	4,685	5,493	5,897	6,301	6,704	7,108	7,512	7,916	7.2	13.8
	Min	1,917													935	1,363	1,787	2,210	2,632	2,843	3,054	3,264	3,475	3,686	3,897		
	End	3,142													1,262	2,064	2,867	3,670	4,474	4,875	5,277	5,679	6,081	6,482	6,884		
G3x12-SR4	Start	4,137								2,403	3,564	4,725	5,887	7,048	8,210											5.0	9.8
	Min	1,912								1,012	1,625	2,233	2,840	3,446	4,052												
	End	3,123								1,400	2,555	3,710	4,865	6,021	7,177												
G3x14-SR4	Start	4,122							2,239	3,653	5,067	6,481	7,896	9,311												4.1	8.1
	Min	1,908							928	1,675	2,415	3,153	3,891	4,629													
	End	3,108							1,236	2,643	4,050	5,457	6,864	8,271													
G3x16-SR4	Start	4,103				2,174	3,109	4,044	5,914	7,785	9,655															3.1	6.2
	Min	1,903				898	1,393	1,883	2,861	3,837	4,811																
	End	3,089				1,172	2,102	3,032	4,893	6,753	8,614																
G3x20-SR4	Start	4,064		2,467	3,952	5,437	6,923	8,408																		1.9	3.9
	Min	1,893		1,062	1,843	2,620	3,394	4,168																			
	End	3,051		1,464	2,941	4,418	5,896	7,373																			

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																							
G4x14-SR1	Start	12,762													7,448	9,157	10,012	10,866	11,721	12,575	13,430	14,285	10.3	13.4		
	Min	5,723													2,948	3,858	4,310	4,760	5,210	5,659	6,107	6,555				
	End	9,215													3,935	5,634	6,484	7,333	8,183	9,033	9,883	10,733				
G4x16-SR1	Start	12,739													8,444	10,707	12,970	15,234						7.8	10.1	
	Min	5,717													3,483	4,680	5,869	7,055								
	End	9,192													4,925	7,175	9,426	11,676								
G4x20-SR1	Start	12,692							8,298	11,898	15,498													4.9	6.3	
	Min	5,705							3,413	5,313	7,200															
	End	9,145							4,780	8,359	11,939															
G4x24-SR1	Start	12,658					8,619	11,241	16,484															3.4	4.3	
	Min	5,696					3,588	4,972	7,718																	
	End	9,111					5,099	7,706	12,920																	
G4x28-SR1	Start	12,513			8,629	12,330	16,032	19,734																2.3	3.1	
	Min	5,658			3,637	5,587	7,526	9,460																		
	End	8,967			5,109	8,789	12,470	16,150																		
G4x12-SR2	Start	11,169													7,248	7,948	8,649	9,350	10,050	10,751	11,452	11.0	13.8			
	Min	4,929													2,884	3,258	3,631	4,001	4,371	4,740	5,109					
	End	7,786													3,891	4,588	5,284	5,981	6,678	7,375	8,072					
G4x14-SR2	Start	11,151													7,195	8,903	10,612	11,467	12,321	13,176	14,030	14,885	15,740	9.0	13.4	
	Min	4,924													2,860	3,769	4,671	5,120	5,569	6,017	6,464	6,912	7,359			
	End	7,768													3,839	5,537	7,236	8,086	8,936	9,785	10,635	11,485	12,335			
G4x16-SR2	Start	11,127													7,637	9,899	12,162	14,425	16,689						6.8	10.1
	Min	4,918													3,099	4,298	5,488	6,674	7,858							
	End	7,745													4,278	6,528	8,778	11,028	13,279							
G4x20-SR2	Start	11,080						6,153	9,753	13,353	16,953													4.1	6.3	
	Min	4,906						2,309	4,229	6,120	8,002															
	End	7,699						2,803	6,382	9,962	13,541															
G4x24-SR2	Start	11,046				7,452	10,074	12,696	17,939															3.0	4.3	
	Min	4,897				3,014	4,403	5,779	8,520																	
	End	7,665				4,095	6,701	9,308	14,522																	
G4x28-SR2	Start	10,901		6,383	10,084	13,785	17,487	21,189																2.1	3.1	
	Min	4,859		2,483	4,451	6,393	8,328	10,261																		
	End	7,521		3,031	6,711	10,392	14,072	17,753																		

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																						
G4x12-SR3	Start	9,403												5,673	7,074	8,475	9,176	9,876	10,577	11,278	11,979	12,680	9.2	13.8	
	Min	4,159												2,208	2,957	3,698	4,067	4,435	4,803	5,170	5,537	5,904			
	End	6,566												2,860	4,253	5,646	6,343	7,040	7,737	8,433	9,130	9,827			
G4x14-SR3	Start	9,385											6,714	8,422	10,131	11,840	12,694	13,549	14,403	15,258	16,113	16,967	7.6	13.4	
	Min	4,154											2,770	3,674	4,572	5,468	5,915	6,362	6,809	7,256	7,702	8,148			
	End	6,548											3,895	5,594	7,293	8,992	9,841	10,691	11,541	12,391	13,240	14,090			
G4x16-SR3	Start	9,361									6,602	8,864	11,127	13,390	15,653	17,916							5.7	10.1	
	Min	4,148									2,714	3,910	5,098	6,282	7,465	8,646									
	End	6,525									3,784	6,033	8,283	10,533	12,783	15,034									
G4x20-SR3	Start	9,314					5,581	7,381	10,981	14,580	18,181													3.6	6.3
	Min	4,136					2,176	3,136	5,029	6,911	8,791														
	End	6,478					2,769	4,559	8,138	11,717	15,297														
G4x24-SR3	Start	9,280			6,058	8,680	11,301	13,923	19,167															2.5	4.3
	Min	4,127			2,438	3,826	5,201	6,572	9,308																
	End	6,444			3,243	5,850	8,457	11,064	16,277																
G4x28-SR3	Start	9,135		7,610	11,311	15,013	18,714	22,416																1.7	3.1
	Min	4,089		3,304	5,249	7,185	9,116	11,047																	
	End	6,300		4,787	8,467	12,147	15,827	19,508																	
G4x12-SR4	Start	7,760											5,334	6,735	8,136	9,537	10,237	10,938	11,639	12,340	13,041	13,741	7.7	13.8	
	Min	3,467											2,209	2,950	3,687	4,421	4,788	5,154	5,521	5,887	6,253	6,619			
	End	5,510											3,101	4,493	5,886	7,280	7,976	8,673	9,370	10,066	10,763	11,460			
G4x14-SR4	Start	7,742									4,360	6,068	7,776	9,484	11,193	12,901	13,756	14,610	15,465	16,320	17,174	18,029	6.3	13.4	
	Min	3,462									1,691	2,602	3,502	4,397	5,291	6,184	6,630	7,076	7,522	7,968	8,414	8,860			
	End	5,492									2,132	3,830	5,528	7,227	8,926	10,625	11,474	12,324	13,174	14,024	14,874	15,723			
G4x16-SR4	Start	7,718								5,401	7,663	9,926	12,188	14,451	16,715	18,978							4.8	10.1	
	Min	3,456								2,253	3,446	4,632	5,815	6,996	8,177	9,357									
	End	5,469								3,168	5,417	7,666	9,916	12,166	14,416	16,667									
G4x20-SR4	Start	7,671			4,843	6,643	8,443	12,042	15,642	19,243													3.0	6.3	
	Min	3,443			1,965	2,918	3,864	5,746	7,625	9,502															
	End	5,422			2,613	4,402	6,192	9,771	13,350	16,930															
G4x24-SR4	Start	7,638		4,499	7,120	9,742	12,363	14,985	20,229															2.1	4.3
	Min	3,434		1,786	3,175	4,549	5,918	7,285	10,018																
	End	5,389		2,270	4,877	7,483	10,090	12,697	17,910																

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																						
G5x20-SR1	Start	28,966													22,835	27,460	32,085	34,398	36,711						
	Min	12,112													8,897	11,363	13,806	15,023	16,237						
	End	18,054													11,967	16,568	21,168	23,469	25,769						
G5x24-SR1	Start	28,922								21,678	28,429	35,181													
	Min	12,100								8,279	11,879	15,436													
	End	18,010								10,817	17,532	24,247													
G5x28-SR1	Start	28,734						19,164	28,709	38,254															
	Min	12,051						6,973	12,090	17,114															
	End	17,824						8,317	17,810	27,304															
G5x32-SR1	Start	28,659			18,406	24,655	30,903	43,402																	
	Min	12,031			6,571	9,952	13,264	19,824																	
	End	17,748			7,562	13,777	19,993	32,425																	
G5x36-SR1	Start	28,583		20,452	28,375	36,298	44,221																		
	Min	12,011		7,710	11,944	16,116	20,267																		
	End	17,673		9,597	17,478	25,358	33,239																		
G5x16-SR2	Start	26,024															18,825	20,272	21,720	23,167	24,615				
	Min	10,595															6,768	7,560	8,343	9,121	9,894				
	End	15,309															8,158	9,598	11,038	12,478	13,918				
G5x20-SR2	Start	25,963												21,031	25,655	30,280	34,906	37,219	39,532						
	Min	10,579												7,982	10,458	12,907	15,340	16,554	17,767						
	End	15,248												10,353	14,953	19,553	24,154	26,454	28,755						
G5x24-SR2	Start	25,920							17,749	24,499	31,250	38,001													
	Min	10,567							6,188	9,846	13,420	16,967													
	End	15,205							7,088	13,802	20,517	27,232													
G5x28-SR2	Start	25,732					17,213	21,985	31,530	41,075															
	Min	10,517					5,949	8,563	13,630	18,642															
	End	15,018					6,556	11,302	20,795	30,290															
G5x32-SR2	Start	25,656			21,227	27,475	33,724	46,223																	
	Min	10,497			8,170	11,505	14,800	21,350																	
	End	14,943			10,547	16,763	22,978	35,410																	
G5x36-SR2	Start	25,580		23,273	31,195	39,118	47,041																		
	Min	10,477		9,286	13,485	17,647	21,793																		
	End	14,867		12,583	20,463	28,343	36,224																		

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																						
G5x16-SR3	Start	20,927													15,470	18,364	19,812	21,259	22,706	24,154	25,602	27,049	9.9	13.8	
	Min	8,710													5,836	7,390	8,160	8,927	9,692	10,454	11,217	11,976			
	End	12,888													7,469	10,348	11,787	13,227	14,667	16,107	17,546	18,986			
G5x20-SR3	Start	20,866								14,217	18,841	23,465	28,090	32,715	37,340	39,653	41,966						6.2	11.3	
	Min	8,694								5,164	7,655	10,102	12,532	14,955	17,373	18,580	19,788								
	End	12,827									6,222	10,822	15,421	20,021	24,622	29,222	31,523	33,823							
G5x24-SR3	Start	20,822						13,433	20,183	26,933	33,684	40,435											4.1	7.7	
	Min	8,682						4,737	8,373	11,929	15,465	18,991													
	End	12,784						5,443	12,157	18,871	25,586	32,301													
G5x28-SR3	Start	20,634			14,876	19,648	24,419	33,964	43,509														3.0	5.5	
	Min	8,633			5,590	8,148	10,669	15,674	20,660																
	End	12,597			6,878	11,624	16,371	25,864	35,358																
G5x32-SR3	Start	20,558			17,412	23,661	29,910	36,158	48,657														2.3	4.2	
	Min	8,613			6,974	10,285	13,566	16,836	23,359																
	End	12,522			9,401	15,616	21,831	28,047	40,479																
G5x36-SR3	Start	20,483		17,785	25,707	33,630	41,552	49,476														1.8	3.3		
	Min	8,593		7,190	11,378	15,529	19,667	23,800																	
	End	12,446		9,771	17,651	25,532	33,412	41,293																	
G5x16-SR4	Start	17,450												11,684	14,578	17,472	20,367	21,814	23,261	24,709	26,156	27,604	29,052	8.3	13.8
	Min	7,319												4,267	5,829	7,366	8,893	9,653	10,413	11,172	11,929	12,687	13,444		
	End	10,896												5,169	8,047	10,926	13,805	15,244	16,684	18,124	19,564	21,003	22,443		
G5x20-SR4	Start	17,389							11,595	16,219	20,843	25,467	30,092	34,717	39,343	41,655	43,968						5.2	11.3	
	Min	7,303							4,230	6,714	9,154	11,579	13,997	16,412	18,825	20,031	21,236								
	End	10,836								5,080	9,679	14,278	18,878	23,478	28,078	32,679	34,980	37,280							
G5x24-SR4	Start	17,345					12,061	15,435	22,185	28,936	35,687	42,438											3.6	7.7	
	Min	7,292					4,491	6,304	9,863	13,397	16,921	20,440													
	End	10,792					5,543	8,900	15,614	22,328	29,043	35,758													
G5x28-SR4	Start	17,158			12,107	16,878	21,650	26,422	35,966	45,512														2.6	5.5
	Min	7,242			4,574	7,127	9,641	12,142	17,130	22,107															
	End	10,606			5,589	10,335	15,081	19,828	29,321	38,815															
G5x32-SR4	Start	17,082		13,167	19,415	25,663	31,912	38,161	50,659														1.9	4.2	
	Min	7,222		5,166	8,482	11,761	15,027	18,289	24,804																
	End	10,530		6,643	12,858	19,073	25,288	31,504	43,936																

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																						
G7x24-SR1	Start	57,293												39,138	47,393	55,649	59,777	63,905	68,034	72,163			9.5	12.3	
	Min	23,399												13,688	18,197	22,613	24,805	26,987	29,165	31,338					
	End	33,978												15,949	24,158	32,368	36,473	40,578	44,683	48,788					
G7x28-SR1	Start	57,065										46,435	58,124	69,815										6.7	8.7
	Min	23,339										17,761	24,010	30,187											
	End	33,752										23,206	34,829	46,454											
G7x32-SR1	Start	56,972							41,112	56,429	71,747													5.1	6.6
	Min	23,314							14,879	23,124	31,218														
	End	33,660							17,913	33,144	48,375														
G7x36-SR1	Start	56,879						42,160	61,589	81,021														4.1	5.2
	Min	23,289						15,470	25,874	36,104															
	End	33,567						18,954	38,275	57,596															
G7xT28-SR1	Start	56,359					45,715	57,400	80,772															3.4	4.3
	Min	23,152					17,567	23,818	36,141																
	End	33,050					22,490	34,109	57,349																
G7x24-SR2	Start	50,582										34,734	42,989	51,244	59,500	63,628	67,757	71,885	76,014				8.4	12.3	
	Min	20,720										12,256	16,747	21,149	25,512	27,686	29,855	32,021	34,187						
	End	30,149										14,411	22,620	30,828	39,038	43,143	47,248	51,353	55,458						
G7x28-SR2	Start	50,355								38,598	50,286	61,976	73,666											5.9	8.7
	Min	20,659								14,455	20,720	26,898	33,041												
	End	29,923								18,254	29,876	41,499	53,124												
G7x32-SR2	Start	50,262							44,964	60,281	75,599													4.6	6.6
	Min	20,635							17,901	26,018	34,067														
	End	29,830							24,583	39,814	55,046														
G7x36-SR2	Start	50,168					36,297	46,011	65,441	84,872														3.6	5.2
	Min	20,610					13,233	18,476	28,751	38,935															
	End	29,738					15,965	25,625	44,945	64,267															
G7xT28-SR2	Start	49,648				37,882	49,566	61,252	84,624															3.0	4.3
	Min	20,472				14,261	20,530	26,707	38,972																
	End	29,221				17,541	29,160	40,779	64,020																

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																					
G8x24-SR1	Start	84,709															53,300	58,153	63,007	67,860	72,714	77,568	11.9	13.8
	Min	36,543															19,972	22,591	25,188	27,771	30,344	32,909		
	End	56,810																25,606	30,433	35,260	40,088	44,916		
G8x28-SR1	Start	84,436										51,595	65,369	79,143	92,919	99,808	106,697	113,586					8.4	11.9
	Min	36,471										19,147	26,552	33,847	41,095	44,711	48,321	51,927						
	End	56,539										23,910	37,610	51,311	65,013	71,865	78,717	85,569						
G8x32-SR1	Start	84,325										67,807	85,879	103,952	122,027								6.4	9.0
	Min	36,442										27,861	37,408	46,896	56,357									
	End	56,429										40,035	58,010	75,987	93,965									
G8x36-SR1	Start	84,215							55,923	78,866	101,810	124,756											5.0	7.1
	Min	36,413							21,527	33,730	45,789	57,796												
	End	56,319							28,215	51,035	73,856	96,680												
G8x40-SR1	Start	84,105						54,661	83,050	111,440													4.1	5.8
	Min	36,384						20,866	35,952	50,846														
	End	56,209						26,960	55,197	83,435														
G8xT32-SR1	Start	83,324					66,781	84,846	120,979														3.2	4.5
	Min	36,179					27,589	37,136	56,083															
	End	55,433					39,014	56,983	92,923															
G8xT36-SR1	Start	83,103		54,797	77,734	100,671	123,610																2.6	3.6
	Min	36,121		21,223	33,433	45,491	57,497																	
	End	55,214		27,094	49,909	72,724	95,540																	
G8x24-SR2	Start	68,164												47,445	57,151	62,004	66,857	71,710	76,564	81,417	86,271	9.7	13.8	
	Min	30,151												19,333	24,469	27,024	29,573	32,120	34,662	37,202	39,742			
	End	48,154												27,576	37,229	42,057	46,884	51,711	56,539	61,367	66,195			
G8x28-SR2	Start	67,891										46,527	60,299	74,072	87,847	101,623	108,511	115,400	122,289				6.8	11.9
	Min	30,079										18,942	26,225	33,460	40,671	47,867	51,465	55,060	58,652					
	End	47,882										26,662	40,361	54,061	67,762	81,464	88,316	95,168	102,020					
G8x32-SR2	Start	67,780						40,371	58,440	76,510	94,582	112,656	130,731										5.2	9.0
	Min	30,050						15,664	25,262	34,751	44,202	53,640	63,064											
	End	47,773						20,540	38,512	56,486	74,461	92,438	110,416											
G8x36-SR2	Start	67,670					41,686	64,627	87,569	110,514	133,460												4.1	7.1
	Min	30,021					16,390	28,535	40,555	52,538	64,500													
	End	47,663					21,847	44,666	67,486	90,307	113,131													
G8x40-SR2	Start	67,559				49,171	63,365	91,754	120,144														3.3	5.8
	Min	29,992				20,403	27,893	42,759	57,575															
	End	47,553				29,293	43,410	71,647	99,886															
G8xT32-SR2	Start	66,779		39,356	57,420	75,484	93,550	129,683															2.6	4.5
	Min	29,788		15,390	24,994	34,482	43,933	62,791																
	End	46,777		19,530	37,497	55,465	73,434	109,374																
G8xT36-SR2	Start	66,558		40,564	63,500	86,437	109,375	132,314															2.1	3.6
	Min	29,730		16,090	28,240	40,260	52,241	64,202																
	End	46,558		20,731	43,545	66,360	89,175	111,991																

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																				
G8x24-SR3	Start	57,796																				8.2	13.8
	Min	25,602																					
	End	40,879																					
G8x28-SR3	Start	57,523								40,070	53,841	67,613	81,386	95,161	108,937	115,826	122,715	129,604				5.8	11.9
	Min	25,531								16,441	23,715	30,938	38,140	45,335	52,519	56,111	59,703	63,295					
	End	40,608									23,274	36,971	50,669	64,369	78,070	91,773	98,625	105,477	112,329				
G8x32-SR3	Start	57,412								47,685	65,754	83,825	101,896	119,970	138,045							4.4	9.0
	Min	25,502								20,491	29,980	39,428	48,860	58,284	67,704								
	End	40,498									30,848	48,821	66,794	84,770	102,747	120,725							
G8x36-SR3	Start	57,302						37,530	49,000	71,941	94,884	117,828	140,774									3.4	7.1
	Min	25,473						15,127	21,203	33,237	45,219	57,181	69,138										
	End	40,389							20,747	32,156	54,974	77,794	100,616	123,439									
G8x40-SR3	Start	57,192				42,292	56,485	70,679	99,068	127,458												2.8	5.8
	Min	25,444				17,682	25,160	32,596	47,419	62,218													
	End	40,279				25,484	39,601	53,719	81,956	110,195													
G8xT32-SR3	Start	56,411			46,670	64,734	82,799	100,864	136,997													2.2	4.5
	Min	25,239			20,224	29,713	39,161	48,591	67,431														
	End	39,503			29,839	47,806	65,774	83,743	119,683														
G8xT36-SR3	Start	56,190		47,878	70,814	93,751	116,689	139,628														1.7	3.6
	Min	25,182		20,908	32,942	44,925	56,885	68,840															
	End	39,283		31,040	53,854	76,668	99,483	122,300															

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																						
G10x32-SR1	Start	195,285																				11.4	13.8		
	Min	78,991																							
	End	113,556																							
G10x36-SR1	Start	195,140													152,769	182,741	212,716	227,704				8.9	10.9		
	Min	78,952													56,474	72,627	88,567	96,492							
	End	113,412													71,337	101,153	130,970	145,880							
G10x40-SR1	Start	194,995													142,764	179,887	217,013					7.2	8.8		
	Min	78,914													51,007	71,121	90,855								
	End	113,268													61,385	98,314	135,245								
G10xT32-SR1	Start	193,998													164,672	211,802						5.7	6.9		
	Min	78,649													63,279	88,437									
	End	112,277													83,178	130,061									
G10xT36-SR1	Start	193,708													181,254	241,181						4.5	5.5		
	Min	78,572													72,231	103,997									
	End	111,988													99,673	159,286									
G10xT40-SR1	Start	193,418													141,158	178,271	252,503					3.6	4.4		
	Min	78,496													50,564	70,690	110,009								
	End	111,700													59,787	96,706	170,549								
G10x28-SR2	Start	157,461																				12.1	13.8		
	Min	64,906																							
	End	95,405																							
G10x32-SR2	Start	157,316																				9.2	13.8		
	Min	64,867																							
	End	95,260																							
G10x36-SR2	Start	157,171																				7.2	10.9		
	Min	64,829																							
	End	95,116																							
G10x40-SR2	Start	157,026																				5.8	8.8		
	Min	64,790																							
	End	94,972																							
G10xT32-SR2	Start	156,029																				4.6	6.9		
	Min	64,526																							
	End	93,981																							
G10xT36-SR2	Start	155,739																				3.6	5.5		
	Min	64,449																							
	End	93,693																							
G10xT40-SR2	Start	155,449																				2.9	4.4		
	Min	64,372																							
	End	93,404																							

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																										
G10x28-SR3	Start	143,587																			114,400	123,364	132,327	141,292	150,257	159,222	168,187	11.0	13.8
	Min	57,025																			41,522	46,413	51,253	56,061	60,847	65,610	70,362		
	End	79,971																				50,992	59,908	68,825	77,742	86,660	95,578		
G10x32-SR3	Start	143,442													105,652	129,221	152,792	176,365	188,153	199,940	211,729	223,518	235,307	247,097	8.3	13.8			
	Min	56,986													36,695	49,594	62,207	74,699	80,917	87,127	93,322	99,512	105,701	111,874					
	End	79,827													42,290	65,735	89,183	112,632	124,358	136,084	147,810	159,537	171,265	182,993					
G10x36-SR3	Start	143,297														126,740	156,708	186,678	216,651	246,626	261,614						6.6	10.9	
	Min	56,948													48,273	64,305	80,156	95,920	111,640	119,487									
	End	79,683													63,267	93,078	122,891	152,706	182,524	197,434									
G10x40-SR3	Start	143,152														102,435	139,553	176,674	213,797	250,923							5.3	8.8	
	Min	56,909													34,930	55,186	74,898	94,439	113,906										
	End	79,539													39,090	76,013	112,939	149,868	186,799										
G10xT32-SR3	Start	142,156														104,334	151,456	198,582	245,712								4.1	6.9	
	Min	56,643													36,323	61,853	86,770	111,512											
	End	78,548													40,978	87,853	134,732	181,615											
G10xT36-SR3	Start	141,866														125,281	155,241	215,163	275,090								3.3	5.5	
	Min	56,566													47,880	63,915	95,531	126,939											
	End	78,260													61,816	91,618	151,227	210,840											
G10xT40-SR3	Start	141,576															100,844	137,955	175,067	212,181	286,412							2.6	4.4
	Min	56,489														34,475	54,758	74,473	94,016	132,907									
	End	77,971														37,506	74,423	111,341	148,260	222,102									
G10x28-SR4	Start	115,062																								8.8	13.8		
	Min	46,723																											
	End	67,166																											
G10x32-SR4	Start	114,917																							6.7	13.8			
	Min	46,684																											
	End	67,022																											
G10x36-SR4	Start	114,772																							5.3	10.9			
	Min	46,646																											
	End	66,878																											
G10x40-SR4	Start	114,627																							4.1	8.8			
	Min	46,607																											
	End	66,733																											
G10xT32-SR4	Start	113,630																							3.4	6.9			
	Min	46,343																											
	End	65,742																											
G10xT36-SR4	Start	113,340																							2.6	5.5			
	Min	46,266																											
	End	65,454																											
G10xT40-SR4	Start	113,050																							2.1	4.4			
	Min	46,189																											
	End	65,166																											

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																				
G13x40-SR1	Start	434,082															333,233	356,949	380,665	404,382	428,100	12.5	13.8
	Min	168,452															113,871	127,087	140,110	152,987	165,776		
	End	230,379															130,166	153,763	177,360	200,957	224,556		
G13x44-SR1	Start	433,885											339,861	397,456	426,255	455,054						10.3	11.4
	Min	168,399											117,620	149,264	164,809	180,250							
	End	230,183											136,761	194,066	222,720	251,375							
G13x48-SR1	Start	433,697											382,328	451,059							8.6	9.7	
	Min	168,349											141,059	178,137									
	End	229,997											179,014	247,400									
G13x52-SR1	Start	433,510										329,444	410,277	491,113							7.4	8.3	
	Min	168,299											111,809	156,238	199,517								
	End	229,810											126,396	206,822	287,252								
G13xT40-SR1	Start	432,016										331,051	425,875							6.3	6.9		
	Min	167,898											113,256	165,180									
	End	228,324											127,995	222,342									
G13xT44-SR1	Start	431,621										337,509	452,663							5.2	5.7		
	Min	167,792											116,957	179,613									
	End	227,931											134,420	248,995									
G13xT48-SR1	Start	431,246							311,088	448,512										4.1	4.8		
	Min	167,692							101,974	177,457													
	End	227,559							108,132	244,865													
G13xT52-SR1	Start	430,871							326,755	407,572	569,211									3.7	4.1		
	Min	167,591							111,039	155,508	241,622												
	End	227,186							123,720	204,131	364,958												

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																											
G13x40-SR2	Start	374,651																			315,513	339,227	362,941	386,657	410,373	434,090	457,808	10.8	13.8	
	Min	146,104																				114,558	127,489	140,291	153,012	165,674	178,277			190,853
	End	200,823																					142,094	165,688	189,283	212,880	236,477			260,074
G13x44-SR2	Start	374,454													311,978	369,569	427,164	455,963	484,762									8.9	11.4	
	Min	146,051													112,648	143,874	174,620	189,900	205,132											
	End	200,627													138,576	195,878	253,183	281,837	310,492											
G13x48-SR2	Start	374,266													274,585	343,309	412,036	480,767										7.4	9.7	
	Min	146,001													91,787	129,746	166,605	203,038												
	End	200,441													101,372	169,750	238,131	306,517												
G13x52-SR2	Start	374,079													278,324	359,152	439,984	520,821										6.3	8.3	
	Min	145,950													93,943	138,329	181,474	224,187												
	End	200,254													105,091	185,513	265,939	346,369												
G13xT40-SR2	Start	372,585													360,759	455,583												5.4	6.9	
	Min	145,550													139,706	190,265														
	End	198,768													187,112	281,459														
G13xT44-SR2	Start	372,190													367,216	482,371												4.5	5.7	
	Min	145,444													143,243	204,500														
	End	198,375													193,537	308,112														
G13xT48-SR2	Start	371,815													272,087	340,796	478,220											3.7	4.8	
	Min	145,344													91,059	129,068	202,365													
	End	198,002													98,886	167,250	303,982													
G13xT52-SR2	Start	371,440													275,648	356,463	437,280	598,919										3.2	4.1	
	Min	145,243													93,177	137,604	180,757	265,976												
	End	197,630													102,429	182,838	263,248	424,075												

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																						
G13x40-SR3	Start	312,240													256,186	303,608	351,033	374,747	398,462	422,177	445,893	469,610	493,328	9.0	13.8
	Min	121,251													91,194	117,020	142,390	154,988	167,539	180,073	192,569	205,065	217,520		
	End	165,484													109,805	156,988	204,175	227,770	251,365	274,961	298,558	322,156	345,754		
G13x44-SR3	Start	312,043												232,326	289,910	347,498	405,089	462,684	491,483	520,283	7.4	11.4			
	Min	121,198												77,852	109,649	140,537	171,069	201,439	216,574	231,697					
	End	165,288												86,065	143,359	200,657	257,959	315,264	343,918	372,573					
G13x48-SR3	Start	311,855												241,386	310,105	378,829	447,556	516,288	6.2	9.7					
	Min	121,148												83,007	120,560	157,202	193,489	229,618							
	End	165,102												95,079	163,453	231,831	300,213	368,598							
G13x52-SR3	Start	311,668													233,020	313,844	394,672	475,505	556,341	5.3	8.3				
	Min	121,097													78,310	122,596	165,607	208,226	250,651						
	End	164,915													86,755	167,173	247,595	328,021	408,451						
G13xT40-SR3	Start	310,173													301,461	396,279	491,103	4.5	6.9						
	Min	120,697													116,441	166,963	216,937								
	End	163,429													154,852	249,193	343,541								
G13xT44-SR3	Start	309,779													230,019	287,590	402,737	517,891	3.7	5.7					
	Min	120,591													77,180	109,023	170,448	231,070							
	End	163,036													83,769	141,051	255,619	370,194							
G13xT48-SR3	Start	309,404																						3.1	4.8
	Min	120,491																							
	End	162,664																							
G13xT52-SR3	Start	309,029																						2.6	4.1
	Min	120,390																							
	End	162,291																							

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																					
G13x40-SR4	Start	252,809										191,060	238,475	285,894	333,316	380,741	404,455	428,170	451,885	475,601	499,318	523,036	7.3	13.8
	Min	98,903										65,530	91,532	116,892	142,009	166,987	179,441	191,895	204,321	216,741	229,162	241,577		
	End	135,928										74,564	121,742	168,922	216,105	263,292	286,887	310,482	334,078	357,675	381,273	404,872		
G13x44-SR4	Start	252,612								204,453	262,034	319,618	377,206	434,797	492,392	521,191	549,990	6.0	11.4					
	Min	98,850								73,027	104,206	134,793	165,155	195,395	225,557	240,635	255,683							
	End	135,732								87,891	145,182	202,476	259,775	317,076	374,382	403,035	431,690							
G13x48-SR4	Start	252,424							202,378	271,094	339,813	408,537	477,264	545,995	5.0	9.7								
	Min	98,800							71,913	109,071	145,484	181,632	217,656	253,614										
	End	135,546							85,826	154,196	222,570	290,948	359,330	427,715										
G13x52-SR4	Start	252,237						181,908	262,728	343,552	424,380	505,213	586,049	4.1	8.3									
	Min	98,749						60,428	104,635	147,481	189,976	232,314	274,562											
	End	135,359						65,459	145,872	226,290	306,712	387,138	467,568											
G13xT40-SR4	Start	250,742					188,954	236,357	331,169	425,987	520,811	3.7	6.9											
	Min	98,349					64,934	90,961	141,444	191,323	240,996													
	End	133,873					72,469	119,634	213,969	308,310	402,658													
G13xT44-SR4	Start	250,348			202,158	259,727	317,298	432,445	547,599	3.0	5.7													
	Min	98,243			72,394	103,591	134,180	194,780	255,058															
	End	133,480			85,607	142,886	200,168	314,736	429,311															
G13xT48-SR4	Start	249,973		199,903	268,608	337,315	406,024	543,448	2.6	4.8														
	Min	98,142		71,229	108,408	144,826	180,973	252,949																
	End	133,107		83,363	151,723	220,085	288,448	425,181																
G13xT52-SR4	Start	249,598		260,064	340,876	421,691	502,508	664,148	2.1	4.1														
	Min	98,042		103,925	146,777	189,271	231,606	316,074																
	End	132,735		143,221	223,628	304,036	384,446	545,273																