

## Torque - Pneumatic Double-Acting Actuator

Actuator Model	Imperial Unit	Stroke Direction	Operating Pressure, psig																MinOP psig	MOP psig	
			40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115			120
			Air Torque Output, lbf-in																		
CBA730	Start	Outboard	7,558	8,557	9,556	10,555	11,554	12,554	13,553	14,552	15,552	16,551	17,551	18,551	19,550	20,550	21,550			40	105
	Min		4,039	4,563	5,087	5,611	6,134	6,658	7,182	7,706	8,230	8,754	9,278	9,802	10,326	10,850	11,374				
	End		7,728	8,730	9,732	10,734	11,736	12,739	13,741	14,744	15,746	16,748	17,751	18,754	19,756	20,759	21,762				
CBA730	Start	Inboard	7,557	8,556	9,555	10,554	11,553	12,552	13,551	14,550	15,549	16,549	17,548	18,548	19,547	20,547	21,547			40	105
	Min		4,039	4,563	5,087	5,611	6,134	6,658	7,182	7,706	8,230	8,754	9,278	9,802	10,326	10,850	11,374				
	End		7,727	8,729	9,731	10,733	11,735	12,737	13,740	14,742	15,744	16,747	17,749	18,752	19,754	20,757	21,759				
CBA830	Start	Outboard	10,012	11,324	12,637	13,950	15,263	16,576	17,889	19,202	20,515									40	80
	Min		5,333	6,021	6,709	7,397	8,085	8,774	9,462	10,150	10,838										
	End		10,204	11,520	12,836	14,153	15,469	16,786	18,102	19,419	20,735										
CBA830	Start	Inboard	10,010	11,323	12,635	13,948	15,260	16,573	17,886	19,199	20,512									40	80
	Min		5,333	6,021	6,709	7,397	8,085	8,774	9,462	10,150	10,838										
	End		10,203	11,519	12,835	14,151	15,468	16,784	18,100	19,417	20,733										
CBA930	Start	Outboard	12,801	14,469	16,138	17,806	19,475	21,143												40	65
	Min		6,803	7,677	8,551	9,426	10,300	11,174													
	End		13,016	14,688	16,361	18,033	19,706	21,378													
CBA930	Start	Inboard	12,799	14,467	16,135	17,804	19,472	21,140												40	65
	Min		6,803	7,677	8,551	9,426	10,300	11,174													
	End		13,014	14,687	16,359	18,031	19,704	21,376													
CBA1030	Start	Outboard	17,031	19,238	21,444															40	50
	Min		9,030	10,186	11,341																
	End		17,276	19,487	21,698																
CBA1030	Start	Inboard	17,029	19,235	21,441															40	50
	Min		9,030	10,186	11,341																
	End		17,274	19,485	21,696																

# Torque - Pneumatic Spring-Return Actuator

Actuator Model	Imperial Unit	Spring Torque lb-in	Operating Pressure, psig																	MinOP psig	MOP psig			
			35	40	45	50	55	60	65	70	75	80	85	90	100	110	120	130	140			150	160	170
			Air Torque Output, lbf-in																					
CBA730-SR40	Start	4,284	3,384	4,329	5,273	6,218	7,163	8,108	9,054	9,999	10,944	11,889	12,835	13,780	15,671	17,562	19,454	21,346	23,238				35	135
	Min	1,749	1,270	1,785	2,291	2,793	3,293	3,791	4,290	4,787	5,284	5,781	6,278	6,775	7,268	8,760	9,753	10,745	11,738					
	End	2,432	1,550	2,498	3,446	4,394	5,342	6,290	7,238	8,186	9,134	10,082	11,030	11,979	13,875	15,772	17,669	19,566	21,463					
CBA730-SR60	Start	6,762			4,965	5,910	6,855	7,800	8,745	9,691	10,636	11,581	12,527	14,418	16,309	18,200	20,092	21,984					52	140
	Min	2,692			1,718	2,246	2,760	3,268	3,772	4,274	4,775	5,275	5,774	6,771	7,766	8,761	9,755	10,749						
	End	3,686			1,915	2,863	3,811	4,759	5,707	6,655	7,604	8,552	9,500	11,397	13,294	15,190	17,088	18,985						
CBA730-SR80	Start	9,544								7,841	8,786	9,731	10,676	11,622	13,513	15,404	17,296	19,188	21,080	22,972			72	145
	Min	3,585								2,656	3,190	3,711	4,225	4,735	5,746	6,751	7,752	8,752	9,750	10,747				
	End	4,591								2,925	3,873	4,821	5,770	6,718	8,615	10,511	12,408	14,305	16,203	18,100				
CBA730-SR100	Start	11,981										9,448	10,394	12,285	14,176	16,068	17,959	19,851	21,744				90	150
	Min	4,511										3,119	3,661	4,706	5,729	6,742	7,749	8,753	9,754					
	End	5,820										3,332	4,280	6,177	8,073	9,970	11,867	13,765	15,662					
CBA830-SR40	Start	5,694	4,544	5,785	7,027	8,268	9,510	10,752	11,993	13,235	14,477	15,719	16,961	18,203	20,688	23,173							35	105
	Min	2,322	1,710	2,385	3,049	3,708	4,364	5,019	5,673	6,326	6,980	7,632	8,284	8,937	10,241	11,544								
	End	3,245	2,117	3,361	4,606	5,852	7,097	8,342	9,587	10,832	12,077	13,323	14,568	15,814	18,305	20,796								
CBA830-SR60	Start	9,239					8,201	9,443	10,684	11,926	13,168	14,410	15,652	16,894	19,379	21,864							54	110
	Min	3,513					2,961	3,644	4,317	4,983	5,645	6,305	6,963	7,620	8,931	10,240								
	End	4,555					3,551	4,796	6,041	7,286	8,532	9,777	11,022	12,268	14,759	17,250								
CBA830-SR80	Start	12,682								10,506	11,748	12,990	14,232	15,474	17,959	20,444	22,929						73	115
	Min	4,715								3,521	4,225	4,911	5,586	6,256	7,586	8,907	10,223							
	End	5,976								3,842	5,087	6,332	7,578	8,823	11,314	13,805	16,297							
CBA830-SR100	Start	16,232												14,160	16,645	19,129	21,615						92	120
	Min	5,902												4,770	6,163	7,517	8,854							
	End	7,290												5,272	7,763	10,254	12,746							
CBA930-SR40	Start	7,315	5,865	7,443	9,021	10,599	12,177	13,755	15,333	16,911	18,490	20,068	21,647										35	85
	Min	2,978	2,205	3,062	3,905	4,742	5,576	6,409	7,239	8,070	8,899	9,728	10,557											
	End	4,174	2,749	4,330	5,912	7,494	9,076	10,658	12,240	13,822	15,404	16,987	18,569											
CBA930-SR60	Start	12,054					10,832	12,411	13,989	15,567	17,145	18,724	20,302	21,881									55	90
	Min	4,433					3,774	4,652	5,512	6,362	7,206	8,046	8,884	9,720										
	End	5,519					4,336	5,918	7,500	9,082	10,664	12,247	13,829	15,411										
CBA930-SR80	Start	16,221								13,515	15,093	16,672	18,250	19,829									73	95
	Min	6,001								4,512	5,407	6,278	7,137	7,989										
	End	7,572								4,914	6,497	8,079	9,661	11,243										
CBA930-SR100	Start	20,407												17,736	20,894	24,052							91	105
	Min	7,586												6,138	7,889	9,601								
	End	9,666												7,055	10,220	13,385								
CBA1030-SR40	Start	9,837	7,954	10,041	12,127	14,214	16,301	18,388	20,475	22,562													35	70
	Min	3,963	2,956	4,090	5,206	6,313	7,417	8,517	9,616	10,713														
	End	5,510	3,655	5,746	7,838	9,929	12,021	14,112	16,204	18,295														
CBA1030-SR60	Start	16,194					14,734	16,821	18,908	20,995	23,083												55	75
	Min	5,830					5,035	6,203	7,344	8,470	9,588													
	End	7,077					5,662	7,753	9,845	11,936	14,028													
CBA1030-SR80	Start	21,128								17,447	19,535	21,622											71	80
	Min	8,065								6,065	7,228	8,368												
	End	10,627								7,001	9,092	11,184												