

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																		MinOP barg	MOP barg		
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300	320			340	350
			Air Torque Output, Nm																					
G01x02.0-SR0	Start	2,663														1,458	1,749					239.7	254.5	
	Min	1,203														598	759							
	End	1,898														695	985							
G01x02.2-SR0	Start	2,652																				177.0	201.1	
	Min	1,199														651	871							
	End	1,888														812	1,214							
G01x02.5-SR0	Start	2,641									1,626	2,157										137.0	162.9	
	Min	1,196									673	960												
	End	1,877									864	1,392												
G01x03.0-SR0	Start	2,620									1,987											89.9	113.1	
	Min	1,188									862													
	End	1,855									1,223													
G01x03.5-SR0	Start	2,598						1,926	2,512													63.9	83.1	
	Min	1,180						829	1,141															
	End	1,834						1,162	1,747															
G01x01.7-SR1	Start	1,999															872	1,072	1,272	1,473	1,675	264.2	332.3	
	Min	949															383	492	601	710	819			
	End	1,572															448	647	846	1,046	1,248			
G01x02.0-SR1	Start	1,987															920	1,213	1,505	1,796	2,087	181.7	254.5	
	Min	945															403	563	722	879	1,036			
	End	1,560															495	787	1,078	1,369	1,659			
G01x02.2-SR1	Start	1,977															1,102	1,509	1,914	2,317		134.1	201.1	
	Min	941															495	714	931	1,147				
	End	1,550															677	1,082	1,486	1,888				
G01x02.5-SR1	Start	1,966															897	1,433	1,965	2,496		103.8	162.9	
	Min	937															381	668	952	1,234				
	End	1,539															472	1,006	1,537	2,066				
G01x03.0-SR1	Start	1,944															1,083	1,498	2,326			68.1	113.1	
	Min	930															480	701	1,138					
	End	1,517															657	1,072	1,897					
G01x03.5-SR1	Start	1,923															1,086	1,676	2,264	2,851		48.4	83.1	
	Min	922															483	795	1,105	1,414				
	End	1,496															661	1,249	1,836	2,421				

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			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300	320	340			350
			Air Torque Output, Nm																					
G01x01.7-SR2	Start	1,662													673	872	1,072	1,271	1,471	1,672	1,874	222.1	332.3	
	Min	811													312	421	530	638	746	854	962			
	End	1,373													386	585	784	983	1,183	1,383	1,584			
G01x02.0-SR2	Start	1,650										826	1,120	1,412	1,704	1,996	2,287					152.7	254.5	
	Min	807										391	550	708	865	1,022	1,179							
	End	1,361										539	832	1,124	1,415	1,705	1,996							
G01x02.2-SR2	Start	1,639								893	1,302	1,708	2,113	2,516								112.8	201.1	
	Min	803								422	640	857	1,073	1,289										
	End	1,351								606	1,013	1,419	1,822	2,224										
G01x02.5-SR2	Start	1,629							1,096	1,632	2,165	2,695										87.3	162.9	
	Min	799							528	812	1,095	1,376												
	End	1,340							808	1,343	1,874	2,403												
G01x03.0-SR2	Start	1,607			865	1,282	1,697	2,526														57.3	113.1	
	Min	792			405	625	844	1,281																
	End	1,319			578	994	1,408	2,234																
G01x03.5-SR2	Start	1,585	694	1,286	1,875	2,464	3,051															40.7	83.1	
	Min	784	317	629	939	1,248	1,556																	
	End	1,297	408	997	1,586	2,172	2,757																	
G01x01.7-SR3	Start	1,441												655	855	1,055	1,254	1,454	1,654	1,855	2,056	194.5	332.3	
	Min	706												311	420	528	636	744	852	960	1,068			
	End	1,191												407	607	806	1,005	1,204	1,403	1,603	1,805			
G01x02.0-SR3	Start	1,429								712	1,008	1,302	1,595	1,887	2,178	2,469						133.7	254.5	
	Min	702								338	498	656	814	971	1,128	1,285								
	End	1,179								464	759	1,052	1,344	1,635	1,926	2,216								
G01x02.2-SR3	Start	1,418							664	1,075	1,484	1,891	2,295	2,699								98.7	201.1	
	Min	698							309	529	746	963	1,179	1,395										
	End	1,169							416	826	1,234	1,639	2,043	2,445										
G01x02.5-SR3	Start	1,407						739	1,278	1,814	2,347	2,877										76.4	162.9	
	Min	694						348	634	918	1,201	1,482												
	End	1,158						491	1,029	1,563	2,094	2,623												
G01x03.0-SR3	Start	1,386		629	1,047	1,464	1,880	2,708														50.1	113.1	
	Min	687		291	512	731	950	1,386																
	End	1,137		381	798	1,214	1,629	2,454																
G01x03.5-SR3	Start	1,364	877	1,468	2,058	2,646	3,233															35.7	83.1	
	Min	679	424	735	1,045	1,353	1,661																	
	End	1,115	628	1,218	1,806	2,393	2,978																	

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			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300	320			340	350
			Air Torque Output, Nm																					
G01x01.5-SR4	Start	1,229													350	487	624	761	898	1,036	1,175	1,245	230.8	344.7
	Min	610													166	247	323	399	474	550	626	664		
	End	1,043													166	303	439	576	713	850	989	1,059		
G01x01.7-SR4	Start	1,214										417	618	819	1,019	1,218	1,418	1,618	1,818	2,018	2,220		166.2	332.3
	Min	605										198	307	416	524	632	739	847	955	1,063	1,171			
	End	1,028										233	434	634	833	1,032	1,231	1,430	1,630	1,830	2,031			
G01x02.0-SR4	Start	1,202								578	876	1,172	1,466	1,759	2,051	2,342	2,633						114.2	254.5
	Min	600								283	443	601	759	917	1,074	1,231	1,387							
	End	1,016									393	691	986	1,279	1,571	1,862	2,152	2,443						
G01x02.2-SR4	Start	1,191							413	827	1,239	1,648	2,055	2,459	2,862								84.4	201.1
	Min	597							192	413	632	849	1,066	1,282	1,497									
	End	1,006								229	642	1,053	1,460	1,866	2,269	2,671								
G01x02.5-SR4	Start	1,180					632	903	1,442	1,978	2,511	3,041											65.3	162.9
	Min	593					309	452	737	1,021	1,303	1,585												
	End	995					447	718	1,255	1,790	2,321	2,850												
G01x03.0-SR4	Start	1,159			793	1,211	1,628	2,044	2,872														42.8	113.1
	Min	586			395	615	834	1,053	1,489															
	End	973			608	1,025	1,441	1,855	2,681															
G01x03.5-SR4	Start	1,137	448	1,041	1,632	2,222	2,810	3,397															30.5	83.1
	Min	578	216	528	838	1,147	1,456	1,764																
	End	952	264	855	1,444	2,033	2,619	3,204																

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			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350
			Air Torque Output, Nm																					
G2x02.0-SR1	Start	3,459															1,788	2,140	2,494	2,848	3,205	3,384	256.4	339.3
	Min	1,607															772	966	1,158	1,350	1,542	1,638		
	End	2,626															958	1,309	1,662	2,016	2,371	2,549		
G2x02.2-SR1	Start	3,446															1,577	2,065	2,552	3,038	3,524		189.3	250.6
	Min	1,603															641	908	1,172	1,434	1,695			
	End	2,613															748	1,234	1,720	2,205	2,689			
G2x02.5-SR1	Start	3,433															1,640	2,281	2,921	3,558			146.5	193.9
	Min	1,598															668	1,015	1,359	1,700				
	End	2,600															810	1,450	2,088	2,724				
G2x03.0-SR1	Start	3,407																					96.2	127.2
	Min	1,589																						
	End	2,574																						
G2x03.5-SR1	Start	3,368																					68.4	90.5
	Min	1,575																						
	End	2,535																						
G2x04.0-SR1	Start	3,355																					51.3	67.8
	Min	1,571																						
	End	2,522																						
G2x01.7-SR2	Start	2,992																					323.2	344.7
	Min	1,408																						
	End	2,332																						
G2x02.0-SR2	Start	2,977																					222.2	339.3
	Min	1,403																						
	End	2,317																						
G2x02.2-SR2	Start	2,964																					164.1	250.6
	Min	1,399																						
	End	2,304																						
G2x02.5-SR2	Start	2,951																					127.0	193.9
	Min	1,394																						
	End	2,291																						
G2x03.0-SR2	Start	2,925																					83.3	127.2
	Min	1,385																						
	End	2,265																						
G2x03.5-SR2	Start	2,886																					59.3	90.5
	Min	1,371																						
	End	2,226																						
G2x04.0-SR2	Start	2,873																					44.4	67.8
	Min	1,367																						
	End	2,213																						

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			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300	320			340	350
			Air Torque Output, Nm																					
G2x01.7-SR3	Start	2,674																1,125	1,367	1,610	1,855	1,977	290.4	344.7
	Min	1,259																479	612	745	878	944		
	End	2,075																529	771	1,013	1,257	1,380		
G2x02.0-SR3	Start	2,659											1,296	1,649	2,002	2,354	2,707	3,060	3,415	3,771	3,950	199.7	339.3	
	Min	1,254										565	759	950	1,141	1,332	1,522	1,713	1,905	2,000				
	End	2,061										700	1,052	1,404	1,756	2,107	2,460	2,814	3,169	3,347				
G2x02.2-SR3	Start	2,647								1,162	1,654	2,144	2,632	3,119	3,605	4,090						147.4	250.6	
	Min	1,249							482	749	1,013	1,275	1,536	1,796	2,057									
	End	2,048							566	1,057	1,546	2,032	2,518	3,003	3,487									
G2x02.5-SR3	Start	2,634								1,562	2,206	2,848	3,488	4,125								114.1	193.9	
	Min	1,245							694	1,039	1,381	1,722	2,061											
	End	2,035							965	1,608	2,248	2,886	3,522											
G2x03.0-SR3	Start	2,607					1,641	2,643	3,641													74.9	127.2	
	Min	1,236					733	1,265	1,792															
	End	2,009					1,044	2,044	3,039															
G2x03.5-SR3	Start	2,568			1,843	2,554	3,264															53.2	90.5	
	Min	1,222			844	1,220	1,594																	
	End	1,970			1,245	1,955	2,663																	
G2x04.0-SR3	Start	2,555	1,363	2,318	3,272	4,223																39.9	67.8	
	Min	1,217	589	1,095	1,596	2,096																		
	End	1,957	766	1,720	2,671	3,620																		
G2x01.7-SR4	Start	2,379														1,167	1,409	1,651	1,894	2,138	2,261	260.0	344.7	
	Min	1,107													501	634	766	898	1,030	1,096				
	End	1,793													583	824	1,066	1,308	1,552	1,674				
G2x02.0-SR4	Start	2,364										1,225	1,580	1,933	2,285	2,638	2,990	3,344	3,698	4,055	4,234	178.8	339.3	
	Min	1,102									526	720	911	1,102	1,293	1,483	1,674	1,865	2,056	2,152				
	End	1,778									641	994	1,347	1,699	2,050	2,402	2,754	3,108	3,463	3,642				
G2x02.2-SR4	Start	2,352								1,445	1,938	2,427	2,915	3,402	3,888	4,374						132.0	250.6	
	Min	1,098							637	902	1,165	1,427	1,687	1,948	2,208									
	End	1,765							861	1,352	1,840	2,327	2,812	3,297	3,782									
G2x02.5-SR4	Start	2,338						1,196	1,845	2,490	3,132	3,771	4,408									102.1	193.9	
	Min	1,093						498	847	1,191	1,533	1,873	2,213											
	End	1,752						612	1,259	1,903	2,543	3,180	3,816											
G2x03.0-SR4	Start	2,312				1,421	1,925	2,927	3,924													67.0	127.2	
	Min	1,084				618	886	1,416	1,943															
	End	1,726				837	1,339	2,338	3,333															
G2x03.5-SR4	Start	2,273		1,413	2,126	2,838	3,548															47.7	90.5	
	Min	1,070		618	996	1,371	1,745																	
	End	1,687		828	1,540	2,250	2,958																	
G2x04.0-SR4	Start	2,260	1,646	2,602	3,555	4,507																35.7	67.8	
	Min	1,066	743	1,247	1,748	2,247																		
	End	1,674	1,061	2,014	2,965	3,914																		

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			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350			
			Air Torque Output, Nm																								
G3x02.2-SR1	Start	6,096																				2,656	3,160	3,666	3,920	315.7	344.7
	Min	2,818																				1,079	1,358	1,635	1,773		
	End	4,614																				1,179	1,682	2,187	2,440		
G3x02.5-SR1	Start	6,080														3,334	4,016	4,699	5,382	6,068						235.7	312.1
	Min	2,813														1,427	1,798	2,167	2,535	2,903							
	End	4,598														1,856	2,536	3,217	3,899	4,583							
G3x03.0-SR1	Start	6,048									2,856	3,970	5,080	6,187												148.6	196.7
	Min	2,801									1,139	1,742	2,336	2,927													
	End	4,566									1,379	2,490	3,597	4,702													
G3x03.5-SR1	Start	6,016								3,110	4,736	6,355														103.4	136.9
	Min	2,790								1,268	2,139	2,998															
	End	4,534								1,632	3,254	4,870															
G3x04.0-SR1	Start	5,985						3,780	5,994																	76.5	101.4
	Min	2,779						1,627	2,800																		
	End	4,503						2,301	4,510																		
G3x04.5-SR1	Start	5,953			3,513	4,956	6,396																			59.1	78.3
	Min	2,768			1,485	2,251	3,011																				
	End	4,471			2,034	3,474	4,911																				
G3x02.2-SR2	Start	5,299																2,265	2,766	3,268	3,771	4,277	4,531		275.9	344.7	
	Min	2,453																912	1,190	1,465	1,739	2,013	2,150				
	End	4,004																975	1,474	1,975	2,478	2,982	3,236				
G3x02.5-SR2	Start	5,283											2,580	3,263	3,946	4,628	5,310	5,994	6,679						206.0	312.1	
	Min	2,447											1,064	1,438	1,807	2,175	2,542	2,909	3,276								
	End	3,988											1,289	1,971	2,652	3,332	4,013	4,695	5,379								
G3x03.0-SR2	Start	5,251									3,468	4,581	5,691	6,798											129.8	196.7	
	Min	2,436									1,524	2,119	2,711	3,300													
	End	3,956									2,175	3,286	4,393	5,498													
G3x03.5-SR2	Start	5,219							3,721	5,347	6,967														90.3	136.9	
	Min	2,425							1,651	2,514	3,371																
	End	3,924							2,427	4,050	5,666																
G3x04.0-SR2	Start	5,187				3,281	4,391	6,606																	66.9	101.4	
	Min	2,414				1,415	2,005	3,173																			
	End	3,893				1,988	3,096	5,306																			
G3x04.5-SR2	Start	5,155			2,678	4,124	5,567	7,007																	51.7	78.3	
	Min	2,403			1,095	1,865	2,626	3,383																			
	End	3,861			1,387	2,830	4,269	5,707																			

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			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350
			Air Torque Output, Nm																					
G3x02.2-SR3	Start	4,613													2,291	2,791	3,292	3,794	4,297	4,803	5,057	241.6	344.7	
	Min	2,138													970	1,245	1,518	1,790	2,062	2,335	2,472			
	End	3,479													1,160	1,659	2,159	2,659	3,162	3,667	3,920			
G3x02.5-SR3	Start	4,597													2,421	3,106	3,790	4,472	5,154	5,836	6,520	7,205	180.4	312.1
	Min	2,133													1,022	1,394	1,763	2,130	2,497	2,863	3,229	3,596		
	End	3,463													1,290	1,973	2,655	3,336	4,017	4,697	5,380	6,064		
G3x03.0-SR3	Start	4,565									2,876	3,994	5,107	6,217	7,324								113.7	196.7
	Min	2,122									1,251	1,848	2,441	3,031	3,620									
	End	3,431									1,743	2,859	3,970	5,078	6,182									
G3x03.5-SR3	Start	4,533							2,614	4,247	5,873	7,493											79.1	136.9
	Min	2,110							1,106	1,975	2,835	3,691												
	End	3,399							1,482	3,112	4,734	6,351												
G3x04.0-SR3	Start	4,502			2,694	3,807	4,918	7,132															58.6	101.4
	Min	2,099			1,150	1,741	2,327	3,493																
	End	3,367			1,563	2,673	3,781	5,990																
G3x04.5-SR3	Start	4,470			3,204	4,650	6,093	7,534															45.3	78.3
	Min	2,088			1,424	2,187	2,946	3,703																
	End	3,336			2,071	3,514	4,954	6,391																
G3x02.0-SR4	Start	4,038																	1,810	2,151	2,494	2,667	304.7	344.7
	Min	1,873																	770	960	1,149	1,244		
	End	3,042																	817	1,158	1,500	1,672		
G3x02.2-SR4	Start	4,023													1,741	2,242	2,743	3,243	3,744	4,246	4,750	5,256	212.1	344.7
	Min	1,868													701	979	1,253	1,525	1,796	2,067	2,339	2,611		
	End	3,027													748	1,249	1,748	2,248	2,747	3,248	3,751	4,256		
G3x02.5-SR4	Start	4,007													2,186	2,873	3,558	4,242	4,924	5,606	6,288	6,972	158.4	312.1
	Min	1,862													931	1,304	1,673	2,040	2,406	2,772	3,138	3,503		
	End	3,011													1,192	1,878	2,562	3,244	3,925	4,605	5,286	5,968		
G3x03.0-SR4	Start	3,975								2,204	3,328	4,446	5,560	6,669	7,776								99.8	196.7
	Min	1,851								929	1,530	2,125	2,716	3,306	3,894									
	End	2,980								1,211	2,332	3,448	4,559	5,666	6,771									
G3x03.5-SR4	Start	3,944					2,247	3,066	4,699	6,325	7,945												69.5	136.9
	Min	1,840					950	1,387	2,251	3,109	3,965													
	End	2,948					1,253	2,071	3,701	5,323	6,939													
G3x04.0-SR4	Start	3,912			2,031	3,147	4,259	5,370	7,584														51.4	101.4
	Min	1,829			837	1,431	2,018	2,603	3,768															
	End	2,916			1,038	2,151	3,262	4,370	6,579															
G3x04.5-SR4	Start	3,880		2,208	3,657	5,102	6,545	7,986															39.7	78.3
	Min	1,818			936	1,703	2,463	3,221	3,977															
	End	2,884			1,214	2,660	4,103	5,543	6,980															

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg			
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350
			Air Torque Output, Nm																					
G4x03.0-SR1	Start	12,531															6,194	7,392	8,591	9,793	11,000	11,606	274.5	344.7
	Min	5,645															2,399	3,062	3,716	4,368	5,018	5,342		
	End	9,036															2,712	3,906	5,103	6,302	7,506	8,110		
G4x03.5-SR1	Start	12,492										6,872	8,682	10,489	12,294								185.3	241.0
	Min	5,632										2,722	3,707	4,679	5,646									
	End	8,998										3,388	5,193	6,996	8,796									
G4x04.0-SR1	Start	12,453								8,154	10,679	13,197											134.8	175.3
	Min	5,618								3,393	4,746	6,088												
	End	8,959								4,667	7,185	9,697												
G4x04.5-SR1	Start	12,410								7,022	10,348	13,662											102.9	133.9
	Min	5,603								2,776	4,563	6,325												
	End	8,915								3,537	6,855	10,161												
G4x05.0-SR1	Start	12,370							7,237	11,474													81.4	105.9
	Min	5,589							2,888	5,151														
	End	8,876							3,752	7,978														
G4x06.0-SR1	Start	12,292				9,158	12,326																54.9	71.4
	Min	5,561				3,917	5,595																	
	End	8,798				5,668	8,829																	
G4x03.0-SR2	Start	10,926														6,446	7,643	8,840	10,040	11,242	12,449	13,054	240.3	344.7
	Min	4,846														2,573	3,231	3,881	4,530	5,177	5,825	6,149		
	End	7,591														3,119	4,312	5,507	6,703	7,903	9,106	9,710		
G4x03.5-SR2	Start	10,888										6,506	8,321	10,131	11,937	13,742							162.2	241.0
	Min	4,833										2,560	3,547	4,520	5,488	6,452								
	End	7,552										3,178	4,988	6,794	8,596	10,397								
G4x04.0-SR2	Start	10,849									7,070	9,603	12,127	14,646									118.0	175.3
	Min	4,819									2,848	4,209	5,555	6,892										
	End	7,514									3,741	6,267	8,786	11,298										
G4x04.5-SR2	Start	10,805									8,470	11,797	15,110										90.1	133.9
	Min	4,804									3,600	5,372	7,130											
	End	7,470									5,138	8,456	11,761											
G4x05.0-SR2	Start	10,766					6,561	8,686	12,922														71.3	105.9
	Min	4,790					2,568	3,710	5,958															
	End	7,431					3,233	5,353	9,579															
G4x06.0-SR2	Start	10,688				7,431	10,606	13,775															48.1	71.4
	Min	4,762				3,041	4,730	6,401																
	End	7,353				4,101	7,268	10,429																

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg																
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350													
			Air Torque Output, Nm																																		
G4x03.0-SR3	Start	9,169																				5,273	6,471	7,669	8,865	10,063	11,262	12,464	13,671	14,277	202.9	344.7					
	Min	4,077																					2,084	2,742	3,393	4,040	4,684	5,328	5,973	6,618			6,941				
	End	6,372																						2,482	3,678	4,872	6,066	7,260	8,457	9,656			10,860	11,464			
G4x03.5-SR3	Start	9,130									5,907	7,728	9,543	11,353	13,160	14,964																	136.9	241.0			
	Min	4,064									2,398	3,381	4,352	5,319	6,282	7,244																					
	End	6,333									3,115	4,932	6,742	8,547	10,350	12,150																					
G4x04.0-SR3	Start	9,092									5,749	8,292	10,825	13,350	15,868																		99.6	175.3			
	Min	4,050									2,298	3,663	5,010	6,349	7,683																						
	End	6,295									2,958	5,494	8,021	10,539	13,051																						
G4x04.5-SR3	Start	9,048									6,351	9,692	13,019	16,333																				76.1	133.9		
	Min	4,035									2,624	4,405	6,167	7,920																							
	End	6,251									3,558	6,891	10,209	13,515																							
G4x05.0-SR3	Start	9,009				5,653	7,783	9,908	14,145																										60.2	105.9	
	Min	4,021				2,247	3,387	4,514	6,750																												
	End	6,212				2,862	4,987	7,106	11,332																												
G4x06.0-SR3	Start	8,930		5,472	8,654	11,828	14,997																												40.6	71.4	
	Min	3,993		2,156	3,853	5,527	7,193																														
	End	6,133		2,681	5,855	9,022	12,183																														
G4x02.5-SR4	Start	7,573																	3,942	4,628	5,318	6,011	6,360											283.5	344.7		
	Min	3,398																	1,591	1,974	2,354	2,733	2,923														
	End	5,356																	1,731	2,416	3,104	3,796	4,143														
G4x03.0-SR4	Start	7,534										3,922	5,128	6,330	7,529	8,726	9,922	11,120	12,319	13,521	14,728	15,334												168.0	344.7		
	Min	3,385										1,514	2,177	2,829	3,475	4,119	4,761	5,403	6,045	6,688	7,332	7,654															
	End	5,317										1,712	2,915	4,113	5,309	6,504	7,697	8,892	10,088	11,287	12,491	13,095															
G4x03.5-SR4	Start	7,496									5,136	6,965	8,785	10,600	12,410	14,217	16,022																		113.4	241.0	
	Min	3,371									2,155	3,136	4,107	5,073	6,036	6,997	7,956																				
	End	5,279									2,923	4,747	6,563	8,373	10,179	11,981	13,781																				
G4x04.0-SR4	Start	7,457							4,253	6,807	9,349	11,882	14,407	16,925																					82.5	175.3	
	Min	3,358							1,669	3,038	4,387	5,727	7,063	8,395																							
	End	5,240							2,042	4,589	7,125	9,652	12,170	14,682																							
G4x04.5-SR4	Start	7,413				4,050	5,731	7,408	10,750	14,076	17,390																									63.0	133.9
	Min	3,342				1,561	2,467	3,358	5,125	6,882	8,632																										
	End	5,196				1,839	3,516	5,189	8,522	11,841	15,146																										
G4x05.0-SR4	Start	7,374				4,576	6,711	8,840	10,965	15,202																										49.8	105.9
	Min	3,329				1,849	2,988	4,113	5,233	7,464																											
	End	5,157				2,364	4,493	6,618	8,738	12,963																											
G4x06.0-SR4	Start	7,295		6,530	9,711	12,886	16,055																													33.6	71.4
	Min	3,301		2,899	4,576	6,243	7,906																														
	End	5,079		4,313	7,486	10,653	13,814																														

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg			
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350
			Air Torque Output, Nm																					
G5x04.0-SR1	Start	28,500														17,676	20,427	23,184	25,947	28,721	30,113	270.0	344.7	
	Min	11,971														6,420	7,966	9,487	10,995	12,499	13,251			
	End	17,726														6,913	9,659	12,409	15,167	17,936	19,324			
G5x04.5-SR1	Start	28,449												19,708	23,491	27,269	31,046					199.4	261.9	
	Min	11,953											7,460	9,542	11,595	13,634								
	End	17,676											8,941	12,716	16,486	20,255								
G5x05.0-SR1	Start	28,398												21,332	26,283	31,223						154.3	201.3	
	Min	11,935											8,293	10,983	13,642									
	End	17,625											10,561	15,502	20,432									
G5x06.0-SR1	Start	28,297							19,728	27,411												101.3	133.0	
	Min	11,899							7,355	11,515														
	End	17,523							8,961	16,628														
G5x07.0-SR1	Start	28,195					19,193	24,648														72.0	94.6	
	Min	11,863					7,047	10,009																
	End	17,422					8,427	13,870																
G5x08.0-SR1	Start	28,070			24,588	31,863																54.0	70.9	
	Min	11,819			9,988	13,867																		
	End	17,297			13,811	21,071																		
G5x04.0-SR2	Start	25,514														17,732	20,482	23,234	25,990	28,754	31,528	32,919	242.3	344.7
	Min	10,438														6,479	8,020	9,537	11,042	12,541	14,037	14,786		
	End	14,925														7,148	9,893	12,639	15,390	18,148	20,916	22,305		
G5x04.5-SR2	Start	25,464														18,725	22,515	26,297	30,075	33,852			178.9	261.9
	Min	10,420														6,946	9,038	11,096	13,137	15,169				
	End	14,875														8,139	11,922	15,696	19,467	23,236				
G5x05.0-SR2	Start	25,413														19,172	24,138	29,089	34,029				138.5	201.3
	Min	10,402														7,143	9,859	12,529	15,177					
	End	14,824														8,586	13,542	18,483	23,413					
G5x06.0-SR2	Start	25,311														22,534	30,217						90.9	133.0
	Min	10,366														8,935	13,058							
	End	14,722														11,941	19,608							
G5x07.0-SR2	Start	25,210					21,999	27,454															64.6	94.6
	Min	10,330					8,633	11,561																
	End	14,621					11,407	16,851																
G5x08.0-SR2	Start	25,085			20,104	27,395	34,670																48.5	70.9
	Min	10,285			7,617	11,540	15,402																	
	End	14,496			9,516	16,791	24,052																	

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg			
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350
			Air Torque Output, Nm																					
G5x03.5-SR3	Start	20,497																12,978	14,830	16,689	18,556	19,495	284.1	344.7
	Min	8,573																4,812	5,859	6,892	7,919	8,432		
	End	12,559																5,047	6,895	8,750	10,614	11,550		
G5x04.0-SR3	Start	20,446												14,647	17,403	20,154	22,904	25,656	28,412	31,176	33,950	35,341	195.3	344.7
	Min	8,555												5,626	7,147	8,649	10,140	11,626	13,110	14,594	16,080	16,824		
	End	12,508												6,713	9,462	12,208	14,953	17,699	20,450	23,208	25,976	27,364		
G5x04.5-SR3	Start	20,395								13,533	17,347	21,147	24,937	28,719	32,497	36,274							144.2	261.9
	Min	8,537								4,937	7,040	9,097	11,136	13,164	15,185	17,204								
	End	12,457								5,601	9,407	13,199	16,981	20,756	24,527	28,296								
G5x05.0-SR3	Start	20,344								16,611	21,594	26,560	31,512	36,451									111.6	201.3
	Min	8,519								6,600	9,288	11,943	14,582	17,212										
	End	12,407								8,672	13,646	18,601	23,543	28,472										
G5x06.0-SR3	Start	20,243					13,378	17,245	24,956	32,639													73.2	133.0
	Min	8,483					4,800	6,916	11,035	15,106														
	End	12,305					5,446	9,305	17,001	24,668														
G5x07.0-SR3	Start	20,141			13,483	18,957	24,421	29,876															52.1	94.6
	Min	8,447			4,862	7,832	10,739	13,623																
	End	12,204			5,551	11,014	16,467	21,910																
G5x08.0-SR3	Start	20,016		15,220	22,526	29,817	37,092																39.1	70.9
	Min	8,402		5,834	9,747	13,603	17,436																	
	End	12,079		7,284	14,576	21,851	29,111																	
G5x03.5-SR4	Start	17,040													11,276	13,122	14,970	16,822	18,681	20,549	21,487	237.4	344.7	
	Min	7,183													4,318	5,352	6,374	7,389	8,402	9,415	9,922			
	End	10,570													4,811	6,654	8,498	10,346	12,201	14,065	15,001			
G5x04.0-SR4	Start	16,989									11,105	13,877	16,640	19,395	22,146	24,896	27,648	30,405	33,168	35,942	37,333	163.2	344.7	
	Min	7,165									4,120	5,656	7,161	8,653	10,137	11,617	13,096	14,574	16,053	17,536	18,279			
	End	10,519									4,641	7,407	10,164	12,913	15,659	18,404	21,150	23,901	26,659	29,427	30,815			
G5x04.5-SR4	Start	16,938								11,695	15,525	19,339	23,139	26,929	30,712	34,490	38,267					120.5	261.9	
	Min	7,147								4,403	6,494	8,547	10,583	12,608	14,628	16,643	18,658							
	End	10,469								5,229	9,052	12,858	16,650	20,432	24,207	27,978	31,747							
G5x05.0-SR4	Start	16,888							13,598	18,603	23,587	28,553	33,504	38,444								93.3	201.3	
	Min	7,129							5,423	8,115	10,772	13,412	16,041	18,666										
	End	10,418							7,128	12,123	17,097	22,052	26,994	31,923										
G5x06.0-SR4	Start	16,786				11,495	15,370	19,238	26,949	34,632												61.2	133.0	
	Min	7,094				4,263	6,363	8,425	12,507	16,564														
	End	10,317				5,029	8,897	12,756	20,452	28,119														
G5x07.0-SR4	Start	16,684			15,475	20,950	26,414	31,868														43.5	94.6	
	Min	7,058			6,422	9,330	12,213	15,085																
	End	10,215			9,002	14,465	19,918	25,361																
G5x08.0-SR4	Start	16,559		17,212	24,519	31,809	39,084															32.6	70.9	
	Min	7,013		7,364	11,227	15,064	18,889																	
	End	10,090		10,735	18,027	25,302	32,562																	

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg			
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350
			Air Torque Output, Nm																					
G7x04.5-SR1	Start	56,592																			39,255	41,432	342.6	344.7
	Min	23,211																			14,417	15,636		
	End	33,566																			16,242	18,415		
G7x05.0-SR1	Start	56,529															40,341	46,065	51,796	57,538	63,294	66,179	261.0	337.0
	Min	23,189															14,874	18,047	21,179	24,290	27,391	28,941		
	End	33,503															17,326	23,038	28,757	34,486	40,231	43,110		
G7x06.0-SR1	Start	56,404										37,932	46,966	55,984	64,990								168.2	217.2
	Min	23,144										13,329	18,334	23,223	28,063									
	End	33,379										14,922	23,937	32,936	41,924									
G7x07.0-SR1	Start	56,280								43,103	56,073	69,014											118.4	152.9
	Min	23,100								16,127	23,158	30,076												
	End	33,254								20,082	33,025	45,939												
G7x08.0-SR1	Start	56,126									52,304												88.3	114.0
	Min	23,046									21,124													
	End	33,101									29,264													
G7x09.0-SR1	Start	55,997					43,854	55,160															68.5	88.5
	Min	23,000					16,518	22,630																
	End	32,972					20,831	32,114																
G7x10.0-SR1	Start	55,869				49,558	63,737																54.8	70.8
	Min	22,954				19,610	27,192																	
	End	32,844				26,523	40,672																	
G7x04.5-SR2	Start	49,920																	34,416	38,744	43,086	45,264	302.8	344.7
	Min	20,533																	12,647	15,063	17,449	18,636		
	End	29,742																	14,249	18,568	22,901	25,074		
G7x05.0-SR2	Start	49,858													32,728	38,451	44,173	49,897	55,628	61,369	67,126	70,011	230.7	337.0
	Min	20,511													11,545	14,752	17,893	21,000	24,093	27,177	30,258	31,799		
	End	29,679													12,565	18,276	23,986	29,698	35,417	41,146	46,891	49,770		
G7x06.0-SR2	Start	49,733										32,708	41,764	50,798	59,816	68,822							148.7	217.2
	Min	20,467										11,382	16,397	21,283	26,118	30,926								
	End	29,555										12,545	21,581	30,597	39,596	48,583								
G7x07.0-SR2	Start	49,608								33,930	46,934	59,904	72,846										104.7	152.9
	Min	20,423								12,013	19,116	26,053	32,931											
	End	29,430								13,764	26,741	39,684	52,599											
G7x08.0-SR2	Start	49,455								38,670	56,135												78.0	114.0
	Min	20,368								14,640	24,039													
	End	29,277								18,494	35,923													
G7x09.0-SR2	Start	49,326				36,359	47,685	58,992															60.6	88.5
	Min	20,322				13,361	19,500	25,530																
	End	29,148				16,188	27,491	38,773																
G7x10.0-SR2	Start	49,197			39,188	53,390	67,568																48.4	70.8
	Min	20,277			14,915	22,542	30,061																	
	End	29,020			19,011	33,183	47,332																	

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																		MinOP barg	MOP barg					
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300	320			340	350			
			Air Torque Output, Nm																								
G7x04.5-SR3	Start	41,051														26,576	30,885	35,197	39,515	43,843	48,186	50,363	249.9	344.7			
	Min	16,972														9,481	11,905	14,283	16,637	18,982	21,322	22,492					
	End	24,653														10,191	14,491	18,794	23,103	27,422	31,755	33,928					
G7x05.0-SR3	Start	40,989														26,358	32,098	37,827	43,551	49,272	54,996	60,727	66,468	72,225	75,110	190.4	337.0
	Min	16,950														9,241	12,450	15,582	18,679	21,759	24,829	27,895	30,958	34,026	35,561		
	End	24,590														9,974	15,701	21,419	27,130	32,840	38,552	44,271	50,000	55,745	58,624		
G7x06.0-SR3	Start	40,864														28,726	37,807	46,863	55,897	64,915	73,921					122.7	217.2
	Min	16,906														10,466	15,427	20,289	25,108	29,906	34,692						
	End	24,466														12,337	21,399	30,435	39,451	48,450	57,437						
G7x07.0-SR3	Start	40,739														39,029	52,033	65,004	77,945							86.4	152.9
	Min	16,861														16,030	22,966	29,842	36,687								
	End	24,341														22,618	35,595	48,538	61,453								
G7x08.0-SR3	Start	40,585														35,012	43,769	61,235								64.4	114.0
	Min	16,807														13,873	18,570	27,842									
	End	24,188														18,609	27,348	44,777									
G7x09.0-SR3	Start	40,457														30,110	41,458	52,784	64,091							50.0	88.5
	Min	16,761														11,207	17,327	23,345	29,321								
	End	24,059														13,718	25,042	36,345	47,627								
G7x10.0-SR3	Start	40,328														30,061	44,287	58,489	72,667							40.0	70.8
	Min	16,715														11,190	18,838	26,356	33,829								
	End	23,931														13,669	27,865	42,037	56,186								

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg				
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350	
			Air Torque Output, Nm																						
G7x04.0-SR4	Start	34,442																21,342	24,398	27,463	30,542	32,087	291.8	344.7	
	Min	14,317																7,632	9,369	11,074	12,765	13,609			
	End	20,891																	7,804	10,853	13,912	16,984			18,527
G7x04.5-SR4	Start	34,380											21,780	26,096	30,408	34,717	39,029	43,347	47,675	52,017	54,195	210.1	344.7		
	Min	14,295											7,726	10,150	12,519	14,865	17,197	19,524	21,847	24,172	25,335				
	End	20,829											8,241	12,548	16,851	21,151	25,454	29,763	34,082	38,415	40,588				
G7x05.0-SR4	Start	34,317											24,436	30,190	35,929	41,659	47,382	53,104	58,828	64,558	70,300	76,057	78,942	160.1	337.0
	Min	14,273											9,132	12,291	15,397	18,478	21,546	24,606	27,662	30,716	33,772	36,833	38,366		
	End	20,766											10,891	16,633	22,361	28,078	33,790	39,499	45,212	50,930	56,660	62,404	65,284		
G7x06.0-SR4	Start	34,193								23,446	32,558	41,639	50,694	59,729	68,746	77,753								103.1	217.2
	Min	14,228								8,502	13,467	18,325	23,145	27,941	32,722	37,497									
	End	20,642								9,903	18,996	28,059	37,095	46,110	55,109	64,097									
G7x07.0-SR4	Start	34,068					23,277	29,816	42,860	55,865	68,835	81,776												72.6	152.9
	Min	14,184					8,389	11,959	18,921	25,806	32,658	39,490													
	End	20,517					9,735	16,260	29,277	42,255	55,198	68,112													
G7x08.0-SR4	Start	33,914					30,067	38,843	47,601	65,066														54.1	114.0
	Min	14,129					12,106	16,795	21,437	30,663															
	End	20,364					16,511	25,269	34,008	51,437															
G7x09.0-SR4	Start	33,786		22,572	33,942	45,290	56,616	67,922																42.0	88.5
	Min	14,084		8,021	14,184	20,206	26,183	32,138																	
	End	20,235		9,032	20,378	31,701	43,004	54,287																	
G7x10.0-SR4	Start	33,657		33,893	48,119	62,320	76,499																	33.6	70.8
	Min	14,038		14,168	21,703	29,184	36,637																		
	End	20,107		20,329	34,525	48,697	62,846																		

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg			
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350
			Air Torque Output, Nm																					
G8x06.0-SR1	Start	83,489													50,380	60,124	69,865	79,610	89,365	99,135				
	Min	36,219													18,976	24,321	29,594	34,832	40,053	45,265				
	End	56,003													22,921	32,647	42,370	52,096	61,832	71,583				
G8x07.0-SR1	Start	83,341										57,889	72,276	86,641	100,989									
	Min	36,167										22,895	30,652	38,329	45,966									
	End	55,856										30,416	44,776	59,113	73,434									
G8x08.0-SR1	Start	83,159								60,534	80,180	99,771												
	Min	36,103								24,300	34,839	45,269												
	End	55,674								33,056	52,664	72,219												
G8x09.0-SR1	Start	83,007								70,927	96,661													
	Min	36,049								29,812	43,495													
	End	55,522								43,430	69,114													
G8x10.0-SR1	Start	82,854					55,722	72,039	104,599															
	Min	35,995					21,604	30,367	47,632															
	End	55,370					28,253	44,539	77,037															
G8x12.0-SR1	Start	82,498			61,839	86,002	110,123																	
	Min	35,870			24,923	37,786	50,525																	
	End	55,014			34,359	58,476	82,551																	
G8x05.0-SR2	Start	67,189																39,740	45,626	51,531				
	Min	29,885																15,962	19,180	22,378				
	End	47,508																20,082	25,957	31,851				
G8x06.0-SR2	Start	67,041											39,518	49,286	59,038	68,782	78,524	88,269	98,023	107,793				
	Min	29,833											15,521	20,821	26,059	31,269	36,463	41,653	46,834	52,021				
	End	47,360											19,861	29,610	39,344	49,069	58,792	68,519	78,254	88,006				
G8x07.0-SR2	Start	66,893								37,677	52,130	66,547	80,935	95,299	109,648									
	Min	29,781								14,384	22,187	29,873	37,510	45,122	52,719									
	End	47,213								18,023	32,449	46,838	61,198	75,536	89,856									
G8x08.0-SR2	Start	66,711								49,484	69,193	88,838	108,430											
	Min	29,718								20,752	31,248	41,660	52,025											
	End	47,031								29,807	49,479	69,087	88,641											
G8x09.0-SR2	Start	66,559					40,831	53,772	79,586	105,319														
	Min	29,664					16,064	23,001	36,679	50,260														
	End	46,879					21,171	34,087	59,852	85,536														
G8x10.0-SR2	Start	66,406				48,037	64,381	80,698	113,257															
	Min	29,611				19,929	28,613	37,228	54,378															
	End	46,726				28,363	44,676	60,962	93,459															
G8x12.0-SR2	Start	66,050		46,291	70,498	94,661	118,782																	
	Min	29,485		19,028	31,861	44,584	57,262																	
	End	46,371		26,620	50,781	74,898	98,973																	

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																		MinOP barg	MOP barg		
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300	320			340	350
			Air Torque Output, Nm																					
G8x05.0-SR3	Start	56,882														29,419	35,280	41,144	47,017	52,903	58,808	254.5	328.5	
	Min	25,339														11,166	14,409	17,606	20,783	23,952	27,118			
	End	40,244														12,810	18,659	24,512	30,373	36,248	42,142			
G8x06.0-SR3	Start	56,734									37,007	46,795	56,562	66,315	76,059	85,800	95,545	105,300	115,070			156.1	321.6	
	Min	25,287									15,078	20,351	25,575	30,774	35,962	41,139	46,317	51,490	56,668					
	End	40,097									20,383	30,152	39,900	49,634	59,360	69,083	78,809	88,545	98,297					
G8x07.0-SR3	Start	56,586								44,953	59,407	73,824	88,211	102,576	116,924							107.1	220.7	
	Min	25,235								19,239	26,929	34,571	42,183	49,781	57,365									
	End	39,949								28,314	42,740	57,129	71,489	85,826	100,147									
G8x08.0-SR3	Start	56,404						36,977	56,760	76,469	96,115	115,707										78.6	162.0	
	Min	25,171					14,956	25,507	35,941	46,324	56,672													
	End	39,768					20,353	40,098	59,770	79,378	98,932													
G8x09.0-SR3	Start	56,252			35,142	48,107	61,048	86,863	112,596													60.4	124.5	
	Min	25,118			13,951	20,883	27,737	41,354	54,910															
	End	39,615			18,521	31,462	44,378	70,143	95,827															
G8x10.0-SR3	Start	56,100		38,942	55,314	71,657	87,974	120,534														48.0	98.9	
	Min	25,064		15,997	24,693	33,314	41,902	59,021																
	End	39,463		22,314	38,654	54,967	71,252	103,750																
G8x12.0-SR3	Start	55,743	53,567	77,774	101,937	126,058																32.5	67.0	
	Min	24,939	23,802	36,551	49,243	61,904																		
	End	39,107	36,911	61,072	85,189	109,264																		

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																		MinOP barg	MOP barg		
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300	320			340	350
			Air Torque Output, Nm																					
G10x07.0-SR1	Start	193,489																129,593	147,007	164,445	181,916	190,666	296.1	344.7
	Min	78,575																44,841	54,627	64,221	73,716	78,447		
	End	112,687																48,840	66,221	83,625	101,062	109,796		
G10x08.0-SR1	Start	193,251												152,718	176,864	201,005							213.0	260.8
	Min	78,489												57,670	70,892	83,954								
	End	112,448												71,921	96,020	120,114								
G10x09.0-SR1	Start	193,050										143,363	175,498	207,582									161.6	195.8
	Min	78,418										52,170	69,785	87,096										
	End	112,248										62,584	94,656	126,678										
G10x10.0-SR1	Start	192,850								131,967	173,090	214,126											127.3	155.8
	Min	78,346								45,600	68,259	90,336												
	End	112,048								51,210	92,254	133,210												
G10x12.0-SR1	Start	192,382								192,753													85.3	104.5
	Min	78,179								78,733														
	End	111,581								111,878														
G10x14.0-SR1	Start	191,969				141,816	184,938																61.4	75.2
	Min	78,032				50,977	74,425																	
	End	111,169				61,039	104,079																	
G10x07.0-SR2	Start	155,732														113,104	130,497	147,897	165,311	182,748	200,219	208,970	238.9	344.7
	Min	64,460														42,341	51,881	61,311	70,679	80,016	89,342	93,997		
	End	94,417														51,812	69,172	86,538	103,918	121,322	138,759	147,493		
G10x08.0-SR2	Start	155,493												122,658	146,856	171,021	195,168	219,308					171.9	260.8
	Min	64,375												47,479	60,629	73,631	86,560	99,441						
	End	94,179												61,348	85,499	109,618	133,717	157,811						
G10x09.0-SR2	Start	155,292									129,467	161,667	193,801	225,885									130.4	195.8
	Min	64,304									50,953	68,307	85,474	102,547										
	End	93,979									68,143	100,281	132,354	164,376										
G10x10.0-SR2	Start	155,092								109,044	150,271	191,394	232,429										102.7	155.8
	Min	64,233								39,648	62,029	83,975	105,760											
	End	93,779								47,760	88,907	129,951	170,907											
G10x12.0-SR2	Start	154,624					118,436	149,358	211,056														68.8	104.5
	Min	64,067					44,772	61,465	94,279															
	End	93,311					57,133	87,997	149,575															
G10x14.0-SR2	Start	154,212			116,932	160,119	203,242																49.5	75.2
	Min	63,920			43,932	67,164	90,040																	
	End	92,899			55,633	98,737	141,776																	

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg			
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350
			Air Torque Output, Nm																					
G13x09.0-SR1	Start	430,729																336,422	374,205	412,069	431,039	302.2	333.5	
	Min	167,685																119,003	140,130	160,942	171,275			
	End	228,786																134,565	172,263	210,041	228,968			
G13x10.0-SR1	Start	430,472												310,752	359,785	408,807						233.8	258.1	
	Min	167,592												103,516	131,321	158,347								
	End	228,529												108,954	157,875	206,786								
G13x12.0-SR1	Start	429,869											372,761									153.5	169.3	
	Min	167,376											137,839											
	End	227,928											170,821											
G13x14.0-SR1	Start	429,338									409,073											109.1	120.5	
	Min	167,185									157,137													
	End	227,398									207,052													
G13x16.0-SR1	Start	428,807							339,052													81.8	90.3	
	Min	166,995							118,297															
	End	226,868							137,189															
G13x18.0-SR1	Start	428,276			317,927	410,223																63.8	70.4	
	Min	166,804			106,260	157,334																		
	End	226,338			116,112	208,199																		
G13x09.0-SR2	Start	371,580														290,591	328,280	366,004	403,787	441,651	460,621	261.0	333.5	
	Min	145,352														103,479	124,486	145,165	165,680	186,097	196,276			
	End	199,269														118,353	155,956	193,596	231,293	269,071	287,998			
G13x10.0-SR2	Start	371,323											291,267	340,334	389,367	438,389						202.0	258.1	
	Min	145,260											103,168	130,384	157,088	183,545								
	End	199,012											119,028	167,984	216,905	265,817								
G13x12.0-SR2	Start	370,720									327,031	402,343										132.5	169.3	
	Min	145,044									122,497	163,442												
	End	198,411									154,711	229,852												
G13x14.0-SR2	Start	370,189							331,764	438,655												94.3	120.5	
	Min	144,853							124,655	182,355														
	End	197,881							159,433	266,082														
G13x16.0-SR2	Start	369,658				296,891	368,634															70.7	90.3	
	Min	144,663				105,258	144,485																	
	End	197,351				124,639	196,219																	
G13x18.0-SR2	Start	369,127			347,509	439,805																55.1	70.4	
	Min	144,472			132,974	182,548																		
	End	196,821			175,142	267,229																		

Torque - Hydraulic Spring Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																	MinOP barg	MOP barg						
			30	40	50	60	70	80	100	120	140	160	180	200	220	240	260	280	300			320	340	350			
			Air Torque Output, Nm																								
G13x08.0-SR3	Start	309,723																221,392	248,973	276,608	304,317	318,207	294.9	344.7			
	Min	120,609																74,337	90,133	105,543	120,766	128,346					
	End	164,234																	76,011	103,530	131,102	158,749			172,606		
G13x09.0-SR3	Start	309,465																250,599	288,284	325,960	363,649	401,374	439,157	477,021	495,990	217.8	333.5
	Min	120,517																90,176	111,081	131,651	152,045	172,342	192,586	212,817	222,918		
	End	163,976																	105,152	142,752	180,343	217,946	255,586	293,283	331,061		
G13x10.0-SR3	Start	309,208																228,302	277,511	326,637	375,704	424,737	473,759	168.5	258.1		
	Min	120,424																76,976	104,555	131,354	157,824	184,106	210,293				
	End	163,719																	82,905	132,003	181,018	229,974	278,895			327,807	
G13x12.0-SR3	Start	308,605																286,904	362,401	437,712	110.6	169.3					
	Min	120,208																109,276	150,102	190,377							
	End	163,118																141,374	216,701	291,842							
G13x14.0-SR3	Start	308,074																259,954	367,134	474,025	78.6	120.5					
	Min	120,018																94,183	152,211	209,116							
	End	162,588																114,486	221,423	328,072							
G13x16.0-SR3	Start	307,543																260,421	332,261	404,004	59.0	90.3					
	Min	119,827																94,354	133,361	171,672							
	End	162,058																114,952	186,629	258,209							
G13x18.0-SR3	Start	307,012																290,469	382,878	475,175	46.0	70.4					
	Min	119,636																110,781	160,364	209,308							
	End	161,528																144,932	237,132	329,219							
G13x08.0-SR4	Start	250,574																								239.1	344.7
	Min	98,277																									
	End	134,716																									
G13x09.0-SR4	Start	250,316																								176.6	333.5
	Min	98,184																									
	End	134,459																									
G13x10.0-SR4	Start	250,058																								136.6	258.1
	Min	98,092																									
	End	134,202																									
G13x12.0-SR4	Start	249,456																								89.7	169.3
	Min	97,876																									
	End	133,601																									
G13x14.0-SR4	Start	248,925																								63.8	120.5
	Min	97,685																									
	End	133,071																									
G13x16.0-SR4	Start	248,394																								47.8	90.3
	Min	97,495																									
	End	132,541																									
G13x18.0-SR4	Start	247,863																								37.3	70.4
	Min	97,304																									
	End	132,011																									