



A Galveston-Houston Company

Actuator Data

Torque output

All published torques are guaranteed minimum values

“CB” Series

Double acting

Actuator Model	TORQUE OUTPUT INCH-LBS.	OPERATING PRESSURE—LBS./SQ. INCH							
		40	50	60	70	80	90	100	120
CB-315	BREAK	540	675	810	950	1080	1210	1350	1620
	RUNNING	360	450	540	630	720	810	900	1080
CBL-415	BREAK	940	1160	1400	1645	1880			
	RUNNING	620	775	930	1085	1240			
CB-420	BREAK	1320	1600	1880	2180	2460	2740	3000	3590
	RUNNING	860	1050	1240	1430	1620	1810	2000	2380
CBL-520	BREAK	1930	2390	2850	3320	3860			
	RUNNING	1290	1600	1900	2200	2580			
CB-525	BREAK	2490	3070	3650	4230	4800	5400	6000	7150
	RUNNING	1660	2050	2440	2820	3200	3600	4000	4770
CBL-725	BREAK	4620	5760	6900	8000	9240			
	RUNNING	3060	3840	4600	5400	6120			

Spring return

Actuator Model		OPERATING PRESSURE—LBS./SQ. INCH							
		40	50	60	70	80	90	100	
CB-315-SR	ENDING	200	200	300	300	400	400	500	
CB-415-SR	ENDING	350	350	500	500	700	700	800	
CB-420-SR	ENDING	400	400	600	600	800	800	1000	
CB-520-SR	ENDING	600	600	1000	1000	1300	1300	1700	
CB-525-SR	ENDING	900	900	1300	1300	1700	1700	2100	
CB-725-SR	ENDING	1700	1700	2500	2500	3400	3400	3800	

Rack and Pinion Series

Double acting

Actuator Model	TORQUE OUTPUT INCH-LBS.	OPERATING PRESSURE—LBS./SQ. INCH												
		40	50	60	70	80	90	100	125	150	175	200	225	250
301D	RUNNING	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500	5000
301D-180	RUNNING	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500	5000

Spring return

Actuator Model		OPERATING PRESSURE—LBS./SQ. INCH												
		40	50	60	70	80	90	100	125	150	175	200	225	250
301D-SR	END	225	420	450	450	515	710	750	1000	1000	1000	1350	1350	2000

“HD” Series

Double acting

Actuator Model	TORQUE OUTPUT INCH-LBS.	OPERATING PRESSURE—LBS./SQ. INCH												
		40	50	60	70	80	90	100	125	150	175	200	225	250
521C	BREAK	2200	3000	3700	4500	5400	6600	7000	9000	11000	13000	15000	16875	18750
	RUNNING	1600	2000	2400	2800	3200	3600	4000	5000	6000	7000	8000	9000	10000
522C	BREAK	4400	6000	7400	9000	10800	13200	14000	17500	21000				
	RUNNING	3200	4000	4800	5600	6400	7200	8000	10000	12000				
721C	BREAK	5400	7000	8600	10200	11800	13400	15000	18750	22500				
	RUNNING	3100	4000	4900	5800	6700	7600	8500	10625	12750				
722C	BREAK	11000	14300	17160	20020									
	RUNNING	6300	8200	9840	11480									
731C	BREAK	7500	9500	11400	13400	15400	17400	19400	24200	29000	34000	39000	44500	48300
	RUNNING	4300	5500	6600	7800	8900	10100	11500	14200	17000	20000	23000	25900	28800
732C	BREAK	13600	17000	20400	23800	27200	30600	34000	42500	51000				
	RUNNING	8160	10200	12240	14280	16320	18360	20400	25500	30600				

Double acting with hydraulic manual control or speed control

Actuator Model	TORQUE OUTPUT INCH-LBS.	OPERATING PRESSURE—LBS./SQ. INCH												
		40	50	60	70	80	90	100	125	150	175	200	225	250
522C-H	BREAK	2200	3000	3700	4500	5400	6600	7000	9000	11000	13000	15000	16875	18750
	RUNNING	1600	2000	2400	2800	3200	3600	4000	5000	6000	7000	8000	9000	1000
722C-H	BREAK	5400	7000	8600	10200	11800	13400	15000	18750	22500				
	RUNNING	3100	4000	4900	5800	6700	7600	8500	10625	12750				
732C-H	BREAK	7500	9500	11400	13400	15400	17400	19400	24200	29000	34000	39000	44500	48300
	RUNNING	4300	5500	6600	7800	8900	10100	11500	14200	17000	20000	23000	25900	28800

Spring return

Actuator Model		OPERATING PRESSURE—LBS./SQ. INCH												
		40	50	60	70	80	90	100	125	150	175	200	225	250
521C-SR	END	830	830	1250	1250	1660	1660	2080	2600	3130	3130	4170	4170	4170
721C-SR	END	1710	1710	2570	2570	3420	3420	4280	5350	6420	6420	7900	7900	7900
722C-SR	END	3150	3150	4750	4750	6300	6300	7900	7900					
732C-SR	END	3500	3500	6150	6150	8200	8200	9500	10300	14250	15400	15400	15400	

Spring return with hydraulic manual control or speed control

Actuator Model		OPERATING PRESSURE—LBS./SQ. INCH												
		40	50	60	70	80	90	100	125	150	175	200	225	250
522C-SR-H	END	830	830	1250	1250	1660	1660	2080	2600	3130	3130	4170	4170	4170
722C-SR-H	END	1710	1710	2570	2570	3420	3420	4280	5350	6420	6420	7900	7900	7900
732C-SR-H	END					3500			6150		8200	9500	10200	10200

T" Series

Double acting

Actuator Model	TORQUE OUTPUT INCH-LBS.	OPERATING PRESSURE—LBS./SQ. INCH												
		40	50	60	70	80	90	100	125	150	175	200	225	250
T-310	BREAK	14700	18400	22100	25800	29500	33100	36800	46000	55200				
	RUNNING	8100	10100	12100	14100	16200	18200	20200	25300	30300				
T-312	BREAK	20100	26100	31400	36600	41800	47000	52300						
	RUNNING	11600	14500	17400	20400	23300	26200	29100						
T-410	BREAK	20700	25800	31000	36200	41300	46500	51700	64500	77500	90400	103000		
	RUNNING	11100	13800	16600	19400	22200	25900	28700	34600	41600	50200	57000		
T-412	BREAK	29700	37100	44500	52000	59400	66800	74300	94000	111000				
	RUNNING	16500	20600	24800	28900	33000	37100	41300	51600	62000				
T-416	BREAK	47800	59800	71800	83700	95800	107700							
	RUNNING	26600	33300	40000	46600	53200	59800							
T-516	BREAK	63000	78700	94500	110000	126000	141000	157000	197000					
	RUNNING	35000	43700	52400	61200	70000	78500	87300	109000					
T-520	BREAK	100000	125000	150000	175000	200000	225000							
	RUNNING	55600	69500	83400	97200	110000	125000							
T-816	BREAK	99000	124000	148500	173500	198000	223000	248000	310000	371000	432500			
	RUNNING	55000	69000	82500	96500	110000	124000	137500	172000	206000	240200			
T-820	BREAK	157500	197000	236000	276000	315000	354000	394000						
	RUNNING	87500	109500	131000	153000	175000	197000	219000						

Spring return

Actuator Model		OPERATING PRESSURE—LBS./SQ. INCH												
		40	50	60	70	80	90	100	125	150	175	200	225	250
T-310-SR	ENDING		5 1,470	5 5,170	5 5,510	4 7,630	4 9,570	4 9,570	3 13,400	2 20,200	2 20,200	1 21,600	1 28,100	1 28,100
T-312-SR	ENDING	5 4,150	5 5,510	4 9,570	4 9,570	3 13,400	3 13,400	2 19,000	2 20,200	1 27,000	1 28,100	1 28,100		
T-316-SR	ENDING	4 9,570	3 13,400	2 17,000	2 20,200	2 20,200	1 24,000	1 28,100	1 28,100					
T-410-SR	ENDING							5 13,200	4 18,300	3 24,500	3 29,400	3 29,400	2 31,800	2 41,300
T-412-SR	ENDING				5 13,300	5 13,300	4 19,900	3 20,800	3 29,400	3 29,400	2 41,300	1 46,300		
T-416-SR	ENDING	5 8,800	5 13,300	4 19,900	3 29,400	3 29,400	3 29,400	2 34,000	1 46,600					
T-420-SR	ENDING	4 19,900	3 29,400	3 29,400	2 41,300	1 48,500								
T-516-SR	ENDING				4 39,900	3 48,000	3 48,000	3 48,000	2 66,200	2 81,600	1 92,500	1 111,000	1 111,000	
T-520-SR	ENDING	4 35,100	3 48,000	3 48,000	3 48,000	2 69,000	2 81,500	2 81,500	1 111,000	1 111,000				
T-816-SR	ENDING				5 59,600	5 63,300	5 63,300	5 63,300	4 95,600	3 121,000	3 121,000	2 172,000	2 177,000	2 177,000
T-820-SR	ENDING	5 43,000	5 63,300	5 63,300	4 86,100	4 95,500	3 129,000	3 129,000	2 167,000	2 177,000				

*Legend

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 Number in small square is spring size and must be specified. Example: T-816-SR5

All Actuator Series listed in this Bulletin are designed and manufactured to rigid standards to insure maximum efficiency. Bettis Corporation certifies that the Torque Output Values published above represent true, tested and measured torque capabilities. When you purchase a Bettis

Actuator you can be certain that your Actuator will develop the published torque. A properly applied and maintained Actuator will continue to produce the advertised torques throughout a long service life.

Note: For Torque requirements greater than shown, refer to Bettis Corporation.