

## Torque - Pneumatic Double-Acting Actuator

Actuator Model	Metric Unit	Stroke Direction	Operating Pressure, barg																MinOP barg	MOP barg	
			2.7	3	3.2	3.5	3.7	4	4.2	4.5	4.7	5	5.5	6	6.5	7	7.5	8			8.5
			Air Torque Output, Nm																		
CBA730	Start		835	933	999	1,097	1,162	1,261	1,326	1,424	1,490	1,588	1,752	1,916	2,080	2,243	2,407			2.8	7.2
	Min	Outboard	446	498	532	584	618	670	704	755	790	841	927	1,013	1,099	1,185	1,271				
	End		854	953	1,018	1,117	1,183	1,281	1,347	1,445	1,511	1,610	1,774	1,938	2,102	2,267	2,431				
CBA730	Start		835	933	999	1,097	1,162	1,261	1,326	1,424	1,490	1,588	1,752	1,916	2,080	2,243	2,407			2.8	7.2
	Min	Inboard	446	498	532	584	618	670	704	755	790	841	927	1,013	1,099	1,185	1,271				
	End		854	953	1,018	1,117	1,183	1,281	1,347	1,445	1,511	1,610	1,774	1,938	2,102	2,267	2,431				
CBA830	Start		1,106	1,235	1,321	1,450	1,536	1,666	1,752	1,881	1,967	2,096	2,311							2.8	5.5
	Min	Outboard	590	657	702	770	815	883	928	995	1,041	1,108	1,221								
	End		1,128	1,257	1,344	1,473	1,559	1,689	1,775	1,904	1,991	2,120	2,336								
CBA830	Start		1,106	1,235	1,321	1,450	1,536	1,665	1,751	1,880	1,966	2,096	2,311							2.8	5.5
	Min	Inboard	590	657	702	770	815	883	928	995	1,041	1,108	1,221								
	End		1,128	1,257	1,343	1,473	1,559	1,689	1,775	1,904	1,991	2,120	2,336								
CBA930	Start		1,415	1,579	1,688	1,852	1,961	2,126	2,235	2,399	2,508									2.8	4.5
	Min	Outboard	752	838	895	981	1,039	1,125	1,182	1,268	1,325										
	End		1,439	1,603	1,713	1,877	1,987	2,151	2,261	2,426	2,535										
CBA930	Start		1,414	1,578	1,688	1,852	1,961	2,125	2,235	2,399	2,508									2.8	4.5
	Min	Inboard	752	838	895	981	1,039	1,125	1,182	1,268	1,325										
	End		1,439	1,603	1,713	1,877	1,987	2,151	2,261	2,425	2,535										
CBA1030	Start		1,882	2,099	2,244	2,461														2.8	3.4
	Min	Outboard	998	1,112	1,188	1,301															
	End		1,910	2,127	2,272	2,490															
CBA1030	Start		1,882	2,099	2,244	2,461														2.8	3.4
	Min	Inboard	998	1,112	1,188	1,301															
	End		1,910	2,127	2,272	2,489															

## Torque - Pneumatic Spring-Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																		MinOP barg	MOP barg		
			2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5			11	11.5
			Air Torque Output, Nm																					
CBA730-SR40	Start	484																				2.4	9.3	
	Min	198	409	564	719	874	1,029	1,184	1,338	1,493	1,648	1,803	1,958	2,113	2,268	2,423	2,578							
	End	275	202	357	513	668	823	979	1,134	1,290	1,445	1,600	1,756	1,911	2,067	2,222	2,378							
CBA730-SR60	Start	764			577	732	887	1,042	1,197	1,352	1,507	1,662	1,817	1,972	2,127	2,282	2,437	2,592				3.6	9.7	
	Min	304			203	289	372	455	537	619	701	782	864	945	1,027	1,108	1,190	1,271						
	End	416			233	388	543	699	854	1,010	1,165	1,320	1,476	1,631	1,787	1,942	2,098	2,253						
CBA730-SR80	Start	1,078						940	1,095	1,249	1,404	1,559	1,714	1,869	2,024	2,179	2,334	2,489				5.0	10.0	
	Min	405						331	417	501	584	667	749	831	913	995	1,077	1,158						
	End	519						384	540	695	851	1,006	1,161	1,317	1,472	1,628	1,783	1,939						
CBA730-SR100	Start	1,354								1,111	1,266	1,421	1,576	1,731	1,886	2,041	2,196	2,351	2,506			6.2	10.3	
	Min	510								377	465	549	633	716	799	882	964	1,046	1,128					
	End	658								420	575	731	886	1,041	1,197	1,352	1,508	1,663	1,819					
CBA830-SR40	Start	643	549	752	956	1,159	1,363	1,566	1,770	1,973	2,177	2,380	2,584									2.4	7.2	
	Min	262	213	322	430	538	645	752	859	966	1,073	1,180	1,286											
	End	367	275	479	683	887	1,091	1,295	1,499	1,703	1,907	2,111	2,315											
CBA830-SR60	Start	1,044			808	1,011	1,215	1,418	1,622	1,825	2,029	2,232	2,436									3.7	7.6	
	Min	397			267	381	492	601	709	817	924	1,032	1,139											
	End	515			282	486	690	894	1,098	1,302	1,506	1,710	1,915											
CBA830-SR80	Start	1,433						1,258	1,461	1,665	1,868	2,072	2,276	2,479								5.0	7.9	
	Min	533						438	551	662	771	880	988	1,096										
	End	675						505	709	913	1,117	1,321	1,525	1,730										
CBA830-SR100	Start	1,834								1,516	1,720	1,923	2,127	2,331	2,534							6.3	8.3	
	Min	667								490	607	720	831	941	1,050									
	End	824								512	716	920	1,124	1,328	1,532									

## Torque - Pneumatic Spring-Return Actuator

Actuator Model	Metric Unit	Spring Torque Nm	Operating Pressure, barg																		MinOP barg	MOP barg				
			2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5			11	11.5		
			Air Torque Output, Nm																							
CBA930-SR40	Start	827		708	966	1,225	1,483	1,742	2,001	2,259	2,518												2.4	5.9		
	Min	337		274	413	550	687	823	959	1,095	1,231															
	End	472		356	615	874	1,133	1,392	1,652	1,911	2,170															
CBA930-SR60	Start	1,362					1,331	1,590	1,849	2,107	2,366	2,625											3.8	6.2		
	Min	501					487	628	767	905	1,042	1,179														
	End	624					598	857	1,116	1,375	1,635	1,894														
CBA930-SR80	Start	1,833							1,617	1,875	2,134	2,393											5.0	6.6		
	Min	678							561	705	845	984														
	End	856							645	905	1,164	1,423														
CBA930-SR100	Start	2,306									1,898	2,156	2,415	2,674									6.3	7.2		
	Min	857									633	779	921	1,061												
	End	1,092									691	950	1,209	1,469												
CBA1030-SR40	Start	1,111		958	1,300	1,642	1,984	2,326	2,668														2.4	4.8		
	Min	448		367	551	732	913	1,093	1,273																	
	End	623		472	815	1,158	1,501	1,843	2,186																	
CBA1030-SR60	Start	1,830						1,807	2,149	2,491													3.8	5.2		
	Min	659					649	837	1,021																	
	End	800					782	1,125	1,468																	
CBA1030-SR80	Start	2,387							2,090	2,432													4.9	5.5		
	Min	911							752	940																
	End	1,201							910	1,253																